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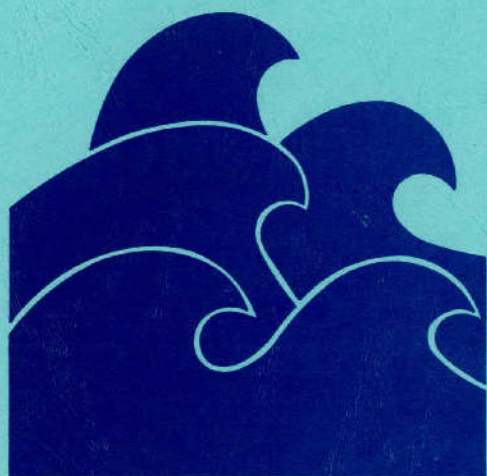
Report 246

*GROUND-WATER DEVELOPMENT  
IN THE EL PASO REGION, TEXAS  
WITH EMPHASIS ON THE  
LOWER EL PASO VALLEY*

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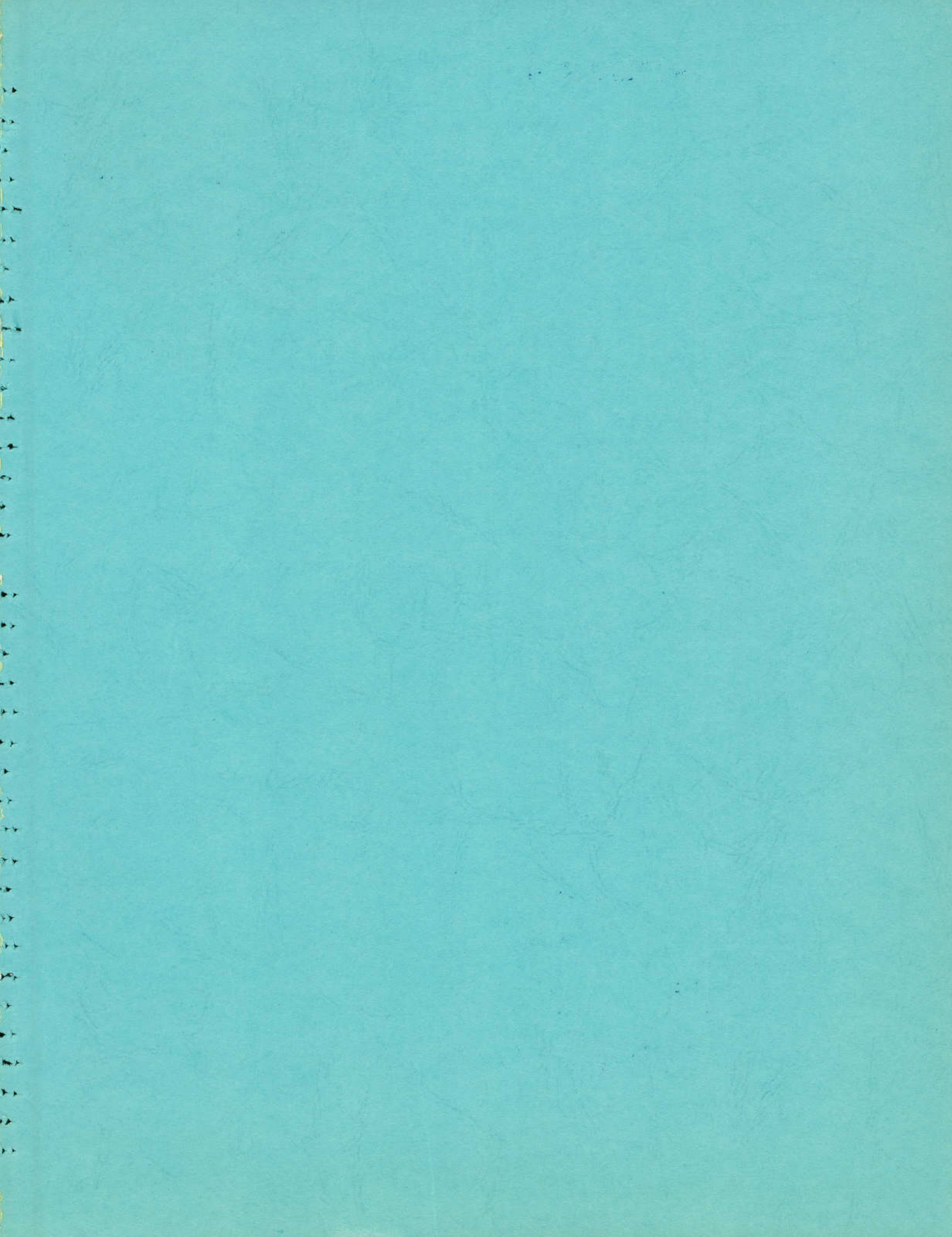
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June 1980





**TEXAS DEPARTMENT OF WATER RESOURCES**

**REPORT 246**

**GROUND-WATER DEVELOPMENT IN THE EL PASO REGION, TEXAS, WITH  
EMPHASIS ON THE RESOURCES OF THE LOWER EL PASO VALLEY**

By

Henry J. Alvarez and A. Wayne Buckner

This report was prepared by the  
Texas Department of Water Resources  
under cooperative agreement with the  
U.S. Bureau of Reclamation.

June 1980

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# GROUND-WATER DEVELOPMENT IN THE EL PASO REGION, TEXAS, WITH EMPHASIS ON THE RESOURCES OF THE LOWER EL PASO VALLEY

## INTRODUCTION

### Purpose, Scope, and Methods of Investigation

The investigation in the lower El Paso Valley was initiated at the request of the United States Bureau of Reclamation for the purpose of determining the occurrence, availability, dependability, quantity, and quality of ground water in the lower El Paso Valley, and to assist the El Paso County Water Improvement District No. 1 and Hudspeth County Conservation and Reclamation District No. 1 in determining the areas most favorable for future development of ground water for irrigation in the lower El Paso Valley as a means of supplementing annual surface-water diversions from the Rio Grande.

The scope of the investigation was (1) to review, update, and include previous work in the study area, (2) to attempt to delineate areas of potential fresh ground water development, primarily for irrigation, and (3) to publish the results and conclusions of these studies to serve as a guide for (a) making recommendations concerning what future studies and management procedures might be advisable, and (b) developing and obtaining maximum benefits from the available ground-water resources in the lower El Paso Valley.

This investigation was initiated in September 1973 by the technical staff of the El Paso District Office of the then Texas Water Development Board, one of the predecessor agencies of the Texas Department of Water Resources. First, all published and unpublished ground-water information pertaining to all or part of the lower El Paso Valley in El Paso and Hudspeth Counties (see selected references) was reviewed, assimilated, and tabulated with appropriate referencing according to source. This information was then supplemented and updated by new field work which included an inventory of all large-capacity wells used for public supply,

industrial, and irrigation purposes in and adjacent to the lower El Paso Valley. Information from water test holes and oil tests was included. The results of this study were presented in an open-file report which was distributed to participants in the U.S. Bureau of Reclamation's Rio Grande Regional Environmental Project.

An additional inventory of high-capacity wells was initiated by Board personnel in 1975 to provide well data for the upper El Paso Valley (also known as the Mesilla Valley), the Mesilla bolson, and portions of the Hueco bolson that were not included in the lower El Paso Valley report. The present report incorporates the results of both studies and includes much water-level and chemical-quality information obtained subsequent to the completion of the initial report.

### Location and Extent

The area of investigation in connection with the original study consisted of the lower El Paso Valley from the Paso del Norte in El Paso County to Quitman Canyon in Hudspeth County. Ground-water data from selected wells in the area adjacent to the lower valley were also included. The area in which the subsequent inventory of high-capacity wells was conducted and whose data are also included in this report consists of: (1) the upper El Paso Valley in El Paso County from Anthony to the Paso del Norte; (2) the Mesilla bolson in El Paso County; and (3) portions of the Hueco bolson in El Paso County not included in the lower valley investigation. The combined upper and lower El Paso Valley is 108 miles long, varies in width from 12 miles near El Paso to 2 miles near Fort Quitman, and contains 69,000 irrigable acres in El Paso County and 18,300 such acres in Hudspeth County.

### Climate and Physiography

The climate of the region is typical of an arid to semiarid desert environment with hot days and cool

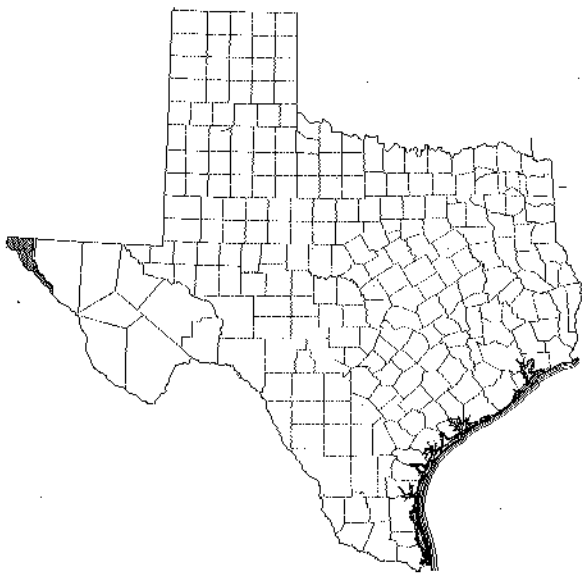


Figure 1.—Location of Study Area

nights in the summer and cool days and cold nights in the winter. In late winter and spring, high winds and blowing sand are common. It is also characterized by small amounts of precipitation and very low humidity; consequently, evaporation is high. Rainfall occurs primarily in July, August, and September and is insufficient for any growth except desert vegetation; therefore, farming in the area is completely dependent upon irrigation water from either surface-water or ground-water supplies. Figure 2 illustrates the average monthly precipitation, evaporation, and temperature at El Paso for the period of record.

Physiographically, the area includes three distinct divisions. They are (1) the rugged and prominent Franklin Mountains which reach 7,172 feet above mean sea level, (2) the bench lands adjacent to the river valley which are locally referred to as "the mesa" and are about 4,000 feet above mean sea level, and (3) the river valley which consists of the recent flood plain of the Rio Grande and is relatively level with a slight gradient of 2.8 feet per mile to the southeast. The river valley varies in elevation from 3,790 feet above mean sea level at the upper end near Anthony to 3,450 feet above mean sea level at the lower end near Fort Quitman in Hudspeth County.

### Population and Economy

The study area, with a total population of approximately 400,000 people, includes the city of El Paso and the towns of Canutillo, Clint, Fabens, Socorro,

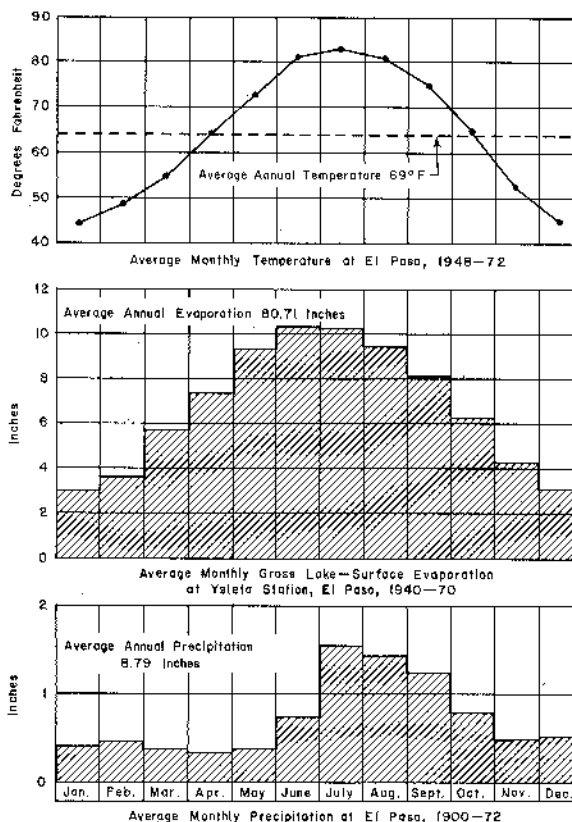


Figure 2.—Average Monthly Temperature, Evaporation, and Precipitation at El Paso (Temperature and precipitation data from National Weather Service; lake-surface evaporation obtained as described in Kane, 1967)

San Elizario, Tornillo, and a portion of Anthony in El Paso County and Acala, Fort Hancock, and McNary in Hudspeth County.

Excluding the industrial area of El Paso, the economy of the El Paso Valley is primarily dependent upon agriculture. The irrigated El Paso Valley is one of the leading agricultural areas in Texas in terms of crops, livestock, poultry, and dairy production.

### Acknowledgements

The authors acknowledge the cooperation extended by the property owners of the El Paso Valley. In most cases this cooperation consisted of supplying information concerning their wells. In many instances, it also included access to their property and the use of their wells to monitor water-level changes. Acknowledgement is also extended to the El Paso Water Utilities, El Paso County Water Improvement District No. 1, Hudspeth County Conservation and Reclamation District No. 1, U.S. Bureau of Reclamation, and the U.S. Geological Survey for their assistance and cooperation throughout this investigation.

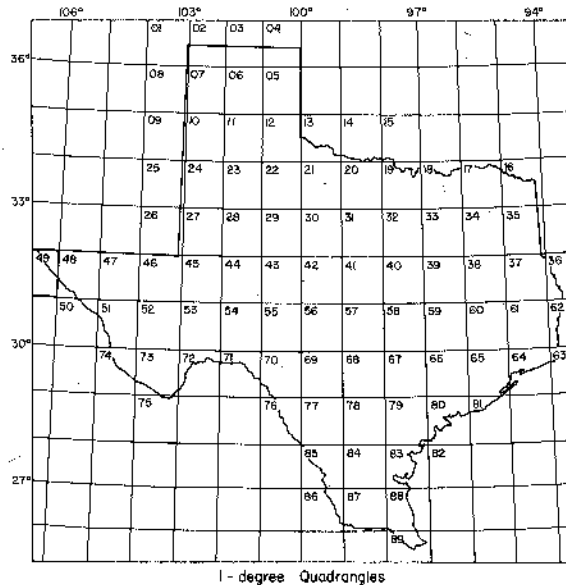
## Personnel

The data herein contained were assembled by the authors with the assistance of Rhys Rees, geologist, and Mike Munoz, engineering technician. Gil Trevizo, an engineering technician, assisted during the data inventory phase of the investigation. These personnel were all assigned to the El Paso District Office of the then Texas Water Development Board. Soil delineation (shown on Figure 16) were done by R.M. Marshall of the Board's staff. This report was prepared under the general direction of C. R. Baskin, director, Data and Engineering Services Division of the Texas Department of Water Resources, and Tommy R.

Knowles, chief of the Data Collection and Evaluation section.

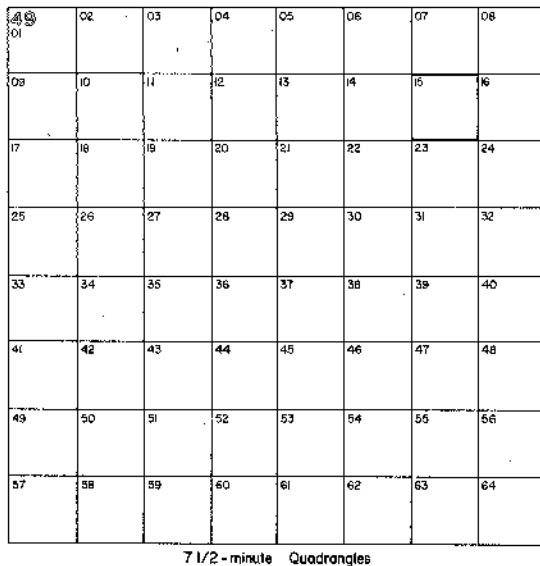
## Well-Numbering System

All water wells, oil tests, and test holes included in this report have been assigned a permanent state well number. The well numbers assigned are part of a statewide well-numbering system used by the Texas Department of Water Resources. This system is based on the division of the State into quadrangles formed by degrees of latitude and longitude, and the repeated division of these quadrangles into smaller ones as shown on Figure 3.

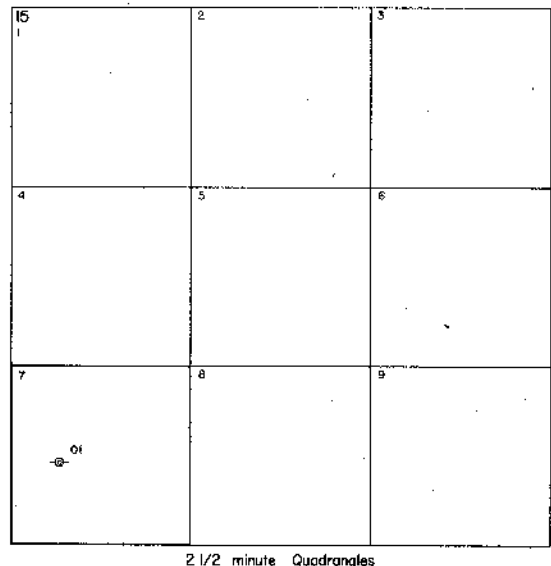


Location of Well 49-15-701

- ① 1-degree quadrangle
- 15 7 1/2-minute quadrangle
- 7 2 1/2-minute quadrangle
- 01 Well number within 2 1/2-minute quadrangle



7 1/2-minute Quadrangles



2 1/2 minute Quadrangles

Figure 3.—Well-Numbering System

The State has been divided into eighty-nine 1-degree quadrangles. The first two digits of the seven digit well number indicates in which 1-degree quadrangle the well is located. The El Paso Valley is located in El Paso and Hudspeth Counties and includes parts of three 1-degree quadrangles: 48, 49 and 50.

Each 1-degree quadrangle has been divided into sixty-four 7½-minute quadrangles. These are represented by the second pair of digits in the well number. The 7½-minute quadrangles are numbered from left to right starting in the upper left corner of the 1-degree quadrangle.

The 1-degree quadrangle and 7½-minute quadrangle numbers are shown on Figure 17, the well-location map, in the upper left corner of each 7½-minute quadrangle.

The 7½-minute quadrangles are further divided into nine 2½-minute quadrangles. These are represented by the fifth digit of the well number. The 2½-minute quadrangles also are numbered from left to right starting in the upper left corner. These numbers are not shown separately on the well-location map, but comprise the first of the three digits that appear at the location of each well. The last two digits are the individual well's number within the 2½-minute quadrangle.

Figure 3 illustrates the state well-numbering system and its application using well 49-15-701, located in El Paso County. The two-letter prefix in front of each state well number in various tables of this report designates the county in which the well is located. El Paso County is indicated by the prefix "JL" and Hudspeth County by the prefix "PD".

Many of the wells inventoried and assigned state well numbers during this investigation were previously inventoried and numbered by the U.S. Geological Survey and the U.S. Bureau of Reclamation. Table 4 cross-references the well numbers used in this report with those used in previous studies by other agencies.

## **GEOHYDROLOGIC CONDITIONS**

### **Geology Related to the Occurrence of Ground Water**

The present geological framework of the El Paso area was established in middle to late Cenozoic. The main physiographic features within the study area are the mountains, Mesilla bolson, Hueco bolson, and the El Paso Valley. The mountains or upland areas flanking the

bolsons on the west and east in Texas are outcrops of rocks ranging in age from Precambrian to Tertiary. The mountains flanking the bolsons on the west and southwest in Chihuahua, Mexico are outcrops of Cretaceous rocks. These rocks and those further north and northwest in New Mexico were the source materials for the Tertiary and Quaternary sediments deposited in the bolsons and in the El Paso Valley. During more recent geologic time, the Rio Grande alluvium was deposited in the flood plain of the river. Also during more recent geologic time, in the mesa area of the Hueco bolson, sand dunes have developed on the surface and a zone of caliche has been formed several feet below the surface.

There are three major sources of fresh to slightly saline ground water: (1) the Hueco bolson deposits in which fresh water occurs from a point near the Paso del Norte to Ysleta, (2) the Mesilla bolson deposits which underlie the Texas portion of the Mesilla Valley west of the Franklin Mountains, and (3) the Rio Grande alluvium which overlies the Hueco and Mesilla bolson deposits in the upper and lower El Paso Valley.

The Hueco bolson deposits consist of alternating beds of clay, sand, and gravel. The individual beds have a nonuniform character and range in thickness from a fraction of an inch up to about 100 feet. Because of the lenticular nature of the strata, it is generally impossible to correlate individual beds, even over relatively short distances. The exact thickness of the Hueco bolson deposits is not known. According to Mattick (1967, p. D85-D91), the maximum thickness of the bolson fill, which occurs within a deep structural trough paralleling the east base of the Franklin Mountains, is about 9,000 feet. An oil test 2 miles east of Tornillo encountered bolson fill to about this same depth. A test well (48-42-703) was drilled for the Hudspeth County Conservation and Reclamation District near Fort Hancock, according to Leggat (1962, p. 6), "to a depth of 3,500 feet without encountering bedrock."

The Mesilla bolson is a structural basin filled with unconsolidated or slightly consolidated deposits of Tertiary and Quaternary age derived from erosion of the bordering highlands. The bolson deposits consist of sand, silt, gravel, clay, caliche, and conglomerate. Three aquifers have been distinguished in the upper El Paso Valley (Leggat and others, 1962). The Rio Grande alluvium and part of the underlying Mesilla bolson deposits form the shallow aquifer. Intermediate and deep aquifers are composed of most of the remaining Mesilla bolson deposits.

The Rio Grande alluvium, which overlies the older Hueco and Mesilla bolson deposits within the upper and

lower El Paso Valley, consists of sand, gravel, clay, and silt. The areal extent of the Rio Grande alluvium is illustrated in Figure 17. Like the underlying Hueco and Mesilla bolson deposits, the individual layers and lenses of the various sediments are nonuniform in character and thickness and cannot be correlated from one location to another. According to Davis (1967), "electrical and drillers' logs of municipal and industrial supply wells indicate that the thickness of the alluvium probably is on the order of 200 feet." This depth has been confirmed in two test holes (JL-49-30-207 and JL-49-30-623), drilled in 1974 by the Texas Water Development Board near the Rio Grande in the vicinity of San Elizario, on the basis of cuttings collected during drilling and geophysical logs run on the wells.

The Rio Grande alluvium was derived in part from the erosion and redeposition of the bolson deposits. Because it is difficult to distinguish between these in wells, in the area of alluvium outcrop those sediments more than 200 feet below ground level are classed in this report as bolson deposits and those less than 200 feet deep are considered to be alluvium.

Consolidated rocks in the El Paso Valley include both igneous and sedimentary rocks ranging in age from Precambrian to Tertiary. Small quantities of water have been obtained from bedrock in a few wells. In general, the consolidated rocks are not a source for moderate or large supplies of ground water.

### **Ground Water—Surface Water Relationship**

The principal sources for ground water within the study area are the Hueco and Mesilla bolson deposits and the Rio Grande alluvium deposits. Figure 17 illustrates the areal extent of these deposits within the study area. Because no impermeable geologic stratum of regional extent is known to separate the bolson deposits and river alluvium, they are considered hydrologically connected. Under these conditions, ground water may move from one to the other in response to hydraulic pressure.

According to Leggat (1962, p. 7), ground water occurs under water-table conditions in the mesa portion of the Hueco bolson but as the ground water moves into the city artesian area it passes beneath relatively impermeable sediments and becomes confined under pressure exerted by the higher elevation of the water surface underlying the mesa. The area of artesian conditions in the Hueco bolson, referred to as the city artesian area, is indicated in Figure 6.

Ground water in the Rio Grande alluvium is hydrologically connected to the unlined river and drains

and occurs under water-table conditions with the water table generally about 10 to 12 feet below the surface. During periods of low surface-water inflow, such as in the years 1951-57, the average depth to the water table has increased to about 19 feet. During periods of relatively high surface-water inflow, the depth to the water table is controlled by a network of open surface drains.

Prior to 1951, surface-water supplies were generally adequate to meet the irrigation requirements of the El Paso Valley. However, since 1951 ground water has been used to supplement surface water from the Rio Grande, and during several years since 1951, ground water has supplied virtually all of the irrigation water requirements of the valley and has been the survival factor for its agriculture. It was during this time that most of the irrigation wells were drilled in the El Paso Valley.

Ground-water movement in the Hueco bolson deposits in and adjacent to the city artesian area is predominantly toward centers of water-well development and pumpage. Meyer and Gordon (1972) indicated the same conditions for a larger extent of the bolson deposits in Texas. Sayre and Livingston (1945, Plate 2) verified to a lesser degree the same condition of ground-water movement, and showed that the direction of regional ground-water movement in 1936 in Texas and New Mexico varied from south to southeast, generally toward the Rio Grande and other areas of natural discharge.

The ground-water movement in the Rio Grande alluvium in the lower El Paso Valley generally is toward the southeast and the average gradient is about 3.5 feet per mile (Figures 5, 6, and 7). The rate and direction of ground-water movement are changed during periods of heavy pumpage from the alluvium, and when leakage occurs in the city artesian area. When the alluvial aquifer is full, ground water naturally discharges into the river and numerous drainage canals. In the city artesian area, ground water is moving (leaking) from the alluvium into the Hueco bolson deposits. In some areas in the remaining part of the lower El Paso Valley, ground water in the Hueco bolson deposits is moving into the alluvium. Part of this water then moves through the alluvium and discharges into the river and drains when the alluvial aquifer is full.

### **Hydraulic Characteristics**

The ability of an aquifer to yield and transmit water is indicated by the aquifer's coefficients of storage and transmissibility.

The coefficient of storage is a dimensionless term and is defined as the volume of water released from or taken into storage per unit of surface area of the aquifer per unit change in head. In aquifers under artesian conditions, the coefficient of storage is the result of two elastic effects. These are compression of the aquifer and expansion of the contained water as the head or pressure is reduced during pumping. In aquifers under water-table conditions, the coefficient of storage is the same as the specific yield of the material dewatered during pumping.

The coefficient of transmissibility is defined as the rate at which water will flow in gallons per day through a vertical strip of the aquifer one foot wide and extending through the full saturated thickness under a hydraulic gradient of one foot per foot.

If the coefficients of transmissibility and storage are known, it is possible to predict the amount of drawdown caused by a pumping well at various rates of pumping, various distances from the pumped well, and various time intervals.

A large number of aquifer tests have been conducted in the El Paso area by the U.S. Geological Survey to determine the hydraulic characteristics of the Hueco bolson deposits. These characteristics have been used in the verification phase of the Survey's mathematical ground-water model study of the bolson. Based on the results of aquifer tests and the verification of the model, the Hueco bolson deposits are estimated to have the following hydraulic characteristics (W. R. Meyer, oral commun., 1974):

- (1) Coefficients of storage
  - a. Water-table (mesa) area—0.16 to 0.30 (specific yield)
  - b. City artesian area—0.0004
- (2) Coefficients of transmissibility
  - a. Water-table (mesa) area—10,000 to 280,000 gpd/ft
  - b. City artesian area—50,000 to 120,000 gpd/ft

These results represent the hydraulic characteristics of the bolson deposits only in the area covered by the model study. They do not represent the hydraulic characteristics of the bolson deposits in the southeastern part of the bolson in southeastern El Paso County and southwestern Hudspeth County. No aquifer tests are known to have been conducted in these areas. However,

Leggat (1962, p. 27) in referring to the city's Lower Valley Test Hole 2, well JL-49-39-202, states, "data reported for well AA-34 suggest that the coefficients of transmissibility and storage are low, probably on the order of 25,000 gpd per foot and 0.0003, respectively."

No aquifer tests are known to have been conducted on the Rio Grande alluvium in the El Paso Valley. However, the alluvium's transmissibilities generally should be less than those of the bolson since it is a much thinner aquifer. W. R. Meyer (oral commun., 1974) indicates that an assumed specific yield of 0.20 and an average transmissibility of 30,000 gpd/ft (maximum well yields of approximately 2,000 gallons per minute) were used for the Rio Grande alluvium in the verification phase of the Hueco bolson model study. Previous water-availability evaluations of the alluvium assumed a specific yield of 0.15.

### Estimated Ground-Water Recharge and Discharge

Ground water in the Hueco bolson, Mesilla bolson, and Rio Grande alluvium moves from areas of recharge to areas of discharge. This ground-water movement is part of the overall cyclical transfer of the earth's water and water vapor which is known as the hydrologic cycle (Figure 4).

Recharge to the Hueco bolson is principally from precipitation that falls on the Franklin and Organ Mountains and runs down the washes and into gravels near the base of the mountains. The amount of this recharge has been estimated by the U.S. Geological Survey's model study to be as low as 5,600 acre-feet per year (5 million gallons per day). According to Guyton (1971c, p. 6), "recharge to the bolson deposits east of the area influenced by runoff from the mountains would not be more than 3/20ths of an inch per year and probably is somewhat less. This would indicate an annual rate of recharge in this area of somewhat less than eight acre-feet per section."

Discharge of ground water from the Hueco bolson occurs naturally by upward seepage into the overlying Rio Grande alluvium and artificially by pumping wells, most of which are located in the vicinity of El Paso. In 1973, approximately 14,700 acre-feet of ground water was pumped in the lower El Paso Valley from the Hueco bolson for public supply and industrial use. About 13,500 acre-feet of that amount was pumped by the city of El Paso and various industrial wells located in the city artesian area of the bolson. The remaining pumpage of about 1,200 acre-feet occurred in the lower part of the Valley from Horizon Corporation (mesa area) and city

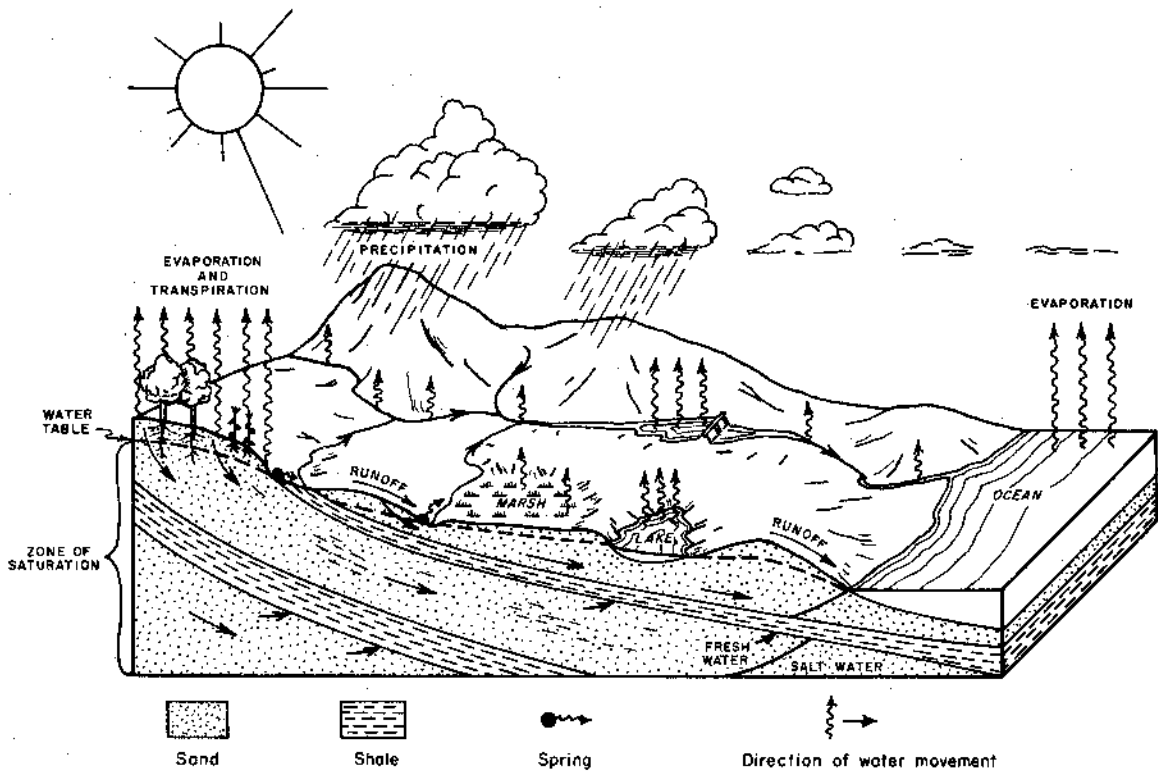


Figure 4.—The Hydrologic Cycle

of Fabens wells. The development of ground water from the Hueco bolson by large-capacity wells in and adjacent to the lower El Paso Valley for the period 1954-73 is summarized in Table 1.

In the upper El Paso Valley, ground water is recharged by area precipitation and precipitation falling on the Franklin Mountains; by seepage from canals, laterals, the Rio Grande, and applied irrigation water; and by ground-water underflow from uplands in New Mexico. The amount of natural recharge to the Mesilla bolson aquifer south of the New Mexico line at Anthony was estimated by Leggat and others (1962) to be about 18,000 acre-feet per year, including areas in the western part of the Valley in New Mexico; of this recharge amount, about 6,000 acre-feet annually was estimated to enter the region by southward underflow in the vicinity of the state line at Anthony.

Discharge of ground water in the upper El Paso Valley occurs by evapotranspiration, drain flow at the lower end of the upper Valley, and pumping wells. The 1969 estimated pumpage within Texas from the Mesilla bolson aquifer and the shallow aquifer was 11,600 and

10,800 acre-feet, respectively (Meyer and Gordon, 1972).

Recharge to the Rio Grande alluvium occurs from (1) infiltration of precipitation which falls directly on the surface and runoff from the adjoining bolson surfaces, (2) upward leakage from the underlying Hueco and Mesilla bolson deposits, (3) leakage from the Rio Grande and numerous canals which traverse the heavily cultivated and irrigated floodplain, and (4) excess irrigation water applied to the cultivated land. Prior to the development of the surface-water irrigation system by the U.S. Bureau of Reclamation in 1916, recharge to the Rio Grande alluvium was relatively small. Water-level data collected prior to this indicate that the water levels were below the bottom of the river. With the advent of surface-water irrigation, the water levels in the Rio Grande alluvium gradually rose due to infiltration of surface-water inflow. By 1918 the necessity for additional drainage in the project area became apparent to keep the land from becoming waterlogged. A system of open drains was constructed, and ultimate development of the Bureau of Reclamation's Rio Grande Project as it now exists was completed about 1925.

**Table 1.—Ground-Water Pumpage From the Hueco Bolson and Rio Grande Alluvium In and Adjacent to the Lower El Paso Valley, Texas and Ciudad Juarez, Chihuahua, 1954-73**

(Amounts of pumpage are in acre-feet)

| Year | El Paso Valley, Texas |                    |                    |                      |                                 |                     | Juarez Valley, Chihuahua<br>Ciudad Juarez<br>Artesian Area<br>Public<br>supply * |
|------|-----------------------|--------------------|--------------------|----------------------|---------------------------------|---------------------|--|
|      | El Paso County        |                    |                    |                      | Hudspeth County<br>Lower Valley |                     |  |
|      | Artesian Area         |                    | Lower Valley       |                      | Public<br>supply**              | Irrigation**        |  |
|      | Public<br>supply*     | Industry*          | Public<br>supply*  | Irrigation**         |                                 |                     |  |
| 1954 | 8,433 <sup>f</sup>    | 4,932 <sup>a</sup> | 336 <sup>f</sup>   | 120,000 <sup>a</sup> | —                               | 26,662 <sup>m</sup> | —  |
| 1955 | 9,528 <sup>b</sup>    | 5,381 <sup>b</sup> | 336 <sup>b</sup>   | 124,425 <sup>b</sup> | 41 <sup>g</sup>                 | 17,454 <sup>m</sup> | 13,676 <sup>b</sup>  |
| 1956 | 9,864 <sup>b</sup>    | 6,389 <sup>b</sup> | 336 <sup>b</sup>   | 125,546 <sup>b</sup> | 41 <sup>g</sup>                 | 12,835 <sup>m</sup> | 14,348 <sup>b</sup>  |
| 1957 | 9,304 <sup>b</sup>    | 5,829 <sup>b</sup> | 336 <sup>b</sup>   | 90,797 <sup>b</sup>  | 41 <sup>g</sup>                 | 10,360 <sup>l</sup> | 14,124 <sup>b</sup>  |
| 1958 | 8,631 <sup>b</sup>    | 6,053 <sup>b</sup> | 336 <sup>b</sup>   | 8,968 <sup>b</sup>   | 33 <sup>g</sup>                 | 14,352 <sup>g</sup> | 15,805 <sup>b</sup>  |
| 1959 | 8,295 <sup>b</sup>    | 5,829 <sup>b</sup> | 336 <sup>b</sup>   | 5,605 <sup>b</sup>   | 33 <sup>g</sup>                 | — <sup>k</sup>      | 16,814 <sup>b</sup>  |
| 1960 | 7,959 <sup>c</sup>    | 6,502 <sup>c</sup> | 448 <sup>c</sup>   | 5,605 <sup>c</sup>   | 38 <sup>g</sup>                 | 15,464 <sup>j</sup> | 16,590 <sup>c</sup>  |
| 1961 | 9,752 <sup>c</sup>    | 6,185 <sup>c</sup> | 448 <sup>c</sup>   | 26,454 <sup>c</sup>  | 38 <sup>g</sup>                 | 11,467 <sup>j</sup> | 17,487 <sup>c</sup>  |
| 1962 | 8,183 <sup>c</sup>    | 6,614 <sup>c</sup> | 448 <sup>c</sup>   | 5,605 <sup>c</sup>   | 19 <sup>g</sup>                 | 17,257 <sup>j</sup> | 17,038 <sup>c</sup>  |
| 1963 | 9,304 <sup>d</sup>    | 6,950 <sup>d</sup> | 448 <sup>d</sup>   | 48,425 <sup>d</sup>  | —                               | 15,087 <sup>j</sup> | 15,357 <sup>d</sup>  |
| 1964 | 11,322 <sup>d</sup>   | 6,614 <sup>d</sup> | 483 <sup>g</sup>   | 130,142 <sup>d</sup> | 37 <sup>g</sup>                 | 13,828 <sup>g</sup> | 16,926 <sup>d</sup>  |
| 1965 | 11,210 <sup>d</sup>   | 6,614 <sup>d</sup> | 494 <sup>g</sup>   | 53,489 <sup>d</sup>  | 20 <sup>g</sup>                 | 17,894 <sup>l</sup> | 16,814 <sup>d</sup>  |
| 1966 | 8,407 <sup>d</sup>    | 6,614 <sup>d</sup> | 409 <sup>g</sup>   | 23,204 <sup>d</sup>  | 29 <sup>g</sup>                 | 4,073 <sup>j</sup>  | 16,814 <sup>d</sup>  |
| 1967 | 5,044 <sup>d</sup>    | 5,829 <sup>d</sup> | 387 <sup>g</sup>   | 52,124 <sup>d</sup>  | 29 <sup>g</sup>                 | 8,827 <sup>j</sup>  | 18,047 <sup>d</sup>  |
| 1968 | 11,210 <sup>d</sup>   | 6,053 <sup>d</sup> | 833 <sup>g</sup>   | 9,976 <sup>d</sup>   | 29 <sup>g</sup>                 | 8,530 <sup>j</sup>  | 19,729 <sup>d</sup>  |
| 1969 | 6,950 <sup>d</sup>    | 6,389 <sup>d</sup> | 1,094 <sup>g</sup> | 5,044 <sup>d</sup>   | 31 <sup>g</sup>                 | 2,317 <sup>g</sup>  | 22,195 <sup>d</sup>  |
| 1970 | 5,588 <sup>i</sup>    | 6,138 <sup>g</sup> | 1,231 <sup>g</sup> | 3,000 <sup>e</sup>   | 32 <sup>g</sup>                 | 5,121 <sup>i</sup>  | 22,160 <sup>f</sup>  |
| 1971 | 6,167 <sup>i</sup>    | 6,546 <sup>g</sup> | 1,409 <sup>g</sup> | 24,000 <sup>e</sup>  | 31 <sup>g</sup>                 | 3,420 <sup>j</sup>  | 28,891 <sup>f</sup>  |
| 1972 | 9,712 <sup>i</sup>    | 6,078 <sup>g</sup> | 1,410 <sup>g</sup> | 65,200 <sup>h</sup>  | 33 <sup>g</sup>                 | 9,305 <sup>j</sup>  | 29,502 <sup>f</sup>  |
| 1973 | 5,546 <sup>i</sup>    | 7,963 <sup>g</sup> | 1,156 <sup>g</sup> | 12,954 <sup>h</sup>  | 33 <sup>g</sup>                 | 10,813 <sup>j</sup> | —  |

**Remarks.**

- \* Hueco bolson aquifer
- \*\* Rio Grande alluvium aquifer

Pumpage amounts obtained from the following sources:

- <sup>a</sup> Texas Board of Water Engineers Bulletin 5603.
- <sup>b</sup> Texas Water Commission Bulletin 6204.
- <sup>c</sup> Texas Water Commission Bulletin 6514.
- <sup>d</sup> Texas Water Development Board Report 153.
- <sup>e</sup> U.S. Geological Survey water budget study (June 1973).
- <sup>f</sup> U.S. Geological Survey files.
- <sup>g</sup> Texas Department of Water Resources files.
- <sup>h</sup> U.S. Bureau of Reclamation files.
- <sup>i</sup> El Paso Water Utilities files.

Irrigation pumpage in Hudspeth County represents the minimum annual total crop consumptive water requirements without including water required for pre-plant or leaching irrigation.

- <sup>j</sup> The total annual ground-water pumpage was obtained by using the total annual crop consumptive water requirements less the estimated total annual surface water applied. The estimated total annual surface water applied was obtained by using the Hudspeth County Conservation and Reclamation District (HCCRD) figures for the total acres irrigated multiplied by 8 inches (.67 foot), their estimate of the amount of surface water applied at each irrigation.
- <sup>k</sup> If the total annual surface water calculated using the above criteria exceeded the total annual crop consumptive water requirements, it was assumed no ground-water pumpage occurred.
- <sup>l</sup> The total annual ground-water pumpage was obtained by using the total annual crop consumptive water requirements less the total annual surface water available for irrigation leaving El Paso County via the Tornillo Canal, Tornillo Drain, and Hudspeth Feeder, after allowing for a 52 percent loss. HCCRD had no record for the total acres irrigated for these years.
- <sup>m</sup> The total annual ground-water pumpage was obtained by calculating the total annual crop consumptive water requirements using the HCCRD's total acres in cultivation multiplied by an overall crop consumptive water requirement of 2.54 acre-feet per acre less the total annual surface water available for irrigation leaving El Paso County via the Tornillo Canal, Tornillo Drain, and Hudspeth Feeder, after allowing for a 52 percent loss.



Approximately 45,000 acres of land is irrigated in the lower El Paso Valley between El Paso and the El Paso-Hudspeth County line, and in a year when a full allotment of surface water is available (3 acre-feet per acre), the amount of water applied that year amounts to about 135,000 acre-feet. The allotment varies from year to year. According to the U.S. Bureau of Reclamation (1973, p. 50), the per-acre allotment has ranged from a low of 4.7 acre-inches in 1956 to a high of 4 acre-feet in 1958. It has been estimated that approximately one-third of the water applied percolates to the water table and is discharged through drains. Meyer and Gordon (1972, p. 27) stated that at times large volumes of water, in addition to the quantity of recoverable water actually in storage in the alluvium, are potentially available from the alluvium even when the aquifer is full. This water, referred to as "potential ground-water recharge," is derived from the infiltration of irrigation water and from seepage losses in the canals and laterals. Meyer and Gordon (1973, p. 34-42) in their water-budget study calculated the surface-water inflow into the valley and estimated the potential ground-water recharge to the alluvium in the lower El Paso Valley for the years 1968 through 1971. They obtained the following results:

| Year | Surface-water inflow (acre-feet) | Potential ground-water recharge (acre-feet) |
|------|----------------------------------|---|
| 1968 | 240,800                          | 74,100                                      |
| 1969 | 308,900                          | 78,600                                      |
| 1970 | 304,500                          | 89,330                                      |
| 1971 | 211,800                          | 80,800                                      |

Meyer and Gordon concluded (1972, p. 27) that because of the fullness of the aquifer, a large part of the water is rejected and becomes drainflow, but if the water table was lower than the river and drains, this water could be held in storage in the alluvium and could be pumped when needed. However, they cautioned, "total recovery of the drainflow by pumping from the ground-water reservoir, although possible, is not advisable because of the unfavorable salt balance that would result."

In addition, Meyer and Gordon (1973, p. 39) concluded that in 1971 an imbalance in the water budget indicated that at least 20,000 acre-feet was lost by leakage from the Rio Grande alluvium to the artesian portion of the Hueco bolson in the lower El Paso Valley. The leakage was caused by a difference in water levels between the two aquifers as a result of pumpage from the Hueco bolson and was computed by determining a

coefficient of leakage of 0.23 gallons per day per square foot over the area where a 40-foot differential in water levels occurred between the bolson and alluvium. The area of leakage is predominantly in the city artesian area.

Discharge from the Rio Grande alluvium occurs largely by seepage into drainage canals in the valley, by evapotranspiration, and by pumpage. In 1973, approximately 23,800 acre-feet of ground water was pumped from the Rio Grande alluvium for irrigation purposes in the lower El Paso Valley (El Paso and Hudspeth Counties). Public-supply pumpage for 1973 amounted to 33 acre-feet from two wells in Fort Hancock. Ground-water development from the Rio Grande alluvium by large-capacity wells in the lower El Paso Valley in El Paso and Hudspeth Counties for the period 1954-73 is summarized in Table 1.

### Fluctuation of Water Levels

Changes in water levels represent changes in the quantity of ground water in storage. When discharge from an aquifer exceeds recharge over a period of time, water levels decline. Conversely, when recharge exceeds discharge, water levels rise. Under natural conditions, discharge from an aquifer is balanced by recharge over a long period of time with small water-level fluctuations representing variations in available recharge.

Water-level observation wells have been maintained in the Hueco bolson for over 35 years. Most of these observation wells are located in the western part of the bolson where development has been greatest. Heavy withdrawal of water from the Hueco bolson in this area has caused water levels in wells to decline. The maximum decline in water levels within the Hueco bolson from 1903 to 1969 is about 60 feet in the Fort Bliss area and about 10 feet near Ysleta (Meyer and Gordon, 1972). Water levels within the Hueco bolson in Hudspeth County and in eastern El Paso County have not declined significantly.

Figure 6 illustrates the piezometric surface of the artesian portion of the Hueco bolson (city artesian area) and the water-table surface for the Rio Grande alluvium from near Ysleta to Fort Quitman for January 1963. Figures 5 and 7 illustrate the water-table surface for the alluvium in November 1956 and January 1973. Figures 9 and 10 show hydrographs of selected wells in the Hueco bolson and the Rio Grande alluvium.

Guyton (1971a, p. 15) states, "Prior to 1916, water levels in the alluvium were below the Rio Grande. They gradually rose as surface water was applied for irrigation, and it became necessary to construct drains.

Water levels now fluctuate with the availability of surface water for irrigation and the seasonal application of the water." When large-scale pumping of ground water occurs, water levels in the alluvium decline. However, when sufficient surface water again becomes available and ground-water pumpage is significantly reduced, water levels recover. Water levels began to decline in 1954, reaching maximum lows in 1956, 1957, and 1958. These water-level declines occurred during the years when surface water was in short supply and the alluvium was heavily pumped to supply irrigation needs. After 1958, water levels began to recover with the decline in ground-water pumpage and concurrent increase in surface-water supply.

The approximate altitude of water levels in the alluvium in the upper Rio Grande Valley in January 1976 is shown in Figure 8. Water-level measurements from all observation wells in the study area are given in Table 6.

### **Well Construction and Performance**

The chief methods for drilling wells in the El Paso area are the cable tool percussion method, the hydraulic rotary method, and the jetting method. All wells must be cased during or immediately after drilling, otherwise the walls of the borehole will cave. Well screens or slotted pipe must be placed opposite the water-bearing sands to permit water to enter the well and to prevent caving. Cemented blank surface casing is used to prevent caving, and in areas where mineralized water exists above the fresh water, the cemented blank surface casing also serves to prevent the mineralized water from entering the screened interval. Types of well screen used in the El Paso region are: (1) torch-slotted casing, which is ordinary well casing in which slots are burned, 1/8 to 1/4 inch wide and at least 6 inches long, (2) mill-slotted casing, in which the slots are cut with a metal saw, (3) wire wrapped screen, (4) slotted brass screen, and (5) shutter screen. Artificial gravel packing is generally employed after the casing and screen are in place. Gravel is placed into the annular space between the well screen and the wall of the borehole. When the gravel is in place the well is developed; that is, it is pumped to maximum capacity and surged to (1) draw in as much of the fine material as possible from the sands, and to (2) remove the drilling mud and mud cake from the borehole.

Municipal and industrial wells completed in the Mesilla and Hueco bolson deposits are generally preceded by the drilling of a test hole to determine the quantity and quality of ground water available. After the test hole is drilled, a borehole geophysical log is run to determine the depth intervals which should be sampled

for determination of water quality. If analyses of the water samples are favorable, a production well is constructed to specifications based on results obtained from the test hole. Municipal and industrial concerns generally employ proper well construction; this includes use of adequate diameter casing, mill slotting or shutter screens, and gravel packing using a properly sorted and sized gravel.

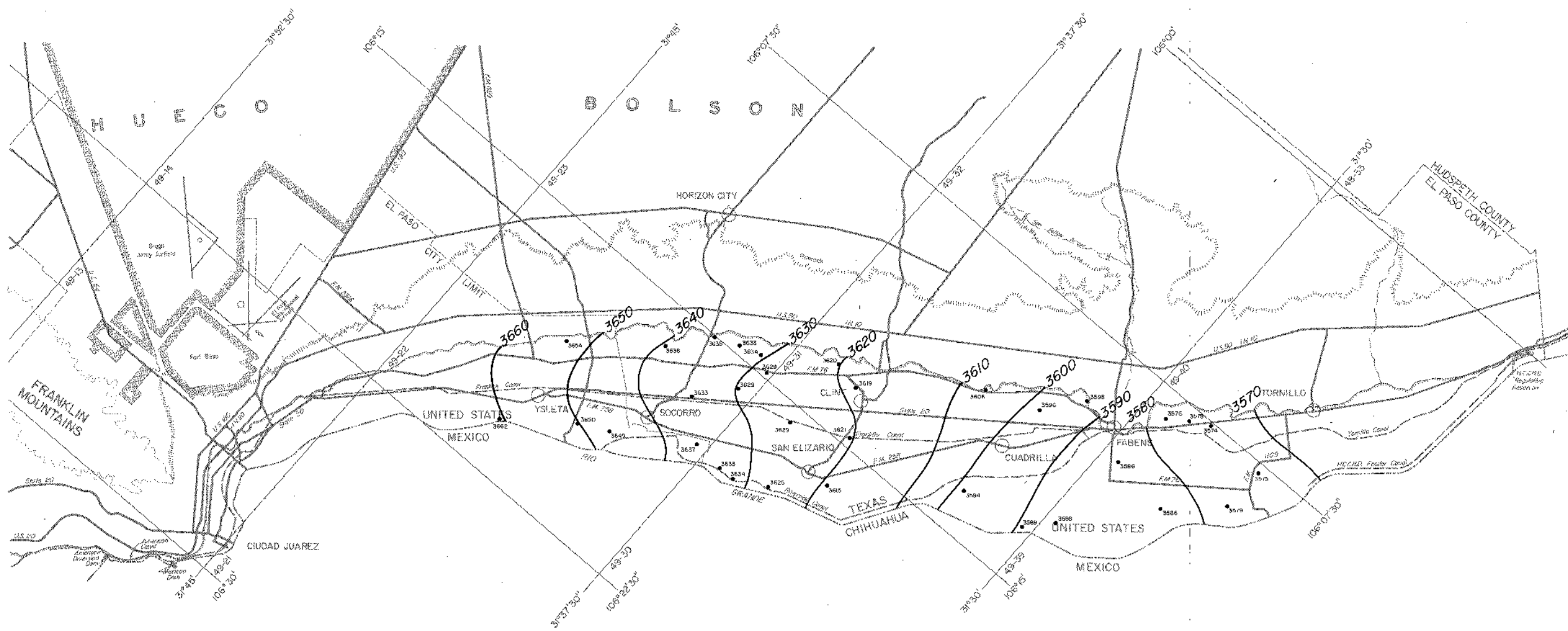
Most irrigation wells completed in the Rio Grande alluvium deposits were drilled in the 1950s. Their construction consisted of setting a torch-slotted, 12 to 18 inch diameter casing in an oversized hole followed by gravel packing with no regard for size or sorting of the gravel. Reported yields of these wells range from 350 to 2,000 gallons per minute. A few recently drilled irrigation wells employ some of the construction techniques used in the municipal and industrial wells.

## **CHEMICAL QUALITY OF THE GROUND WATER**

### **Source and Significance of Dissolved Mineral Constituents and Properties of Water**

All ground water contains minerals carried in solution, the kind and concentration of which determines its suitability for various uses. Excessively high concentrations of some constituents adversely affect the use of water for drinking, industry, or irrigation.

Several factors determine the concentration and character of mineral constituents in ground water. The most important factors are the source of the water, the mineral composition of the rocks through which the water moves, and the rate of ground-water movement. Precipitation dissolves some gases from the air. That part of the precipitation that percolates to the water table, having dissolved carbon dioxide from the air as well as from the organic matter in the soil, reacts with rock particles, dissolving them and forming new compounds. The dissolved-solids content of water usually increases with depth as illustrated by the various drill-stem tests plotted on the cross section shown in Figure 14. The principal constituents in ground water are calcium, magnesium, sodium, potassium, bicarbonate, sulfate, and chloride. Other constituents include silica, iron, manganese, nitrate, fluoride, and boron. The amount of each constituent listed in a chemical water analysis is generally given in milligrams per liter (mg/l), a unit that expresses the concentration of each constituent by weight. Chemical analyses for ground waters from selected wells in and adjacent to the El Paso Valley are



**EXPLANATION**

•3650

Well used for control

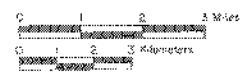
Number indicates altitude of water level in the Rio Grande alluvium

—3660—

Water-level contour shows approximate altitude of water level in the Rio Grande alluvium  
Interval 10 feet

Datum is mean sea level

Approximate edge of the Rio Grande alluvium  
(from Van Horn-El Paso geologic atlas sheet)

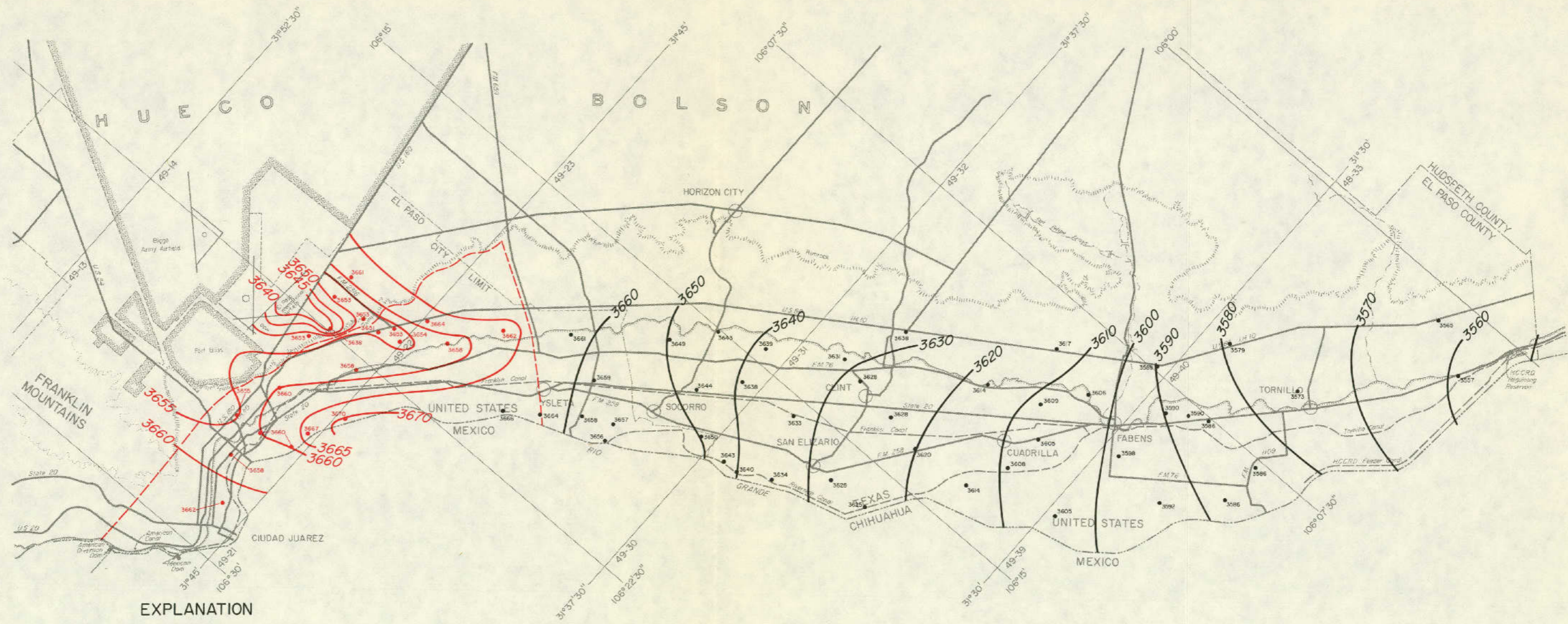


Base adopted from county highway maps by the Texas Department of Highways and Public Transportation, topographic maps by the U.S. Geological Survey, and maps of the El Paso County and Hudspeth County Water Improvement Districts

Figure 5

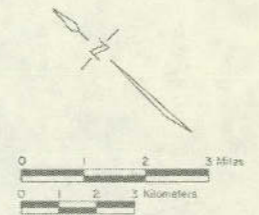
Approximate Altitude of Water Levels in the Rio Grande Alluvium,  
Lower El Paso Valley, November 1956





**EXPLANATION**

- 3657  
Well used for control  
Number indicates altitude of water level in the Rio Grande alluvium, or in the Hueco bolson beyond the alluvium outcrop
- 3660 —  
Water-level contour shows approximate altitude of water level in the Rio Grande alluvium, and laterally in the Hueco bolson  
Interval 10 feet  
Datum is mean sea level
- 3660 —  
Approximate edge of the Rio Grande alluvium, (from Van Horn-El Paso geologic atlas sheet)
- 3654  
Well used for control  
Number indicates altitude of water level in the Hueco bolson within or near the city artesian area
- 3660 —  
Water-level contour shows approximate altitude of water level in the Hueco bolson within or near the city artesian area  
Interval 5 feet
- —  
Approximate edge of the city artesian area (from Davis, 1965, pl. 1)



Base adapted from county highway maps by the Texas Department of Highways and Public Transportation; topographic maps by the U.S. Geological Survey, and maps of the El Paso County and Hudspeth County Water Improvement Districts

**Figure 6**  
**Approximate Altitude of Water Levels in the Rio Grande Alluvium, and Hueco Bolson, Lower El Paso Valley, January 1963**



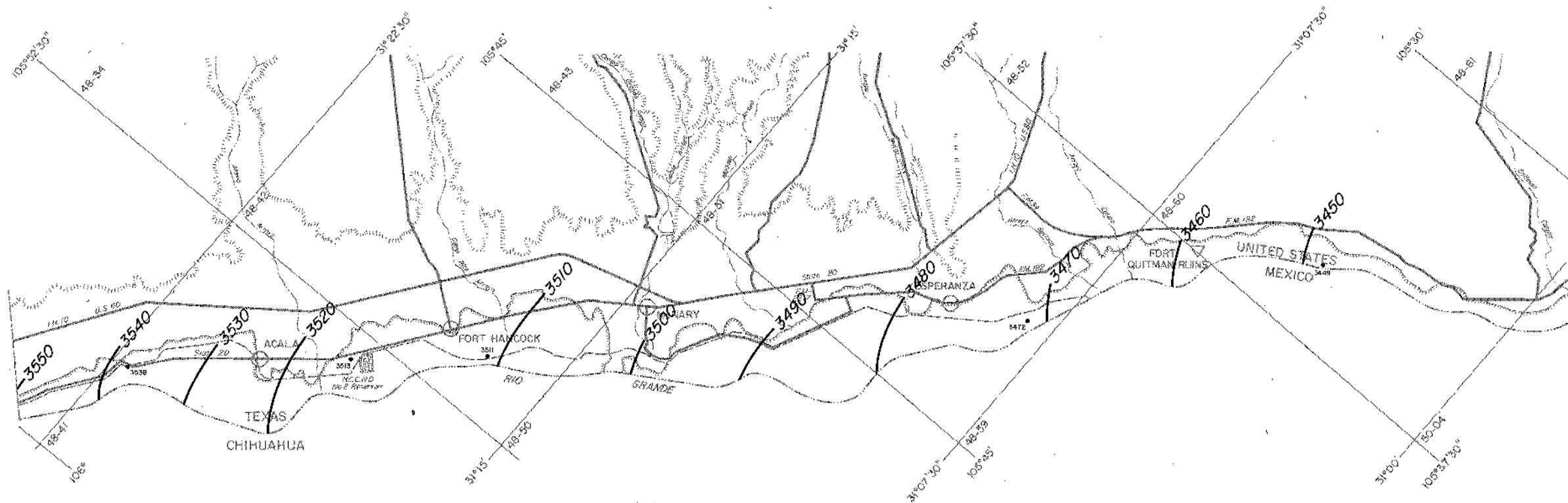
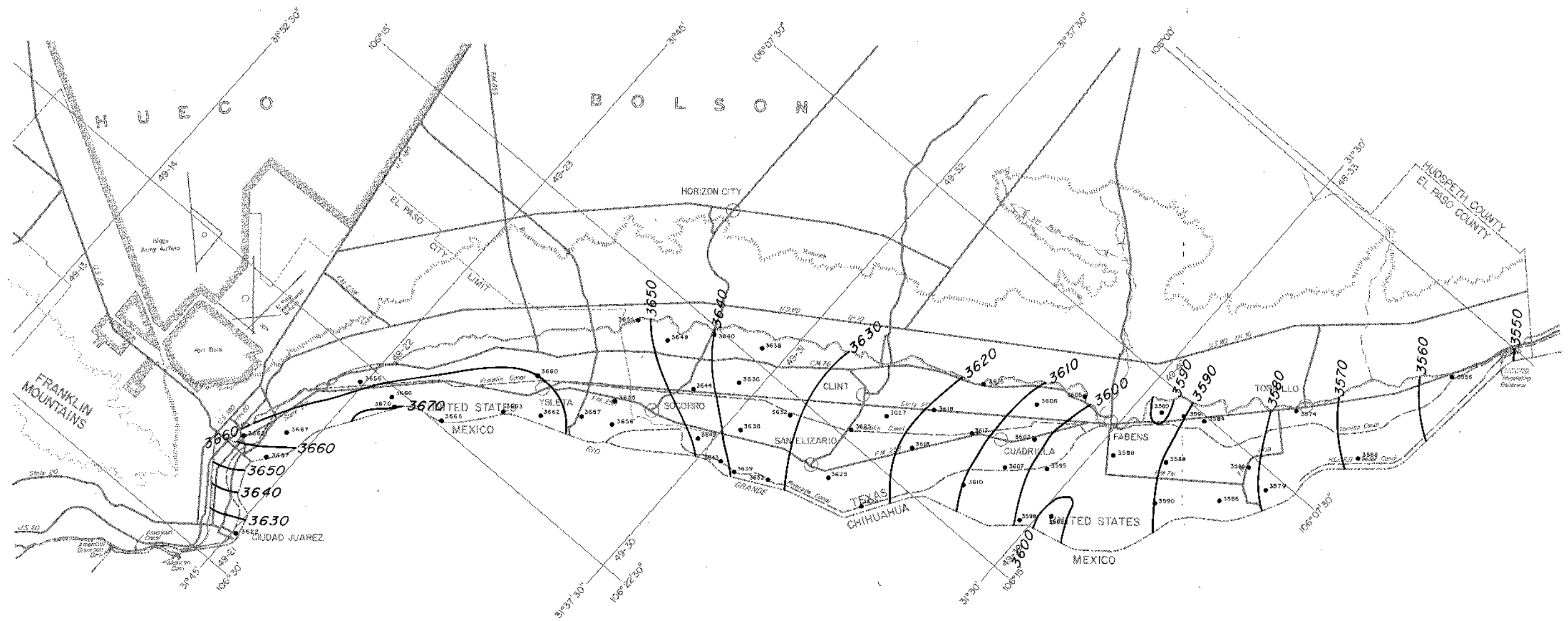


Figure 6 Continued

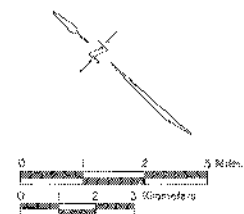






**EXPLANATION**

- 3656  
Well used for control
- Number indicates altitude of water level in the Rio Grande alluvium
- 3660 —  
Water-level contour shows approximate altitude of water level in the Rio Grande alluvium  
Interval 10 feet
- Datum is mean sea level
- Approximate edge of the Rio Grande alluvium  
(from Van Horn-El Paso geologic atlas sheet)



Base adapted from county highway maps by the Texas Department of Highways and Public Transportation; topographic maps by the U.S. Geological Survey; and maps of the El Paso County and Hudspeth County Water Improvement Districts

Figure 7  
Approximate Altitude of Water Levels in the Rio Grande Alluvium,  
Lower El Paso Valley, January 1973



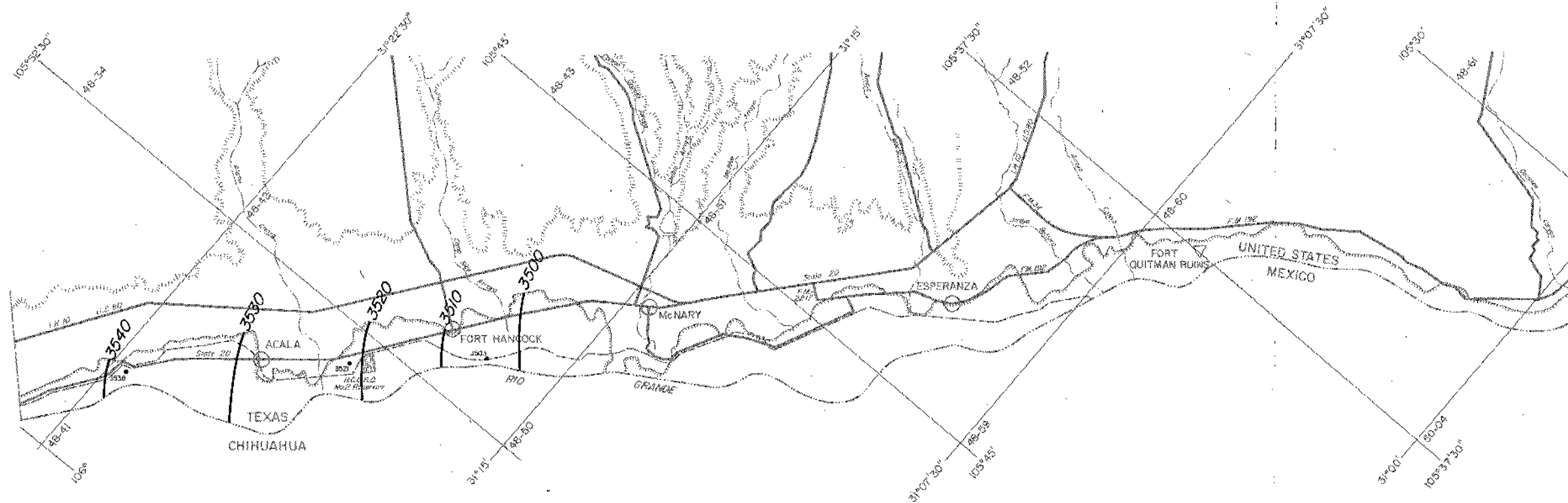


Figure 7 Continued

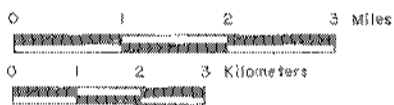


**EXPLANATION**

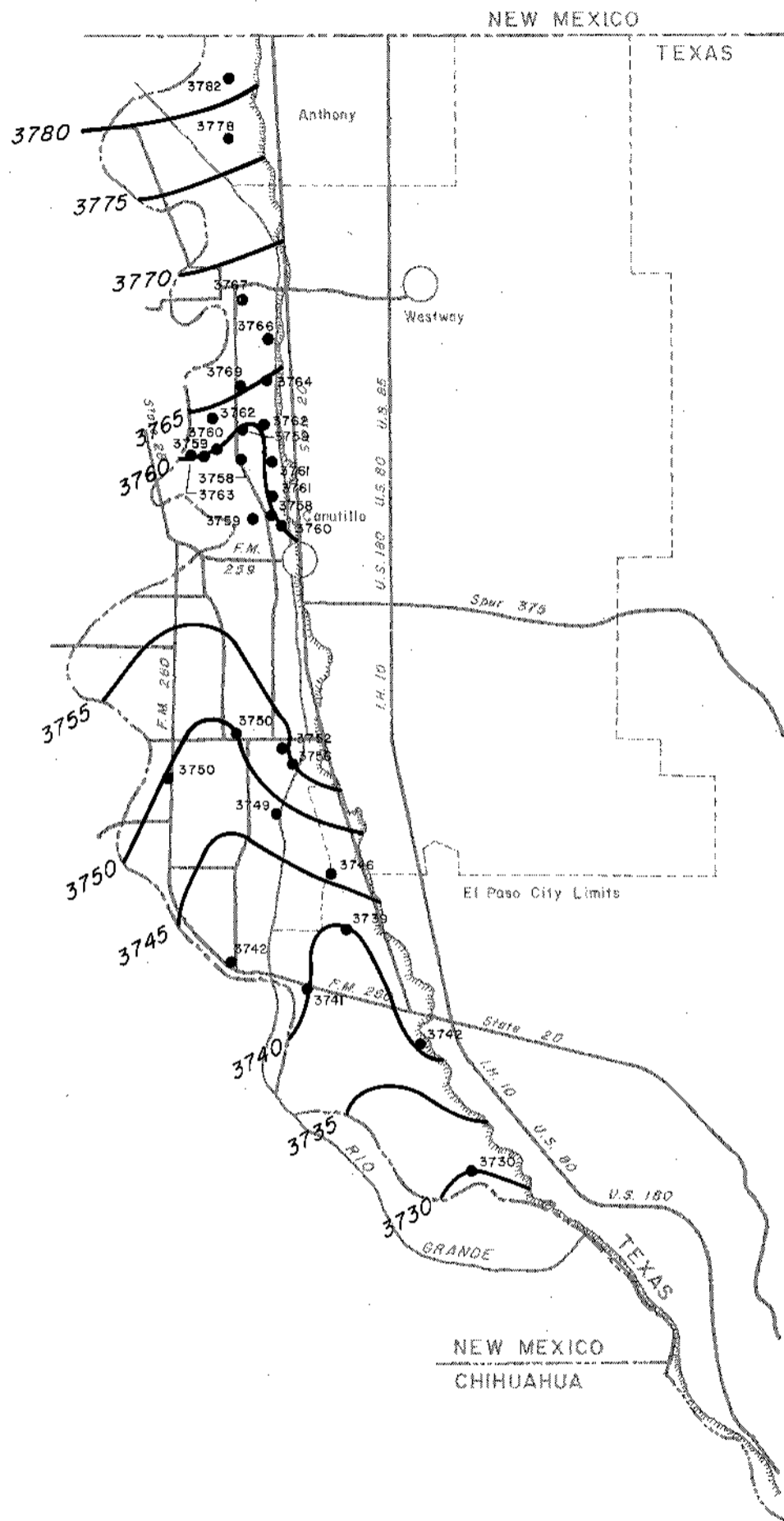
● 3749  
Well used for control  
Number indicates altitude of water level  
in the Rio Grande alluvium

3750 ———  
Water-level contour  
Shows approximate altitude of water level  
in the Rio Grande alluvium  
Interval 5 feet  
Datum is mean sea level

-----  
Approximate edge of the Rio Grande alluvium  
(from Van Horn—El Paso-geologic atlas sheet)



Base adapted from county highway maps by the Texas Department of Highways and Public Transportation and topographic maps by the U.S. Geological Survey



**Figure 8**  
Approximate Altitude of Water Levels in the Rio Grande Alluvium,  
Upper El Paso Valley, January 1976



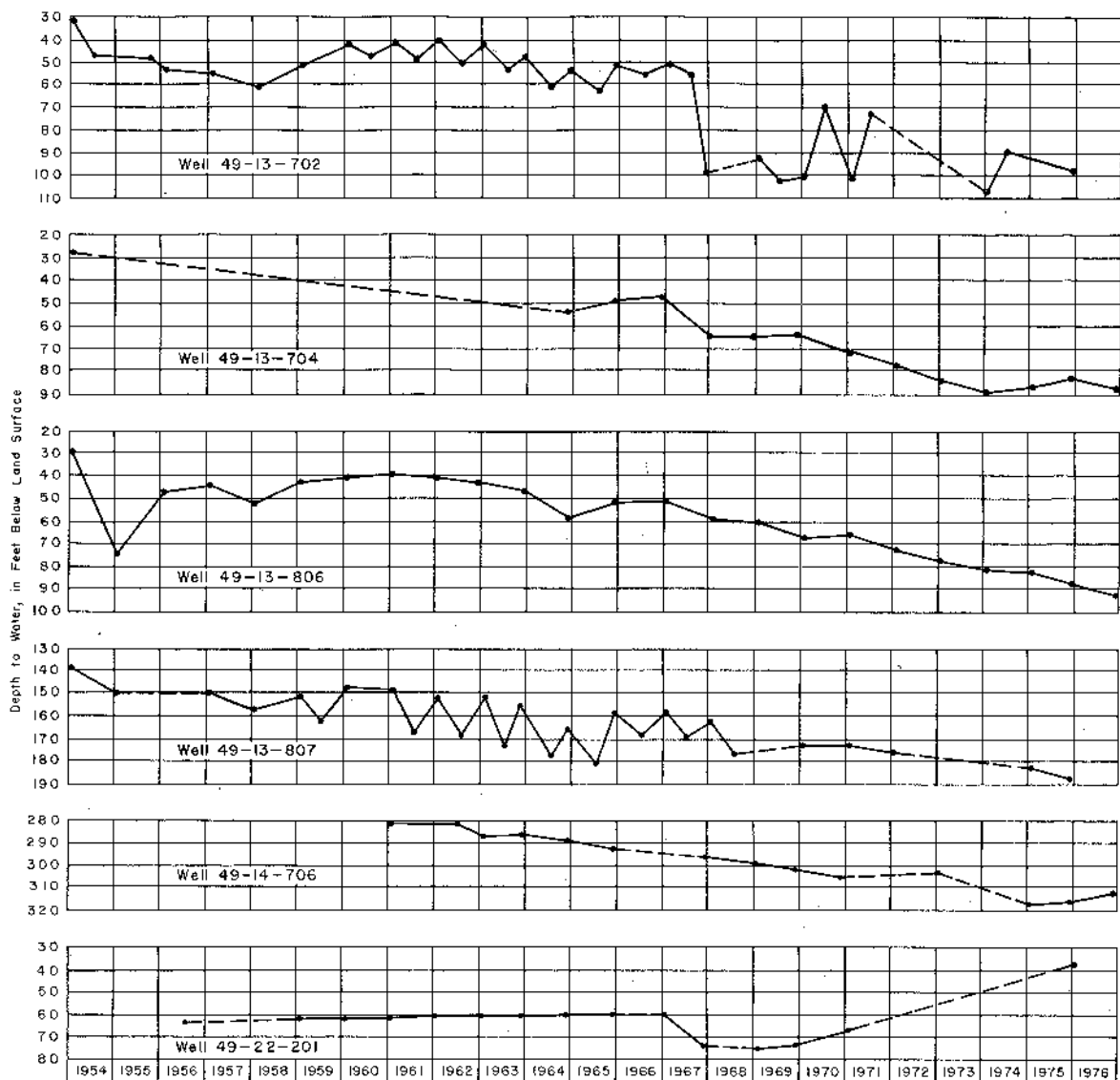


Figure 9.—Hydrographs of Representative Wells Producing From the Hueco Bolson, Lower El Paso Valley

given in Table 7. Table 2 indicates the source, significance, and concentration range of the dissolved mineral constituents, and properties of water from wells producing from the Hueco bolson, Mesilla bolson, and Rio Grande alluvium in and adjacent to the El Paso Valley. Much of the information in Table 2 is taken from U.S. Geological Survey Water-Supply Paper 2157 (1975) and other Water-Supply Papers in the series "Quality of Surface Waters of the United States."

### Ground-Water Quality Classification and Standards

The total dissolved-solids content is a major limiting factor in the use of water. The following general

classification of water is based on dissolved solids (Winslow and Kister, 1956, p. 5).

| Description       | Dissolved-solids content (mg/l) |
|-------------------|---------------------------------|
| Fresh             | Less than 1,000                 |
| Slightly saline   | 1,000— 3,000                    |
| Moderately saline | 3,000—10,000                    |
| Very saline       | 10,000—35,000                   |
| Brine             | More than 35,000                |

The characteristics of an irrigation water that seem to be most important in determining its quality are

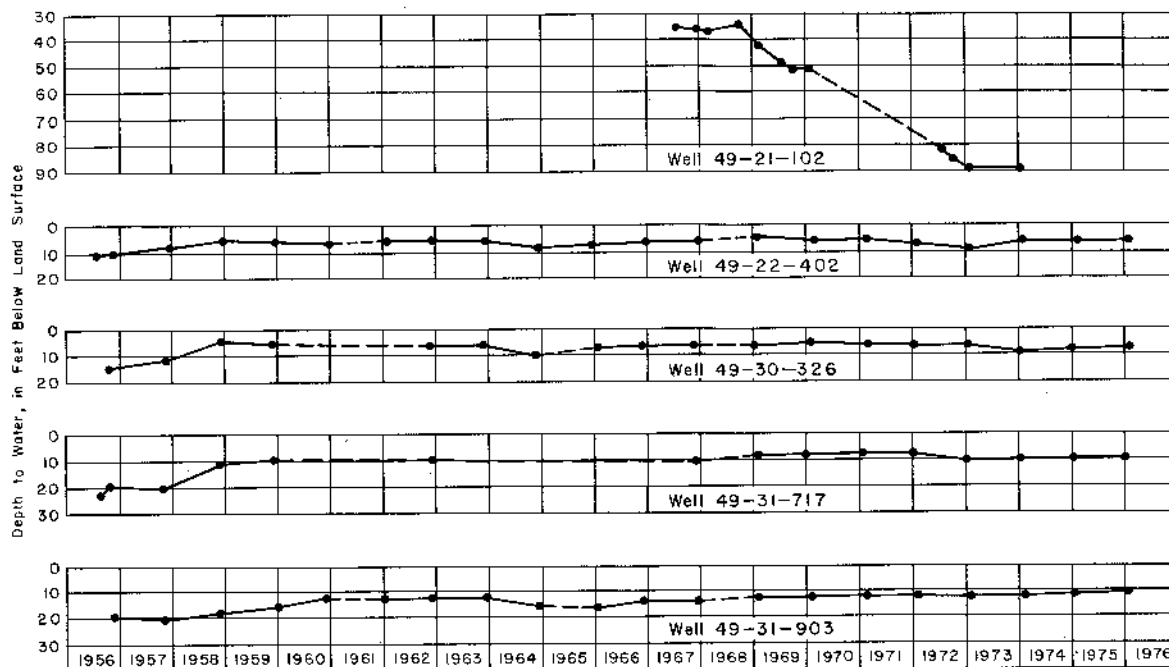


Figure 10.—Hydrographs of Representative Wells Producing From the Rio Grande Alluvium, Lower El Paso Valley

(1) the total concentration of soluble salts, (2) the relative proportion of sodium to other principal cations, (3) the concentration of boron or other elements that may be toxic, and (4) under some conditions, the bicarbonate concentration as related to the concentration of calcium plus magnesium. These have been termed respectively the salinity hazard, the sodium (alkali) hazard, the boron hazard, and the bicarbonate ion hazard.

For purposes of diagnosis and classification, the total concentration of soluble salts (salinity hazard) in irrigation water can be adequately expressed in terms of specific conductance. Specific conductance (conductivity) is the measure of the ability of the ionized inorganic salts in solution to conduct an electrical current, and is usually expressed in terms of micromhos per centimeter at 25°C. Where a specific conductance determination is not part of a water analysis, a rough approximation of its value can be obtained by multiplying the sum of the milliequivalents per liter (me/l) of calcium, magnesium, sodium, and potassium by 100, or by dividing the dissolved-solids concentration in milligrams per liter by a factor ranging from 0.6 to 0.7. In general, water having a specific conductance below 750 micromhos per centimeter is satisfactory for irrigation insofar as salt content is concerned, although salt-sensitive crops may be adversely affected by irrigation water having a specific conductance in the

range of 250 to 750 micromhos per centimeter. Water in the range of 750 to 2,250 micromhos per centimeter is widely used, and satisfactory crop growth is obtained under good management and favorable drainage conditions, but saline conditions will develop in the soil if leaching and drainage are inadequate. Conductivities and estimated dissolved-solids content (expressed as tons of salt per acre-foot and as milligrams per liter) of water from selected irrigation wells in the El Paso Valley are given in Table 8.

In the past, the relative proportion of sodium to other cations (sodium hazard) in irrigation water usually has been expressed simply as the percentage of sodium among the principal cations (expressed in equivalents), or simply the percent sodium. Irrigation waters are divided into three classes, based on the percent sodium. Water with a percent sodium less than 60 is considered excellent to good; water with a percent sodium between 60 and 75 is considered good to injurious; while water with a percent sodium greater than 75 is considered injurious to unsatisfactory.

According to the U.S. Salinity Laboratory Staff (1954), the sodium-adsorption ratio (SAR), used to express the relative activity of sodium ions in exchange reactions with soil, is a better measure of the suitability of water for irrigation with respect to the sodium hazard. The SAR can be computed from the equation shown in Table 2.



**Table 2.—Source, Significance, and Concentration Range of Dissolved Mineral Constituents, and Properties of Water From Wells Producing From the Rio Grande Alluvium, Hueco Bolson, and Mesilla Bolson**

(Source and significance modified from U.S. Geological Survey series of publications, "Quality of Surface Waters of the United States." Concentration ranges shown in milligrams per liter except specific conductance, pH, percent sodium, sodium-adsorption ratio, and residual sodium carbonate.)

| Constituent<br>or<br>property  | Source<br>or<br>cause   | Significance  | Concentration range       |                               |                            |
|--|---|---|---------------------------|-------------------------------|----------------------------|
|  |   |   | Rio Grande<br>alluvium    | Hueco<br>bolson               | Mesilla<br>bolson          |
| Silica (SiO <sub>2</sub> )   | Dissolved from practically all rocks and soils, commonly less than 30 mg/l. High concentrations, as much as 100 mg/l, generally occur in highly alkaline waters.  | Forms hard scale in pipes and boilers. Inhibits deterioration of zeolite-type water softeners. Not physiologically significant to humans, livestock, or fish, nor is it important in irrigation water.  | 0.25-70                   | 0-57                          | 6.3-50                     |
| Iron (Fe)  | Dissolved from practically all rocks and soils. May also be derived from iron pipes, pumps, and other equipment.  | On exposure to air, iron in ground water oxidizes to reddish-brown precipitate. More than about 0.3 mg/l stains laundry and utensils reddish-brown. Objectionable for food processing, textile processing, beverages, ice manufacture, brewing, and other processes. U.S. Public Health Service (1962) drinking water standards state that the iron content should not exceed 0.3 mg/l. Larger quantities cause unpleasant taste and favor growth of iron bacteria. | 0-7.2                     | 0-188                         | 0-3.1                      |
| Calcium (Ca)<br>and<br>magnesium (Mg)                                  | Dissolved from practically all soils and rocks, but especially from limestone, dolomite, and gypsum. Calcium and magnesium are found in large quantities in some brines. Magnesium is present in large quantities in sea water. | Cause most of the hardness and scale-forming properties of water; soap consuming (see hardness). Waters low in calcium and magnesium desired in electroplating, tanning, dyeing, and in textile manufacturing.  | 4-1,492<br>and<br>0-404   | 4-7,612<br>and<br>0-2,180     | 2.4-152<br>and<br>0-80     |
| Sodium (Na)<br>and<br>potassium (K)                                    | Dissolved from practically all rocks and soils. Found also in oilfield brines, sea water, industrial brines, and sewage.  | Large amounts, in combination with chloride, give a salty taste. Moderate quantities have little effect on the usefulness of water for most purposes. Sodium salts may cause foaming in steam boilers, and a high sodium content may limit the use of water for irrigation.   | 100-3,183<br>and<br>4-679 | 63-85,148<br>and<br>1.6-1,982 | 2.5-1,790<br>and<br>0.5-28 |
| Bicarbonate (HCO <sub>3</sub> )<br>and<br>carbonate (CO <sub>3</sub> ) | Action of carbon dioxide in water on carbonate rocks such as limestone and dolomite.  | Bicarbonate and carbonate produce alkalinity. Bicarbonates of calcium and magnesium decompose in steam boilers and hot-water facilities to form scale and release corrosive carbon-dioxide gas. In combination with calcium and magnesium, cause carbonate hardness.  | 0-618                     | 17-660                        | 52-597                     |

Table 2.—Source, Significance, and Concentration Range of Dissolved Mineral Constituents, and Properties of Water From Wells Producing From the Rio Grande Alluvium, Hueco Bolson, and Mesilla Bolson—Continued

| Constituent<br>or<br>property | Source<br>or<br>cause  | Significance  | Concentration range    |                 |                   |
|-------------------------------|--|---|------------------------|-----------------|-------------------|
|                               |  |   | Rio Grande<br>alluvium | Hueco<br>bolson | Mesilla<br>bolson |
| Sulfate (SO <sub>4</sub> )    | Dissolved from rocks and soils containing gypsum, iron sulfides, and other sulfur compounds. Commonly present in some industrial wastes. | Sulfate in water containing calcium forms hard scale in steam boilers. In large amounts, sulfate in combination with other ions gives bitter taste to water. U.S. Public Health Service (1962) drinking water standards recommend that the sulfate content should not exceed 250 mg/l.  | 9-4,240                | 1-5,800         | 67-2,470          |
| Chloride (Cl)                 | Dissolved from rocks and soils. Present in sewage and found in large amounts in oil-field brines, sea water, and industrial brines.      | In large amounts in combination with sodium, gives salty taste to drinking water. In large quantities, increases the corrosiveness of water. U.S. Public Health Service (1962) drinking water standards recommend that the chloride content should not exceed 250 mg/l.   | 32-11,400              | 30-150,560      | 29-2,120          |
| Fluoride (F)                  | Dissolved in small to minute quantities from most rocks and soils. Added to many waters by fluoridation of municipal supplies.           | Fluoride in drinking water reduces the incidence of tooth decay when the water is consumed during the period of enamel calcification. However, it may cause mottling of the teeth, depending on the concentration of fluoride, the age of the child, amount of drinking water consumed, and susceptibility of the individual (Maier, 1950).   | 0.03-3.0               | 0-5.0           | 0.3-5.6           |
| Nitrate (NO <sub>3</sub> )    | Decaying organic matter, sewage, fertilizers, and nitrates in soil.  | Concentration much greater than the local average may suggest pollution. U.S. Public Health Service (1962) drinking water standards suggest a limit of 45 mg/l. Waters of high nitrate content have been reported to be the cause of methemoglobinemia (an often fatal disease in infants) and therefore should not be used in infant feeding (Maxcy, 1950, p. 271). Nitrate has been shown to be helpful in reducing inter-crystalline cracking of boiler steel. It encourages growth of algae and other organisms which produce undesirable tastes and odors. | <0.05-73               | 0-35            | 0-13              |
| Boron (B)                     | A minor constituent of rocks and natural waters.   | An excessive boron content will make water unsuitable for irrigation. Scofield (1936) indicated that a boron concentration of as much as 1.0 mg/l is permissible for irrigating sensitive crops; as much as 2.0 mg/l for semitolerant crops; and as much as 3.0 mg/l for tolerant crops. Boron tolerances of selected plants are tabulated in the general text.   | 0.11-0.29              | 0.05-0.42       | .08-.55           |
| Dissolved solids              | Chiefly mineral constituents dissolved from rocks and soils.   | U.S. Public Health Service (1962) drinking water standards recommend that waters containing more than 500 mg/l dissolved solids not be used if other, less mineralized supplies are available. For many purposes the dissolved-solids content is a major limitation of the use of the water.  | 263-23,680*            | 117-246,510*    | 252-4,542*        |

See footnote at end of table.

Table 2.—Source, Significance, and Concentration Range of Dissolved Mineral Constituents, and Properties of Water From Wells Producing From the Rio Grande Alluvium, Hueco Bolson, and Mesilla Bolson—Continued

| Constituent<br>or<br>property   | Source<br>or<br>cause   | Significance  | Concentration range    |                 |                   |
|---|---|---|------------------------|-----------------|-------------------|
|   |   |   | Rio Grande<br>alluvium | Hueco<br>bolson | Mesilla<br>bolson |
| Hardness as CaCO <sub>3</sub>   | In most waters nearly all the hardness is due to calcium and magnesium. All of the metallic cations other than the alkali metals also cause hardness. | Consumes soap before a lather will form. Deposits soap curd on bathtubs. Hard water forms scale in boilers, water heaters, and pipes. Hardness equivalent to the bicarbonate and carbonate is called carbonate hardness. Any hardness in excess of this is called non-carbonate hardness. | 8-14,417               | 0-28,000        | 6-708             |
| Percent sodium  | Sodium in water.  | The relative proportion of sodium to other cations, expressed as a percentage. Although percent sodium is commonly reported in chemical analyses of irrigation waters as an indication of sodium hazard, a possibly better indication is the sodium-adsorption ration, described below.   | 39-85                  | 34-97           | 61-97             |
| Sodium-adsorption ratio (SAR)   | Sodium in water.  | A ratio for soil extracts and irrigation waters used to express the relative activity of sodium ions in exchange reactions with soil (U.S. Salinity Laboratory Staff, 1954, p. 72, 156). Defined by the following equation:   | 2.5-28.6               | 0-13            | 5.3-18            |
| $SAR = \frac{Na^+}{\sqrt{\frac{Ca^{++} + Mg^{++}}{2}}}$   |   |   |                        |                 |                   |
| <p>where Na<sup>+</sup>, Ca<sup>++</sup>, and Mg<sup>++</sup> represent the concentrations in milliequivalents per liter (me/l) of the respective ions.</p>   |   |   |                        |                 |                   |
| Residual sodium carbonate (RSC)   | Sodium and carbonate or bicarbonate in water.   | As calcium and magnesium precipitate as carbonates in the soil, the relative proportion of sodium in the water is increased (Eaton, 1950). Defined by the following equation:   | 0-2.12                 | 0-2.32          | 0-1.16            |
| $RSC = (CO_3^{--} + HCO_3^-) - (Ca^{++} + Mg^{++}),$  |   |   |                        |                 |                   |
| <p>where CO<sub>3</sub><sup>--</sup>, HCO<sub>3</sub><sup>-</sup>, Ca<sup>++</sup>, and Mg<sup>++</sup> represent the concentrations in milliequivalents per liter (me/l) of the respective ions.</p> |   |   |                        |                 |                   |
| Specific conductance (micromhos at 25°C)  | Mineral content of the water.   | Indicates degree of mineralization. Specific conductance is a measure of the capacity of the water to conduct an electric current. Varies with concentration and degree of ionization of the constituents.  | 458-11,000             | 8-60,800        | 408-7,390         |

**Table 2.—Source, Significance, and Concentration Range of Dissolved Mineral Constituents, and Properties of Water From Wells Producing From the Rio Grande Alluvium, Hueco Bolson, and Mesilla Bolson—Continued**

| Constituent<br>or<br>property      | Source<br>or<br>cause  | Significance  | Concentration range    |                 |                   |
|------------------------------------|--|---|------------------------|-----------------|-------------------|
|                                    |  |   | Rio Grande<br>alluvium | Hueco<br>bolson | Mesilla<br>bolson |
| Hydrogen ion<br>concentration (pH) | Acids, acid-generating salts, and free carbon dioxide lower the pH. Carbonates, bicarbonates, hydroxides, phosphates, silicates, and borates raise the pH. | A pH of 7.0 indicates neutrality of a solution. Values higher than 7.0 denote increasing alkalinity; values lower than 7.0 indicate increasing acidity. pH is a measure of the activity of the hydrogen ions. Corrosiveness of water generally increases with decreasing pH. However, excessively alkaline waters may also attack metals. | 6.1-9.3                | 6.4-9.7         | 7.0-9.3           |

\*The concentration range of dissolved solids, shown above in milligrams per liter, may also be expressed as tons of salt per acre-foot of water. For the Rio Grande alluvium ground waters sampled, the tons of salt per acre-foot range from 0.61 to 33.6; for the Hueco bolson the range is from 0.24 to 335; and for the Mesilla bolson the range is from 0.02 to 7.73.

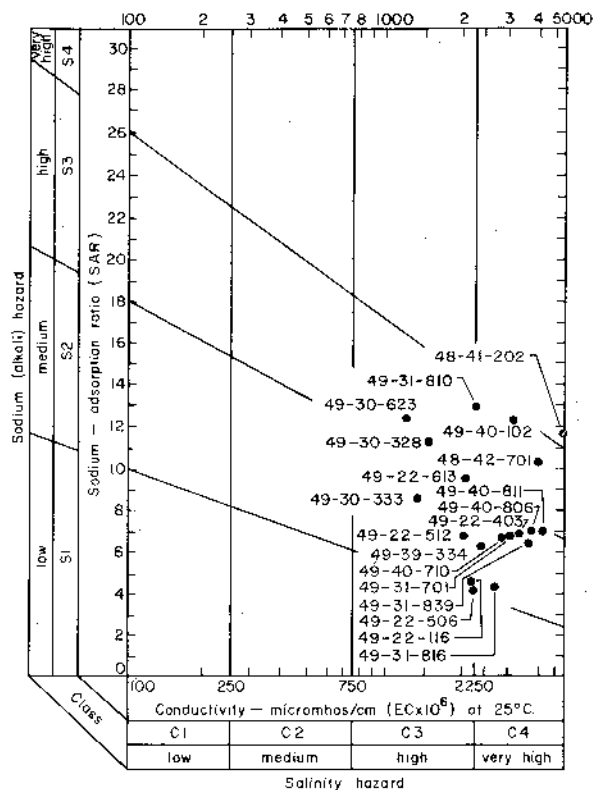


Figure 11.—Classification of Irrigation Water From the Rio Grande Alluvium, Lower El Paso Valley

When the SAR and the specific conductance of a water are known, the classification of the water for irrigation can be determined by graphically plotting these values on the diagram shown in Figure 11. Low-sodium water (S1) can be used for irrigation on almost all soils with little danger of the development of harmful levels of exchangeable sodium. Medium-sodium water (S2) will present an appreciable sodium hazard in certain fine-textured or organic soils having good permeability. High-sodium water (S3) may produce harmful levels of exchangeable sodium in most soils and will require special soil management, such as good drainage and leaching and additional organic matter. Very high-sodium water (S4) is generally unsatisfactory for irrigation unless special action is taken, such as addition of gypsum to the soil.

Low-salinity water (C1) can be used for irrigation of most crops on most soils with little likelihood that soil salinity will develop. Medium-salinity water (C2) can be used if a moderate amount of leaching occurs. High-salinity water (C3) cannot be used on soils of restricted drainage. Very high-salinity water (C4) is not suitable for irrigation under ordinary conditions. It can

be used only on very salt-tolerant crops and then only if special practices are followed, including a high degree of leaching.

The SAR and specific conductance of ground water produced from selected irrigation wells completed in the Rio Grande alluvium in the lower El Paso Valley are plotted on Figure 11. Most of the plots fall within the medium to high sodium hazard and high to very high salinity hazard range, which suggests that the selection of crops that have high salt tolerance, and a high degree of leaching, should be practiced.

Relative salinity tolerances of various crops as determined by the U.S. Salinity Laboratory staff are given in the following table:

| High Salt Tolerance          | Vegetable Crops (Cont'd.)   | Field Crops (Cont'd.)     |
|------------------------------|-----------------------------|---------------------------|
| <b>Fruit Crops</b>           | Cabbage                     | Sorghum (grain)           |
| Date palm                    | Bell pepper                 | Corn (field)              |
|                              | Cauliflower                 | Flax                      |
|                              | Lettuce                     | Sunflower                 |
|                              | Sweet corn                  | Castorbeans               |
| <b>Vegetable Crops</b>       | Potatoes (White Rose)       |                           |
| Garden beets                 | Carrot                      | <b>LOW SALT TOLERANCE</b> |
| Kale                         | Onion                       |                           |
| Asparagus                    | Peas                        |                           |
| Spinach                      | Squash                      | <b>Fruit Crops</b>        |
|                              | Cucumber                    | Pear                      |
| <b>Forage Crops</b>          | <b>Forage Crops</b>         | Apple                     |
| Alkali sacaton               | White sweet clover          | Orange                    |
| Saltgrass                    | Yellow sweet clover         | Grapefruit                |
| Nuttall alkaligrass          | Perennial ryegrass          | Prune                     |
| Bermuda grass                | Mountain brome              | Plum                      |
| Rhodes grass                 | Strawberry clover           | Almond                    |
| Canada wildrye               | Dallis grass                | Apricot                   |
| Western wheatgrass           | Sudan grass                 | Peach                     |
| Barley (hay)                 | Hubam clover                | Strawberry                |
| Birdsfoot trefoil            | Alfalfa (California common) | Lemon                     |
|                              | Tall fescue                 | Avocado                   |
| <b>Field Crops</b>           | Rye (hay)                   | <b>Vegetable Crops</b>    |
| Barley (grain)               | Wheat (hay)                 | Radish                    |
| Sugar beet                   | Oats (hay)                  | Celery                    |
| Rape                         | Orchardgrass                | Green beans               |
| Cotton                       | Blue grama                  |                           |
|                              | Meadow fescue               | <b>Forage Crops</b>       |
| <b>MEDIUM SALT TOLERANCE</b> | Reed canary                 | White Dutch clover        |
| <b>Fruit Crops</b>           | Big trefoil                 | Meadow foxtail            |
| Pomegranate                  | Smooth brome                | Alsike clover             |
| Fig                          | Tall meadow oatgrass        | Red clover                |
| Olive                        | Cicer milkvetch             | Ladino clover             |
| Grape                        | Sourclover                  | Burnet                    |
| Cantaloupe                   | Sickle milkvetch            |                           |
|                              | <b>Field Crops</b>          | <b>Field Crops</b>        |
| <b>Vegetable Crops</b>       | Rye (grain)                 | Field beans               |
| Tomato                       | Wheat (grain)               |                           |
| Broccoli                     | Oats (grain)                |                           |
|                              | Rice                        |                           |

Boron is essential to the normal growth of all plants, but the concentration required is very small and if exceeded may cause injury. A deficiency of boron produces striking symptoms in many plant species. Boron is very toxic to certain plant species and the

concentration that will injure these sensitive plants is often approximately that required for normal growth of very tolerant plants. The following table lists the permissible limits of boron for several classes of irrigation water (Scofield 1936):

| Rating | Classes of irrigation water |       | Sensitive crops (mg/l) | Semitolerant Crops (mg/l) | Tolerant crops (mg/l) |
|--------|-----------------------------|-------|------------------------|---------------------------|-----------------------|
|        |                             | Grade |                        |                           |                       |
| 1      | Excellent                   | ..... | Less than 0.33         | Less than 0.67            | Less than 1.00        |
| 2      | Good                        | ..... | 0.33 to .67            | 0.67 to 1.33              | 1.00 to 2.00          |
| 3      | Permissible                 | ..... | .67 to 1.00            | 1.33 to 2.00              | 2.00 to 3.00          |
| 4      | Doubtful                    | ..... | 1.00 to 1.25           | 2.00 to 2.50              | 3.00 to 3.75          |
| 5      | Unsuitable                  | ..... | More than 1.25         | More than 2.50            | More than 3.75        |

The following table lists the relative tolerance of selected crop plants to boron (U.S. Salinity Laboratory staff, 1954). In each group the plants first named are considered as being more sensitive and the last named more tolerant.

| Sensitive                    | Semitolerant       | Tolerant                         |
|------------------------------|--------------------|----------------------------------|
| Lemon                        | Lima bean          | Carrot                           |
| Grapefruit                   | Sweet potato       | Lettuce                          |
| Avocado                      | Bell pepper        | Cabbage                          |
| Orange                       | Pumpkin            | Turnip                           |
| Thornless blackberry         | Zinnia             | Onion                            |
| Apricot                      | Oat                | Broadbean                        |
| Peach                        | Milo               | Gladiolus                        |
| Cherry                       | Corn               | Alfalfa                          |
| Persimmon                    | Wheat              | Garden beet                      |
| Kadota fig                   | Barley             | Mangel                           |
| Grape (Sultanina and Malaga) | Olive              | Sugar beet                       |
| Apple                        | Ragged Robin       | Date palm                        |
| Pear                         | rose               | ( <i>Phoenix dactylifera</i> )   |
| Plum                         | Field pea          | Palm ( <i>P. canariensis</i> )   |
| American elm                 | Radish             | Asparagus                        |
| Navy bean                    | Sweetpea           | Athel ( <i>Tamarix aphylla</i> ) |
| Jerusalem artichoke          | Tomato             |                                  |
| Persian (English) walnut     | Pima cotton        |                                  |
| Black walnut                 | Acala cotton       |                                  |
| Pecan                        | Potato             |                                  |
|                              | Sunflower (native) |                                  |

Laboratory Staff (1954), that water having more than 2.5 me/l of residual sodium carbonate is not suitable for irrigation. Water containing 1.25 to 2.50 me/l is marginal, and water containing less than 1.25 me/l of RSC is probably safe.

In appraising the quality and use of an irrigation water, first consideration generally should be given to salinity and sodium hazards (Figure 11). Then consideration should be given to the boron and bicarbonate ion content, either of which may change the initial quality rating. The use of water of any quality must take into account such factors as land and crop management practices and soil drainage.

The suitability of a water for public supply and domestic use can be judged by standards that have been established by the U.S. Public Health Service (1962) for drinking water used on carriers subject to Public Health Service regulations. These standards include the following upper limits: iron, 0.3 mg/l; manganese, 0.05 mg/l; chloride, 250 mg/l; sulfate, 250 mg/l; and dissolved solids, 500 mg/l. Dissolved-solids content may be up to 1,000 mg/l if less mineralized water is not available.

In water having high concentrations of bicarbonate ion, there is a tendency for calcium and magnesium to precipitate as carbonates as the soil solution becomes more concentrated. This reaction does not go to completion under ordinary circumstances, but insofar as it does proceed, there is a reduction in the concentrations of calcium and magnesium and the relative proportion of sodium is increased. As the calcium and magnesium precipitate as carbonates, any residual carbonate or bicarbonate is left in solution as sodium carbonate. On the basis of limited data and using the "residual sodium carbonate" (RSC) concept of Eaton (1950), it has been concluded by the U.S. Salinity

The 1962 standards are used in many instances in evaluating the suitability of public water supplies. In some areas, people drink water containing substantially higher concentrations than the suggested limits for long periods of time without suffering ill effects. However, water used for drinking generally contains less than 2,000 mg/l of dissolved solids where this quality of water is available.

Water in which the chloride content exceeds 250 mg/l may have a salty taste, and water in which magnesium exceeds 125 mg/l and sulfate exceeds 250 mg/l may cause a laxative effect. The U.S. Public Health Service 1962 drinking-water standards suggest a limit of

45 mg/l of nitrate content. Waters of high nitrate content have been reported to be a possible cause of methemoglobinemia (Maxcy, 1950). The presence of nitrate may indicate pollution.

The maximum fluoride level allowed in drinking water depends on climatic conditions because the amount of water consumed is influenced by air temperature (Galagan and Lamson, 1953). The U.S. Public Health Service 1962 recommendations on drinking-water standards as to fluoride content limits and air temperature are listed below.

| Annual average of maximum daily air temperatures <sup>1</sup> | Recommended control limits—Fluoride concentrations in mg/l |         |       |
|---|--|---------|-------|
|   | Lower  | Optimum | Upper |
| 50.0—53.7   | 0.9  | 1.2     | 1.7   |
| 53.8—58.3   | .8   | 1.1     | 1.5   |
| 58.4—63.8   | .8   | 1.0     | 1.3   |
| 63.9—70.6   | .7   | .9      | 1.2   |
| 70.7—79.2   | .7   | .8      | 1.0   |
| 79.3—90.5   | .6   | .7      | .8    |

<sup>1</sup>Based on temperature data obtained for a minimum of 5 years.

Fluoride at optimum concentration (table above) may prevent dental caries, but fluoride content above the recommended upper limit may produce mottled enamel.

Some livestock have been known to survive on water containing as much as 10,000 mg/l of dissolved solids (Smith and others, 1942, p. 15). However, water of considerably better quality is necessary for maximum livestock growth and development.

The tolerances in chemical quality of water for industrial use differ widely for different industries and different processes (Table 3). In general, water that meets U.S. Public Health Service standards for drinking water is suitable for most industrial uses.

Hardness of water is an important consideration in domestic, municipal, and industrial supplies. It is expressed in milligrams per liter as calcium carbonate. Water having a hardness of up to 60 mg/l is rated soft; 61 to 120 mg/l, moderately hard; 121 to 180 mg/l, hard; and more than 180 mg/l, very hard. Hardness is caused almost entirely by calcium and magnesium. Hardness increases soap consumption and increases encrustation in boilers, pipes, and coolers (evaporation pads). Two methods commonly are used to soften large quantities of water. One, the lime-soda or lime process, not only softens but reduces the mineralization of the water. The

other, the zeolite process, involves the exchange of calcium and magnesium in the water for sodium in the zeolite.

Silica forms hard scale in boilers. The scale-forming process increases as the pressure in the boiler increases.

Oxidation of dissolved iron and manganese in water forms a precipitate that stains laundered clothes and plumbing fixtures. The staining properties of water containing these minerals are especially detrimental in some manufacturing processes. In household use, water containing more than 0.3 mg/l of iron or 0.05 mg/l of manganese may cause staining.

### Distribution of Ground-Water Quality in the Rio Grande Alluvium

Figures 12 and 13 portray the chemical quality situation in the Rio Grande alluvium in the lower El Paso Valley with respect to dissolved-solids content. The areas delineated in these maps are based on specific conductance data collected by the U.S. Bureau of Reclamation (Table 8) supplemented by chemical analyses from other sources (Table 7), and represent water-quality data collected over the period 1964-74.

The first map, Figure 12, is based on the quality of water produced by wells that do not exceed 100 feet in depth. The second map, Figure 13, is prepared from chemical water-quality data for wells that were drilled beyond 100 feet but not more than 200 feet in depth. Most of the alluvium wells are screened from the water table to the bottom of the well, and the data used to construct the maps represent a composite of the quality of water in all the sands screened. Since few wells penetrate the complete thickness of the alluvium, the water quality in the basal portion of the alluvium is not necessarily represented.

Both maps show that the better water (less than 2,000 mg/l dissolved solids) tends to occur near the river. This is especially true of the shallow ground water as shown on Figure 12. The deeper water in the alluvium (Figure 13) appears to have been influenced by upward leakage of better quality water from the artesian portion of the Hueco bolson aquifer north of Ysleta. Figures 12 and 13 suggest an influx of fresher water near Fabens which is probably a result of recharge from San Felipe Arroyo.

Both maps show areas of bad water adjacent to areas of better water. This could be the result of (1) a localized buildup in salt content caused by the recycling

Table 3.--Water-Quality Tolerances for Industrial Applications 1)  
(Allowable limits in milligrams per liter except as indicated)

| Industry                    | Turbidity | Color  | Color +O <sub>2</sub> Consumed | Dissolved oxygen (ml/l) | Odor | Hardness | Alkalinity (as CaCO <sub>3</sub> ) | pH      | Total solids | Gr      | Fc  | Mn  | Fe + Mn | Al <sub>2</sub> O <sub>3</sub> | SiO <sub>2</sub> | Co | F  | CO <sub>2</sub> | NaCO <sub>3</sub> | OH | CaSO <sub>4</sub> | Na <sub>2</sub> SO <sub>4</sub> to Na <sub>2</sub> SO <sub>3</sub> ratio | General 2) |
|-----------------------------|-----------|--------|--------------------------------|-------------------------|------|----------|------------------------------------|---------|--------------|---------|-----|-----|---------|--------------------------------|------------------|----|----|-----------------|-------------------|----|-------------------|--|------------|
| Air conditioning 3)         | --        | --     | --                             | --                      | --   | --       | --                                 | --      | --           | --      | 0.5 | 0.5 | 0.5     | --                             | --               | -- | -- | --              | --                | -- | --                | --   | A, B       |
| Baking                      | 10        | 10     | --                             | --                      | --   | (4)      | --                                 | --      | --           | --      | .2  | .2  | .2      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | C          |
| Boiler feed:                |           |        |                                |                         |      |          |                                    |         |              |         |     |     |         |                                |                  |    |    |                 |                   |    |                   |  |            |
| 0-150 psi                   | 20        | 80     | 100                            | 2                       | --   | 75       | --                                 | 8.0+    | 3,000-1,000  | --      | --  | --  | --      | 5                              | 40               | -- | -- | 200             | 50                | 50 | --                | 1 to 1   | --         |
| 150-250 psi                 | 10        | 40     | 50                             | .2                      | --   | 40       | --                                 | 8.5+    | 2,500-500    | --      | --  | --  | --      | .5                             | 20               | -- | -- | 100             | 30                | 40 | --                | 2 to 1   | --         |
| 250 psi and up              | 5         | 5      | 10                             | 0                       | --   | 8        | --                                 | 9.0+    | 1,500-100    | --      | --  | --  | --      | .05                            | 5                | -- | -- | 40              | 5                 | 30 | --                | 3 to 1   | --         |
| Brewing: 4)                 |           |        |                                |                         |      |          |                                    |         |              |         |     |     |         |                                |                  |    |    |                 |                   |    |                   |  |            |
| Light                       | 10        | --     | --                             | --                      | Low  | --       | 75                                 | 6.5-7.0 | 500          | 100-200 | .1  | .1  | .1      | --                             | --               | -- | 1  | --              | --                | -- | 100-200           | --   | C, D       |
| Dark                        | 10        | --     | --                             | --                      | Low  | --       | 150                                | 7.0-    | 1,000        | 200-500 | .1  | .1  | .1      | --                             | --               | -- | 1  | --              | --                | -- | 200-500           | --   | C, D       |
| Canning:                    |           |        |                                |                         |      |          |                                    |         |              |         |     |     |         |                                |                  |    |    |                 |                   |    |                   |  |            |
| Legumes                     | 10        | --     | --                             | --                      | Low  | 25-75    | --                                 | --      | --           | --      | .2  | .2  | .2      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | C          |
| General                     | 10        | --     | --                             | --                      | Low  | --       | --                                 | --      | --           | --      | .2  | .2  | .2      | --                             | --               | -- | 1  | --              | --                | -- | --                | --   | C          |
| Carbonated beverages 5)     | .2        | 10     | 10                             | --                      | 0    | 250      | 50                                 | --      | 850          | --      | .2  | .2  | .3      | --                             | --               | -- | .2 | --              | --                | -- | --                | --   | C          |
| Confectionary               | --        | --     | --                             | --                      | Low  | --       | --                                 | (7)     | 100          | --      | .2  | .2  | .2      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | C          |
| Cooling 6)                  | 50        | --     | --                             | --                      | --   | 50       | --                                 | --      | --           | --      | .5  | .5  | .5      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | A, B       |
| Food, general               | 10        | --     | --                             | --                      | Low  | --       | --                                 | --      | --           | --      | .2  | .2  | .2      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | C          |
| Ice (raw water) 7)          | 1-5       | 5      | --                             | --                      | --   | --       | 30-50                              | --      | 300          | --      | .2  | .2  | .2      | --                             | 10               | -- | -- | --              | --                | -- | --                | --   | C          |
| Laundry                     | --        | --     | --                             | --                      | --   | 50       | --                                 | --      | --           | --      | .2  | .2  | .2      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | C          |
| Plastics, clear undecolored | 2         | 2      | --                             | --                      | --   | --       | --                                 | --      | 200          | --      | .02 | .02 | .02     | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |
| Paper and pulp: 8)          |           |        |                                |                         |      |          |                                    |         |              |         |     |     |         |                                |                  |    |    |                 |                   |    |                   |  |            |
| Groundwood                  | 50        | 20     | --                             | --                      | --   | 180      | --                                 | --      | --           | --      | 1.0 | .5  | 1.0     | --                             | --               | -- | -- | --              | --                | -- | --                | --   | A          |
| Kraft pulp                  | 25        | 15     | --                             | --                      | --   | 100      | --                                 | --      | 300          | --      | .2  | .1  | .2      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |
| Soda and sulfite            | 15        | 10     | --                             | --                      | --   | 100      | --                                 | --      | 200          | --      | .1  | .05 | .1      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |
| Light paper, HL-grade       | 5         | 5      | --                             | --                      | --   | 50       | --                                 | --      | 200          | --      | .1  | .05 | .1      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | B          |
| Rayon (viscose) pulp:       |           |        |                                |                         |      |          |                                    |         |              |         |     |     |         |                                |                  |    |    |                 |                   |    |                   |  |            |
| Production                  | 5         | 5      | --                             | --                      | --   | 8        | 50                                 | --      | 100          | --      | .05 | .03 | .05     | <8.0                           | <25              | <5 | -- | --              | --                | -- | --                | --   | --         |
| Manufacture                 | .3        | --     | --                             | --                      | --   | 55       | --                                 | 7.8-8.3 | --           | --      | .0  | .0  | .0      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |
| Tanning 11)                 | 20        | 10-100 | --                             | --                      | --   | 50-135   | 135                                | 8.0     | --           | --      | .2  | .2  | .2      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |
| Textiles:                   |           |        |                                |                         |      |          |                                    |         |              |         |     |     |         |                                |                  |    |    |                 |                   |    |                   |  |            |
| General                     | 5         | 20     | --                             | --                      | --   | 20       | --                                 | --      | --           | --      | .25 | .25 | --      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |
| Dyeing 12)                  | 5         | 5-20   | --                             | --                      | --   | 20       | --                                 | --      | --           | --      | .25 | .25 | .25     | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |
| Wool scouring 13)           | --        | 70     | --                             | --                      | --   | 20       | --                                 | --      | --           | --      | 1.0 | 2.0 | 1.0     | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |
| Cotton bandage 13)          | 5         | 5      | --                             | --                      | Low  | 20       | --                                 | --      | --           | --      | .2  | .2  | .2      | --                             | --               | -- | -- | --              | --                | -- | --                | --   | --         |

1) From American Water Works Association, 1950.

2) A-No corrosiveness; B-No slime formation; C-Conformance to Federal drinking water standards necessary; D-NaCl, 275 mg/l.

3) Waters with algae and hydrogen sulfide odors are most unsuitable for air conditioning.

4) Some hardness desirable.

5) Water for distilling must meet the same general requirements as for brewing (gin and spirits washing water of light-beer quality; whiskey washing water of dark-beer quality).

6) Clear, odorless, sterile water for syrup and carbonization. Water consistent in character. Most high quality filtered municipal water not satisfactory for beverages.

7) Hard candy requires pH of 7.0 or greater, as low value favors inversion of sucrose, causing sticky product.

8) Control of corrosiveness is necessary as is also control of organisms, such as sulfur and iron bacteria, which tend to form slimes.

9) Ca(HCO<sub>3</sub>)<sub>2</sub> particularly troublesome. Mg(HCO<sub>3</sub>)<sub>2</sub> tends to greenish color. CO<sub>2</sub> assists to prevent cracking. Sulfates and chlorides of Ca, Mg, Na should each be less than 300 mg/l (white butts).

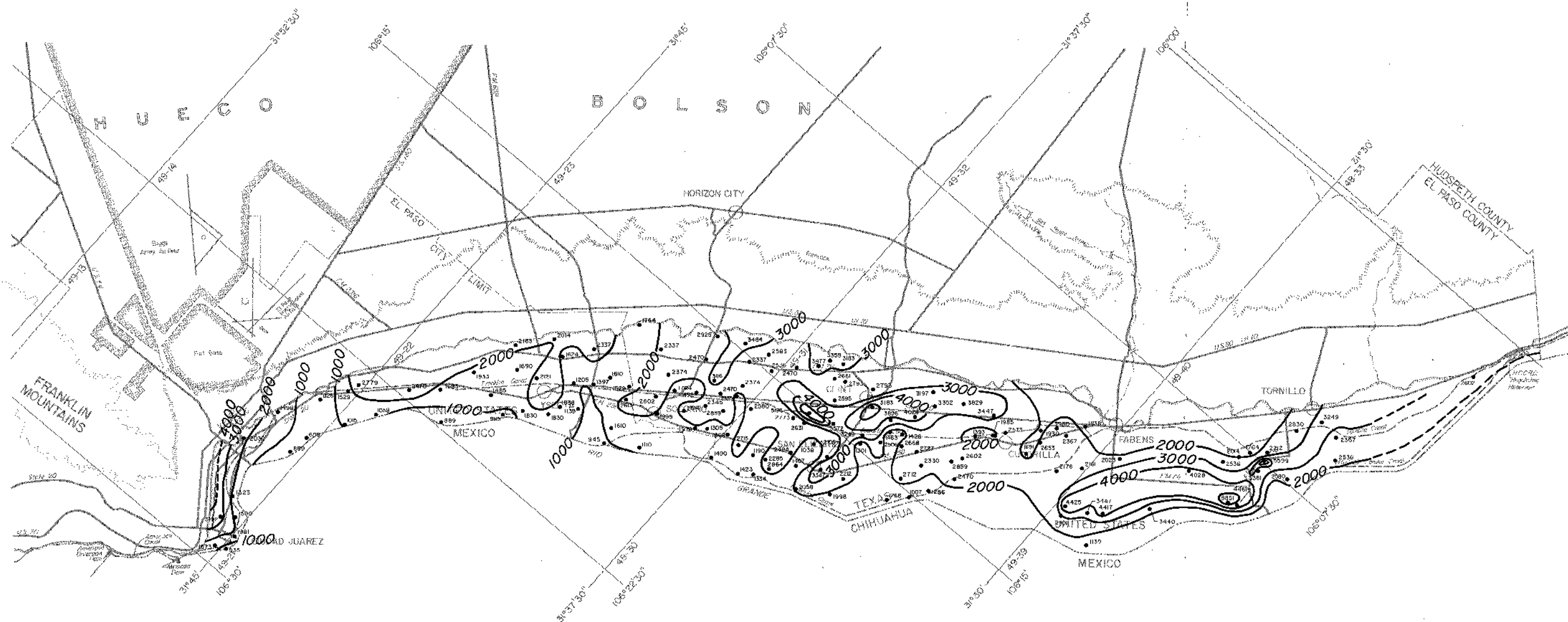
10) Uniformity of composition and temperature desirable. Iron objectionable as cellulose adsorbs iron from dilute solutions. Manganese very objectionable, clogs pipelines and is oxidized to permanganates by chlorine, causing reddish color.

11) Excessive iron, manganese, or turbidity creates spots and discoloration in tanning of hides and leather goods.

12) Constant composition; residual alumina 0.5 ag/l.

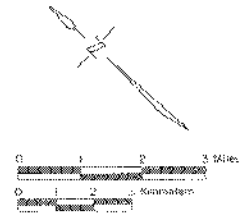
13) Calcium, magnesium, iron, manganese, suspended matter, and soluble organic matter may be objectionable.





**EXPLANATION**

- 1690  
Sampled well
- Number indicates the concentration of dissolved solids in the water, in milligrams per liter
- Sampled wells are not more than 100 feet deep
- Date of sampling is in the period 1964-74
- 2000 —  
Line showing approximate concentration of dissolved solids, in milligrams per liter
- Interval 1000 milligrams per liter
- Approximate edge of the Rio Grande alluvium (from Van Horn-El Paso geologic atlas sheet)



Base adapted from county highway maps by the Texas Department of Highways and Public Transportation; topographic maps by the U.S. Geological Survey; and maps of the El Paso County and Hudspeith County Water Improvement Districts.

Figure 12  
Areal Distribution of Ground-Water Quality in the Rio Grande Alluvium, Lower El Paso Valley, Within the Depth Interval 0-100 Feet



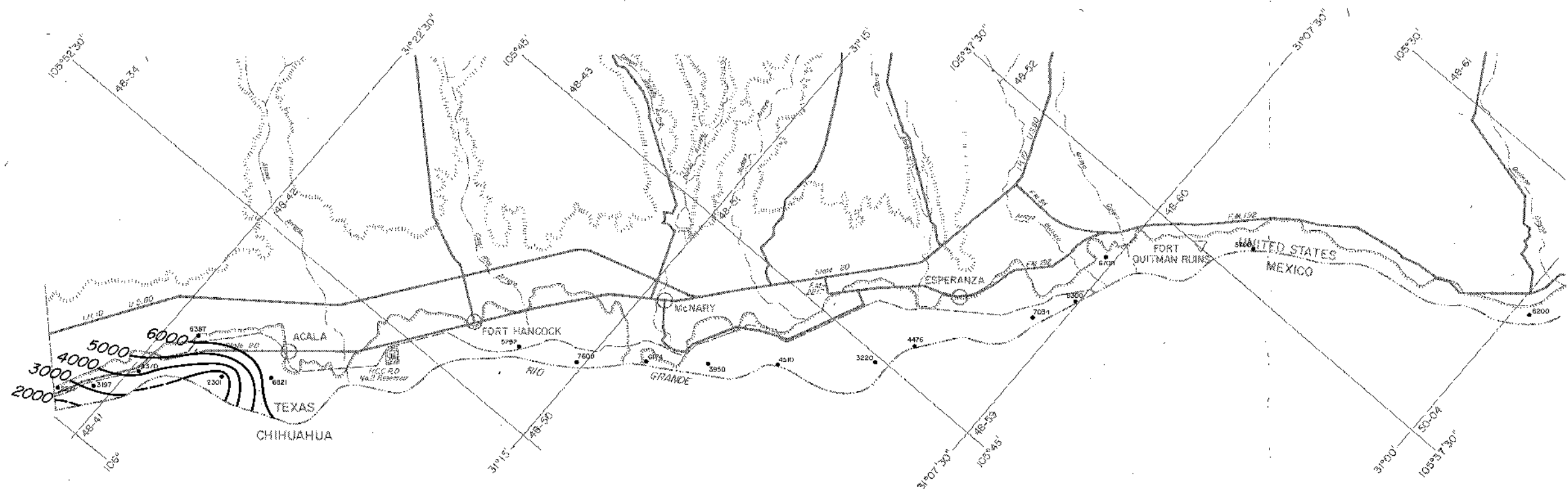
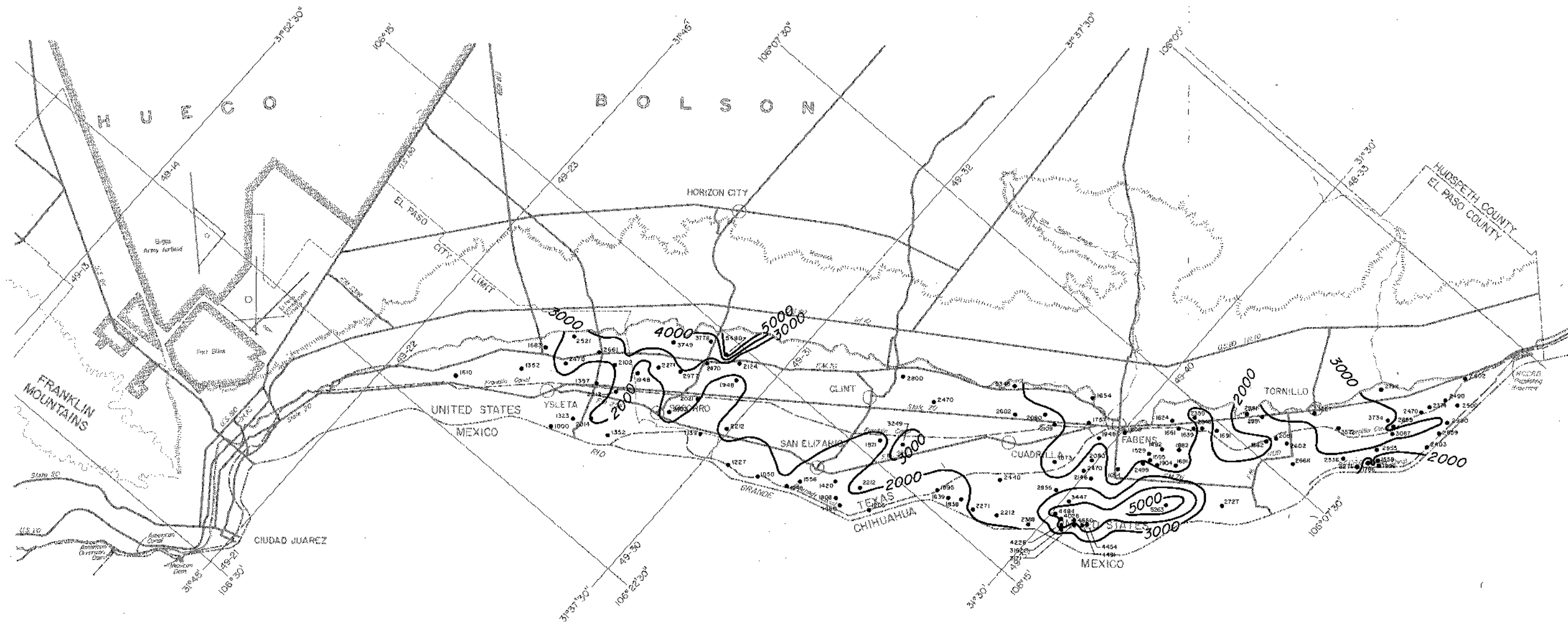


Figure 12 Continued





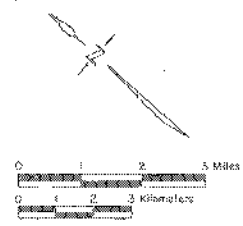
**EXPLANATION**

● 1227  
 Sampled well  
 Number indicates the concentration of dissolved solids in the water,  
 in milligrams per liter  
 Sampled wells are from 100-200 feet deep  
 Date of sampling is in the period 1964-74

— 2000 —

Line showing approximate concentration of dissolved solids,  
 in milligrams per liter  
 Interval 1000 milligrams per liter

Approximate edge of the Rio Grande alluvium  
 (from Van Horn-El Paso geologic atlas sheet)



Base adapted from county highway maps  
 by the Texas Department of Highways and  
 Public Transportation; topographic maps by  
 the U.S. Geological Survey; and maps of the  
 El Paso County and Hudspeth County Water  
 Improvement Districts

Figure 13  
 Areal Distribution of Ground-Water Quality in the Rio Grande Alluvium,  
 Lower El Paso Valley, Within the Depth Interval 0-200 Feet



of ground water during irrigation, (2) the heterogeneous character of the Rio Grande alluvium, which generally contributes to the deterioration of ground-water quality, and (3) evapotranspiration by phreatophytes concentrated along the drains and in scattered, dense clumps or bosques.

### **Ground-Water Quality Problems**

The El Paso Valley is an area of complex subsurface sedimentation, hydrology, and soil characteristics. This complexity is one of the contributing factors which causes the ground-water quality in the Valley to change laterally and with depth. In places the quality changes may be abrupt. As mentioned earlier in the geology section, the sediments are lenticular and grade laterally from montmorillonite clays to very coarse gravels. This variation in the character of sediments has an effect on the chemical quality of the ground water by locally restricting its movement both vertically and horizontally. Where horizontal movement is restricted, a buildup in dissolved salts may occur because there is no lateral influx of fresher water. Similarly, where vertical movement is contained, zones of saline water may occur above or below the zones of better water. These factors are further complicated by the pumping of wells which may increase ground-water movement, both horizontally and vertically, thereby causing a blending effect of the various water-quality zones.

The cross sections in Figure 14 illustrate the variations in water quality at different places and depths in the lower El Paso Valley. As shown in Figure 15, the quality of water produced by a well can change significantly over the years.

Most of the ground-water recharge received by the Rio Grande alluvium is from infiltration of applied irrigation water, which is derived in varying proportions from the Valley's surface-water and ground-water (Rio Grande alluvium) supplies. The use and partial recycling of these waters has generally had the overall effect of increasing the salinity of the ground water, particularly in the upper water-bearing sands of the alluvium.

### **Ground-Water Quality in Relation to Soil Quality**

As mentioned in a previous section, all irrigation water contains soluble salts obtained from several sources. The amount and kind of salts are important in determining the suitability of the water for crop production. In the El Paso Valley, irrigation water of

acceptable quality should contain less than 2,000 mg/l of soluble salts, or up to about 3 tons of salt per acre-foot. However, under certain conditions, water of higher concentrations may be used for irrigation. As water with higher salt content is used for irrigation, more rigid management practices must be followed to avoid long-term damage to the soil. In many cases, successful irrigation farming is more dependent on the management practices followed than on the quality of water available. In an efficient and successful irrigation operation, several factors must be considered. The main factors are (1) the quantity and quality of water available, and (2) the chemical and physical nature of the soil to which it is applied. Other important factors which affect irrigated crop production are climate, adequacy of drainage, and the suitability of crops to the water available.

Considering soil types and water quality to be the most critical factors affecting irrigated crop yields, a map (Figure 16) was constructed outlining the areas most and least favorable for development of irrigation water from the Rio Grande alluvium in the lower El Paso Valley. This map illustrates the distribution of the soils best suited for irrigation on the basis of soil characteristics and qualities that affect the ability of the soil to respond to water, fertilizer, and management practices. The characteristics considered in the delineation of these soils were soil depth, surface soil texture and structure, subsoil texture and structure, and permeability of the least permeable horizon. As water quality is a major factor in determining the areas best suited for irrigation, the map (Figure 16) also delineates the areas where water of less than 2,000 mg/l dissolved solids can be found in the Rio Grande alluvium in the lower El Paso Valley.

### **AVAILABILITY OF GROUND WATER FOR DEVELOPMENT**

The three sources for the development of ground water in the El Paso Valley are the Hueco and Mesilla bolson deposits and the Rio Grande alluvium.

#### **Hueco and Mesilla Bolson Deposits**

The only part of the lower El Paso Valley which is underlain by fresh ground water in the Hueco bolson deposits is the city artesian area, which extends from a point near the Paso del Norte to Ysleta and generally coincides with the extreme northwestern part of the lower Valley. Predominantly, the bolson deposits in the remaining part of the lower Valley from Ysleta to Quitman Canyon contain saline ground water, most of





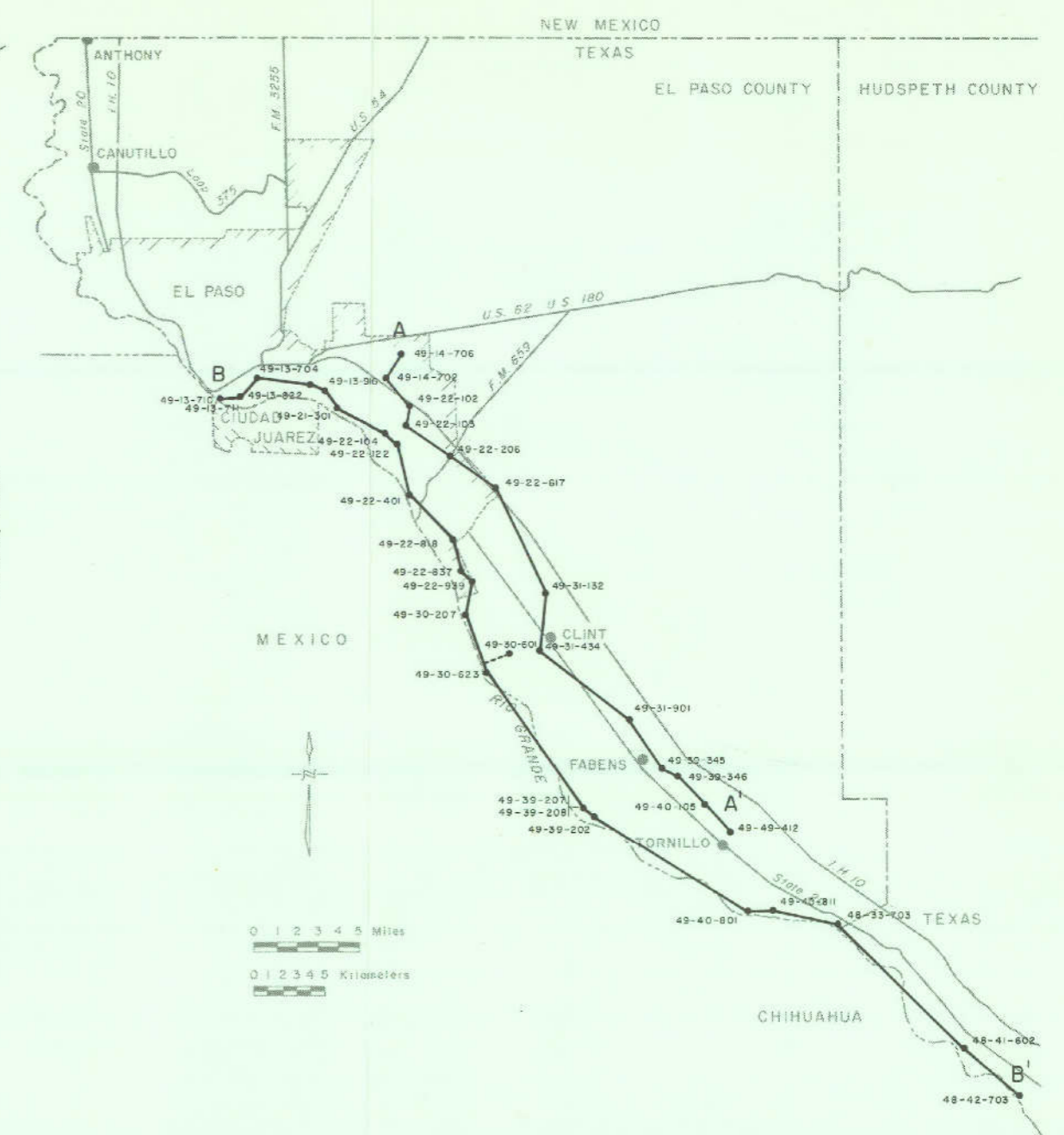
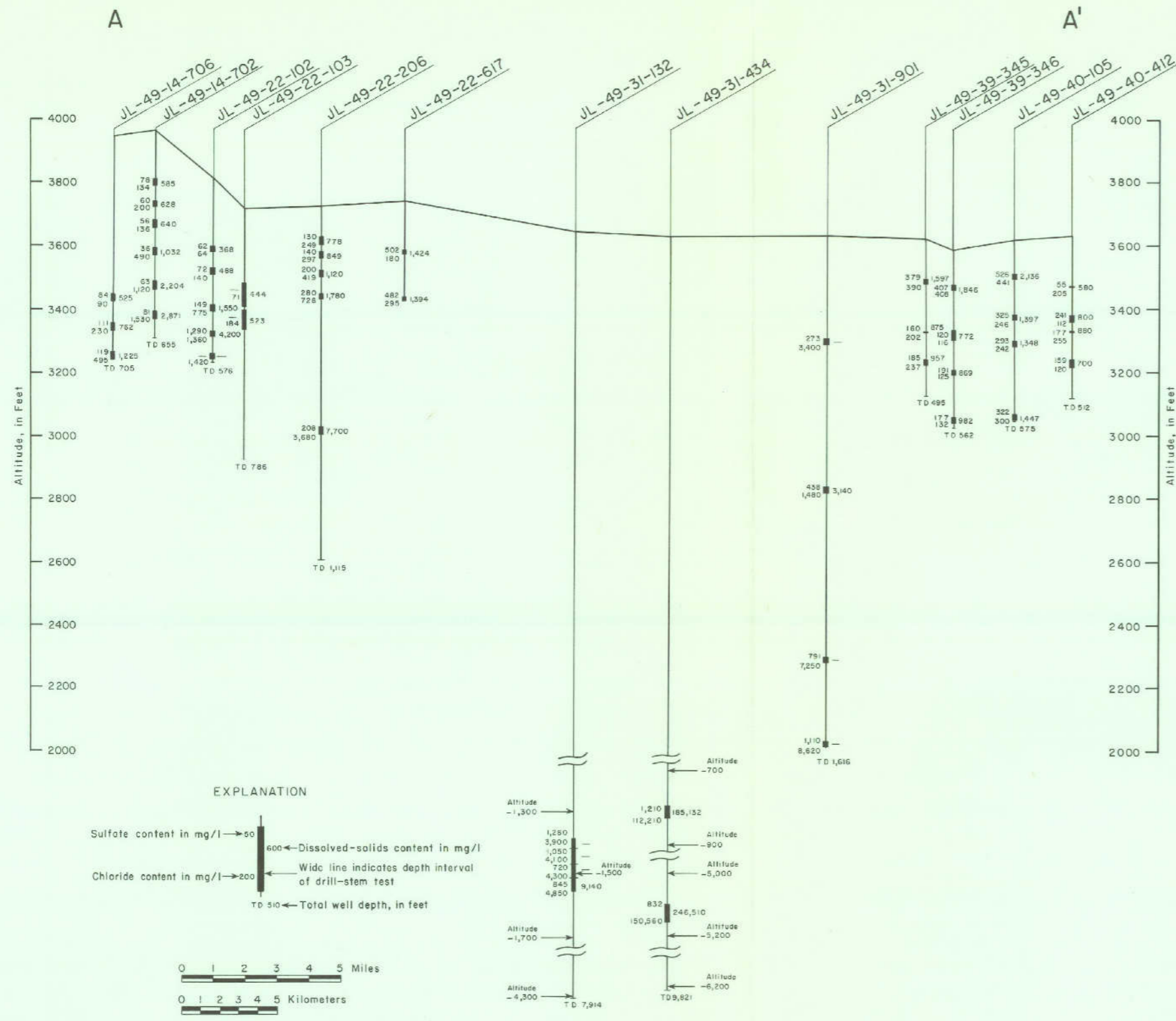


Figure 14  
Cross Sections Showing Chemical Quality of Ground Water, Lower El Paso Valley



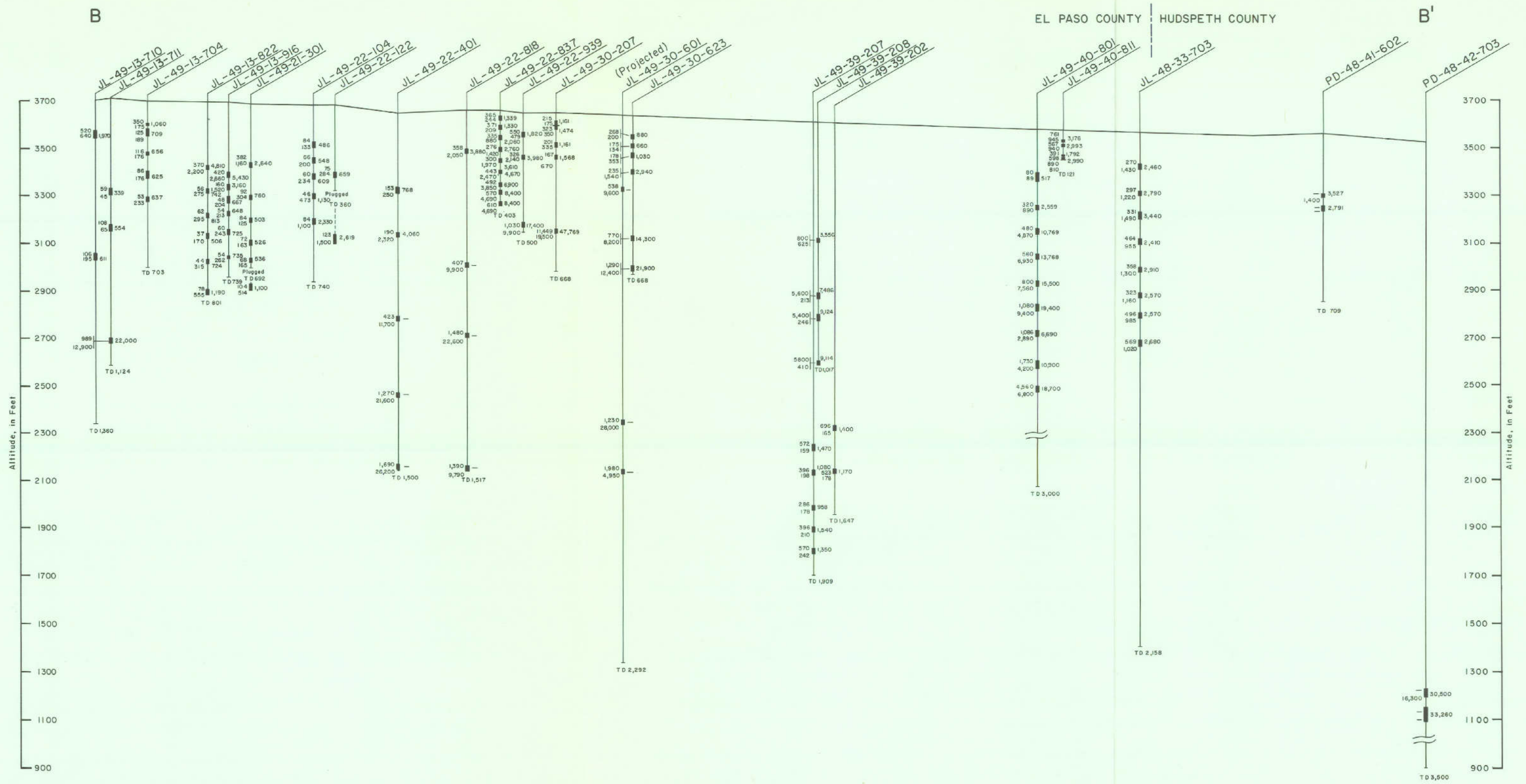


Figure 14 Continued



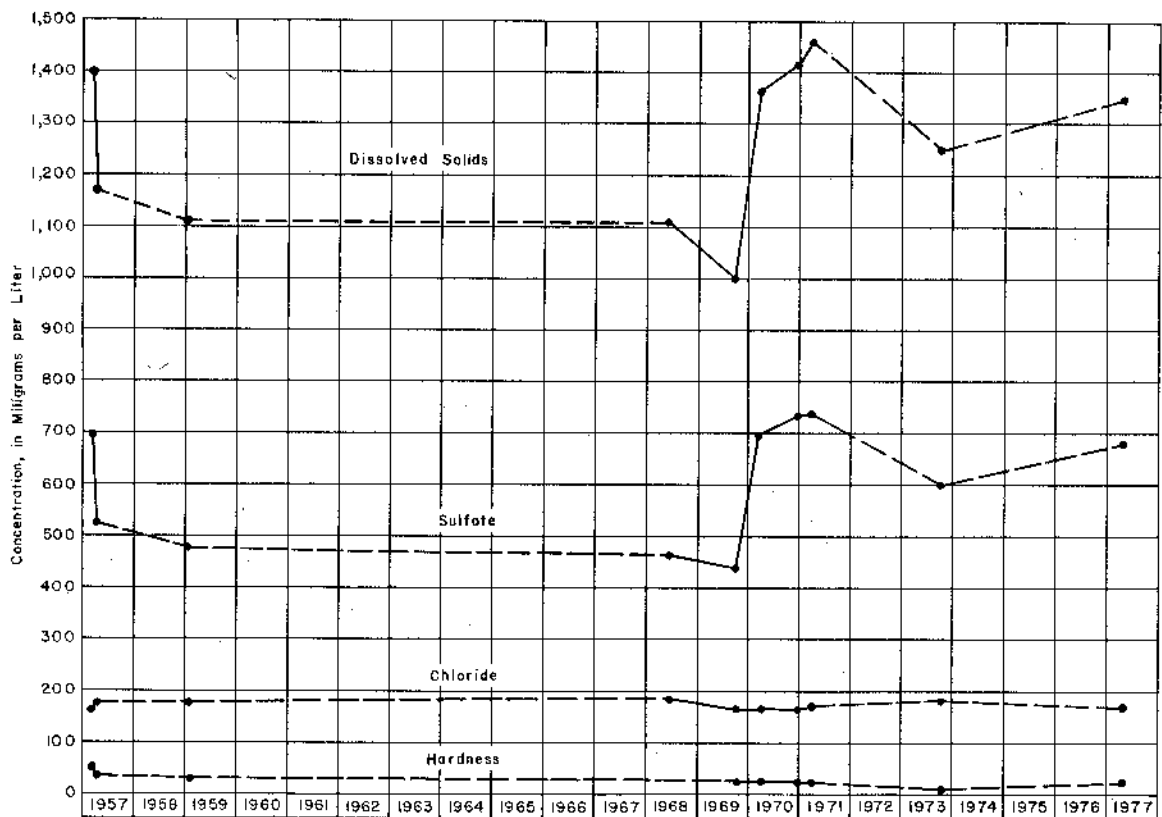


Figure 15.—Changes in Chemical Quality of Water in Well JL-49-39-202  
(City of El Paso Lower Valley Test Hole 2, Near Fabens)

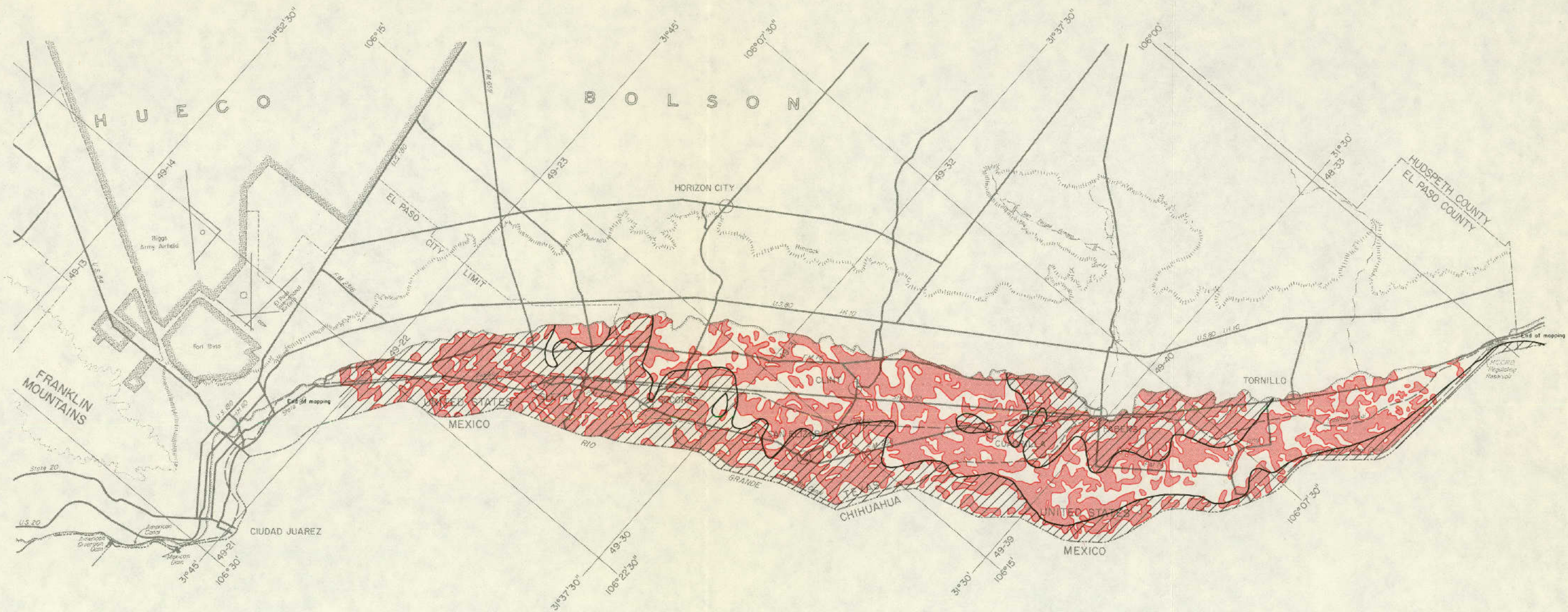
which ranges in quality from moderately saline to very saline. A small area between Fabens and the Rio Grande has a deep zone in the Hueco bolson deposits which contains slightly saline water. However, this zone is surrounded by a very large quantity of ground water with much higher salinity and is believed to be a small subsurface extension of a larger section of bolson deposits containing fresh to slightly saline water in Mexico.

Cooperative ground-water investigations in the El Paso region by the Texas Water Development Board, U.S. Geological Survey, and the city of El Paso have evaluated the ground-water availability of the Mesilla and Hueco bolson deposits as follows. Annual recharge is about 18,000 acre-feet for the Mesilla bolson deposits and about 6,000 acre-feet for the Hueco bolson deposits (Leggat and others, 1962; Meyer, 1976). In the upper El Paso Valley, the Mesilla bolson deposits and Rio Grande alluvium together contain about 560,000 acre-feet of fresh water in storage in Texas of which about 410,000 acre-feet is in the bolson deposits; however, in areas where the fresh-water beds are overlain or underlain by saline water, not all of the fresh water can be recovered (Leggat and others, 1962). The Hueco bolson deposits


contain about 10.6 million acre-feet of fresh water in storage in Texas that is judged to be recoverable (Meyer, 1976, p. 8). Meyer and Gordon (1972) also estimated that about 3.4 million acre-feet of slightly saline water in the Hueco bolson deposits is available in the sands which underlie and adjoin the fresh-water zone and, although this water is unsuitable for drinking, it is satisfactory for blending or desalination.


Meyer (1976) indicated that the Hueco bolson receives a large amount of induced recharge by vertical leakage of water from the Rio Grande alluvium. The water moves downward from the alluvium when pumpage of ground water from the bolson lowers its artesian head below the water table in the alluvium. Meyer (1976) stated that during the period 1968-73 the average annual leakage into the bolson from the alluvium was approximately 33,300 acre-feet. Due to lining of the Rio Grande channel in the immediate El Paso area, the alluvium receives very little recharge from surface-water inflow in this area and therefore is significantly drained by the leakage. Also, this leakage apparently is causing gradual deterioration in the quality of the bolson's fresh water in the city artesian area.







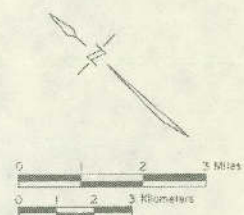
**EXPLANATION**

 Hachuring indicates areas where ground water in the Rio Grande alluvium is most suitable for irrigation (less than 2,000 mg/l dissolved solids, as shown in Figure 12 or 13)

 Shading indicates areas where soils in the Rio Grande alluvium outcrop are most suitable for irrigation

 Areas that are both hachured and shaded are the most favorable areas for development of irrigation water from the Rio Grande alluvium

 Approximate edge of the Rio Grande alluvium (from Van Horn-El Paso geologic atlas sheet)



Base adapted from county highway maps by the Texas Department of Highways and Public Transportation, topographic maps by the U.S. Geological Survey, and maps of the El Paso County and Hudspeth County Water Improvement Districts

Figure 16

Areas Most Favorable for Development of Irrigation Water From the Rio Grande Alluvium, Lower El Paso Valley





From 1960 through 1969, an average of about 75,000 acre-feet per year of ground water was withdrawn from the Hueco bolson deposits by the cities of El Paso and Juarez, the military, various industries, and one irrigator. About 33,000 acre-feet per year was withdrawn from the city artesian area and the artesian portion of the bolson in Juarez. These withdrawals have removed significant quantities of ground water from storage. If continued, such withdrawals could eventually cause extensive storage depletions and a deterioration in water quality.

### Rio Grande Alluvium

Davis (1967) estimated, and Meyer and Gordon (1972, p. 27) confirmed, that about 1.4 million acre-feet of ground water having less than 2,500 mg/l dissolved solids is theoretically recoverable from the Rio Grande alluvium in the lower El Paso Valley in El Paso County. The 1.4 million acre-feet estimate was calculated using (1) an estimated average saturated thickness of 190 feet, two-thirds of which was assumed to contain water having less than 2,500 mg/l dissolved solids (a liberal assumption), and (2) an assumed specific yield of 15 percent (a conservative assumption). Their estimate also is based on the assumptions that (1) the aquifer is full with its water level at the bottom of the river and drains, and (2) the amount (1.4 million acre-feet) is not necessarily economically recoverable because extensive incremental dewatering of the alluvium will cause incremental depletions in well yields and water-quality deterioration.

Based on 1968 through 1971 annual water budget studies in the lower El Paso Valley, Meyer and Gordon (1973, p. 40-42) estimated that the potential ground-water recharge to the alluvium ranged from 74,100 acre-feet (1968) to as high as 89,330 acre-feet (1970). Meyer and Gordon (1972, p. 27) state, "This water is derived from the infiltration of irrigation water and from seepage losses in the canals and laterals; however, due to the fullness of the aquifer, a large part of the water is rejected and becomes drainflow. The volume of potential recharge available will range over wide limits, depending upon the availability of surface water for irrigation."

Figures 12 and 13 provide a means of obtaining coarse approximations of the quantities of water of various salinity ranges stored in the alluvium. As described earlier, these maps represent simplifications of the actual ground-water conditions. Since most wells are screened from the water table to the bottom of the well, the chemical-quality data used to construct the maps actually represent a composite of the water quality from

all the sands screened in the well. In addition, it was necessary to assume that the chemical quality of water obtained from the screened portion in a well is also representative of the deeper, untapped portion of the alluvium, to a depth of 100 feet (Figure 12) or 200 feet (Figure 13). Also, the mapping process involves assumptions and potential for error in the positioning of the water-quality delineations among the well sites used for map control.

Assuming that an average saturated thickness of 90 feet is represented in Figure 12, and 190 feet in Figure 13 (an average thickness of about 10 feet is above the water table), and using a specific yield of 15 percent and the area of each incremental range in water quality delineated on the maps, the following quantities of water are calculated to be recoverable from the Rio Grande alluvium in the lower El Paso Valley in El Paso County:

| Salinity range<br>(dissolved-solids<br>content in mg/l) | Quantity of water, in acre-feet                         |  |
|---|---|--|
|   | Above a depth<br>of 100 feet<br>(based on<br>Figure 12) | Total above a depth<br>of 200 feet<br>(based on Figure 13) |
| Less than 1,000   | 39,000  | —  |
| 1,000—2,000   | 406,000   | 821,000  |
| 2,000—3,000   | 397,000   | 1,021,000  |
| 3,000—4,000   | 130,000   | 201,000  |
| 4,000—5,000   | 60,000  | 60,000   |
| More than 5,000   | 9,000   | 18,000   |

The quantity-quality relationships may change in response to changes in discharge or in the amounts or quality of recharge.

The approximate areas most and least favorable for the development of ground water for irrigation in the lower El Paso Valley are shown in Figure 16. This interpretation is based on the water-quality delineations made in Figures 12 and 13 and on the distribution of soils that are best suited for agriculture.

## PRESENT GROUND-WATER DEVELOPMENT AND MANAGEMENT IN THE EL PASO REGION

### Ground-Water Development in Mexico

Ciudad Juarez has over 500,000 inhabitants, and authorities are projecting an anticipated annual growth

in population of 10 percent for the immediate future. All of Ciudad Juarez's municipal and industrial water supply is obtained from the Hueco bolson deposits. In 1972, 29,500 acre-feet of ground water was pumped for municipal purposes. This is more than twice the amount pumped in 1955 for the same purpose. Table 1 shows Ciudad Juarez's annual municipal pumpage from 1955-72.

A treaty between the United States and Mexico was signed in 1906 and proclaimed by the President of the United States in 1907 whereby the United States guaranteed Mexico an annual delivery in perpetuity of 60,000 acre-feet of water from the Rio Grande. A condition to this delivery was that in event of an extraordinary drought or a serious accident to the Rio Grande Project's irrigation system, the amount delivered to Mexico would be diminished in the same proportion as water delivered to the United States. Mexico utilizes surface water from the Rio Grande for irrigation purposes, and as a result of declining surface-water deliveries during several years since 1950, numerous irrigation wells have been drilled to supplement the water requirements of the expanding agricultural activity in the Juarez Valley.

Most of the irrigation wells in Mexico are completed in the Rio Grande alluvium and only a few are completed in the Hueco bolson deposits. A few wells are completed in a deep artesian sand, probably the same sand encountered by the City of El Paso's Lower Valley Test Hole 2, well JL-49-39-202 near Fabens. Several wells have also been drilled in the Juarez Valley to supply the municipal needs of the various communities southeast of Ciudad Juarez. Some of these public-supply wells are thought to be producing from the Rio Grande alluvium since it supposedly contains fresh water in many areas of the Juarez Valley.

Considerable information is needed to accurately evaluate the effects of ground-water development in Mexico on the ground-water resources of the lower El Paso Valley. Information needed includes well locations, elevations, depths, methods of completion, chemical analyses of the water, water levels (historical and current), copies of any well logs (drillers' and electrical), and the quantities of water produced annually. Historically most of these data have not been available. However, negotiations among representatives of the Texas Department of Water Resources, U.S. Geological Survey, and Mexico's Secretaria de Recursos Hidraulicos to exchange ground-water data may improve this situation. An exchange of ground-water data hopefully will permit all concerned to evaluate the overall development potential of both the Hueco bolson and the Rio Grande alluvium in the United States and Mexico.

One of the several purposes of two test wells drilled by the Texas Water Development Board in 1974 in cooperation with the U.S. Bureau of Reclamation was an effort to monitor the effects of ground-water development in Mexico. These wells, JL-49-30-207 and JL-49-30-623, are positioned near the Rio Grande in the vicinity of San Elizario and directly across the river from a concentration of new irrigation wells in Mexico. The water level in these test wells will be measured periodically to monitor any changes in the alluvium's water level resulting from pumpage in Mexico. In addition, water levels are measured monthly in a series of Rio Grande alluvium observation wells located near the river and extending down the valley near Socorro to below Tornillo. Hydrographs for some of these alluvium observation wells are shown in Figure 10, and the water-level measurements are given in Table 6.

The effects of Mexico's ground-water development on the ground-water resources of the El Paso region are the subject of much speculation, and will continue to be such until sufficient ground-water data are obtained from Mexico.

### **Ground-Water Development and Management Practices in Texas**

The City of El Paso will continue to rely on ground water to provide about 90 percent of its municipal water supply. In addition, all of the water used by several smaller communities within El Paso County plus the several large water-using industries and Fort Bliss must come from ground water. Ciudad Juarez likewise will continue to rely on ground water to provide its municipal and industrial supplies. The bulk of the municipal and industrial ground-water requirements, on both sides of the Rio Grande, has been, and will continue to be, obtained from the Hueco bolson. Ground water from the Rio Grande alluvium used for irrigation will continue to supplement the often insufficient surface-water diversions from the Rio Grande.

The El Paso Water Utilities has had a progressive management program for developing the city's ground-water supply. For many years the city has engaged the U.S. Geological Survey to study the ground-water resources of the Hueco bolson. These studies were funded by the El Paso Water Utilities, Texas Water Development Board, and the U.S. Geological Survey. In 1976 the Survey published the report, "Digital Model for Simulated Effects of Ground-Water Pumping in the Hueco Bolson, El Paso Area, Texas, New Mexico, and Mexico" (Meyer, 1976). The model was used to predict future water-level declines that would

result from the city's proposed pattern of future ground-water pumpage, which is based on anticipated population growth and water use over the next 50 years. Various combinations of the amounts and distribution of pumpage were used as input to the model and the results of each combination were evaluated. The model will provide the El Paso Water Utilities a means of determining in advance which combination permits the optimum development of the aquifer with the least adverse effects. The model may be modified later to include water-quality evaluations.

Assuming that future ground-water supplies must come from the bolson deposits and Rio Grande alluvium in Texas, undeveloped resources remaining to be utilized are the large quantities of saline water that exist within the Hueco and Mesilla bolson deposits and the Rio Grande alluvium. These waters are available for blending with existing fresh water or for use after desalination.

Optimum development of the bolson deposits by the city and others should include plans to use enough strategically located wells to produce the projected quantity of water without creating large-scale water-level declines followed by saline-water encroachment. The use of enough strategically located wells should produce a skimming effect and promote optimum development of the fresh to slightly saline water available in the aquifers.

The city's Water Utilities has initiated an in-well blending technique in a few production wells recently completed in the Hueco bolson. Utilizing this technique, the well is completed in both the fresh and slightly saline water zones by placing calculated lengths of well screen opposite each zone. The well is then pumped at selected rates for different blends of quality. This use of slightly saline water marks a change in the city policy of completing wells within only the fresh-water zone, and is expected to extend the city's ground-water supply considerably.

## **FUTURE STUDY NEEDS**

### **Inventory and Monitoring of Ground-Water Resources**

An evaluation of the ground-water resources of any area is only as good as the information obtained during the data-collection and well-inventory phase of the study. In order to keep up with the future ground-water development of the Mesilla bolson, Hueco bolson, and the Rio Grande alluvium, a continuing ground-water data collection program should be maintained. This program should consist of collecting

the basic data on all new large-capacity wells (municipal, industrial, and irrigation wells) drilled within the El Paso region. The basic data needed for each new well includes depth, cased interval, screened interval, copies of all logs, chemical analyses of the water, water levels, and results of aquifer and well-performance tests. Other programs should include (1) a water-level observation well program, (2) a ground-water quality monitoring program, (3) conducting aquifer and well-performance tests, and (4) an accurate annual ground-water pumpage inventory.

A good water-level observation well program is an integral part of a continuing ground-water data collection program. Selection of these special observation wells and repetitively measuring the water levels in them make it possible to record and analyze the patterns of water-level changes brought about by ground-water development over a long period of time. Hydrographs which graphically portray the rise and decline of the water levels (Figures 9 and 10) are useful in predicting the longevity of aquifers such as the Hueco bolson where annual pumpage exceeds annual recharge, and in understanding in detail the responses of all the aquifers to changes in recharge and pumpage.

Water-level measurements from observation wells in the Hueco bolson, Mesilla bolson, and Rio Grande alluvium have been obtained for many years (Table 6) by the U.S. Geological Survey, the El Paso Water Utilities, the International Boundary and Water Commission, and the U.S. Bureau of Reclamation. Continuation of these long-range data-collection efforts is indispensable to future understanding of the effects of ground-water development in the region, and to refined evaluations of the adequacy and dependability of the region's ground-water supplies.

Shortly after initiating this investigation, water-level measurements were begun by the Board's staff in a series of Rio Grande alluvium wells located near the Rio Grande and extending down the valley from near Socorro to below Tornillo. Measurements that are being obtained from these alluvium wells, especially test wells JL-49-30-207 and JL-49-30-623, and measurements being made in the city of El Paso's deep artesian well, Lower Valley Test Hole 2, JL-49-39-202 near Fabens, should be helpful in detecting any effects on the ground-water conditions in the lower El Paso Valley in Texas that might result from ground-water development in Mexico.

No comprehensive data collection program existed prior to this study for monitoring water-quality changes in either the bolson or alluvium aquifers, and as a consequence our knowledge of historical water-quality

changes in these aquifers is very limited. The El Paso Water Utilities plans to initiate a regular water-quality monitoring program for selected wells in areas of concentrated pumpage from the Hueco bolson. Needed in all the aquifers is the establishment and maintenance of such networks of representative water quality monitoring wells, which are sampled for chemical analysis periodically to keep abreast of any water-quality changes that might occur. The water-quality documentation obtained from such networks would also assist in refining the estimates of quantities of water of various qualities delineated in this and previous reports. Most irrigation wells in the Rio Grande alluvium are not used except when surface-water diversions are inadequate; therefore, it might be advisable to use a network of domestic wells which are in daily use to monitor any water-quality changes in the alluvium.

Aquifer and well-performance tests are essential in determining an aquifer's hydraulic characteristics. Additional tests are needed to support or update data in areas where prior tests have been made, as in parts of the Hueco bolson, and aquifer tests are especially needed in the El Paso Valley's Rio Grande alluvium where none are known to have been performed. A better grasp of an aquifer's hydraulic properties is vital to the sophisticated methods being applied to make long-range aquifer evaluations, such as the U.S. Geological Survey's mathematical ground-water model of the Hueco bolson. Any future ground-water studies in the El Paso region should include conducting as many aquifer and well-performance tests as possible. The El Paso Water Utilities, Fort Bliss, major industries, and all local drillers should be contacted and requested to furnish the results of any aquifer and well-performance tests they might anticipate conducting. If need be, when no tests are planned, assistance should be offered as an incentive to encourage that tests be conducted.

A complete inventory of the amounts of water produced by large-yield municipal, industrial, and irrigation wells in the El Paso region, including Mexico's municipal, industrial, and irrigation pumpage, should be made annually. A Rio Grande Regional Environmental Project participant should be charged with the responsibility for collecting, compiling, and distributing copies of these data to entities concerned with ground-water development in the El Paso region.

Additional information on wells and water quality is particularly needed in the Hudspeth County part of the lower El Paso Valley, where no previous major ground-water investigations have been conducted. Because of the lack of historical data, and because there was insufficient time during this investigation to

concentrate more effort on Hudspeth County, the maps in this report reflect the lack of adequate data in that area.

### **Exploration to Refine Ground-Water Availability Evaluations**

Exploration for ground-water supplies of usable quality is needed in some areas as an adjunct to the programs of collecting basic data from existing water wells. This need was pointed out by Davis (1967) who concluded that "additional chemical analyses are needed to determine more accurately the quality of the water at different depth intervals in the alluvium. Such a program will require the drilling of a considerable number of test holes. The wells should be drilled to depths of not less than 200 feet, and water samples should be taken at several depths during the drilling of the test holes." Similarly, test drilling would be useful at many sites in the bolson deposits where information presently is scarce or lacking.

Where possible, geophysical logs should be run on all new high-capacity wells drilled in the El Paso Valley to delineate the depth intervals that may contain fresh water. Water samples should be collected from the delineated intervals using the gravel-pack method of water sampling. In cased wells, where the gravel-pack sampling method cannot be employed, a down-hole sampler can be used to collect water samples from predetermined depths using the geophysical logs as guides. A down-hole sampler is a special cylindrical tool that can be lowered down a borehole and opened to collect a water sample from any desired depth. This sampler can be used in wells that are not equipped with pumps, and in wells that have had pumps removed for such sampling with the owner's permission. This sampler may prove to be especially useful in obtaining needed ground-water quality information.

Mention has been made earlier of the valuable information obtained in two test wells which were drilled during this investigation by the Texas Water Development Board in cooperation with the U.S. Bureau of Reclamation. The test holes, JL-49-30-207 and JL-49-30-623, located near the Rio Grande in the vicinity of San Elizario, were both drilled through the Rio Grande alluvium and into the Hueco bolson, to a total depth of 650 feet in search of fresh water. Geophysical logs were run on each well, and based on evaluations of these logs, water samples were collected from various depth intervals using the gravel-pack technique utilized by El Paso Water Utilities.

In 1975, the Texas Water Development Board in cooperation with the U.S. Bureau of Reclamation and the U.S. Geological Survey contracted to have geophysical surveys conducted in the lower El Paso Valley from Ysleta to Fort Quitman. These consisted of airborne electromagnetic surveys which investigated the subsurface down to about 400 feet, and ground-based earth-resistivity surveys which investigated the subsurface to depths between 1,000 and 2,000 feet in

selected areas based on the aerial survey results. These surveys are evaluated and the results compiled by J. S. Gates and W. D. Stanley in open-file report 76-650, printed in 1976 by the U.S. Geological Survey, titled "Hydrologic Interpretation of Geophysical Data From the Southeastern Hueco Bolson, El Paso and Hudspeth Counties, Texas." Airborne or ground-based geophysical surveys may have additional application in the El Paso region in future exploration for ground-water supplies.

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Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
|                                  | El Paso County                   |   | JL-49-04-125                     | Q-19                             | —                                       |
|                                  |                                  |   | 126                              | Q-20                             | —                                       |
| JL-49-03-303                     | Q-219                            | —                                       | 127                              | Q-21                             | —                                       |
| 317                              | Q-13                             | —                                       | 128                              | Q-22                             | —                                       |
| 321                              | Q-42                             | Y-1T                                    | 129                              | Q-23                             | —                                       |
| 322                              | Q-43                             | —                                       | 130                              | Q-24                             | —                                       |
| 908                              | Q-107                            | X-1T                                    | 131                              | Q-25                             | —                                       |
| 911                              | Q-110                            | X-6T                                    | 132                              | Q-26                             | —                                       |
| 912                              | Q-111                            | X-5T                                    | 133                              | Q-29                             | —                                       |
| 913                              | Q-112                            | Y-18T                                   | 134                              | Q-30                             | —                                       |
| 914                              | Q-113                            | —                                       | 135                              | Q-31                             | —                                       |
| 915                              | Q-119                            | Y-21T                                   | 136                              | Q-32                             | —                                       |
| 916                              | Q-140                            | 36                                      | 137                              | Q-34                             | —                                       |
| 919                              | —                                | X-3T                                    | 138                              | Q-35                             | —                                       |
| 921                              | —                                | Y-35T                                   | 139                              | Q-36                             | —                                       |
| 04-101                           | Q-187                            | —                                       | 140                              | Q-37                             | Y-4T                                    |
| 102                              | Q-188                            | —                                       | 141                              | Q-38                             | Y-3T                                    |
| 103                              | Q-220                            | —                                       | 142                              | Q-65                             | —                                       |
| 104                              | Q-174                            | —                                       | 143                              | Q-190                            | —                                       |
| 105                              | Q-175                            | —                                       | 144                              | Q-193                            | —                                       |
| 106                              | Q-173                            | —                                       | 145                              | Q-194                            | —                                       |
| 107                              | Q-180                            | —                                       | 146                              | Q-195                            | —                                       |
| 109                              | Q-178                            | —                                       | 147                              | Q-204                            | —                                       |
| 110                              | Q-213                            | —                                       | 148                              | Q-215                            | —                                       |
| 111                              | Q-221                            | —                                       | 149                              | Q-246                            | —                                       |
| 112                              | Q-196                            | —                                       | 150                              | Q-225                            | —                                       |
| 113                              | Q-197                            | —                                       | 151                              | Q-247                            | —                                       |
| 114                              | Q-28                             | —                                       | 160                              | —                                | Y-2T                                    |
| 115                              | Q-182                            | —                                       | 201                              | Q-200                            | —                                       |
| 116                              | Q-211                            | —                                       | 202                              | Q-199                            | —                                       |
| 117                              | Q-216                            | —                                       | 203                              | Q-33                             | —                                       |
| 118                              | Q-27                             | —                                       | 204                              | Q-75                             | —                                       |
| 119                              | Q-239                            | —                                       | 205                              | Q-76                             | —                                       |
| 120                              | Q-14                             | —                                       | 206                              | Q-198                            | —                                       |
| 121                              | Q-15                             | 29                                      | 401                              | Q-189                            | —                                       |
| 122                              | Q-16                             | —                                       | 402                              | Q-172                            | —                                       |
| 123                              | Q-17                             | —                                       |                                  |                                  |   |
| 124                              | Q-18                             | —                                       |                                  |                                  |   |



Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-04-403                     | Q-90                             | —                                       | JL-49-04-441                     | Q-72                             | —                                       |
| 404                              | Q-212                            | —                                       | 442                              | Q-79                             | —                                       |
| 405                              | Q-165                            | —                                       | 443                              | Q-80                             | —                                       |
| 406                              | Q-82                             | —                                       | 444                              | Q-81                             | —                                       |
| 407                              | Q-169                            | —                                       | 445                              | Q-87                             | —                                       |
| 408                              | Q-168                            | —                                       | 446                              | Q-88                             | —                                       |
| 409                              | Q-167                            | —                                       | 447                              | Q-89                             | —                                       |
| 410                              | Q-201                            | —                                       | 448                              | Q-92                             | —                                       |
| 411                              | Q-166                            | —                                       | 450                              | Q-171                            | —                                       |
| 412                              | Q-83                             | —                                       | 451                              | Q-177                            | —                                       |
| 413                              | Q-85                             | —                                       | 452                              | Q-186                            | —                                       |
| 414                              | Q-170                            | —                                       | 458                              | —                                | Y-31T                                   |
| 415                              | Q-84                             | —                                       | 501                              | Q-73                             | —                                       |
| 416                              | Q-181                            | Y-10T                                   | 502                              | Q-74                             | —                                       |
| 417                              | Q-86                             | —                                       | 503                              | Q-77                             | —                                       |
| 418                              | Q-203                            | —                                       | 504                              | Q-78                             | —                                       |
| 419                              | Q-176                            | —                                       | 505                              | Q-191                            | —                                       |
| 420                              | Q-91                             | —                                       | 506                              | Q-192                            | —                                       |
| 421                              | Q-202                            | —                                       | 701                              | Q-121                            | 37                                      |
| 422                              | Q-205                            | —                                       | 702                              | Q-135                            | —                                       |
| 423                              | Q-206                            | —                                       | 704                              | Q-232                            | —                                       |
| 424                              | Q-207                            | —                                       | 705                              | Q-114                            | —                                       |
| 425                              | Q-214                            | —                                       | 706                              | Q-115                            | —                                       |
| 426                              | Q-208                            | —                                       | 707                              | Q-116                            | —                                       |
| 427                              | Q-210                            | —                                       | 708                              | Q-117                            | Y-20T                                   |
| 428                              | Q-209                            | —                                       | 709                              | Q-118                            | Y-19T                                   |
| 429                              | Q-237                            | —                                       | 710                              | Q-120                            | —                                       |
| 430                              | Q-235                            | —                                       | 711                              | Q-122                            | Z-7T                                    |
| 431                              | Q-236                            | —                                       | 712                              | Q-123                            | Z-5T                                    |
| 432                              | Q-217                            | —                                       | 713                              | Q-124                            | —                                       |
| 434                              | Q-64                             | Y-33T                                   | 714                              | Q-125                            | —                                       |
| 435                              | Q-66a                            | —                                       | 715                              | Q-126                            | —                                       |
| 436                              | Q-71                             | —                                       | 716                              | Q-127                            | —                                       |
| 437                              | Q-67                             | —                                       | 717                              | Q-128                            | Z-8T                                    |
| 438                              | Q-68                             | —                                       | 718                              | Q-129                            | Z-9T                                    |
| 439                              | Q-69                             | —                                       | 719                              | Q-130                            | —                                       |
| 440                              | Q-70                             | —                                       | 720                              | Q-131                            | —                                       |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-04-721                     | Q-132                            | —                                       | JL-49-05-501                     | R-63                             | —                                       |
| 722                              | Q-133                            | —                                       | 502                              | R-11                             | —                                       |
| 723                              | Q-138                            | —                                       | 503                              | R-85                             | —                                       |
| 724                              | Q-139                            | Y-23T                                   | 504                              | R-88                             | —                                       |
| 725                              | Q-179                            | —                                       | 505                              | R-91                             | —                                       |
| 726                              | Q-226                            | —                                       | 506                              | R-92                             | —                                       |
| 727                              | Q-241                            | Y-39T                                   | 507                              | R-28                             | —                                       |
| 728                              | Q-244                            | —                                       | 508                              | R-10                             | —                                       |
| 733                              | —                                | Y-32T                                   | 601                              | R-73                             | —                                       |
| 734                              | —                                | Z-6T                                    | 602                              | R-71                             | —                                       |
| 737                              | —                                | Y-34T                                   | 603                              | R-68                             | —                                       |
| 801                              | Q-228                            | —                                       | 604                              | R-70                             | —                                       |
| 901                              | Q-229                            | —                                       | 605                              | R-86                             | —                                       |
| 05-101                           | R-58                             | —                                       | 606                              | R-64                             | —                                       |
| 201                              | R-78                             | —                                       | 607                              | R-82                             | —                                       |
| 202                              | R-59                             | —                                       | 608                              | R-104                            | —                                       |
| 203                              | R-81                             | —                                       | 610                              | R-62                             | —                                       |
| 204                              | R-84                             | —                                       | 611                              | R-13                             | —                                       |
| 205                              | R-2                              | —                                       | 801                              | R-69                             | —                                       |
| 206                              | R-1                              | —                                       | 802                              | R-23                             | —                                       |
| 207                              | R-77                             | —                                       | 803                              | R-29                             | —                                       |
| 208                              | R-89                             | —                                       | 804                              | R-31                             | —                                       |
| 209                              | R-93                             | —                                       | 805                              | R-33                             | —                                       |
| 210                              | R-12                             | —                                       | 806                              | R-30                             | —                                       |
| 211                              | R-87                             | —                                       | 807                              | R-96                             | —                                       |
| 301                              | R-72                             | —                                       | 808                              | R-24                             | —                                       |
| 302                              | R-8                              | —                                       | 809                              | R-25                             | —                                       |
| 303                              | R-66                             | —                                       | 810                              | R-26                             | —                                       |
| 304                              | R-67                             | —                                       | 901                              | R-61                             | —                                       |
| 305                              | R-101                            | —                                       | 902                              | R-60                             | —                                       |
| 306                              | R-100                            | —                                       | 903                              | R-90                             | —                                       |
| 307                              | R-75                             | —                                       | 904                              | R-76                             | —                                       |
| 308                              | R-99                             | —                                       | 905                              | R-22                             | —                                       |
| 309                              | R-102                            | —                                       | 906                              | R-103                            | —                                       |
| 310                              | R-3                              | —                                       | 907                              | R-19                             | —                                       |
| 311                              | R-6                              | —                                       | 908                              | R-20                             | —                                       |
| 312                              | R-7                              | —                                       | 909                              | R-21                             | —                                       |
| 313                              | R-9                              | —                                       | 910                              | R-27                             | —                                       |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-05-911                     | R-32                             | —                                       | JL-49-12-121                     | Q-242                            | —                                       |
| 912                              | R-79                             | —                                       | 122                              | Q-243                            | —                                       |
| 06-101                           | R-95                             | —                                       | 123                              | Q-245                            | Y-27T                                   |
| 102                              | R-4                              | —                                       | 124                              | —                                | Y-73T                                   |
| 103                              | R-105                            | —                                       | 127                              | —                                | Y-62T                                   |
| 104                              | R-97                             | —                                       | 128                              | —                                | Y-61T                                   |
| 105                              | R-5                              | —                                       | 201                              | Q-230                            | —                                       |
| 201                              | S-1                              | —                                       | 202                              | Q-158                            | —                                       |
| 401                              | R-98                             | —                                       | 203                              | Q-159                            | —                                       |
| 402                              | R-94                             | —                                       | 204                              | Q-160                            | —                                       |
| 403                              | R-14                             | —                                       | 205                              | Q-161                            | —                                       |
| 501                              | S-5                              | —                                       | 206                              | Q-162                            | —                                       |
| 502                              | S-6                              | —                                       | 301                              | Q-163                            | —                                       |
| 601                              | S-8                              | —                                       | 401                              | U-1                              | —                                       |
| 602                              | S-4                              | —                                       | 402                              | U-2                              | —                                       |
| 701                              | R-83                             | —                                       | 403                              | U-3                              | —                                       |
| 702                              | R-15                             | —                                       | 404                              | U-4                              | —                                       |
| 703                              | R-16                             | —                                       | 405                              | U-5                              | —                                       |
| 704                              | R-17                             | —                                       | 406                              | U-6                              | —                                       |
| 705                              | R-18                             | —                                       | 407                              | U-7                              | —                                       |
| 12-101                           | Q-156                            | —                                       | 432                              | U-72                             | —                                       |
| 102                              | Q-137                            | Y-26T                                   | 501                              | U-23                             | 34                                      |
| 103                              | Q-153                            | —                                       | 502                              | U-11                             | —                                       |
| 104                              | Q-231                            | —                                       | 503                              | U-16                             | —                                       |
| 105                              | Q-240                            | —                                       | 510                              | U-24                             | Z-22T                                   |
| 106                              | Q-134                            | —                                       | 525                              | U-65                             | —                                       |
| 107                              | Q-136                            | —                                       | 601                              | U-71                             | —                                       |
| 108                              | Q-145                            | Y-28T                                   | 602                              | U-12                             | —                                       |
| 109                              | Q-146                            | Y-46T                                   | 603                              | U-13                             | —                                       |
| 110                              | Q-147                            | Y-30T                                   | 604                              | U-14                             | —                                       |
| 113                              | Q-150                            | —                                       | 605                              | U-15                             | —                                       |
| 114                              | Q-151                            | —                                       | 606                              | U-59                             | —                                       |
| 115                              | Q-152                            | —                                       | 607                              | U-60                             | —                                       |
| 116                              | Q-154                            | —                                       | 13-201                           | R-36                             | —                                       |
| 117                              | Q-155                            | —                                       | 202                              | R-34                             | —                                       |
| 118                              | Q-157                            | —                                       | 203                              | R-40                             | —                                       |
| 119                              | Q-222                            | —                                       | 204                              | R-56                             | —                                       |
| 120                              | Q-227                            | —                                       | 205                              | R-53                             | —                                       |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-13-206                     | R-42                             | —                                       | JL-49-13-518                     | V-37                             | —                                       |
| 207                              | R-65                             | —                                       | 519                              | V-38                             | —                                       |
| 208                              | R-35                             | —                                       | 601                              | V-5                              | —                                       |
| 209                              | R-37                             | —                                       | 602                              | V-10                             | —                                       |
| 210                              | R-38                             | —                                       | 603                              | V-150                            | —                                       |
| 211                              | R-39                             | —                                       | 604                              | V-9                              | —                                       |
| 212                              | R-41                             | —                                       | 605                              | V-7                              | —                                       |
| 213                              | R-54                             | —                                       | 606                              | V-21                             | —                                       |
| 214                              | R-55                             | —                                       | 607                              | V-19                             | —                                       |
| 301                              | R-45                             | —                                       | 608                              | V-136                            | —                                       |
| 302                              | R-46                             | —                                       | 609                              | V-93                             | —                                       |
| 303                              | R-48                             | —                                       | 610                              | V-41                             | —                                       |
| 304                              | R-52                             | —                                       | 611                              | V-11                             | —                                       |
| 305                              | R-51                             | —                                       | 612                              | V-22                             | —                                       |
| 306                              | R-50                             | —                                       | 613                              | V-42                             | —                                       |
| 307                              | R-52a                            | —                                       | 614                              | V-40                             | —                                       |
| 308                              | R-43                             | —                                       | 615                              | V-162                            | —                                       |
| 309                              | R-44                             | —                                       | 616                              | V-8                              | —                                       |
| 310                              | R-47                             | —                                       | 617                              | V-165                            | —                                       |
| 311                              | R-46a                            | —                                       | 618                              | V-39                             | —                                       |
| 401                              | V-30                             | —                                       | 619                              | V-20                             | —                                       |
| 501                              | V-2                              | —                                       | 620                              | V-12                             | —                                       |
| 502                              | V-4                              | —                                       | 621                              | V-6                              | —                                       |
| 503                              | V-25                             | —                                       | 622                              | V-198                            | —                                       |
| 504                              | V-24                             | —                                       | 623                              | V-199                            | —                                       |
| 505                              | V-23                             | —                                       | 624                              | V-200                            | —                                       |
| 506                              | V-33                             | —                                       | 701                              | V-152                            | —                                       |
| 507                              | V-26                             | —                                       | 702                              | V-59                             | —                                       |
| 508                              | V-27                             | —                                       | 703                              | V-58                             | —                                       |
| 509                              | V-28                             | —                                       | 704                              | V-54                             | —                                       |
| 510                              | V-29                             | —                                       | 705                              | V-56                             | —                                       |
| 511                              | V-140                            | —                                       | 706                              | V-57                             | —                                       |
| 512                              | V-3                              | —                                       | 709                              | V-62                             | —                                       |
| 513                              | V-1                              | —                                       | 710                              | V-167                            | —                                       |
| 514                              | V-32                             | —                                       | 711                              | V-62a                            | —                                       |
| 515                              | V-34                             | —                                       | 712                              | V-174                            | —                                       |
| 516                              | V-35                             | —                                       | 713                              | V-176                            | —                                       |
| 517                              | V-36                             | —                                       | 714                              | V-177                            | —                                       |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-13-715                     | V-178                            | —                                       | JL-49-13-905                     | V-71                             | —                                       |
| 716                              | V-55                             | —                                       | 906                              | V-72                             | —                                       |
| 717                              | V-96                             | —                                       | 907                              | V-73                             | —                                       |
| 718                              | V-156                            | —                                       | 908                              | V-81                             | —                                       |
| 719                              | V-60                             | —                                       | 909                              | V-80                             | —                                       |
| 720                              | V-64                             | —                                       | 910                              | V-94                             | —                                       |
| 721                              | V-65                             | —                                       | 911                              | V-79                             | —                                       |
| 722                              | V-66                             | —                                       | 912                              | V-82                             | —                                       |
| 723                              | V-67                             | —                                       | 913                              | V-106                            | —                                       |
| 801                              | V-53                             | —                                       | 914                              | V-145                            | —                                       |
| 802                              | V-138                            | —                                       | 915                              | V-99                             | —                                       |
| 803                              | V-52                             | —                                       | 916                              | V-103                            | —                                       |
| 804                              | V-49                             | —                                       | 917                              | V-154                            | —                                       |
| 805                              | V-45                             | —                                       | 918                              | V-153                            | A-3                                     |
| 806                              | V-50                             | —                                       | 919                              | V-163                            | —                                       |
| 807                              | V-46                             | —                                       | 920                              | V-137                            | —                                       |
| 808                              | V-69                             | —                                       | 921                              | V-166                            | —                                       |
| 809                              | V-48                             | —                                       | 922                              | V-186                            | —                                       |
| 810                              | V-45a                            | —                                       | 923                              | V-74                             | —                                       |
| 811                              | V-180                            | —                                       | 924                              | V-75                             | —                                       |
| 812                              | V-173                            | —                                       | 925                              | V-76                             | —                                       |
| 813                              | V-179                            | —                                       | 926                              | V-77                             | —                                       |
| 814                              | V-189                            | —                                       | 927                              | V-102                            | —                                       |
| 815                              | V-51                             | —                                       | 928                              | V-104                            | —                                       |
| 816                              | V-31                             | —                                       | 929                              | V-105                            | —                                       |
| 817                              | V-47                             | —                                       | 930                              | V-107                            | —                                       |
| 818                              | V-157                            | —                                       | 931                              | V-108                            | A-20                                    |
| 819                              | V-188                            | —                                       | 932                              | V-148                            | —                                       |
| 820                              | V-158                            | —                                       | 933                              | V-170                            | —                                       |
| 821                              | V-169                            | —                                       | 934                              | V-172                            | —                                       |
| 822                              | V-97                             | —                                       | 936                              | V-190                            | —                                       |
| 823                              | V-91                             | —                                       | 937                              | V-88                             | A-2                                     |
| 824                              | V-161                            | —                                       | 14-101                           | R-80                             | —                                       |
| 825                              | V-201                            | —                                       | 102                              | R-49                             | —                                       |
| 901                              | V-44                             | —                                       | 103                              | R-57                             | —                                       |
| 902                              | V-70                             | —                                       | 104                              | R-106                            | —                                       |
| 903                              | V-98                             | —                                       | 105                              | R-107                            | —                                       |
| 904                              | V-78                             | —                                       | 201                              | S-13                             | —                                       |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

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|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-14-301                     | S-14                             | —                                       | JL-49-14-712                     | V-149                            | —                                       |
| 302                              | S-12                             | —                                       | 713                              | V-151                            | —                                       |
| 401                              | V-141                            | —                                       | 714                              | V-164                            | —                                       |
| 402                              | V-142                            | —                                       | 715                              | V-187                            | —                                       |
| 403                              | V-143                            | —                                       | 716                              | V-192                            | —                                       |
| 404                              | V-15                             | —                                       | 717                              | V-193                            | —                                       |
| 405                              | V-14                             | —                                       | 718                              | V-191                            | —                                       |
| 406                              | V-159                            | —                                       | 801                              | W-6                              | —                                       |
| 407                              | V-16                             | —                                       | 802                              | W-89                             | —                                       |
| 408                              | V-13                             | —                                       | 803                              | W-90                             | —                                       |
| 409                              | V-17                             | —                                       | 15-401                           | W-3                              | —                                       |
| 410                              | V-18                             | —                                       | 402                              | W-74                             | —                                       |
| 411                              | V-43                             | —                                       | 403                              | W-91                             | —                                       |
| 412                              | V-155                            | —                                       | 701                              | W-4                              | —                                       |
| 413                              | V-194                            | —                                       | 702                              | W-5                              | —                                       |
| 414                              | V-195                            | —                                       | 801                              | W-7                              | —                                       |
| 415                              | V-197                            | —                                       | 802                              | W-92                             | —                                       |
| 416                              | V-202                            | —                                       | 901                              | X-6                              | —                                       |
| 501                              | W-1                              | —                                       | 902                              | X-12                             | —                                       |
| 502                              | W-2                              | —                                       | 21-101                           | V-168                            | —                                       |
| 503                              | W-84                             | —                                       | 102                              | V-175                            | —                                       |
| 504                              | W-83                             | —                                       | 103                              | V-61                             | —                                       |
| 505                              | W-77                             | —                                       | 301                              | V-109                            | —                                       |
| 507                              | W-75                             | —                                       | 302                              | V-110                            | —                                       |
| 601                              | W-81                             | —                                       | 303                              | V-181                            | —                                       |
| 603                              | W-80                             | —                                       | 304                              | V-182                            | —                                       |
| 608                              | W-82                             | —                                       | 305                              | V-111                            | —                                       |
| 701                              | V-139                            | —                                       | 306                              | V-171                            | —                                       |
| 702                              | V-92                             | —                                       | 307                              | V-118                            | A-7                                     |
| 703                              | V-101                            | —                                       | 308                              | V-112                            | D-30                                    |
| 704                              | V-83                             | —                                       | 22-101                           | V-129                            | A-9                                     |
| 705                              | V-100                            | —                                       | 109                              | V-87                             | A-4                                     |
| 706                              | V-144                            | —                                       | 110                              | V-114                            | —                                       |
| 707                              | V-146                            | —                                       | 111                              | V-115                            | D-1                                     |
| 708                              | V-147                            | —                                       | 112                              | V-117                            | D-26                                    |
| 709                              | V-160                            | —                                       | 113                              | V-119                            | A-14                                    |
| 710                              | V-84                             | —                                       | 114                              | V-120                            | A-13                                    |
| 711                              | V-85                             | —                                       | 115                              | V-122                            | A-18                                    |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

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|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-22-116                     | V-123                            | D-24                                    | JL-49-22-516                     | W-34                             | D-21                                    |
| 117                              | V-124                            | D-25                                    | 517                              | W-35                             | —                                       |
| 118                              | V-125                            | D-34                                    | 518                              | W-36                             | D-36                                    |
| 119                              | V-126                            | D-23                                    | 519                              | W-37                             | D-27                                    |
| 120                              | V-127                            | D-28                                    | 520                              | W-38                             | D-35                                    |
| 121                              | V-128                            | —                                       | 521                              | W-39                             | B-70                                    |
| 122                              | V-196                            | —                                       | 522                              | W-40                             | D-3                                     |
| 123                              | —                                | A-10                                    | 523                              | W-41                             | D-10                                    |
| 201                              | W-9                              | —                                       | 524                              | W-42                             | D-13                                    |
| 203                              | W-88                             | —                                       | 525                              | W-43                             | D-42                                    |
| 204                              | W-13                             | —                                       | 526                              | W-44                             | D-17                                    |
| 205                              | W-14                             | D-11                                    | 527                              | W-45                             | D-18                                    |
| 206                              | W-15                             | —                                       | 528                              | W-49                             | D-20                                    |
| 207                              | W-16                             | D-44                                    | 529                              | W-50                             | B-30                                    |
| 210                              | W-21                             | —                                       | 530                              | W-51                             | B-6                                     |
| 211                              | W-22                             | D-2                                     | 531                              | W-52                             | B-5                                     |
| 212                              | —                                | D-33                                    | 532                              | W-53                             | B-22                                    |
| 401                              | V-133                            | A-22                                    | 533                              | W-54                             | B-77                                    |
| 402                              | V-130                            | A-19                                    | 534                              | W-55                             | A-11                                    |
| 403                              | V-131                            | A-15                                    | 535                              | W-56                             | A-6                                     |
| 404                              | V-132                            | A-16                                    | 536                              | W-57                             | B-69                                    |
| 405                              | V-134                            | A-12                                    | 537                              | W-58                             | B-57                                    |
| 406                              | V-135                            | A-1                                     | 538                              | W-59                             | B-62                                    |
| 501                              | W-85                             | —                                       | 539                              | W-60                             | B-24                                    |
| 502                              | W-86                             | —                                       | 540                              | W-61                             | B-34                                    |
| 503                              | W-11                             | B-21                                    | 541                              | W-62                             | B-26                                    |
| 504                              | W-17                             | D-7                                     | 542                              | W-63                             | B-88                                    |
| 505                              | W-20                             | D-14                                    | 543                              | W-64                             | B-29                                    |
| 506                              | W-23                             | D-22                                    | 544                              | W-67                             | —                                       |
| 507                              | W-24                             | D-8                                     | 545                              | W-12                             | B-58                                    |
| 508                              | W-25                             | D-19                                    | 546                              | W-19                             | D-43                                    |
| 509                              | W-26                             | D-37                                    | 547                              | W-18                             | D-39                                    |
| 510                              | W-27                             | D-40                                    | 548                              | —                                | A-21                                    |
| 511                              | W-28                             | D-38                                    | 552                              | Y-9                              | B-61                                    |
| 512                              | W-29                             | D-32                                    | 601                              | W-87                             | —                                       |
| 513                              | W-30                             | D-12                                    | 602                              | W-33                             | D-16                                    |
| 514                              | W-31                             | D-15                                    | 603                              | W-46                             | D-4                                     |
| 515                              | W-32                             | D-29                                    | 604                              | W-47                             | D-6                                     |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

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|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-22-605                     | W-48                             | D-31                                    | JL-49-22-832                     | Y-69                             | F-12                                    |
| 606                              | W-65                             | B-8                                     | 833                              | Y-70                             | —                                       |
| 607                              | W-66                             | —                                       | 834                              | Y-71                             | F-33                                    |
| 608                              | W-68                             | B-19                                    | 835                              | Y-72                             | —                                       |
| 609                              | W-69                             | D-9                                     | 836                              | Y-90                             | F-47                                    |
| 610                              | W-70                             | B-39                                    | 837                              | Y-285                            | —                                       |
| 611                              | W-71                             | B-31                                    | 838                              | —                                | B-90                                    |
| 612                              | W-72                             | B-20                                    | 901                              | Y-11                             | B-49                                    |
| 613                              | W-76                             | —                                       | 902                              | Y-27                             | —                                       |
| 614                              | Y-3                              | B-51                                    | 903                              | Y-24                             | B-44                                    |
| 615                              | —                                | D-5                                     | 904                              | Y-25                             | B-28                                    |
| 803                              | Y-280                            | —                                       | 905                              | Y-26                             | B-36                                    |
| 805                              | Y-47                             | —                                       | 906                              | Y-28                             | B-71                                    |
| 806                              | Y-19                             | B-10                                    | 907                              | Y-29                             | B-60                                    |
| 807                              | Y-17                             | A-17                                    | 908                              | Y-30                             | B-56                                    |
| 808                              | Y-18                             | F-50                                    | 909                              | Y-31                             | B-68                                    |
| 809                              | Y-16                             | B-16                                    | 910                              | Y-32                             | B-76                                    |
| 810                              | Y-15                             | B-11                                    | 911                              | Y-33                             | B-55                                    |
| 811                              | Y-14                             | B-3                                     | 912                              | Y-34                             | B-18                                    |
| 812                              | Y-13                             | B-15                                    | 913                              | Y-35                             | B-75                                    |
| 813                              | Y-12                             | —                                       | 914                              | Y-36                             | B-78                                    |
| 814                              | Y-10                             | B-54                                    | 915                              | Y-37                             | B-94                                    |
| 816                              | Y-8                              | B-53                                    | 916                              | Y-38                             | B-35                                    |
| 817                              | Y-20                             | B-67                                    | 917                              | Y-59                             | B-64                                    |
| 818                              | Y-21                             | —                                       | 918                              | Y-60                             | B-37                                    |
| 819                              | Y-22                             | B-65                                    | 919                              | Y-78                             | B-1                                     |
| 820                              | Y-23                             | B-4                                     | 920                              | Y-48                             | B-63                                    |
| 821                              | Y-39                             | B-84                                    | 921                              | Y-49                             | B-50                                    |
| 822                              | Y-40                             | B-25                                    | 922                              | Y-50                             | B-7                                     |
| 823                              | Y-41                             | F-56                                    | 923                              | Y-51                             | B-43                                    |
| 824                              | Y-42                             | B-93                                    | 924                              | Y-52                             | B-17                                    |
| 825                              | Y-43                             | F-57                                    | 925                              | Y-53                             | B-85                                    |
| 826                              | Y-44                             | F-65                                    | 926                              | Y-54                             | —                                       |
| 827                              | Y-45                             | F-59                                    | 927                              | Y-55                             | B-38                                    |
| 828                              | Y-46                             | F-6                                     | 928                              | Y-56                             | B-48                                    |
| 829                              | Y-66                             | F-43                                    | 929                              | Y-61                             | B-13                                    |
| 830                              | Y-67                             | F-16                                    | 930                              | Y-62                             | —                                       |
| 831                              | Y-68                             | F-32                                    | 931                              | Y-63                             | B-9                                     |



Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-22-932                     | Y-64                             | B-59                                    | JL-49-30-306                     | Y-85                             | E-33                                    |
| 933                              | Y-73                             | F-8                                     | 307                              | Y-86                             | F-52                                    |
| 934                              | Y-74                             | B-74                                    | 308                              | Y-88                             | F-14                                    |
| 935                              | Y-75                             | B-2                                     | 309                              | Y-89                             | F-51                                    |
| 936                              | Y-76                             | B-27                                    | 310                              | Y-93                             | F-15                                    |
| 937                              | Y-77                             | B-46                                    | 311                              | Y-94                             | F-69                                    |
| 938                              | Y-87                             | F-2                                     | 312                              | Y-103                            | C-44                                    |
| 940                              | Y-65                             | B-14                                    | 313                              | Y-104                            | F-7                                     |
| 943                              | —                                | B-95                                    | 314                              | Y-105                            | F-36                                    |
| 945                              | —                                | B-91                                    | 315                              | Y-106                            | F-31                                    |
| 23-201                           | W-8                              | —                                       | 316                              | Y-110                            | F-44                                    |
| 301                              | X-7                              | —                                       | 317                              | Y-111                            | F-29                                    |
| 302                              | X-14                             | —                                       | 318                              | Y-112                            | F-17                                    |
| 501                              | W-10                             | —                                       | 319                              | Y-113                            | F-5                                     |
| 601                              | X-10                             | —                                       | 320                              | Y-115                            | F-4                                     |
| 701                              | Y-283                            | —                                       | 321                              | Y-116                            | C-17                                    |
| 702                              | Y-277                            | —                                       | 322                              | Y-117                            | C-48                                    |
| 703                              | Y-57                             | B-40                                    | 323                              | Y-118                            | C-43                                    |
| 704                              | Y-58                             | B-45                                    | 324                              | Y-119                            | C-15                                    |
| 705                              | Y-79                             | B-12                                    | 325                              | Y-130                            | F-53                                    |
| 801                              | Y-1                              | —                                       | 326                              | Y-131                            | F-58                                    |
| 24-201                           | X-8                              | —                                       | 327                              | Y-132                            | F-20                                    |
| 202                              | X-9                              | —                                       | 328                              | Y-133                            | F-21                                    |
| 401                              | X-11                             | —                                       | 329                              | Y-134                            | F-30                                    |
| 402                              | X-13                             | —                                       | 330                              | Y-135                            | F-48                                    |
| 403                              | X-15                             | —                                       | 331                              | Y-136                            | F-27                                    |
| 601                              | Z-1                              | —                                       | 332                              | Y-137                            | F-38                                    |
| 801                              | Z-2                              | —                                       | 333                              | Y-138                            | F-11                                    |
| 30-201                           | Y-91                             | F-64                                    | 334                              | Y-139                            | C-58                                    |
| 202                              | Y-92                             | F-24                                    | 335                              | Y-150                            | F-13                                    |
| 203                              | Y-107                            | F-46                                    | 336                              | Y-151                            | F-35                                    |
| 204                              | Y-108                            | F-25                                    | 337                              | Y-152                            | F-19                                    |
| 205                              | Y-109                            | —                                       | 338                              | Y-153                            | F-1                                     |
| 206                              | —                                | F-10                                    | 339                              | —                                | C-64a                                   |
| 302                              | Y-114                            | —                                       | 340                              | —                                | C-57                                    |
| 303                              | Y-281                            | —                                       | 601                              | Y-169                            | —                                       |
| 304                              | Y-83                             | E-6                                     | 602                              | Y-197                            | —                                       |
| 305                              | Y-84                             | E-48                                    | 603                              | Y-154                            | F-49                                    |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-30-604                     | Y-170                            | F-45                                    | JL-49-31-123                     | Y-140                            | C-13                                    |
| 605                              | Y-171                            | F-26                                    | 124                              | Y-141                            | E-42                                    |
| 606                              | Y-172                            | F-22                                    | 125                              | Y-142                            | E-41                                    |
| 607                              | Y-173                            | F-9                                     | 126                              | Y-143                            | E-13                                    |
| 608                              | Y-174                            | F-18                                    | 127                              | Y-144                            | E-55                                    |
| 609                              | Y-175                            | F-40                                    | 128                              | Y-146                            | E-8                                     |
| 610                              | Y-176                            | F-54                                    | 129                              | Y-147                            | E-9                                     |
| 611                              | Y-177                            | C-56                                    | 130                              | Y-148                            | E-14                                    |
| 612                              | Y-4                              | F-23                                    | 131                              | Y-149                            | C-36                                    |
| 613                              | Y-220                            | F-63                                    | 132                              | Y-284                            | —                                       |
| 614                              | Y-198                            | F-41                                    | 134                              | —                                | C-14                                    |
| 615                              | Y-199                            | —                                       | 136                              | —                                | E-67                                    |
| 616                              | Y-200                            | F-39                                    | 138                              | —                                | E-65                                    |
| 617                              | Y-201                            | F-55                                    | 201                              | Y-278                            | —                                       |
| 618                              | Y-202                            | F-42                                    | 202                              | Y-145                            | —                                       |
| 621                              | —                                | F-67                                    | 203                              | Y-2                              | —                                       |
| 31-101                           | Y-282                            | —                                       | 301                              | Z-4                              | —                                       |
| 102                              | Y-80                             | B-72                                    | 401                              | Y-221                            | F-34                                    |
| 103                              | Y-81                             | B-23                                    | 402                              | Y-155                            | C-34                                    |
| 104                              | Y-82                             | B-66                                    | 403                              | Y-156                            | C-35                                    |
| 105                              | Y-95                             | —                                       | 404                              | Y-157                            | E-44                                    |
| 106                              | Y-96                             | B-41                                    | 405                              | Y-158                            | E-46                                    |
| 107                              | Y-97                             | —                                       | 406                              | Y-159                            | E-57                                    |
| 108                              | Y-98                             | B-80                                    | 407                              | Y-162                            | E-43                                    |
| 109                              | Y-99                             | B-47                                    | 408                              | Y-163                            | E-7                                     |
| 110                              | Y-100                            | —                                       | 409                              | Y-164                            | E-12                                    |
| 111                              | Y-101                            | E-52                                    | 410                              | Y-165                            | C-18                                    |
| 112                              | Y-102                            | E-4                                     | 411                              | Y-166                            | C-46                                    |
| 113                              | Y-120                            | E-5                                     | 412                              | Y-167                            | C-47                                    |
| 114                              | Y-121                            | E-3                                     | 413                              | Y-168                            | C-45                                    |
| 115                              | Y-122                            | E-18                                    | 414                              | Y-178                            | C-51                                    |
| 116                              | Y-123                            | E-17                                    | 415                              | Y-179                            | C-1                                     |
| 117                              | Y-124                            | B-82                                    | 416                              | Y-180                            | C-32                                    |
| 118                              | Y-125                            | B-32                                    | 417                              | Y-181                            | C-8                                     |
| 119                              | Y-126                            | B-89                                    | 418                              | Y-182                            | C-7                                     |
| 120                              | Y-127                            | B-33                                    | 419                              | Y-183                            | C-25                                    |
| 121                              | Y-128                            | E-39                                    | 420                              | Y-184                            | E-47                                    |
| 122                              | Y-129                            | E-21                                    | 422                              | Y-186                            | E-51                                    |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-31-423                     | Y-194                            | E-63                                    | JL-49-31-521                     | Y-216                            | C-53                                    |
| 424                              | Y-195                            | E-38                                    | 522                              | Y-6                              | E-1                                     |
| 425                              | Y-196                            | C-39                                    | 523                              | Y-185                            | E-49                                    |
| 426                              | Y-203                            | F-37                                    | 524                              | —                                | E-69                                    |
| 427                              | Y-204                            | F-3                                     | 526                              | —                                | E-60                                    |
| 428                              | Y-205                            | C-33                                    | 527                              | Y-230                            | E-31                                    |
| 429                              | Y-218                            | C-40                                    | 528                              | —                                | E-61                                    |
| 430                              | Y-219                            | C-38                                    | 529                              | —                                | E-62                                    |
| 431                              | Y-222                            | F-28                                    | 601                              | Z-13                             | —                                       |
| 432                              | Y-225                            | C-37                                    | 701                              | Y-265                            | G-53                                    |
| 433                              | Y-5                              | C-2                                     | 702                              | Y-223                            | C-28                                    |
| 434                              | Y-279                            | —                                       | 703                              | Y-224                            | C-29                                    |
| 435                              | —                                | C-55                                    | 704                              | Y-226                            | C-30                                    |
| 438                              | —                                | E-64                                    | 705                              | Y-7                              | —                                       |
| 439                              | —                                | E-37                                    | 706                              | Y-240                            | G-43                                    |
| 441                              | —                                | C-64b                                   | 707                              | Y-241                            | G-80                                    |
| 443                              | —                                | C-61                                    | 708                              | Y-242                            | G-42                                    |
| 444                              | —                                | E-58                                    | 709                              | Y-243                            | G-41                                    |
| 501                              | Y-217                            | C-31                                    | 710                              | Y-239                            | G-45                                    |
| 502                              | Y-160                            | E-45                                    | 711                              | Y-244                            | G-46                                    |
| 503                              | Y-161                            | E-35                                    | 712                              | Y-245                            | G-47                                    |
| 504                              | Y-187                            | E-11                                    | 713                              | Y-246                            | G-48                                    |
| 505                              | Y-188                            | E-34                                    | 714                              | Y-247                            | G-49                                    |
| 506                              | Y-189                            | —                                       | 715                              | Y-248                            | G-50                                    |
| 507                              | Y-190                            | E-53                                    | 716                              | Y-266                            | —                                       |
| 508                              | Y-191                            | E-10                                    | 717                              | Y-267                            | G-52                                    |
| 509                              | Y-193                            | E-50                                    | 718                              | —                                | G-44                                    |
| 510                              | Y-192                            | E-54                                    | 719                              | —                                | G-98                                    |
| 511                              | Y-206                            | E-40                                    | 720                              | —                                | G-104                                   |
| 512                              | Y-207                            | E-15                                    | 721                              | —                                | G-103                                   |
| 513                              | Y-208                            | E-28                                    | 722                              | —                                | G-99                                    |
| 514                              | Y-209                            | E-2                                     | 723                              | —                                | G-1                                     |
| 515                              | Y-210                            | E-29                                    | 801                              | Y-231                            | E-23                                    |
| 516                              | Y-211                            | E-20                                    | 802                              | Y-227                            | C-24                                    |
| 517                              | Y-212                            | E-19                                    | 803                              | Y-228                            | —                                       |
| 518                              | Y-213                            | E-30                                    | 804                              | Y-229                            | C-21                                    |
| 519                              | Y-214                            | C-22                                    | 806                              | Y-232                            | E-24                                    |
| 520                              | Y-215                            | E-56                                    | 807                              | Y-233                            | E-25                                    |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-31-808                     | Y-234                            | E-16                                    | JL-49-31-901                     | Z-9                              | —                                       |
| 809                              | Y-235                            | C-16                                    | 902                              | Z-12                             | —                                       |
| 810                              | Y-236                            | C-50                                    | 903                              | Z-10                             | E-26                                    |
| 811                              | Y-237                            | C-41                                    | 904                              | Z-11                             | E-22                                    |
| 812                              | Y-238                            | C-49                                    | 905                              | Z-15                             | —                                       |
| 813                              | Y-249                            | C-4                                     | 906                              | —                                | E-59                                    |
| 814                              | Y-250                            | C-5                                     | 907                              | —                                | E-36                                    |
| 815                              | Y-251                            | C-11                                    | 32-101                           | Z-3                              | —                                       |
| 816                              | Y-252                            | C-19                                    | 102                              | Z-17                             | —                                       |
| 817                              | Y-253                            | C-10                                    | 301                              | Z-5                              | —                                       |
| 818                              | Y-257                            | C-42                                    | 501                              | Z-6                              | —                                       |
| 819                              | Y-258                            | C-9                                     | 505                              | Z-16                             | —                                       |
| 820                              | Y-259                            | C-6                                     | 701                              | Z-14                             | —                                       |
| 821                              | Y-260                            | C-23                                    | 702                              | Z-7                              | —                                       |
| 822                              | Y-261                            | C-52                                    | 901                              | Z-8                              | —                                       |
| 823                              | Y-262                            | C-3                                     | 39-101                           | AA-3                             | G-62                                    |
| 824                              | Y-263                            | G-84                                    | 102                              | AA-4                             | G-13                                    |
| 825                              | Y-264                            | G-82                                    | 103                              | AA-17                            | G-61                                    |
| 826                              | Y-254                            | C-26                                    | 104                              | AA-18                            | G-11                                    |
| 827                              | Y-255                            | G-27                                    | 105                              | AA-16                            | G-14                                    |
| 828                              | Y-256                            | H-32                                    | 106                              | AA-19                            | G-12                                    |
| 829                              | Y-268                            | G-63                                    | 107                              | AA-30                            | G-15                                    |
| 830                              | Y-269                            | —                                       | 108                              | —                                | G-102                                   |
| 831                              | Y-271                            | G-21                                    | 202                              | AA-34                            | G-101                                   |
| 832                              | Y-272                            | G-93                                    | 203                              | AA-6                             | —                                       |
| 833                              | Y-270                            | G-22                                    | 204                              | AA-1                             | G-77                                    |
| 834                              | Y-273                            | G-37                                    | 205                              | AA-24                            | G-4                                     |
| 835                              | Y-274                            | G-36                                    | 206                              | AA-32                            | G-91                                    |
| 836                              | Y-275                            | G-35                                    | 207                              | AA-37                            | —                                       |
| 837                              | Y-276                            | G-56                                    | 208                              | AA-33                            | —                                       |
| 838                              | —                                | G-20                                    | 211                              | AA-8                             | G-57                                    |
| 839                              | —                                | G-97                                    | 212                              | AA-7                             | G-90                                    |
| 840                              | —                                | G-2                                     | 213                              | AA-23                            | G-58                                    |
| 841                              | —                                | E-68                                    | 214                              | AA-26                            | G-64                                    |
| 843                              | —                                | C-59                                    | 215                              | AA-9                             | G-89                                    |
| 844                              | —                                | C-60                                    | 216                              | AA-10                            | G-39                                    |
| 845                              | —                                | C-66                                    | 217                              | AA-11                            | G-38                                    |
| 846                              | —                                | C-66                                    | 218                              | AA-12                            | G-23                                    |

Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued

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|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-39-219                     | AA-13                            | G-25                                    | JL-49-39-327                     | BB-31                            | G-75                                    |
| 220                              | AA-14                            | G-92                                    | 328                              | BB-32                            | G-68                                    |
| 221                              | AA-15                            | G-86                                    | 329                              | BB-33                            | G-67                                    |
| 222                              | AA-20                            | G-9                                     | 330                              | BB-34                            | G-95                                    |
| 223                              | AA-21                            | G-8                                     | 331                              | BB-35                            | G-19                                    |
| 224                              | AA-22                            | G-33                                    | 332                              | BB-36                            | G-73                                    |
| 225                              | AA-27                            | G-7                                     | 333                              | BB-37                            | G-72                                    |
| 226                              | AA-28                            | G-60                                    | 334                              | BB-1                             | —                                       |
| 227                              | AA-29                            | G-59                                    | 335                              | BB-38                            | H-25                                    |
| 228                              | AA-31                            | —                                       | 336                              | —                                | G-85                                    |
| 229                              | AA-2                             | G-54                                    | 337                              | —                                | G-69                                    |
| 230                              | AA-35                            | G-70                                    | 338                              | —                                | G-76                                    |
| 231                              | AA-36                            | G-3                                     | 342                              | —                                | G-5                                     |
| 233                              | —                                | G-109                                   | 343                              | AA-25                            | G-40                                    |
| 235                              | —                                | G-96                                    | 501                              | —                                | G-88                                    |
| 302                              | BB-5                             | G-74                                    | 601                              | BB-2                             | G-66                                    |
| 303                              | BB-6                             | —                                       | 602                              | BB-54                            | G-27                                    |
| 304                              | BB-7                             | —                                       | 603                              | BB-60                            | —                                       |
| 307                              | BB-10                            | G-83                                    | 604                              | —                                | G-71                                    |
| 308                              | BB-11                            | G-51                                    | 605                              | —                                | G-94                                    |
| 309                              | BB-12                            | G-6                                     | 606                              | —                                | G-79                                    |
| 310                              | BB-13                            | H-9                                     | 607                              | —                                | G-78                                    |
| 311                              | BB-14                            | H-67                                    | 608                              | —                                | G-55                                    |
| 312                              | BB-15                            | —                                       | 609                              | —                                | G-81                                    |
| 313                              | BB-16                            | —                                       | 610                              | —                                | G-105                                   |
| 314                              | BB-17                            | —                                       | 611                              | —                                | G-107                                   |
| 315                              | BB-18                            | H-46                                    | 613                              | —                                | G-106                                   |
| 316                              | BB-19                            | G-31                                    | 614                              | —                                | G-29                                    |
| 317                              | BB-20                            | G-30                                    | 615                              | —                                | G-26                                    |
| 318                              | BB-21                            | G-103                                   | 616                              | —                                | G-28                                    |
| 319                              | BB-22                            | G-17                                    | 617                              | —                                | G-65                                    |
| 320                              | BB-23                            | G-16                                    | 618                              | —                                | G-18                                    |
| 321                              | BB-24                            | H-55                                    | 40-101                           | BB-26                            | H-41                                    |
| 322                              | BB-25                            | H-36                                    | 102                              | BB-39                            | H-35                                    |
| 323                              | BB-27                            | H-24                                    | 103                              | BB-40                            | —                                       |
| 324                              | BB-28                            | H-7                                     | 104                              | BB-41                            | —                                       |
| 325                              | BB-29                            | H-11                                    | 105                              | BB-47                            | —                                       |
| 326                              | BB-30                            | G-24                                    | 106                              | —                                | H-10                                    |

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|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| JL-49-40-402                     | BB-50                            | —                                       | JL-49-40-708                     | —                                | H-63                                    |
| 403                              | —                                | H-45                                    | 709                              | —                                | H-64                                    |
| 404                              | BB-52                            | —                                       | 710                              | —                                | H-71                                    |
| 405                              | BB-46                            | —                                       | 801                              | BB-43                            | —                                       |
| 406                              | BB-55                            | —                                       | 802                              | BB-53                            | —                                       |
| 408                              | BB-3                             | H-19                                    | 803                              | BB-51                            | —                                       |
| 411                              | —                                | H-59                                    | 804                              | —                                | H-37                                    |
| 413                              | —                                | H-69                                    | 805                              | —                                | H-39                                    |
| 414                              | —                                | H-56                                    | 806                              | —                                | H-38                                    |
| 415                              | —                                | H-23                                    | 808                              | —                                | H-27                                    |
| 416                              | —                                | H-62                                    | 809                              | —                                | H-29                                    |
| 417                              | —                                | H-43                                    | 810                              | —                                | H-72                                    |
| 418                              | —                                | H-49                                    | 811                              | —                                | H-73                                    |
| 419                              | —                                | H-50                                    | 812                              | —                                | H-74                                    |
| 420                              | —                                | H-34                                    | 813                              | —                                | H-57                                    |
| 421                              | —                                | H-60                                    | 814                              | —                                | H-3                                     |
| 422                              | —                                | H-47                                    | 815                              | —                                | H-2                                     |
| 423                              | —                                | H-48                                    | 816                              | —                                | H-42                                    |
| 428                              | —                                | H-51                                    | 817                              | —                                | H-40                                    |
| 429                              | —                                | H-18                                    | 901                              | BB-57                            | H-8                                     |
| 430                              | —                                | H-54                                    | 902                              | —                                | H-58                                    |
| 431                              | —                                | H-53                                    | 903                              | —                                | H-78                                    |
| 432                              | —                                | H-52                                    |                                  |                                  |   |
| 433                              | —                                | H-30                                    |                                  |                                  |   |
| 435                              | —                                | H-32                                    | PD-48-34-801                     | V-1                              | —                                       |
| 436                              | —                                | H-31                                    | 41-201                           | U-9                              | —                                       |
| 502                              | BB-59                            | —                                       | 202                              | U-1                              | —                                       |
| 503                              | BB-49                            | —                                       | 601                              | AA-1                             | —                                       |
| 507                              | —                                | H-13                                    | 602                              | AA-4                             | —                                       |
| 508                              | —                                | H-76                                    | 42-401                           | AA-2                             | —                                       |
| 509                              | —                                | H-77                                    | 701                              | AA-3                             | —                                       |
| 510                              | —                                | H-5                                     | 702                              | AA-38                            | —                                       |
| 601                              | BB-42                            | —                                       | 703                              | AA-5                             | —                                       |
| 701                              | BB-56                            | H-33                                    | 705                              | AA-47                            | —                                       |
| 704                              | —                                | H-66                                    | 801                              | AA-40                            | —                                       |
| 705                              | —                                | H-1                                     | 802                              | AA-41                            | —                                       |
| 706                              | —                                | H-4                                     | 50-201                           | AA-7 or 8                        | —                                       |
| 707                              | —                                | H-6                                     | 302                              | AA-42                            | —                                       |

Hudspeth County

**Table 4.—Cross-Reference to Well Numbers Used in Previous Studies by Other Agencies—Continued**

| Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number | Well number<br>in this<br>report | U.S. Geological<br>Survey number | U.S. Bureau of<br>Reclamation<br>number |
|----------------------------------|----------------------------------|---|----------------------------------|----------------------------------|---|
| PD-48-50-303                     | AA-44                            | —                                       | PD-48-51-802                     | FF-1                             | —                                       |
| 601                              | AA-12                            | —                                       | 60-401                           | FF-2                             | —                                       |
| 51-401                           | AA-43                            | —                                       |                                  |                                  |   |

Table 5.--Records of Selected Wells

All wells are drilled unless otherwise noted in remarks column.  
 Water level : Reported water levels given in feet; measured water levels given to the nearest tenth or hundredth of a foot.  
 Method of lift and type of power: A, airlift; C, cylinder; Cf, centrifugal; E, electric; G, gasoline, butane, or diesel engine; J, jet; N, none;  
 Ng, natural gas; Sub, submersible; T, turbine; W, windmill.  
 Use of water : D, domestic; Ind., industrial; Irr., irrigation; N, none; P, public supply; S, stock.  
 Water-bearing unit : Qal Rg, Rio Grande alluvium; Qtal 6, Hueco bolson; Qtal 8, Mesilla bolson.

| Well           | Owner                      | Driller                    | Date completed | Casing             |                |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|----------------|----------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                |                            |                            |                | Depth of well (ft) | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County |                            |                            |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-48-33-701   | John O. Bailey             | -- Daugherty               | 1948           | 110                | 16<br>14       | 68<br>130  | Qal Rg             | 3,558                         | 8<br>3.52                     | Aug. 3, 1948<br>Jan. 12, 1977  | T, G           | Irr          | Abandoned. Reported yield 1,200 gpm. Observation well. <u>3</u>  |
| * 703          | City of El Paso            | Public Service Board       | 1959           | --                 | 6-3/4          | --         | --                 | 3,560                         | --                            | --                             | N              | N            | Abandoned test hole. <u>2</u>  |
| 704            | John O. Bailey             | Miller Drilling Company    | 1952           | 179                | 18             | 179        | Qal Rg             | 3,561                         | 5.05<br>4.57                  | Mar. 9, 1953<br>Nov. 5, 1973   | T, G           | Irr          | Slotted from 40-174 ft. Gravel packed. Pump set at 100 ft. Estimated yield 1,200 gpm. <u>1</u>           |
| 705            | do                         | Fred Scroggins             | 1959           | 150                | 16             | 150        | Qal Rg             | 3,559                         | 6.8                           | Feb. 23, 1962                  | T, G           | Irr          | Slotted from 40-150 ft. Gravel packed. Pump set at 100 ft. Reported yield 1,100 gpm.                     |
| 706            | do                         | --                         | 1965           | 130                | 12             | --         | Qtal 6             | 3,580                         | 25.02                         | Nov. 6, 1973                   | N              | Irr          | Not used. Gravel packed.   |
| 708            | George Kurita Well 2       | --                         | 1968           | 140                | 16-5/8         | 140        | Qal Rg             | 3,559                         | 6.50                          | Nov. 5, 1973                   | T, G           | Irr          | Slotted from 40-140 ft. Gravel packed. Pump set at 70 ft.  |
| 709            | Jesus Cano                 | -- Schieffer               | --             | 130                | 17             | --         | Qal Rg             | 3,561                         | 4.92                          | Nov. 6, 1973                   | T, G           | Irr          | Gravel packed.   |
| 710            | do                         | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,560                         | 5.95                          | do                             | N              | N            | Not used. Gravel packed.   |
| 49-03-303      | D. Greenwood               | Wheeler Cass               | 1965           | 80                 | 16             | 80         | Qal Rg             | 3,787                         | 11.20<br>10.91                | Dec. 29, 1967<br>Mar. 14, 1975 | T, G           | Irr          | Perforated from 35-80 ft. Yield 1,400 gpm. <u>3</u>  |
| 317            | M. Baca                    | --                         | --             | 103                | 16             | --         | Qal Rg             | 3,782                         | 5.63<br>4.6                   | Jan. 11, 1952<br>Jan. 13, 1959 | T, G           | Irr          | <u>3</u>   |
| * 321          | D. Greenwood               | Boyd & Bering              | 1951           | 122                | 22             | 122        | Qal Rg             | 3,789                         | 11.56                         | Feb. 13, 1953                  | T, G           | Irr          | Slotted from 42-122 ft. Gravel-walled. Pump set at 70 ft. Reported yield 2,060 gpm. Temp. 70°F. <u>4</u> |
| * 322          | U.S. Geological Survey     | B & W Drilling Company     | 1953           | 1,206              | 6              | --         | Qtal 8             | 3,787                         | 12.8                          | Nov. 13, 1953                  | N              | N            | Test well. Electric log and drill-stem tests indicate fresh water extends to depth of well. <u>1/2</u>   |
| * 908          | H. C. Mandell              | George McKenzie            | 1951           | 125                | 16             | 125        | Qal Rg             | 3,763                         | --                            | --                             | T, Ng          | Irr          | Perforated from 74-125 ft. Temp. 71°F. <u>4</u>  |
| 911            | A. Appelzoller             | --                         | 1950           | --                 | --             | --         | --                 | 3,760                         | --                            | --                             | T, Ng          | Irr          | <u>4</u>   |
| 912            | C. M. Tallmon              | George McKenzie            | 1951           | 100                | 16             | 100        | Qal Rg             | 3,760                         | 13.65<br>7.7                  | Mar. 26, 1952<br>Jan. 13, 1959 | T, G           | Irr          | Perforated from 52-100 ft. Pump set at 80 ft. <u>3/4</u>   |
| 913            | Will Holt                  | do                         | 1952           | 104                | 20             | 104        | Qal Rg             | 3,765                         | 8.1                           | Mar. 15, 1975                  | T, G           | Irr          | Perforated from 44-104 ft. Pump set at 80 ft. Gravel-walled. <u>4</u>                                    |
| 914            | H. L. Cordell              | Wheeler Cass               | --             | 130                | 16             | --         | Qal Rg             | 3,768                         | 10.2<br>9.62                  | Feb. 19, 1953<br>Mar. 16, 1975 | T, Ng          | Irr          | Pump set at 80 ft. Gravel-walled. <u>3</u>   |
| * 915          | O. C. Cole                 | George McKenzie            | 1951           | 72                 | --             | --         | Qal Rg             | 3,761                         | 9.7                           | Feb. 19, 1953                  | T, Ng          | Irr          | Gravel-walled. Yield 1,000 gpm. Temp. 67°F. <u>4</u>   |
| 916            | U.S. Bureau of Reclamation | U.S. Bureau of Reclamation | 1945           | 20                 | 2-1/2          | 20         | Qal Rg             | 3,756                         | 6.7<br>5.8                    | Jan. 1946<br>Dec. 1976         | N              | N            | Sugar hole, galvanized iron casing. Observation well.  |
| 919            | Will Holt                  | --                         | --             | --                 | --             | --         | --                 | 3,766                         | --                            | --                             | T, Ng          | Irr          | <u>4</u>   |
| 920            | do                         | --                         | --             | --                 | 9              | --         | --                 | 3,767                         | --                            | --                             | T, Ng          | Irr          | --   |
| 921            | do                         | --                         | --             | --                 | --             | --         | --                 | 3,761                         | --                            | --                             | T, Ng          | Irr          | <u>4</u>   |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                    | Driller                       | Date completed | Depth of well (ft) | Casing             |                     | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                 | Method of lift | Use of water | Remarks  |
|---------------------------|--------------------------|-------------------------------|----------------|--------------------|--------------------|---------------------|--------------------|-------------------------------|-------------------------------|---------------------------------|----------------|--------------|--|
|                           |                          |                               |                |                    | Diameter (in.)     | Depth (ft)          |                    |                               | Below land-surface datum (ft) | Date of measurement             |                |              |  |
| El Paso County--Continued |                          |                               |                |                    |                    |                     |                    |                               |                               |                                 |                |              |  |
| JL-49-03-922              | Fred Weldon              | --                            | --             | 100                | --                 | --                  | Qal Rg             | 3,766                         | --                            | --                              | --             | D            | Temp. 68°F.  |
| 04-101                    | City of Anthony Well 1   | Layne-Texas Company           | 1954           | 277                | 10-3/4             | 277                 | Qcal 8             | 3,860                         | 69.5                          | --                              | T, E           | P            | Screened from 145-160, 205-230, and 240-265 ft. Drawdown reported 38 ft after pumping 350 gpm. Supply used for standby.  |
| 102                       | City of Anthony Well 2   | do                            | 1954           | 260                | 10-3/4             | 260                 | Qcal 8             | 3,850                         | 79.0                          | --                              | T, E           | P            | Screened from 147-170, 221-226, and 239-254 ft. Drawdown reported 36 ft after 3 hours pumping 300 gpm. Drilled to 287 ft and plugged back to 260 ft. Supply used for standby. <u>Y</u>                               |
| *                         | 103                      | Mountain Pass Canning Company | 1965           | 559                | 20<br>14           | --<br>--            | Qcal 8             | 3,792                         | 49.0                          | July 21, 1965                   | T, E           | Ind          | Yield 2,400 gpm. <u>Y</u>  |
| *                         | 104                      | City of El Paso Well 203      | 1956           | 1,150              | 24<br>18<br>12     | 646<br>500<br>1,150 | Qcal 8             | 3,778                         | 24.88<br>141.85               | Aug. 5, 1957<br>Jan. 22, 1974   | T, E           | P            | Screened from 650-1,150 ft. Drawdown 100 ft after 24 hours pumping 2,500 gpm on Aug. 12, 1957. Pump set at 150 ft. Drilled to 1,160 ft. Deepened to 1,277 ft. and plugged back to 1,150 ft. Temp. 94°F. <u>Y Y Y</u> |
| *                         | 105                      | City of El Paso Well 204      | 1956           | 950                | --                 | --                  | Qcal 8             | 3,775                         | 39.3<br>37.86                 | May 26, 1958<br>Feb. 16, 1973   | T, E           | P            | Screened from 544-950 ft. underreamed from 533-950 ft. Drawdown 106 ft after 36 hours pumping 2,020 gpm on May 28, 1958. Drilled to 1,230 ft and plugged back to 950 ft. Temp. 91°F. <u>Y Y Y</u>                    |
| +                         | 106                      | City of El Paso Well 202      | 1956           | 1,090              | 24<br>18<br>12     | 576<br>544<br>1,090 | Qcal 8             | 3,774                         | 6.77<br>64.18                 | Aug. 28, 1951<br>Jan. 22, 1974  | T, E           | P            | Screened from 544-1,090 ft. Drawdown 97 ft after 96 hours pumping 2,043 gpm on June 15, 1957. Pump set at 150 ft. Drilled to 1,262 ft and plugged back to 1,090 ft. Temp. 95°F. <u>Y Y Y</u>                         |
| +                         | 107                      | City of El Paso Well 301      | 1957           | 550                | 18                 | 550                 | Qcal 8             | 3,774                         | 14.55<br>28.82                | Aug. 26, 1957<br>Jan. 22, 1976  | T, E           | P            | Screened from 285-550 ft. Drawdown 157 ft after 24 hours pumping 2,200 gpm on Sept. 5, 1957. Temp. 81°F. <u>Y</u>  |
| *                         | 109                      | City of El Paso Well 205      | 1957           | 1,705              | --                 | --                  | Qcal 8             | 3,790                         | --                            | --                              | N              | N            | Test well. <u>Y Y</u>  |
| 110                       | City of El Paso Well 309 | do                            | 1964           | 527                | 24<br>18           | 200<br>506          | Qcal 8             | 3,784                         | 29.9<br>21.12                 | Sept. 17, 1964<br>Jan. 22, 1976 | T, E           | P            | Screened from 209-506 ft. Drawdown 104 ft after 24 hours pumping 2,100 gpm on Sept. 17, 1964. <u>Y</u>   |
| *                         | 111                      | City of El Paso               | 1966           | 1,061              | 4-1/2              | 1,061               | Qcal 8             | 3,776                         | 58.7<br>41.90                 | May 26, 1966<br>July 22, 1977   | N              | N            | Slotted from 740-860 and 980-1,061 ft. Observation well. <u>Y Y</u>  |
| 112                       | City of El Paso Well 114 | do                            | 1960           | 260                | 24<br>18           | 80<br>260           | Qcal 8             | 3,795                         | 25.39<br>23.37                | Nov. 28, 1966<br>Mar. 4, 1977   | N              | N            | Screened from 90-260 ft and 36-in. underream from 80-260 ft. Measured yield 800 gpm on Feb. 3, 1960. <u>Y</u>  |
| 113                       | City of El Paso Well 206 | do                            | 1960           | 1,206              | 24<br>18<br>12-3/4 | --<br>--<br>--      | Qcal 8             | 3,783                         | 48.08<br>58.36                | May 2, 1960<br>Jan. 22, 1976    | T, E           | P            | Drawdown 93 ft after 24 hours pumping 2,090 gpm on May 2, 1960. Temp. 95°F. <u>Y</u>   |
| *                         | 114                      | U.S. Bureau of Prisons Well 4 | 1937           | 252                | 24<br>12           | 155<br>252          | Qcal 8             | 3,880                         | 97.47<br>100.9                | Oct. 12, 1937<br>Jan. 16, 1952  | T, E           | D, P, Ind    | Screened from 158-246 ft and underreamed from 155-252 ft. Gravel-sailed. Drawdown 37 ft after 25 hours pumping 660 gpm on Oct. 13, 1937. Temp. 76°F. <u>Y</u>  |
| +                         | 115                      | City of El Paso               | 1957           | 202                | 6                  | 202                 | Qal Rg             | 3,776                         | 9.04<br>17.09                 | Sept. 21, 1957<br>July 22, 1977 | N              | N            | Screened from 102-202 ft. Canucillo recorder 4. Observation well. <u>Y</u>   |
| 116                       | do                       | do                            | 1964           | 279                | 24<br>18           | 161<br>278          | Qcal 8             | 3,781                         | 25.40                         | July 13, 1964                   | T, E           | P            | Screened from 169-278 ft. Drawdown 110 ft after 24 hours pumping 1,225 gpm on July 14, 1964. <u>Y</u>  |
| *                         | 117                      | U.S. Bureau of Prisons        | 1964           | 452                | 18                 | 336                 | Qcal 8             | 3,822                         | 90                            | Dec. 1964                       | T, E           | D, P, Irr    | Screened from 146-336 ft. Drawdown 52 ft after 24 hours pumping 1,850 gpm in Dec. 1964. <u>Y</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                         | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                 | Method of lift | Use of water | Remarks  |
|---------------------------|-------------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|---------------------------------|----------------|--------------|--|
|                           |                               |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement             |                |              |  |
| El Paso County--Continued |                               |                            |                |                    |                |            |                    |                               |                               |                                 |                |              |  |
| * JL-49-04-118            | U.S. Bureau of Prisons        | Wheeler Cass               | 1952           | 264                | 20             | 264        | Qtal 8             | 3,824                         | 43.88<br>51.20                | June 2, 1952<br>Jan. 28, 1969   | T, E           | Irr          | Slotted from 40-264 ft. Gravel-walled. Drawdown reported 43 ft after 24 hours pumping 1,783 gpm. Temp. 73°F. <u>1/3</u>                              |
| * 119                     | City of El Paso               | do                         | 1968           | 50                 | 1-1/2          | 50         | Qtal 8             | 3,788                         | 14.62<br>14.77                | May 28, 1968<br>Mar. 4, 1977    | N              | N            | Slotted from 20-50 ft. Observation well. <u>3</u>  |
| 120                       | --                            | --                         | --             | --                 | 16             | --         | --                 | 3,786                         | 10.71                         | Sept. 29, 1975                  | T              | Irr          | --   |
| 121                       | U.S. Bureau of Reclamation    | U.S. Bureau of Reclamation | 1945           | 20                 | 2-1/2          | 20         | Qal Rg             | 3,788                         | 7.2<br>6.20                   | Jan. 1946<br>Dec. 1976          | N              | N            | Auger hole cased with galvanized iron pipe. Observation well.  |
| 122                       | C. C. Woodward                | Morrison Brothers          | 1951           | 125                | 18             | --         | Qal Rg             | 3,785                         | 9.8<br>8.79                   | Jan. 11, 1952<br>Dec. 28, 1976  | N              | N            | Not used. <u>3</u>   |
| * 123                     | Emory White                   | --                         | 1953           | 100                | 12             | --         | Qal Rg             | 3,787                         | --                            | --                              | N              | N            | Temp. 70°F.  |
| * 124                     | Anna L. Andreas               | Mayvapor Drilling Company  | 1951           | 185                | 18             | 185        | Qtal 8             | 3,799                         | 22.90<br>22.6                 | Jan. 10, 1952<br>Jan. 13, 1959  | N              | N            | Abandoned. Casing perforated from 85-185 ft. Temp. 75°F. <u>3</u>  |
| * 125                     | Charles Davis                 | --                         | 1936           | 136                | --             | --         | Qtal 8             | 3,805                         | 20                            | --                              | N              | N            | Not used. Reported yield 30 gpm.   |
| * 126                     | do                            | --                         | 1944           | 196                | 4              | --         | Qtal 8             | 3,805                         | 35                            | --                              | N              | N            | Abandoned. Reported yield 55 gpm.  |
| 127                       | do                            | --                         | --             | 120                | 2-1/2          | --         | Qtal 8             | 3,795                         | 60                            | --                              | N              | N            | Destroyed.   |
| 128                       | do                            | --                         | 1934           | 165                | 3              | --         | Qtal 8             | 3,810                         | 20                            | --                              | N              | N            | Destroyed. Reported yield 30 gpm.  |
| * 129                     | do                            | --                         | 1948           | 104                | 4              | --         | Qtal 8             | 3,820                         | 7                             | --                              | N              | N            | Destroyed. Reported yield 25 gpm.  |
| 130                       | do                            | --                         | 1938           | 104                | 2-1/2          | --         | Qtal 8             | 3,820                         | 7                             | --                              | N              | N            | Abandoned. Reported yield 25 gpm.  |
| * 131                     | U.S. Geological Survey        | B & W Drilling Company     | 1953           | 620                | --             | --         | Qtal 8             | 3,862                         | 84.7                          | Oct. 2, 1953                    | N              | N            | Test well. Filled. Electric log and drill-stem tests indicate fresh-water sands extend to 120 ft. Bedrock indicated at 590 ft. <u>3</u>              |
| 132                       | U.S. Bureau of Prisons Well 3 | Wheeler Cass               | 1936           | 176                | 12             | --         | Qtal 8             | 3,825                         | 44.3<br>47.10                 | Oct. 16, 1936<br>Jan. 10, 1953  | N              | N            | Not used. Drawdown measured 91 ft after 24 hours pumping 495 gpm on Oct. 16, 1936. <u>3</u>  |
| 133                       | U.S. Bureau of Prisons Well 5 | Layne-Texas Company        | --             | 250                | 36             | 100        | Qtal 8             | 3,883                         | 106.6                         | Jan. 16, 1952                   | T, E           | D, Ind, Irr  | Reported yield 500 gpm.  |
| 134                       | U.S. Bureau of Prisons Well 2 | Cass-Layne-Texas           | 1935           | 285                | 12             | 189        | Qtal 8             | 3,879                         | 98.0<br>97                    | Sept. 28, 1935<br>Aug. 23, 1940 | T, E           | D, Ind       | Drawdown measured 71 ft after 24 hours pumping 219 gpm on Sept. 28, 1937. Well deepened from 219-285 ft in 1940. Reported yield 300 gpm. Temp. 79°F. |
| * 135                     | D. & L. Holquin               | Morrison Brothers          | 1950           | 190                | 16             | --         | Qtal 8             | 3,838                         | 63.35                         | Apr. 28, 1951                   | T, E           | Irr          | Gravel-walled. Estimated yield 1,600 gpm on June 18, 1952. Temp. 60°F.   |
| * 136                     | Tom Donaldson                 | do                         | 1950           | 225                | 16             | 225        | Qtal 8             | 3,844                         | 69.14<br>73.9                 | do<br>Feb. 12, 1953             | T, E           | Irr          | Drawdown measured 64 ft after pumping 1,170 gpm on July 10, 1953. Pump set at 150 ft. Temp. 79°F.  |
| 137                       | do                            | Payne & Bullard            | 1949           | 100                | 16             | 48         | Qtal 8             | 3,822                         | 53.1                          | Apr. 28, 1951                   | N              | N            | Screened from 48-100 ft. Reported yield 600 gpm maximum.   |
| 138                       | Emory White                   | do                         | 1950           | 190                | 14             | 190        | Qtal 8             | 3,821                         | 49.1<br>72.58                 | Jan. 10, 1952<br>Jan. 10, 1976  | N              | N            | Perforated from 47-190 ft. Pump set at 90 ft. Yield 400 gpm. <u>3</u>  |
| * 139                     | D. Greenwood                  | Wheeler Cass               | 1953           | 300                | 20<br>16       | 160<br>390 | Qtal 8             | 3,818                         | --                            | --                              | T, E           | Irr          | Perforated from 60-200 ft. Gravel-walled. Pumps into surface reservoir. Temp. 82°F.  |
| * 140                     | M. R. Hemley                  | Rayford Guffey             | 1951           | 135                | 18             | 150        | Qal Rg             | 3,781                         | 16.29<br>9.2                  | Aug. 28, 1951<br>Jan. 13, 1959  | N              | N            | Perforated from 20-135 ft. Gravel-walled. Drilled to 150 ft and plugged back to 135 ft. Temp. 68°F. <u>3/4</u>                                       |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                  | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|---|--------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |   |                          |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |   |                          |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-04-141              | Gus Köttinger                                     | George McKenzie          | 1951           | 122                | 16             | 121        | Gal Rg             | 3,778                         | 5.16<br>7.3                   | Jan. 17, 1952<br>Jan. 13, 1959 | T, G           | Irr          | Perforated from 21-121 ft. Gravel-walled. Pump set at 50 ft. Reported yield 800 gpm. Temp. 67°F. <u>Y</u> <u>Y</u>   |
| 142                       | M. R. Hemley                                      | Rayford Guffy            | 1951           | 150                | 18             | 150        | Gal Rg             | 3,775                         | 6.77<br>7.2                   | Aug. 28, 1951<br>Jan. 13, 1959 | N              | N            | Covered with steel plate. Perforated from 20-150 ft. Drawdown measured 37 ft after 24 hours pumping 1,430 gpm on March 13, 1953. Gravel-walled. Temp. 69°F. <u>Y</u> |
| * 143                     | McKee Construction Company                        | Oliver-Houston           | 1957           | 226                | 12             | --         | Qtal B             | 3,908                         | 139.5                         | Jan. 15, 1959                  | N              | N            | --   |
| 144                       | Texas Dept. of Highways & Public Transportation   | Brown & Ledford          | 1959           | 203                | 6<br>4         | 176<br>203 | Qtal B             | 3,900                         | 140<br>150                    | Nov. 12, 1959<br>Oct. 1964     | Sub, E         | P            | Screened from 180-190 ft and 199-203 ft. Yield 30 gpm. Highway information and rest stop. <u>Y</u>   |
| 145                       | Mountain Pass Canning Company                     | Butte Pump Company       | 1958           | 300                | 8              | 300        | Qtal B             | 3,785                         | 20                            | May 1958                       | T, E           | Ind          | Emergency use only. Slotted from 250-300 ft. Reported yield 500 gpm.   |
| 146                       | do  | do                       | 1958           | 300                | 4              | 300        | Qtal B             | 3,785                         | 20                            | May 1958                       | N              | N            | Destroyed. Reported yield 120 gpm.   |
| 147                       | Border Steel Rolling Mill                         | Brown & Ledford          | 1961           | 229                | 10<br>8        | 229<br>--  | Qtal B             | 3,874                         | 128.5<br>126.4                | July 8, 1961<br>Oct. 30, 1974  | N              | N            | Abandoned. Reported yield 125 gpm.   |
| * 148                     | Texas Dept. of Highways & Public Transportation   | Texas Highway Department | 1964           | 272                | 6              | 189        | Qtal B             | 3,900                         | 146                           | May 1964                       | Sub, E         | P            | Highway information and rest area.   |
| * 149                     | City of Anthony                                   | Wheeler Cass             | 1973           | 705                | 30<br>24       | 340<br>600 | Qtal B             | 3,790                         | 41                            | Nov. 1, 1973                   | T, E           | P            | Supplies water to town of Anthony. Slotted from 340-600 ft. <u>Y</u> <u>Y</u>  |
| * 150                     | Border Steel Rolling Mill                         | Layne-Texas Company      | 1970           | 486                | 20<br>12-3/4   | 200<br>430 | Qtal B             | 3,902                         | --                            | --                             | T, E           | Ind          | Shutter screen from 209-259, 269-299, 308-348, and 370-420 ft. <u>Y</u>  |
| * 151                     | Mountain States Fisheries, Inc.                   | --                       | 1973           | 314                | 18             | --         | Qtal B             | 3,790                         | 225                           | 1973                           | Sub, E         | Ind          | <u>Y</u>   |
| 152                       | Lena Verde Farms, Inc.                            | --                       | --             | --                 | 18             | --         | --                 | 3,809                         | 11.47                         | Mar. 13, 1975                  | N              | N            | --   |
| 153                       | do  | --                       | --             | --                 | 16             | --         | --                 | 3,809                         | --                            | --                             | T, G           | Irr          | --   |
| 154                       | Jack Williams                                     | --                       | --             | --                 | 16             | --         | --                 | 3,785                         | 12.58                         | Mar. 13, 1975                  | T, G           | Irr          | --   |
| 155                       | --  | --                       | --             | --                 | --             | --         | --                 | 3,785                         | --                            | --                             | T, G           | P            | --   |
| 156                       | J. H. Luna  | --                       | --             | --                 | --             | --         | --                 | 3,783                         | --                            | --                             | T, G           | Irr          | --   |
| 157                       | Lena Verde Farms, Inc.                            | --                       | --             | --                 | 16             | --         | --                 | 3,785                         | 4.89                          | Mar. 20, 1975                  | T, G           | N            | --   |
| 158                       | Mountain Pass Canning Company                     | --                       | --             | --                 | --             | --         | --                 | 3,785                         | --                            | --                             | T, G           | N            | --   |
| 159                       | Juan Singh  | --                       | --             | --                 | 18             | --         | --                 | 3,785                         | 8.90<br>9.99                  | Oct. 18, 1974<br>Mar. 19, 1975 | T, G           | Irr          | --   |
| 160                       | J. O. Martinez                                    | --                       | --             | --                 | --             | --         | --                 | 3,785                         | --                            | --                             | T, E           | Irr          | <u>Y</u>   |
| 161                       | -- Maldonado                                      | --                       | 1967           | 50                 | --             | --         | Qtal B             | 3,785                         | --                            | --                             | Sub, E         | D            | --   |
| 162                       | Lena Verde Farms, Inc.                            | --                       | --             | --                 | 16             | --         | --                 | 3,785                         | 14.24                         | Mar. 20, 1975                  | T, G           | Irr          | --   |
| 163                       | Texas Dept. of Highways and Public Transportation | --                       | 1970           | 205                | 6              | 205        | Qtal B             | 3,900                         | 150                           | Apr. 3, 1970                   | Sub, E         | P            | Highway information and rest area. <u>Y</u>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner  | Driller                | Date completed | Depth of well (ft) | Casing         |                     | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|--|------------------------|----------------|--------------------|----------------|---------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |  |                        |                |                    | Diameter (in.) | Depth (ft)          |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |  |                        |                |                    |                |                     |                    |                               |                               |                                |                |              |  |
| JL-49-04-164              | --   | Agua Drilling Company  | 1975           | --                 | 14<br>8        | --<br>--            | --                 | 3,785                         | --                            | --                             | --             | Irr          | --   |
| * 165                     | Proler Steel Company                                   | Cecil Ballard          | 1974           | 608                | 6              | 548                 | Qtal 8             | 3,821                         | 83.94                         | Jan. 10, 1976                  | Sub, E         | Ind          | Slotted from 548-608 ft. Pump set at 210 ft. <u>1</u>  |
| 166                       | do   | do                     | 1974           | 608                | 6              | 548                 | Qtal 8             | 3,821                         | 83.94                         | do                             | Sub, E         | Ind          | Slotted from 548-608 ft. Pump set at 210 ft.   |
| 167                       | --   | --                     | --             | --                 | 16             | --                  | --                 | 3,790                         | --                            | --                             | N              | N            | Not used.  |
| 201                       | Border Steel Rolling Mill                              | Layne-Texas Company    | 1960           | 602                | 24<br>16       | --<br>440           | Qtal 8             | ±3,900                        | 147                           | Dec. 2, 1960                   | T, E           | Ind          | Screened from 200-300, 320-350, and 390-430 ft. Drawdown measured 45 ft after 24 hours pumping 909 gpm. Temp. 78°F. <u>2</u>   |
| * 202                     | El Paso Water Control and Improvement District Westway | Wheeler Case           | 1960           | 410                | 24<br>12       | 90<br>490           | Qtal 8             | 3,980                         | 208.75                        | Oct. 26, 1960                  | T, E           | P            | Screened to 410 ft. Drawdown 100 ft after 4 hours pumping 750 gpm. Measured yield 750 gpm. Temp. 75°F. <u>3</u>  |
| 203                       | Brown Realty Company                                   | Southwest Oil Company  | 1947           | 408                | 7              | 325                 | Qtal 8             | 4,000                         | 200                           | --                             | N              | N            | Oil test. Destroyed. Water reported in sand at 200 ft. Limestone at bottom.  |
| 204                       | U.S. Geological Survey                                 | E & W Drilling Company | 1953           | 320                | --             | --                  | Qtal 8             | 4,111                         | --                            | --                             | N              | N            | Test well. Filled. No water-bearing sand. Bedrock encountered at 310 ft. <u>1</u>  |
| * 205                     | State of Texas   | Wheeler Case           | 1945           | 517                | 6<br>4         | 130<br>508          | Qtal 8             | 4,268                         | 467.0                         | May 7, 1953                    | W              | S            | --   |
| 206                       | Paul Stevenson   | do                     | 1960           | 600                | 4              | --                  | Qtal 8             | 4,055                         | 260.5                         | Aug. 8, 1960                   | N              | N            | Abandoned. Reported yield 25 gpm. Temp. 78°F.  |
| 207                       | El Paso Water Control and Improvement District Westway | --                     | --             | --                 | --             | --                  | --                 | 4,065                         | --                            | --                             | Sub, E         | P            | --   |
| * 401                     | City of El Paso  | City of El Paso        | 1958           | 900                | 18<br>12       | 400<br>900          | Qtal 8             | 3,774                         | 42.8<br>40.82                 | July 15, 1958<br>Jan. 27, 1975 | T, E           | P            | Screened from 510-900 ft and underreamed from 500-900 ft. Drawdown 75 ft after 24 hours pumping 2,150 gpm on Aug. 19, 1953. Originally drilled to 958 ft, deepened to 1,115 ft, and plugged back to 900 ft. Temp. 93°F. <u>1</u> <u>2</u> <u>3</u> |
| * 402                     | do   | do                     | 1956           | 1,060              | 24<br>18<br>12 | 578<br>511<br>1,060 | Qtal 8             | 3,775                         | 41.05<br>57.74                | Jan.<br>Mar. 5, 1972<br>1977   | T, E           | P            | Screened from 586-1,060 ft. Drawdown measured 91 ft after 120 hours pumping 2,498 gpm on Jan. 21, 1957. Drilled to 1,201 ft and plugged back to 1,060 ft. Pump set at 150 ft. Temp. 96°F. <u>1</u> <u>2</u> <u>3</u>                               |
| * 403                     | do   | Layne-Texas Company    | 1952           | 160                | 30<br>16       | 5<br>155            | Qal Rg             | 3,770                         | 5.48<br>8.30                  | Apr. 18, 1952<br>Mar. 5, 1977  | T, E           | P            | Slotted from 76-155 ft. Measured yield 1,250 gpm on Oct. 9, 1952. <u>1</u> <u>2</u>  |
| 404                       | do   | City of El Paso        | 1964           | 405                | 24<br>18       | 213<br>404          | Qtal 8             | 3,772                         | 25.84<br>13.77                | Aug. 24, 1964<br>Jan. 22, 1976 | T, E           | P            | Slotted from 220-404 ft. Drawdown measured 86 ft after 24 hours pumping 1,600 gpm on Aug. 24, 1964. <u>3</u>   |
| " 405                     | do   | B. Greenwood           | 1955           | 170                | 38<br>18       | 35<br>170           | Qal Rg             | 3,766                         | 7.11<br>9.11                  | Jan. 13, 1956<br>June 25, 1976 | T, E           | P            | Slotted from 53-170 ft. Measured yield 270 gpm on May 29, 1956. Temp. 71°F. <u>3</u>   |
| * 406                     | do   | Layne-Texas Company    | 1952           | 152                | 30<br>16       | 5<br>150            | Qal Rg             | 3,771                         | 5.63<br>9.14                  | Apr. 18, 1952<br>Mar. 5, 1977  | T, E           | P            | Slotted from 63-150 ft. Drawdown measured 60 ft after 28 hours pumping 1,250 gpm on Apr. 18, 1952. Temp. 75°F. <u>1</u> <u>2</u> <u>3</u>  |
| * 407                     | do   | B. Greenwood           | 1955           | 200                | 18             | 200                 | Qal Rg             | 3,772                         | 15.07<br>9.56                 | Jan. 13, 1956<br>Mar. 5, 1977  | T, E           | P            | Screened from 62-200 ft. Production test: 1,270 gpm on May 29, 1956. Temp. 69°F. <u>3</u>  |
| * 408                     | do   | do                     | 1955           | 200                | 18             | 200                 | Qal Rg             | 3,767                         | 15.5<br>9.55                  | Nov. 23, 1955<br>Mar. 5, 1977  | T, E           | P            | Perforated from 61-200 ft. Yield 1,225 gpm on May 29, 1956. Temp. 69°F. <u>3</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                  | Driller                | Date completed | Depth of well (ft.) | Casing         |             | Water bearing unit | Altitude of land surface datum (ft.) | Water level                    |                                 | Method of lift | Use of water | Remarks  |
|---------------------------|------------------------|------------------------|----------------|---------------------|----------------|-------------|--------------------|--------------------------------------|--------------------------------|---------------------------------|----------------|--------------|--|
|                           |                        |                        |                |                     | Diameter (in.) | Depth (ft.) |                    |                                      | Below land-surface datum (ft.) | Date of measurement             |                |              |  |
| El Paso County--Continued |                        |                        |                |                     |                |             |                    |                                      |                                |                                 |                |              |  |
| * JL-49-04-409            | City of El Paso        | B. Greenwood           | 1955           | 156                 | 20 18          | 38 156      | Qal Rg             | 3,770                                | 10.7 7.30                      | June 3, 1955<br>Mar. 5, 1977    | T, E           | P            | Slotted from 37-156 ft. Measured yield 1,380 gpm on June 19, 1956. Temp. 77°F. <u>3</u>  |
| 410                       | do                     | City of El Paso        | 1961           | 461                 | 24 18          | 244 444     | Qtal 8             | 3,770                                | 12.23 10.35                    | Mar. 8, 1961<br>Mar. 5, 1977    | T, E           | P            | Drawdown measured 75 ft after 8 hours pumping 1,200 gpm on Mar. 8, 1961. Temp. 89°F. <u>2 3</u>  |
| * 411                     | do                     | B. Greenwood           | 1955           | 194                 | 38 18          | 39 194      | Qal Rg             | 3,767                                | 14.4 12.01                     | Dec. 6, 1955<br>June 25, 1976   | T, E           | P            | Screened from 60-194 ft. Drawdown measured 17 ft after 24 hours pumping 580 gpm on Dec. 7, 1955. Temp. 72°F. <u>3</u>  |
| * 412                     | do                     | Layne-Texas Company    | 1952           | 160                 | 24 16          | 47 160      | Qal Rg             | 3,770                                | 5.51 9.41                      | Apr. 18, 1952<br>Mar. 5, 1977   | T, E           | P            | Slotted from 59-121 and 140-160 ft. Measured yield 1,260 gpm on Oct. 18, 1952. Temp. 84°F. <u>2 3</u>  |
| * 413                     | do                     | do                     | 1952           | 160                 | 30 16          | 5 160       | Qal Rg             | 3,765                                | 2.9 6.70                       | Apr. 25, 1952<br>Mar. 4, 1977   | T, E           | P            | Slotted from 76-155 ft. Measured yield 1,150 gpm on Oct. 3, 1952. Gravel-walled. Temp. 76°F. <u>1 2 3</u>  |
| * 414                     | do                     | B. Greenwood           | 1955           | 200                 | 38 18          | 38 200      | Qal Rg             | 3,765                                | 8.4 6.67                       | Jan. 13, 1956<br>Mar. 4, 1977   | T, E           | P            | Slotted from 82-200 ft. Yield 1,270 gpm on May 29, 1956. Temp. 72°F. <u>3</u>  |
| * 415                     | do                     | George McKenzie        | 1951           | 122                 | 24             | 122         | Qal Rg             | 3,769                                | 5.80 7.38                      | Jan. 10, 1952<br>Mar. 4, 1977   | T, E           | P            | Slotted from 52-62 and 72-122 ft. Yield 970 gpm on Oct. 1, 1952. <u>1 3</u>  |
| * 416                     | do                     | City of El Paso        | 1957           | 1,013               | 6              | 1,013       | Qtal 8             | 3,768                                | 19.31 35.26                    | Sept. 12, 1957<br>July 22, 1977 | N              | N            | Screened from 528-1,013 ft. Canutillo recorder 3. Observation well. <u>1 2 3 4</u>   |
| * 417                     | U.S. Geological Survey | B & W Drilling Company | 1957           | 200                 | 6              | 951         | Qal Rg             | 3,768                                | 9.87 33.09                     | May 29, 1954<br>July 22, 1977   | N              | N            | Drilled to 951 ft in 1953, filled to 19 ft, and redrilled to 200 ft in 1957. Electric log and drill-stem tests indicate fresh water extends from 207-560 ft. Observation well-recorder. <u>1 2 3</u> |
| * 418                     | City of El Paso        | City of El Paso        | 1961           | 545                 | 6              | 545         | Qtal 8             | 3,770                                | 12.65 46.93                    | Feb. 20, 1963<br>July 22, 1977  | N              | N            | Slotted from 445-545 ft. Drilled to 937 ft and plugged back to 545 ft. Observation well. <u>3</u>  |
| * 419                     | do                     | do                     | 1957           | 1,050               | 6              | 1,050       | Qtal 8             | 3,773                                | 16.88 42.07                    | Jan. 25, 1957<br>July 22, 1977  | N              | N            | Screened from 585-1,050 ft. Drilled to 1,072 ft and plugged back to 1,050 ft. Canutillo recorder 2. Observation well. <u>1 2 3</u>   |
| * 420                     | do                     | Layne-Texas Company    | 1952           | 202                 | 30 16          | 5 155       | Qal Rg             | 3,771                                | 6.50 12.26                     | Apr. 18, 1952<br>Mar. 5, 1977   | T, E           | P            | Slotted from 73-150 ft. Measured yield 1,000 gpm on Oct. 9, 1952. Gravel-walled. Temp. 72°F. <u>1 2 3</u>  |
| 421                       | do                     | City of El Paso        | 1961           | 1,102               | 24             | 550         | Qtal 8             | 3,771                                | 7.64 9.73                      | Sept. 26, 1961<br>Jan. 27, 1975 | T, E           | P            | Screened from 356-550 ft. Drawdown 87 ft after 8 hours pumping 1,600 gpm on Sept. 11, 1961. Temp. 85°F. <u>2 3</u>   |
| 422                       | do                     | do                     | 1963           | 390                 | 24 18          | 150 390     | Qtal 8             | 3,773                                | 22.08 22.65                    | Mar. 6, 1963<br>Jan. 22, 1976   | T, E           | P            | Screened from 198-390 ft. Drawdown 152 ft after 24 hours pumping 2,500 gpm on Mar. 7, 1963. <u>3</u>   |
| * 423                     | do                     | do                     | 1964           | 200                 | 24 18          | 80 200      | Qal Rg             | 3,778                                | 15.07 13.38                    | Oct. 21, 1964<br>Mar. 4, 1977   | T, E           | P            | Slotted from 100-200 ft. Yield 600 gpm. <u>3</u>   |
| * 424                     | do                     | do                     | 1964           | 200                 | 24 18          | 80 200      | Qal Rg             | 3,777                                | 15.15 13.89                    | Oct. 21, 1964<br>Mar. 4, 1977   | T, E           | P            | Screened from 100-200 ft. Yield 825 gpm. <u>3</u>  |
| 425                       | do                     | do                     | 1964           | 447                 | 24 18          | 232 440     | Qtal 8             | 3,777                                | 40.20 30.93                    | Oct. 6, 1964<br>Jan. 22, 1976   | T, E           | P            | Screened from 242-440 ft. Drawdown 96 ft after 24 hours pumping 1,500 gpm on Oct. 6, 1964. Temp. 81°F. <u>3</u>  |
| * 426                     | do                     | do                     | 1964           | 200                 | 24 18          | 80 200      | Qal Rg             | 3,777                                | 10.57 8.54                     | Oct. 21, 1964<br>Mar. 4, 1977   | T, E           | P            | Slotted from 100-200 ft. Yield 1,200 gpm. <u>3</u>   |
| 427                       | do                     | do                     | 1964           | 467                 | 24 18          | 220 461     | Qtal 8             | 3,774                                | 39.25 21.37                    | June 17, 1964<br>Jan. 22, 1976  | T, E           | P            | Slotted from 230-461 ft. Drawdown 118 ft after 12 hours pumping 1,800 gpm on June 17, 1964. <u>3</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                        | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|------------------------------|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                              |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                              |                           |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| * JL-49-04-428            | City of El Paso              | City of El Paso           | 1964           | 200                | 24<br>18       | 80<br>200  | Qal Rg             | 3,764                         | 8.17<br>4.52                  | Oct. 21, 1964<br>Mar. 4, 1977  | T, E           | P            | Slotted from 100-200 ft. Yield 1,065 gpm. <u>3</u>   |
| * 429                     | do                           | Wheeler Cass              | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,780                         | 7.79<br>7.46                  | May 16, 1968<br>June 5, 1974   | N              | N            | Destroyed. Observation well. <u>3</u>  |
| * 430                     | do                           | do                        | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,770                         | 7.25<br>5.87                  | May 16, 1968<br>Mar. 5, 1977   | N              | N            | Slotted from 20-50 ft. Observation well. <u>3</u>  |
| * 431                     | do                           | do                        | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,770                         | 7.18<br>7.55                  | May 23, 1968<br>Mar. 5, 1977   | N              | N            | Do.  |
| 432                       | FER Stock Farm               | do                        | 1965           | 200                | 16             | 200        | Qal Rg             | 3,776                         | 18                            | Jan. 1965                      | T, E           | Irr          | Perforated from 100-200 ft. Yield 1,700 gpm.   |
| * 434                     | Emilio Chavez                | --                        | 1951           | 160                | 24             | --         | Qal Rg             | 3,775                         | 10.3<br>8.75                  | Feb. 16, 1953<br>Mar. 17, 1975 | T, G           | Irr          | Perforated from 80-160 ft. Temp. 68°F. <u>4</u>  |
| 435                       | E. and V. Holquin            | B. Greenwood              | 1954           | 150                | 20             | 150        | Qtal 8             | 3,790                         | 8.67                          | May 3, 1955                    | T, C           | Irr          | Slotted from 40-120 ft.  |
| * 436                     | M. Hernandez,<br>V. M. Gomez | --                        | --             | 190                | 12             | 190        | Qtal 8             | 3,820                         | 54.13<br>71.72                | Jan. 10, 1952<br>Feb. 17, 1977 | T, E           | Irr          | Perforated from 47-190 ft. Reported yield 800 gpm. Temp. 90°F. <u>3</u>  |
| * 437                     | Baxter Carruth               | -- Heule                  | 1952           | 131                | 8              | 131        | Qtal 8             | 3,824                         | --                            | --                             | T, E           | D, Irr       | Perforated from 50-131 ft. Temp. 82°F.   |
| * 438                     | E. and V. Holquin            | Morrison Brothers         | 1952           | 142                | 16             | 142        | Qtal 8             | 3,825                         | 61.40<br>76.10                | Apr. 28, 1951<br>Mar. 17, 1975 | T, E           | Irr          | Perforated from 40-142 ft. Reported yield 1,440 gpm. Drilled to 160 ft and plugged back to 142 ft. Temp. 82°F. <u>3</u>  |
| 439                       | Donald Kelly                 | --                        | 1952           | --                 | 10             | --         | --                 | 3,845                         | 76.99<br>101.62               | Feb. 12, 1953<br>Dec. 28, 1976 | T, E           | Irr          | <u>3</u>   |
| 440                       | M. Hernandez,<br>V. M. Gomez | Morrison Brothers         | 1953           | 170                | 16             | 170        | Qtal 8             | 3,835                         | 61.45<br>75.75                | Mar. 13, 1953<br>Mar. 17, 1975 | T, E           | Irr          | Perforated from 90-170 ft.   |
| * 441                     | U.S. Geological Survey       | B & W Drilling Company    | 1953           | 874                | --             | --         | Qtal 8             | 3,900                         | 134.5                         | Aug. 28, 1953                  | N              | N            | Test well. Filled. Electric log and drill stem tests indicate fresh water extends to 434 ft. <u>1</u> <u>2</u>   |
| * 442                     | Ted White                    | Mountain Drilling Company | 1953           | 160                | 16             | --         | Qtal 8             | 3,830                         | 60.85<br>74.44                | Mar. 13, 1953<br>Mar. 17, 1975 | T, E           | Irr          | Gravel-walled. Temp. 85°F.   |
| 443                       | Turker                       | --                        | 1951           | 62                 | 2              | 62         | Qtal 8             | 3,796                         | 31.25                         | Aug. 29, 1952                  | N              | N            | Not used. Drilled to 65 ft and plugged back to 62 ft.  |
| * 444                     | L. D. Snell                  | --                        | --             | 35                 | 2-1/2          | --         | Qtal 8             | 3,780                         | --                            | --                             | N              | N            | Abandoned.   |
| 445                       | City of El Paso              | --                        | --             | 112                | 2-1/2          | --         | Qal Rg             | 3,766                         | 3.47<br>5.0                   | Feb. 28, 1952<br>Nov. 18, 1958 | N              | N            | Abandoned. Observation well. <u>3</u>  |
| 446                       | do                           | --                        | --             | 90                 | 2-1/2          | --         | Qal Rg             | 3,767                         | 3.16<br>3.6                   | Feb. 28, 1952<br>Feb. 28, 1958 | N              | N            | Do.  |
| 447                       | do                           | --                        | --             | --                 | 1-1/2          | --         | Qal Rg             | 3,766                         | 3.11<br>2.6                   | May 29, 1952<br>June 3, 1955   | N              | N            | Not used. Observation well. <u>3</u>   |
| 448                       | Sam B. Gillette, Jr.         | Rayford Guffy             | 1951           | 117                | 16             | --         | Qal Rg             | 3,768                         | 7.75<br>8.1                   | Jan. 10, 1952<br>Jan. 14, 1959 | N              | N            | Pump set at 70 ft. Very rough shale from 88-157 ft interbedded with thin lenses of sand. Drilled to 157 ft and plugged back to 117 ft. Gravel-walled. Covered with steel plate. <u>3</u> |
| 450                       | -- Donlap                    | --                        | 1955           | 125                | --             | --         | Qal Rg             | 3,766                         | 11.33<br>6.9                  | Dec. 19, 1955<br>Jan. 14, 1959 | T, E           | Irr          | <u>3</u>   |
| 451                       | A. D. Martinez               | --                        | 1955           | 98                 | 20             | --         | Qal Rg             | 3,775                         | 8.1<br>7.65                   | Aug. 17, 1958<br>Oct. 17, 1958 | T, Rg          | Irr          | Pump set at 50 ft. Yield 2,000 gpm. Temp. 66°F.  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                         | Driller                    | Date completed | Depth of well (ft) | Casing             |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|-------------------------------|----------------------------|----------------|--------------------|--------------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                               |                            |                |                    | Diameter (in.)     | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                               |                            |                |                    |                    |            |                    |                               |                               |                                |                |              |   |
| * JL-49-04-452            | McKee Construction Company    | Oliver-Houston             | 1957           | 204                | 12                 | 204        | Qtal 8             | 3,869                         | 112.60<br>115.50              | Jan. 10, 1958<br>Nov. 1959     | N              | N            | Slotted from 164-204 ft. Yield 350 gpm. Was used for highway construction. <u>y</u>   |
| 453                       | --                            | --                         | --             | --                 | --                 | --         | --                 | --                            | --                            | --                             | C, W           | D            | --  |
| 454                       | John Livingston               | --                         | --             | --                 | 10                 | --         | --                 | 3,775                         | --                            | --                             | Sub, E         | Irr          | --  |
| 455                       | do                            | --                         | --             | --                 | 12<br>8            | --         | --                 | 3,775                         | 14.25                         | Apr. 25, 1975                  | N              | N            | --  |
| 456                       | R. Sanders                    | --                         | --             | 180                | --                 | --         | Qal Rg             | 3,775                         | --                            | --                             | --             | D            | Temp. 68°F.   |
| 457                       | John Livingston               | Agua Drilling Company      | 1974           | 175                | --                 | --         | Qal Rg             | 3,773                         | --                            | --                             | --             | D            | Temp. 73°F.   |
| 458                       | T. T. and E. M. Freeman       | --                         | --             | --                 | --                 | --         | --                 | 3,770                         | 41<br>112                     | Aug. 11, 1972<br>Oct. 17, 1974 | --             | Irr          | Temp. 68°F. <u>y</u>  |
| 459                       | Ann Powers                    | --                         | --             | 189                | --                 | --         | Qtal 8             | 3,850                         | --                            | --                             | --             | D            | Temp. 68°F.   |
| * 501                     | U.S. Geological Survey        | B & W Drilling Company     | 1953           | 320                | --                 | --         | Qtal 8             | 4,023                         | 217.8                         | Aug. 31, 1953                  | N              | N            | Test well. Filled. Bedrock at 290 ft. Electric log and drill-stem tests indicate fresh-water sands extend to bottom. <u>y y</u> |
| 502                       | Luis Bobadillo                | J. S. Merriwether, et al.  | 1945           | 1,578              | 6<br>4             | --         | Qtal 8             | 4,026                         | --                            | --                             | N              | N            | Oil test. Filled. <u>y</u>  |
| 503                       | Tristate Oil Company          | Tristate Oil Company       | 1934           | 3,401              | 18<br>10<br>6<br>5 | --         | Qtal 8             | 4,160                         | --                            | --                             | N              | N            | Do.   |
| 504                       | Southwest Oil Company         | do                         | 1935           | 3,571              | --                 | --         | Qtal 8             | 4,160                         | 250                           | --                             | N              | N            | Oil test. Filled.   |
| * 505                     | McKee Construction Company    | Oliver-Houston             | 1957           | 224                | 12                 | --         | Qtal 8             | 3,906                         | 146.48                        | Feb. 11, 1959                  | N              | N            | Used during highway construction.   |
| 506                       | do                            | do                         | 1957           | 224                | 12                 | --         | Qtal 8             | 3,837                         | 97.9<br>97.25                 | Oct. 17, 1958<br>Jan. 15, 1959 | N              | N            | Do.   |
| 701                       | U.S. Bureau of Reclamation    | U.S. Bureau of Reclamation | 1945           | 20                 | 2-1/2              | 20         | Qal Rg             | 3,757                         | 6.3<br>5.5                    | Jan. 1946<br>Dec. 1976         | N              | N            | Auger hole cased with galvanized iron pipe. Observation well.   |
| * 702                     | Barry Hagedorn                | Wheeler Cass               | 1951           | 140                | 16                 | 140        | Qal Rg             | 3,753                         | 4.31<br>3.32                  | Jan. 16, 1953<br>Mar. 18, 1975 | T, Ng          | Irr          | Slotted from 40-140 ft. Pump set at 90 ft. Temp. 67°F. <u>y</u>   |
| * 704                     | City of El Paso               | do                         | 1968           | 50                 | 1-1/2              | 50         | Qal Rg             | 3,759                         | 4.48<br>3.14                  | May 16, 1968<br>June 25, 1976  | N              | N            | Slotted from 20-50 ft. Observation well. <u>y</u>   |
| 705                       | Mountain Pass Canning Company | J. Morales                 | 1957           | 160                | 8                  | --         | Qtal 8             | 3,768                         | --                            | --                             | N              | N            | Destroyed.  |
| 706                       | Nellie Morse                  | --                         | --             | --                 | 20                 | --         | --                 | 3,765                         | 8.37                          | Mar. 18, 1975                  | T, Ng          | Irr          | --  |
| * 707                     | R. A. Gardner                 | George McKenzie            | 1952           | 178                | 16                 | 178        | Qal Rg             | 3,762                         | 6.95<br>7.76                  | Oct. 23, 1974<br>Mar. 18, 1975 | T, Ng          | Irr          | Screened from 58-118 ft and 142-178 ft. Pump set at 100 ft. Gravel-walled. <u>y</u>   |
| 708                       | W. L. Seymour                 | do                         | --             | 72                 | 16                 | 72         | Qal Rg             | 3,760                         | --                            | --                             | T, Ng          | Irr          | Perforated from 16-72 ft. Discharge reported 800 gpm. Pump set at 50 ft. <u>y y</u>   |
| 709                       | do                            | do                         | 1951           | 70                 | --                 | --         | Qal Rg             | 3,761                         | --                            | --                             | N              | N            | Destroyed. <u>y y</u>   |
| 710                       | R. A. Gardner                 | Boyd & Ewing               | 1951           | 100                | 16                 | --         | Qal Rg             | 3,759                         | 9.0                           | Feb. 19, 1953                  | T, Ng          | Irr          | Perforated from 20-100 ft. Pump set at 80 ft.   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                            | Driller                | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|----------------------------------|------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                                  |                        |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                                  |                        |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| * JL-49-04-711            | Steve Cone                       | Remedial Oil Service   | 1951           | 141                | 18             | 141        | Qal Rg             | 3,763                         | 5.66<br>7.06                  | Aug. 31, 1951<br>Mar. 18, 1975 | T, G           | Irr          | Perforated from 41-141 ft. Pump set at 90 ft. Yield 2,816 gpm. <u>3/4</u>   |
| 712                       | El Dorado Farm                   | George McKenzie        | 1951           | 116                | 18             | 116        | Qal Rg             | 3,764                         | 8.72<br>5.88                  | June 11, 1952<br>Mar. 18, 1975 | T, Ng          | Irr          | Slotted from 55-115 ft. Drawdown reported 45 ft pumping 2,780 gpm. Pump set at 90 ft. Gravel-walled. <u>1/3/4</u>   |
| 713                       | V. M. Fike                       | -- Ledford             | 1950           | 83                 | 6              | --         | Qal Rg             | 3,814                         | 54.96                         | Jan. 11, 1952                  | J, E           | D, S, Irr    | --  |
| * 714                     | Vinton School District           | --                     | --             | 167                | --             | --         | Qal Rg             | 3,810                         | --                            | --                             | J, E           | D, P, Irr    | Dug to 47 ft. Supplies school at Canutillo.   |
| 715                       | --                               | --                     | --             | --                 | --             | --         | --                 | 3,772                         | --                            | --                             | N              | N            | Abandoned.  |
| * 716                     | U.S. Geological Survey           | B & W Drilling Company | 1953           | 550                | --             | --         | Qtal 8             | 3,819                         | 64.0                          | Aug. 9, 1953                   | N              | N            | Test well. Filled. Electric log and drill-stem tests indicate fresh water extends to 150 ft. <u>1/2</u>             |
| 717                       | Wick Abraham                     | George McKenzie        | 1951           | 129                | 16             | 129        | Qal Rg             | 3,763                         | 6.52                          | June 11, 1952                  | T, Ng          | Irr          | Reported yield 1,200 gpm. Temp. 68°F. <u>4</u>  |
| * 718                     | Indar Singh                      | Wheeler Cass           | 1951           | 150                | 20             | 150        | Qal Rg             | 3,758                         | 7.48<br>5.76                  | Mar. 26, 1952<br>Jan. 14, 1976 | T, Ng          | Irr          | Slotted from 40-150 ft. Pump set at 90 ft. Reported yield 1,200 gpm. <u>3/4</u>                                     |
| * 719                     | do                               | Remedial Oil Service   | --             | 128                | 16             | --         | Qal Rg             | 3,761                         | 6.49                          | Apr. 28, 1951                  | N              | N            | Reported yield 1,170 gpm. Formerly used for irrigation.   |
| * 720                     | Victor Hlavacek                  | -- Beula               | 1951           | 62                 | 3              | --         | Qtal 8             | 3,780                         | 18                            | --                             | Cf, B          | D            | --  |
| * 721                     | Vicente Arias                    | --                     | --             | 80                 | 2-1/2          | --         | Qtal 8             | 3,788                         | --                            | --                             | J, E           | D            | --  |
| 722                       | J. Brewington                    | --                     | --             | --                 | 9              | --         | --                 | 3,782                         | 31.16<br>30.1                 | Apr. 28, 1951<br>June 12, 1958 | N              | N            | Casing filled. <u>1</u>   |
| * 723                     | --                               | --                     | 1922           | 1,074              | 12             | --         | Qtal 8             | 3,757                         | --                            | --                             | N              | N            | Capped. Reported to have flowed when drilled. Bedrock encountered at 822 ft. Known as the Lippincott well. <u>1</u> |
| * 724                     | Jose Roque                       | George McKenzie        | --             | 124                | 16             | --         | Qal Rg             | 3,757                         | 7.47<br>6.45                  | Feb. 18, 1953<br>Mar. 18, 1975 | T, Ng          | Irr          | Perforated from 47-124 ft. Gravel-walled. Yield 1,500 gpm. <u>1/3/4</u>   |
| * 725                     | Manuel Urioste                   | --                     | 1954           | 150                | 10             | 150        | Qtal 8             | 3,810                         | 65                            | Feb. 1954                      | T, R           | D            | Reported yield 1,600 gpm.   |
| * 726                     | City of El Paso                  | --                     | --             | --                 | 18             | --         | --                 | 3,760                         | 6.05                          | Dec. 29, 1967                  | N              | N            | Abandoned.  |
| 727                       | J. J. Ulmer, Jr.                 | --                     | --             | --                 | 16             | --         | --                 | 3,767                         | 8.99                          | Mar. 17, 1975                  | T, E           | Irr          | <u>4</u>  |
| * 728                     | Gaulight Square Mobile Home Park | Layne-Texas Company    | 1970           | 377                | 16<br>8-5/8    | 100<br>170 | Qtal 8             | 3,810                         | --                            | --                             | T, E           | D            | Slotted screen from 105-165 ft. <u>1/2</u>  |
| 729                       | J. J. Ulmer                      | --                     | --             | --                 | 16             | --         | --                 | 3,766                         | 8.43                          | Mar. 18, 1975                  | T, E           | Irr          | --  |
| 730                       | Will Holt                        | --                     | --             | --                 | 16             | --         | --                 | 3,766                         | 9.30                          | do                             | T, Ng          | Irr          | --  |
| 731                       | Eleanor K. Hearnen               | --                     | --             | --                 | 20             | --         | --                 | 3,766                         | --                            | --                             | T, Ng          | Irr          | --  |
| 732                       | W. B. Spinks                     | --                     | --             | --                 | --             | --         | --                 | 3,766                         | --                            | --                             | T, Ng          | Irr          | --  |
| 733                       | Radford Pinckard                 | --                     | --             | --                 | 16             | --         | --                 | 3,765                         | --                            | --                             | T, Ng          | Irr          | <u>4</u>  |
| 734                       | Joel Crump                       | --                     | --             | --                 | 18             | --         | --                 | 3,763                         | 2.24                          | Mar. 18, 1975                  | T, C           | Irr          | <u>4</u>  |
| 735                       | A. Duran                         | --                     | --             | --                 | 20             | --         | --                 | 3,766                         | --                            | --                             | T, E           | N            | --  |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                    | Date completed | Depth of well (ft) | Casing         |                | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks  |
|---------------------------|---|----------------------------|----------------|--------------------|----------------|----------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|--|
|                           |   |                            |                |                    | Diameter (in.) | Depth (ft)     |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |  |
| El Paso County--Continued |   |                            |                |                    |                |                |                    |                               |                               |                               |                |              |  |
| JL-49-04-736              | W. E. Jackson                                     | --                         | --             | --                 | 12             | --             | --                 | 3,766                         | --                            | --                            | T, Mg          | N            | --   |
| 737                       | Will Holt   | --                         | --             | --                 | 16             | --             | --                 | 3,757                         | 6.66                          | Mar. 24, 1975                 | T, G           | Irr          | 4/   |
| 738                       | --  | --                         | --             | --                 | 16             | --             | --                 | 3,765                         | --                            | --                            | T, E           | Irr          | Temp. 68°F.  |
| 739                       | D. Karam  | -- Morales                 | 1973           | 150                | 4              | --             | Qal Rg             | 3,763                         | --                            | --                            | T, E           | D            | Temp. 78°F.  |
| 740                       | Steve Cone  | --                         | 1968           | 102                | --             | --             | Qal Rg             | 3,763                         | --                            | --                            | CE, E          | D            | Temp. 73°F.  |
| 741                       | do  | --                         | 1974           | 105                | --             | --             | Qal Rg             | 3,763                         | --                            | --                            | --             | D            | Temp. 67°F.  |
| 801                       | Texas Dept. of Highways and Public Transportation | Schieffer Drilling Company | 1963           | 315                | 12-3/4         | 315            | Qtal B             | 3,892                         | 78.0                          | Mar. 19, 1975                 | T, G           | Ind          | Slotted from 126-315 ft. Used for road construction. 2/  |
| 901                       | El Paso County                                    | K. Wheeler                 | 1967           | 860                | 8              | --             | --                 | 4,760                         | 700                           | Dec. 1967                     | N              | N            | Filled and abandoned. Reported yield 15 gpm.   |
| 05-101                    | --  | --                         | --             | --                 | 6              | --             | --                 | 4,622                         | 133.1                         | Oct. 16, 1957                 | N              | N            | Not used.  |
| * 201                     | City of El Paso                                   | City of El Paso            | 1958           | 631                | 24<br>18<br>12 | --<br>--<br>-- | Qtal 6             | 4,060                         | 348.92                        | Jan. 6, 1959                  | T, E           | Ind          | Measured yield 1,480 gpm. 2/   |
| * 202                     | do  | do                         | 1958           | 625                | 24<br>18<br>12 | --<br>--<br>-- | Qtal 6             | 4,051                         | 333.98<br>363.1               | Jan. 19, 1958<br>Jan. 1974    | T, E           | Ind          | Drilled to 725 ft and plugged back to 625 ft. Yield 1,356 gpm. Temp. 81°F. 2/ 3/   |
| 203                       | El Paso Electric Company                          | do                         | --             | 1,483              | --             | 1,188          | Qtal 6             | 4,049                         | 339.0                         | Oct. 26, 1959                 | N              | N            | Used for disposal of blow-off water. Stainless steel screen from 990-1,188 ft. Base of fresh water at 840 ft. Temp. 94°F.  |
| * 204                     | City of El Paso                                   | do                         | 1959           | 515                | 24<br>18       | 345<br>515     | Qtal 6             | 4,044                         | 331.58<br>357.20              | Jan. 5, 1960<br>Feb. 2, 1977  | T, E           | F            | Slotted from 359-515 ft. Pump sec at 40 ft. Plugged back to 515 ft. Base of fresh water at 620 ft in test hole. 1/ 2/ 3/   |
| * 205                     | do  | C. R. Jensen               | 1940           | 1,018              | 4              | 520            | Qtal 6             | 4,042                         | 317.71<br>346.37              | May 27, 1940<br>Jan. 15, 1976 | N              | N            | Slotted from 419-520 ft. 1/ 3/   |
| * 206                     | U.S. Geological Survey                            | E & W Drilling Company     | 1953           | 1,200              | --             | --             | Qtal 6             | 4,125                         | 379.0                         | July 22, 1953                 | N              | N            | Test well. Filled and abandoned. Electric log and drill-stem tests indicate fresh-water sands extend to 700 ft. 1/ 2/  |
| 207                       | City of El Paso                                   | City of El Paso            | 1958           | 1,210              | 6-3/4          | --             | Qtal 6             | 4,114                         | 402                           | Oct. 27, 1958                 | N              | N            | Plugged and abandoned. Brackish water (Cl = 280 mg/l) at 590 ft. Electric log indicates fresh water to depth of 535 ft. 2/   |
| * 208                     | do  | do                         | 1962           | 665                | 24<br>18       | 366<br>665     | Qtal 6             | 4,064                         | 359.22                        | Aug. 6, 1962                  | T, E           | Ind          | Screened from 376-665 ft. Drawdown 37 ft after 6-1/2 hours pumping 1,227 gpm on Aug. 7, 1962. Drilled to 825 ft and plugged back to 665 ft. Base of fresh water at 740 ft. Temp. 81°F. |
| 209                       | do  | do                         | 1963           | 878                | --             | --             | Qtal 6             | 4,109                         | 409                           | Sept. 13, 1963                | N              | N            | Test well. Filled. 2/  |
| 210                       | Wholesome Dairy                                   | --                         | --             | 700                | 10             | --             | Qtal 6             | 4,247                         | 508                           | June 1954                     | G, W           | S            | --   |
| 211                       | City of El Paso                                   | City of El Paso            | 1959           | 91                 | 41             | --             | Qtal 6             | 4,130                         | --                            | --                            | N              | N            | Filled. Completed in dry sand and gravel. Recharge shaft.  |
| * 212                     | El Paso Electric Company Well 6                   | do                         | 1975           | 839                | 24<br>16       | 361<br>839     | Qtal 6             | 4,047                         | 346.0                         | Feb. 1975                     | T, E           | Ind          | Slotted from 463-839 ft. Drawdown 28 ft after 24 hours pumping 1,600 gpm.  |
| * 213                     | El Paso Electric Company Well 7                   | do                         | 1975           | 875                | 24<br>16       | 364<br>875     | Qtal 6             | 4,030                         | 340.1                         | do                            | T, E           | Ind          | Slotted from 445-875 ft. Drawdown 34 ft after 24 hours pumping 1,800 gpm.  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                         | Driller                | Date completed | Depth of well (ft) | Casing            |                     | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks  |
|---------------------------|-------------------------------|------------------------|----------------|--------------------|-------------------|---------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|--|
|                           |                               |                        |                |                    | Diameter (in.)    | Depth (ft)          |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |  |
| El Paso County--Continued |                               |                        |                |                    |                   |                     |                    |                               |                               |                               |                |              |  |
| * JL-49-05-301            | City of El Paso               | City of El Paso        | 1958           | 671                | 24<br>18<br>12    | 314<br>505<br>671   | Qcal 6             | 4,018                         | 316.4<br>341.21               | June 13, 1960<br>Feb. 2, 1977 | T, E           | P            | Slotted from 320-505 ft and 507-671 ft. Drawdown 37 ft after 8 hours pumping 1,600 gpm on June 16, 1960. <u>Y Y Y</u>                                      |
| 302                       | El Paso Natural Gas Company   | Folk & Bassett         | 1947           | 771                | 10                | --                  | Qcal 6             | 4,028                         | --                            | --                            | T, E           | N            | Not used. Pump sands. <u>Y</u>   |
| 303                       | Price's Dairy                 | Layne-Texas Company    | 1955           | 870                | 24<br>18<br>12    | --<br>--<br>--      | Qcal 6             | 4,044                         | 338<br>364                    | May 16, 1955<br>May 16, 1963  | T, E           | Irr          | Drawdown 62 ft after 24 hours pumping 1,300 gpm on May 16, 1955. Drilled to 1,012 ft; cement plug from 870-902 ft. Base of fresh water at 603 ft. <u>Y</u> |
| * 304                     | do                            | do                     | 1955           | 753                | 24<br>18<br>12    | --<br>--<br>--      | Qcal 6             | 4,055                         | 338                           | July 15, 1955                 | T, E           | Irr          | Drawdown 61 ft after 24 hours pumping 1,300 gpm on July 1, 1955. Drilled to 875 ft and plugged back to 753 ft. Temp. 79°F.                                 |
| * 305                     | City of El Paso               | City of El Paso        | 1965           | 834                | 24<br>18          | 364<br>499          | Qcal 6             | 4,055                         | 352.4                         | Sept. 23, 1965                | T, E           | Ind          | Screened from 374-499 ft. Drawdown 54 ft after 7-1/2 hours pumping 1,200 gpm on Sept. 23, 1965. Temp. 79°F. <u>Y</u>                                       |
| * 306                     | do                            | do                     | 1965           | 603                | 24<br>18          | 370<br>603          | Qcal 6             | 4,054                         | 364.02<br>364.97              | Aug. 5, 1965<br>Feb. 8, 1977  | T, E           | P            | Screened from 391-603 ft. Drawdown 77 ft after 12 hours pumping 1,200 gpm on Aug. 6, 1965. Drilled to 1,100 ft and plugged back to 603 ft. <u>Y Y Y</u>    |
| 307                       | El Paso Natural Gas Company   | Layne-Texas Company    | 1958           | 650                | 20<br>12          | --<br>--            | Qcal 6             | --                            | --                            | --                            | T, E           | Ind          | Screened from 423-650 ft.  |
| 308                       | City of El Paso               | City of El Paso        | 1965           | 701                | --                | --                  | Qcal 6             | 4,062                         | 367                           | Apr. 24, 1965                 | N              | N            | Test hole. <u>Y</u>  |
| * 309                     | do                            | do                     | 1965           | 795                | 4                 | 660                 | Qcal 6             | 4,025                         | 312.0<br>350.88               | Oct. 15, 1965<br>Jan. 1974    | C, W           | D, S         | Slotted from 510-550 ft and 610-650 ft. <u>Y Y</u>   |
| 310                       | U.S. Geological Survey        | B & W Drilling Company | 1953           | 950                | --                | --                  | Qcal 6             | 4,061                         | 347.2                         | May 26, 1953                  | N              | N            | Test hole. Filled. Electric log and drill-stem logs indicate fresh-water sands extend to 380 ft. <u>Y Y</u>  |
| 311                       | El Paso Natural Gas Company   | George McKenzie        | 1951           | 750                | --                | --                  | Qcal 6             | 4,080                         | 337                           | Oct. 2, 1951                  | T, E           | Ind          | Pump set at 540 ft. Reported yield 150 gpm.  |
| 312                       | do                            | --                     | --             | 630                | --                | --                  | Qcal 6             | 4,031                         | 340.2                         | June 12, 1953                 | T, E           | Ind          | Slotted from 405-435 ft, 474-504 ft, and 555-615 ft. Reported yield 150 gpm.   |
| 313                       | Price's Dairy                 | --                     | --             | 360                | 5                 | --                  | Qcal 6             | 4,008                         | 291.6<br>298.1                | Aug. 9, 1935<br>Jan. 7, 1954  | N              | N            | Filled.  |
| 314                       | El Paso Sand Products Company | --                     | --             | --                 | 20<br>16<br>8-1/4 | 20<br>185<br>465    | Qcal 6             | 4,062                         | 385                           | June 4, 1973                  | T, E           | Ind          | Slotted from 385-465 ft.   |
| * 501                     | City of El Paso               | City of El Paso        | 1956           | 840                | 24<br>12          | 290<br>840          | Qcal 6             | 4,003                         | 320<br>359.88                 | Dec. 22, 1956<br>Jan. 7, 1975 | T, E           | P            | Screened from 429-840 ft. Drawdown 77 ft after 24 hours pumping 1,001 gpm on Dec. 22, 1956. <u>Y Y</u>   |
| * 502                     | Price's Dairy                 | C. H. Jensen           | 1940           | 1,202              | 4                 | 567                 | Qcal 6             | 4,047                         | 335.60<br>381.17              | Apr. 23, 1940<br>Feb. 2, 1977 | N              | N            | Test well. Slotted from 342-381 ft, 440-461 ft, 474-492 ft, and 501-524 ft. <u>Y Y</u>   |
| * 503                     | City of El Paso               | City of El Paso        | 1963           | 570                | 24<br>18          | 329<br>570          | Qcal 6             | 4,029                         | 349.15<br>374.13              | Dec. 6, 1963<br>Feb. 2, 1977  | T, E           | P            | Slotted from 360-570 ft. Drawdown 34 ft after 24 hours pumping 700 gpm. Temp. 81°F. <u>Y Y</u>   |
| 504                       | do                            | --                     | --             | 1,152              | 24<br>18<br>12    | 472<br>802<br>1,152 | Qcal 6             | 4,130                         | 470.17<br>489.55              | Jan. 1970<br>Feb. 4, 1977     | T, E           | P            | Slotted from 481-1,152 ft. <u>Y Y</u>  |
| * 505                     | do                            | City of El Paso        | 1963           | 1,150              | 6<br>4            | 1,325<br>--         | Qcal 6             | 4,202                         | 512.30                        | Aug. 27, 1963                 | N              | N            | Estimated yield 500-600 gpm. Observation well. <u>Y Y</u>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner  | Driller                | Date completed | Depth of well (ft) | Casing             |                     | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|--|------------------------|----------------|--------------------|--------------------|---------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |  |                        |                |                    | Diameter (in.)     | Depth (ft)          |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |  |                        |                |                    |                    |                     |                    |                               |                               |                                |                |              |   |
| * JL-49-05-506            | City of El Paso                                | City of El Paso        | 1963           | 737                | --                 | --                  | Qtal 6             | 4,128                         | 434                           | Aug. 29, 1963                  | N              | N            | Test well. Filled. <u>2</u>   |
| * 507                     | U.S. Geological Survey                         | B & W Drilling Company | 1953           | 1,635              | 3                  | 630                 | Qtal 6             | 4,120                         | 423.08<br>448.27              | Jan. 7, 1954<br>Jan. 1966      | N              | N            | Test well. Slotted from 610-630 ft. Electric log and drill-stem tests indicate fresh-water sands extend to 1,260 ft. Observation well. <u>1</u> <u>2</u> <u>3</u>   |
| * 508                     | City of El Paso                                | C. R. Jensen           | 1940           | 788                | 4                  | 466                 | Qtal 6             | 4,048                         | 338.67                        | June 21, 1940                  | N              | N            | Test well. Filled and abandoned. Screened from 446-466 ft. Drill-stem tests indicate fresh-water sands extend to 510 ft. <u>1</u>   |
| * 601                     | do   | City of El Paso        | 1958           | 690                | 24<br>18<br>12     | 335<br>500<br>690   | Qtal 6             | 3,999                         | 298.96<br>330.44              | July 7, 1958<br>Jan. 19, 1976  | T, E           | P            | Slotted from 350-690 ft. Drawdown 51 ft after 24 hours pumping 1,303 gpm on July 22, 1958. Temp. 78°F. <u>1</u> <u>2</u> <u>3</u>   |
| * 602                     | do   | do                     | --             | 699                | 24<br>18<br>12     | 335<br>502<br>699   | Qtal 6             | 4,009                         | 308.51<br>338.30              | May 2, 1958<br>Feb. 8, 1977    | T, E           | P            | Slotted from 354-699 ft. Drawdown 61 ft after 22 hours pumping 1,500 gpm on May 6, 1958. <u>1</u> <u>2</u> <u>3</u>   |
| * 603                     | do   | do                     | 1957           | 657                | 24<br>18<br>12     | 326<br>506<br>657   | Qtal 6             | 3,987                         | 289.73<br>358.79              | Nov. 15, 1957<br>Feb. 1, 1977  | T, E           | P            | Slotted from 335-657 ft. Drawdown 44 ft after 68 hours pumping on Nov. 18, 1957. Temp. 79°F. <u>1</u> <u>2</u> <u>3</u>   |
| * 604                     | do   | do                     | 1958           | 804                | 24<br>18<br>12     | 281<br>500<br>802   | Qtal 6             | 3,973                         | 276.21<br>313.82              | Feb. 13, 1958<br>Feb. 8, 1977  | T, E           | P            | Slotted from 330-802 ft. Drawdown 23 ft after 8 hours pumping 1,304 gpm on Feb. 13, 1958. Temp. 78°F. <u>1</u> <u>3</u>   |
| * 605                     | do   | --                     | 1960           | 770                | 24<br>18<br>12     | 305<br>543<br>769   | Qtal 6             | 3,985                         | 300.65<br>319.72              | July 12, 1960<br>Feb. 8, 1977  | T, E           | P            | Slotted from 324-769 ft. Drawdown 62 ft after 23 hours pumping 2,008 gpm on Aug. 13, 1960. Base of fresh water at 850 ft. Plugged back to 770 ft. <u>2</u> <u>3</u>   |
| * 606                     | do   | City of El Paso        | 1956           | 826                | 24<br>18<br>12     | 293<br>449<br>766   | Qtal 6             | 3,962                         | 274<br>301.65                 | May 10, 1956<br>Feb. 2, 1977   | T, E           | P            | Slotted from 310-766 ft. Drawdown 85 ft after 24 hours pumping on May 10, 1956. <u>1</u> <u>2</u> <u>3</u>  |
| * 607                     | do   | do                     | 1959           | 826                | 24<br>18<br>12     | 295<br>505<br>826   | Qtal 6             | 3,929                         | 244.2<br>277.20               | Nov. 17, 1959<br>Feb. 8, 1977  | T, E           | P            | Slotted from 308-826 ft. Drawdown 47 ft after 8 hours pumping 1,500 gpm on Nov. 17, 1959. Temp. 76°F. <u>1</u> <u>2</u> <u>3</u>  |
| * 608                     | do   | do                     | 1966           | 825                | 12<br>4            | 790<br>825          | Qtal 6             | 3,997                         | 330.05<br>331.44              | June 2, 1966<br>June 27, 1975  | N              | N            | Test well. Slotted from 695-710 ft and 800-820 ft. Drilled to 4,363 ft and plugged back to 825 ft. Observation well. <u>2</u> <u>3</u>  |
| 610                       | do   | do                     | 1956           | 752                | --                 | 200                 | Qtal 6             | 3,966                         | 319.23<br>327.34              | May 31, 1956<br>June 20, 1977  | N              | N            | Slotted from 200-752 ft. Observation well recorder. <u>2</u> <u>3</u>   |
| * 611                     | U.S. Geological Survey                         | B & W Drilling Company | 1953           | 1,200              | --                 | --                  | Qtal 6             | 3,974                         | 271.2                         | May 25, 1953                   | N              | N            | Test well. Filled. Electric log and drill-stem tests indicate fresh-water sands extend to 900 ft. <u>1</u> <u>2</u>   |
| 612                       | Consolidated Industrial Development of El Paso | Joe Bradford           | 1970           | 475                | 12-3/4             | 475                 | Qtal 6             | 3,943                         | 350                           | Oct. 30, 1970                  | Sub, E         | Ind          | Slotted from 175-475 ft. <u>1</u>   |
| * 801                     | City of El Paso                                | City of El Paso        | 1958           | 1,126              | 24<br>18<br>12     | 356<br>799<br>1,126 | Qtal 6             | 4,090                         | 404.2<br>463.85               | Jan. 5, 1960<br>Jan. 26, 1976  | T, E           | P            | Slotted from 418-1,126 ft. Drawdown 44 ft after 68 hours pumping 1,610 gpm on Nov. 18, 1957. Temp. 79°F. <u>1</u> <u>2</u> <u>3</u>   |
| * 802                     | do   | Layne-Texas Company    | 1953           | 830                | 24<br>18<br>12-3/4 | 350<br>467<br>830   | Qtal 6             | 3,972                         | 288<br>375.39                 | Mar. 25, 1953<br>Jan. 16, 1974 | T, E           | P            | Slotted from 360-820 ft. Drawdown 56 ft after 24 hours pumping 1,500 gpm on Mar. 24, 1953. Electric log of test well drilled at the location in 1939 to 1,177 ft indicates fresh-water sands extend to 855 ft. <u>1</u> <u>2</u> <u>3</u> |

See footnotes at end of table.

Table 3.--Records of Selected Wells--Continued

| Well                      | Owner                        | Driller             | Date completed | Depth of well (ft) | Casing             |                     | Water bearing unit | Altitude of land surface (ft) | Water Level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|------------------------------|---------------------|----------------|--------------------|--------------------|---------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                              |                     |                |                    | Diameter (in.)     | Depth (ft)          |                    |                               | Below land-surface Jarom (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                              |                     |                |                    |                    |                     |                    |                               |                               |                                |                |              |  |
| * JL-49-D5-803            | City of El Paso              | Layne-Texas Company | 1952           | 832                | 24<br>18<br>12     | 293<br>428<br>830   | Qtal 6             | 3,958                         | 258.54<br>312.76              | Jan. 15, 1953<br>Feb. 1, 1977  | T, E           | P            | Slotted from 318-830 ft. Drawdown 55 ft after 24 hours pumping 1,337 gpm on Feb. 12, 1954. Pump set at 380 ft. Electric log of test well drilled at this location in 1939 to 1,206 ft indicates fresh-water sands extend to 922 ft. <u>1/2/3</u>       |
| * 804                     | do                           | do                  | 1952           | 790                | 24<br>18<br>12-3/4 | 240<br>411<br>790   | Qtal 6             | 3,908                         | 223.56                        | Jan. 15, 1953                  | T, E           | P            | Slotted from 301-788 ft. Gravel-walled. Drawdown 47 ft after pumping 1,515 gpm on Nov. 9, 1952. Pump set at 380 ft. Electric log of 1,357-foot test well drilled at this location in 1939 indicates fresh-water sands extend to 1,165 ft. <u>1/2/3</u> |
| 805                       | do                           | C. R. Jensen        | 1939           | 1,217              | --                 | --                  | Qtal 6             | 3,890                         | --                            | --                             | N              | N            | Test well. Filled. Electric log indicates fresh-water sands extend to bottom of well. <u>1/2</u>   |
| 806                       | H. A. Geschwind              | --                  | --             | --                 | --                 | --                  | --                 | 3,954                         | 259.60<br>264.26              | Jan. 15, 1951<br>Feb. 10, 1954 | N              | N            | Destroyed.   |
| 807                       | U.S. Army                    | Wheeler Casing      | 1962           | 360                | 6                  | --                  | Qtal 6             | 3,918                         | 264.48                        | July 1, 1966                   | N              | N            | Abandoned.   |
| 808                       | Joe Crump                    | Jim Folk            | 1948           | 480                | --                 | --                  | Qtal 6             | 3,968                         | 295                           | --                             | N              | N            | Destroyed.   |
| 809                       | do                           | Wheeler Casing      | 1953           | 515                | 12                 | 515                 | Qtal 6             | 3,967                         | 281.91                        | Mar. 17, 1954                  | N              | N            | Abandoned and destroyed.   |
| 810                       | do                           | do                  | 1950           | 500                | 14                 | 500                 | Qtal 6             | 3,966                         | 284.7                         | Mar. 18, 1954                  | T, C           | Tr           | Perforated from 320-500 ft. Reported yield 1,000 gpm.  |
| * 901                     | City of El Paso              | City of El Paso     | 1955           | 727                | 24<br>18<br>12     | 291<br>447<br>727   | Qtal 6             | 3,946                         | 256.85<br>296.04              | July 30, 1956<br>Feb. 1, 1977  | T, E           | P            | Slotted from 348-727 ft. Drawdown 75 ft after 24 hours pumping 1,300 gpm on Dec. 16, 1958. <u>1/2/3</u>  |
| * 902                     | do                           | do                  | 1955           | 820                | 24<br>18<br>12     | 298<br>459<br>836   | Qtal 6             | 3,936                         | 255.29<br>290.13              | Aug. 6, 1956<br>Feb. 1, 1977   | T, E           | P            | Slotted from 360-820 ft. Drawdown 72 ft after 24 hours pumping 1,150 gpm on Dec. 11, 1958. Pump set at 380 ft. <u>1/2/3</u>  |
| * 903                     | do                           | do                  | 1963           | 1,050              | 24<br>18<br>12     | 260<br>500<br>1,037 | Qtal 6             | 3,918                         | 248.29<br>264.11              | July 1, 1963<br>Feb. 8, 1977   | T, E           | P            | Slotted from 269-1,037 ft. Drawdown 45 ft after 8 hours pumping 1,400 gpm on June 28, 1963. Pump set at 400 ft. Plugged back to 1,050 ft. Electric log indicates salt water at 1,195 ft. Temp. 77°F. <u>2/3</u>  |
| 904                       | U.S. Army                    | Texas Water Well    | 1958           | 834                | --                 | --                  | Qtal 6             | 3,920                         | 249.0<br>252.4                | Nov. 18, 1958<br>Nov. 20, 1958 | T, E           | P            | Drawdown 68 ft after 8 hours pumping 1,100 gpm on Nov. 20, 1958. Temp. 77°F.   |
| * 905                     | City of El Paso              | H. M. Stanley       | 1936           | 500                | 2                  | 400                 | Qtal 6             | 3,944                         | 244.45<br>303.14              | July 1936<br>July 20, 1977     | N              | N            | Observation well. <u>1/3</u>   |
| * 906                     | do                           | City of El Paso     | 1966           | 1,198              | 24<br>18<br>12     | 270<br>698<br>950   | Qtal 6             | 3,925                         | 252.3<br>268.46               | Mar. 16, 1966<br>Feb. 8, 1977  | N              | N            | Slotted from 330-950 ft. Drawdown 46 ft after 24 hours pumping 1,800 gpm on Mar. 17, 1966. Temp. 79°F. <u>1/2/3</u>  |
| 907                       | Likins-Poster and Associates | --                  | 1950           | 322                | 14                 | 322                 | Qtal 6             | 3,918                         | 216.0                         | --                             | N              | N            | Abandoned. Reported yield 1,300 gpm.   |
| * 908                     | City of El Paso              | C. R. Jensen        | 1940           | 1,007              | --                 | --                  | Qtal 6             | 3,912                         | 210.80                        | Dec. 12, 1940                  | N              | N            | Test well. Destroyed. Drill-stem tests indicate fresh-water sands extend at least to 820 ft. <u>1/2</u>  |
| 909                       | Alfredo Avila                | --                  | 1952           | 409                | 8                  | 409                 | Qtal 6             | 3,932                         | 220                           | 1953                           | N              | N            | Abandoned. Slotted from 220-409 ft. Reported drawdown 10 ft after 60 hours pumping 300 gpm. Pump set at 260 ft.  |
| 910                       | Boyd                         | Wheeler Casing      | 1951           | 544                | 16                 | 544                 | Qtal 6             | 3,910                         | 314.78                        | Mar. 17, 1954                  | N              | N            | Abandoned. Reported yield 1,000 gpm.   |
| 911                       | L. G. Rogers                 | -- Prince           | 1949           | 440                | 10                 | 440                 | Qtal 6             | 3,912                         | 228.23                        | do                             | N              | N            | Destroyed. Reported yield 450-500 gpm.   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner           | Driller                            | Date completed | Depth of well (ft) | Casing         |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks   |
|---------------------------|-----------------|------------------------------------|----------------|--------------------|----------------|-------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|---|
|                           |                 |                                    |                |                    | Diameter (in.) | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |   |
| El Paso County--Continued |                 |                                    |                |                    |                |                   |                    |                               |                               |                               |                |              |   |
| JL-49-05-912              | F. Wardy        | -- Tillary                         | 1954           | 450                | 12             | 450               | Qtal 6             | 3,920                         | --                            | --                            | T, E           | Irr          | Screened from 200-450 ft. Reported yield 1,000 gpm.   |
| 06-101                    | City of El Paso | City of El Paso                    | 1965           | 894                | 24<br>18       | 324<br>551        | Qtal 6             | 4,023                         | 320.85<br>343.64              | Mar. 16, 1965<br>Jan. 6, 1975 | T, E           | P            | Drawdown 60 ft after 18 hours pumping 1,000 gpm. Temp. 79°F. <u>Y</u>   |
| *                         | 102             | Price's Dairy                      | 1953           | 825                | 3              | 520               | Qtal 6             | 4,048                         | 331.15<br>344.10              | Jan. 7, 1954<br>Jan. 3, 1977  | N              | N            | Slotted from 500-520 ft. Drilled as test hole. Electric log and drill-stem tests indicate fresh-water sands extend to 430 ft. Observation well. <u>Y</u> <u>Y</u> <u>Y</u>  |
|                           | 103             | Rosebud Imports                    | 1967           | 455                | 8              | 445               | Qtal 6             | 4,000                         | 314                           | Jan. 1967                     | Sub, E         | Yed          | Slotted from 355-445 ft.  |
|                           | 104             | City of El Paso                    | 1965           | 949                | --             | --                | Qtal 6             | 4,032                         | 338                           | Mar. 9, 1965                  | N              | N            | Test hole. Electric log and drill-stem tests indicate no fresh water. Temp. 79°F. <u>Y</u>  |
| w                         | 105             | Price's Dairy                      | --             | 450                | 6<br>4         | 300<br>450        | Qtal 6             | 4,059                         | 379.5                         | Apr. 10, 1975                 | N              | N            | Abandoned.  |
|                           | 106             | E. L. Kirby                        | 1971           | 410                | --             | --                | Qtal 6             | 4,005                         | 325<br>387.65                 | Feb. 1973<br>1974             | Sub, E         | D            | Not used.   |
|                           | 107             | E. S. Underwood                    | 1971           | 450                | 6              | --                | Qtal 6             | 4,010                         | 340                           | --                            | Sub, E         | S            | Reported yield 20 gpm.  |
|                           | 108             | Circle G Stables                   | 1971           | 450                | 6              | --                | Qtal 6             | 4,008                         | 387.95                        | 1974                          | Sub, E         | S            | --  |
|                           | 109             | --                                 | 1971           | 400                | 6              | --                | Qtal 6             | 4,003                         | --                            | --                            | Sub, E         | N            | --  |
|                           | 110             | -- Gachwind                        | 1971           | 400                | 6              | --                | Qtal 6             | 4,014                         | 387.4                         | 1974                          | Sub, E         | N            | --  |
| w                         | 201             | U.S. Geological Survey             | 1953           | 800                | --             | --                | Qtal 6             | 3,995                         | 270.0                         | Mar. 21, 1953                 | N              | N            | Test well. Destroyed. Reported yield 800 gpm. <u>Y</u> <u>Y</u>   |
|                           | 401             | City of El Paso                    | 1965           | 451                | 24<br>18       | 328<br>451        | Qtal 6             | 4,002                         | 311.11<br>319.20              | May 11, 1965<br>Feb. 8, 1977  | N              | N            | Slotted from 348-451 ft. Drawdown 62 ft after 24 hours pumping 1,000 gpm on May 11, 1965. Drilled to 995 ft and plugged back to 451 ft. Observation well. <u>Y</u> <u>Y</u> <u>Y</u>  |
| *                         | 402             | do                                 | 1963           | 670                | 24<br>18<br>12 | 300<br>549<br>670 | Qtal 6             | 4,023                         | 326.49<br>343.59              | Oct. 30, 1963<br>Feb. 8, 1977 | T, E           | P            | Slotted from 550-670 ft. Drawdown 69 ft after 24 hours pumping 1,600 gpm on Oct. 31, 1963. Pump set at 450 ft. Drilled to 1,063 ft and plugged back to 670 ft. Electric log indicates salt water at 673 ft. <u>Y</u> <u>Y</u> |
|                           | 403             | J. K. Shearman                     | 1942           | 515                | 8<br>6         | 342<br>515        | Qtal 6             | 3,991                         | 286.3<br>288.52               | Jan. 23, 1942<br>Apr. 7, 1953 | T, E           | S, Irr       | Screened from 342-386 and 453-515 ft. Pump set at 320 ft. Reported yield 150 gpm. <u>Y</u>  |
| *                         | 404             | Farah Manufacturing Company        | 1975           | 683                | 20<br>14       | 320<br>396        | Qtal 6             | 3,989                         | 335                           | Sept. 23, 1975                | --             | Ind          | Screened from 396-683 ft. Drawdown 90 ft after 78 hours pumping 1,165 gpm on Sept. 23, 1975. <u>Y</u>   |
| w                         | 501             | U.S. Army (U.S. Geological Survey) | 1953           | 1,005              | 3              | 450               | Qtal 6             | 3,975                         | 266.81<br>278.34              | Jan. 6, 1954<br>Jan. 4, 1977  | N              | N            | Test well. Slotted from 430-450 ft. Electric log and drill-stem tests indicate fresh-water sands extend to 530 ft. Observation well. <u>Y</u> <u>Y</u> <u>Y</u>   |
| *                         | 502             | U.S. Army                          | --             | --                 | 6              | --                | --                 | 3,975                         | 267.24<br>268.9               | Apr. 3, 1936<br>Jan. 6, 1954  | N              | N            | Abandoned. Originally drilled as unsuccessful oil well and converted into water well, pumping about 5 gpm.  |
| w                         | 601             | U.S. Army (U.S. Geological Survey) | 1953           | 316                | 3              | 502               | Qtal 6             | 4,012                         | 308.4<br>319.47               | Apr. 9, 1954<br>Feb. 17, 1971 | N              | N            | Test well. Plugged at 316 ft. May 1, 1975-well dry at measured depth of 316 ft. Observation well. <u>Y</u> <u>Y</u> <u>Y</u>  |
|                           | 602             | U.S. Army                          | --             | --                 | 6              | --                | --                 | 4,046                         | 337.5                         | Apr. 14, 1954                 | N              | N            | Destroyed.  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                      | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|----------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                            |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                            |                            |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| * 3L-49-06-701            | U.S. Army                  | Layne-Texas Company        | 1959           | 819                | 24<br>16       | --         | Qcal 6             | 3,944                         | 274                           | Dec. 2, 1959                   | T, E           | P            | Drawdown 71 ft after 24 hours pumping 1,571 gpm on Dec. 3, 1959. Pump set at 370 ft.                         |
| * 702                     | do                         | do                         | 1952           | 450                | 6-5/8          | 450        | Qtal 6             | 3,973                         | 273.38<br>299.24              | Feb. 4, 1952<br>Feb. 4, 1977   | N              | N            | Slotted from 320-360 ft. Temp. 74°F. Observation well. <u>2</u> <u>3</u>                                     |
| * 703                     | do                         | do                         | 1952           | 550                | 6-5/8          | 550        | Qtal 6             | 3,972                         | 273.4<br>284.60               | Feb. 29, 1952<br>May 1, 1975   | N              | N            | Slotted from 510-550 ft. Observation well. <u>1</u> <u>2</u> <u>3</u>  |
| * 704                     | City of El Paso            | C. R. Jensen               | 1940           | 990                | --             | --         | Qtal 6             | 3,977                         | 274.5                         | Sept. 27, 1940                 | N              | N            | Test well. Filled. Drill-stem tests indicate fresh-water sands to 445 ft. <u>1</u>                           |
| * 705                     | do                         | do                         | 1940           | 957                | --             | --         | Qtal 6             | 3,962                         | 265.87                        | Nov. 4, 1940                   | N              | N            | Test well. Filled. Drill-stem tests indicate fresh-water sands extend to 700 ft. <u>1</u>                    |
| 12-101                    | U.S. Bureau of Reclamation | U.S. Bureau of Reclamation | 1945           | 20                 | 2-1/2          | 20         | Qal Rg             | 3,748                         | 6.8<br>5.20                   | Jan. 1946<br>Dec. 1976         | N              | N            | Observation well.  |
| * 102                     | Erich Brandes              | George McKenzie            | 1951           | 123                | 18             | 123        | Qal Rg             | 3,753                         | 6.90<br>6.59                  | June 10, 1952<br>Mar. 24, 1975 | T, G           | Irr          | Pump set at 80 ft. Reported yield 1,800 gpm. <u>1</u> <u>3</u> <u>4</u>                                      |
| * 103                     | Indar Singh                | Wheeler Case               | 1951           | 130                | 16             | 130        | Qal Rg             | 3,751                         | 7.29<br>5.33                  | Jan. 16, 1953<br>Dec. 28, 1976 | T, G           | N            | Pump set at 100 ft. Temp. 67°F. <u>3</u>   |
| * 104                     | City of El Paso            | do                         | --             | 50                 | 1-1/2          | 50         | Qal Rg             | 3,750                         | 10.09<br>7.54                 | May 16, 1968<br>June 25, 1976  | N              | N            | Slotted from 20-50 ft. Observation well. <u>1</u> <u>3</u>   |
| * 105                     | do                         | do                         | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,752                         | 6.84<br>5.52                  | May 20, 1968<br>June 25, 1976  | N              | N            | Slotted from 20-50 ft. Observation well. Temp. 72°F. <u>1</u> <u>3</u>                                       |
| * 106                     | U.S. Geological Survey     | B & W Drilling Company     | 1953           | 407                | 6-3/4          | --         | Qtal 6             | 3,800                         | 54.9                          | Nov. 9, 1953                   | N              | N            | Test well. Filled. Electric log and drill-stem tests indicate no fresh water below 100 ft. <u>1</u> <u>2</u> |
| 107                       | Thomas & Martin            | --                         | --             | 110                | 16             | --         | Qal Rg             | 3,754                         | 5.48<br>5.25                  | Apr. 28, 1951<br>Dec. 28, 1976 | T, G           | Irr          | Reported yield 986 gpm. <u>3</u>   |
| * 108                     | Willard Beerman            | --                         | 1951           | 128                | 16             | --         | Qal Rg             | 3,751                         | 7.6<br>6.82                   | Apr. 28, 1951<br>Mar. 24, 1975 | N              | N            | Reported yield 1,000 gpm. Observation well. <u>3</u> <u>4</u>  |
| 109                       | M. M. Friedman             | --                         | 1952           | --                 | --             | --         | --                 | 3,751                         | 7.5<br>5.3                    | Jan. 16, 1953<br>Jan. 13, 1959 | N              | N            | Gravel-walled. Temp. 67°F. <u>3</u> <u>4</u>   |
| 110                       | do                         | --                         | --             | 205                | 16             | --         | Qal Rg             | 3,751                         | 7.8<br>8.44                   | Apr. 28, 1951<br>Mar. 24, 1975 | T, G           | Irr          | Reported yield 2,000 gpm. <u>4</u>   |
| 113                       | L. T. Cox                  | -- Bentley                 | 1951           | 65                 | 16             | --         | Qal Rg             | 3,747                         | 8.34<br>6.9                   | Mar. 14, 1952<br>Jan. 13, 1959 | T, G           | Irr          | Pump set at 50 ft. <u>3</u>  |
| 114                       | Erich Brandes              | --                         | 1948           | 64                 | --             | --         | Qal Rg             | 3,749                         | --                            | --                             | T              | Irr          | --   |
| * 115                     | L. T. Stock                | George McKenzie            | 1951           | 92                 | 22             | 92         | Qal Rg             | 3,751                         | --                            | --                             | N              | N            | Destroyed. Temp. 66°F.   |
| * 116                     | J. H. Padgett              | Remedial Oil Service       | 1951           | 125                | 16             | --         | Qal Rg             | 3,750                         | 9.45<br>8.1                   | Mar. 14, 1952<br>Jan. 18, 1956 | T, Ng          | Irr          | Pump set at 70 ft. Reported yield 1,400 gpm. <u>3</u>  |
| 117                       | U.S. Bureau of Reclamation | U.S. Bureau of Reclamation | 1945           | 20                 | 2-1/2          | 20         | Qal Rg             | 3,748                         | 9.3<br>8.4                    | Jan. 1946<br>Dec. 1976         | N              | N            | Auger hole cased with galvanized-iron pipe. Observation well.  |
| 118                       | El Paso Country Club       | --                         | --             | --                 | --             | --         | --                 | 3,747                         | 10.41<br>9.4                  | Jan. 15, 1953<br>Jan. 22, 1959 | T, E           | Irr          | <u>3</u>   |
| 119                       | William F. Boward          | R. A. Morales              | 1957           | 70                 | 8              | --         | Qal Rg             | 3,740                         | --                            | --                             | Sub, E         | Irr          | Perforated from 67-70 ft.  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                 | Driller                  | Date completed | Depth of well (ft) | Casing          |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|-----------------------|--------------------------|----------------|--------------------|-----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                       |                          |                |                    | Diameter (in.)  | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                       |                          |                |                    |                 |            |                    |                               |                               |                                |                |              |  |
| * JL-49-12-120            | City of El Paso       | --                       | --             | --                 | 18              | --         | --                 | 3,759                         | 8.45<br>5.55                  | Dec. 29, 1967<br>Mar. 27, 1975 | T, Ng          | Irr          | --   |
| 121                       | J. E. Griggs          | Ballard Drilling Company | 1972           | 105                | --              | --         | Qcal 6             | 3,770                         | 14.25                         | Aug. 8, 1972                   | N              | N            | Too salty for use.   |
| * 122                     | do                    | R. A. Morales            | 1958           | 65                 | 3               | --         | Qal Rg             | 3,751                         | 10.                           | Aug. 1972                      | Sub, E         | Irr          | Temp. 67°F.  |
| * 123                     | Katherine Gupion      | --                       | --             | 120                | --              | --         | Qal Rg             | 3,757                         | --                            | --                             | T              | Irr          | 4  |
| 124                       | Arthur Ortiz          | --                       | --             | --                 | 15              | --         | --                 | 3,759                         | --                            | --                             | T, Ng          | Irr          | --   |
| 126                       | Erich Brandes         | --                       | --             | --                 | 20              | --         | --                 | 3,753                         | 9.80                          | Mar. 27, 1975                  | T, C           | Irr          | --   |
| 127                       | Emilio Peinado        | --                       | --             | --                 | 8               | --         | --                 | 3,757                         | --                            | --                             | T, G           | Irr          | 4  |
| 128                       | Pedro Duran           | --                       | --             | --                 | 18              | --         | --                 | 3,756                         | 5.6                           | Mar. 27, 1975                  | T, Ng          | Irr          | --   |
| 129                       | Jose Sapien           | --                       | --             | --                 | 16              | --         | --                 | 3,759                         | --                            | --                             | T, E           | Irr          | --   |
| * 130                     | -- Broadwell          | --                       | --             | 75                 | --              | --         | Qal Rg             | 3,750                         | --                            | --                             | T, E           | Irr          | Temp. 70°F.  |
| * 201                     | City of El Paso       | Wheeler Coss             | 1968           | 50                 | 1-1/2           | 50         | Qal Rg             | 3,751                         | 10.28<br>8.09                 | May 6, 1968<br>June 25, 1976   | N              | N            | Slotted from 20-50 ft. Gravel packed. Observation well. 3  |
| * 202                     | Westerner Motel       | --                       | --             | 203                | --              | --         | Qcal 8             | 3,840                         | 104.72<br>105.5               | Jan. 16, 1953<br>Aug. 31, 1956 | N              | N            | Destroyed. Supplied swimming pool. Reported yield 40 gpm.  |
| 203                       | Paul Harvey           | Layne-Texas Company      | 1938           | 1,245              | --              | --         | Qcal 8             | 3,900                         | --                            | --                             | N              | N            | Test well. Destroyed. Bedrock at 208 ft. 1   |
| * 204                     | Penn's Dairy          | do                       | 1951           | 540                | 10<br>8         | 382<br>--  | Qcal 8             | 3,980                         | 246.01<br>251.5               | Jan. 16, 1953<br>Jun. 23, 1956 | N              | N            | Destroyed. Deepened from 382-540 ft. Temp. 77°F. 1   |
| 205                       | do                    | do                       | 1946           | 383                | 8-5/8<br>6-5/8  | --         | Qcal 8             | 3,981                         | 250                           | --                             | N              | N            | Destroyed. Was screened from 251-259 and 360-381 ft. Drawdown reported 50 ft pumping 40 gpm.                       |
| 206                       | do                    | --                       | --             | 280                | --              | --         | Qcal 8             | 3,983                         | 250                           | --                             | N              | N            | Destroyed. Reported yield 40 gpm.  |
| * 301                     | Broadus-McGrath       | --                       | --             | 425                | --              | --         | Qcal 8             | 4,107                         | --                            | --                             | N              | N            | Destroyed. Reported yield 33 gpm. 1  |
| * 401                     | Riverbend Farms, Inc. | Layne-Texas Company      | 1946           | 127                | 12-3/4<br>6-5/8 | 116<br>--  | Qal Rg             | 3,743                         | 8.0                           | Feb. 14, 1956                  | T, E           | N            | Not used. Screened from 103-114 ft. Drawdown reported 21 ft after pumping 66 gpm on Feb. 14, 1946. 1               |
| * 402                     | do                    | --                       | --             | --                 | --              | --         | --                 | 3,743                         | --                            | --                             | T, E           | N            | --   |
| 403                       | do                    | Layne-Texas Company      | 1938           | 211                | 10-3/4<br>5-1/2 | 170<br>196 | Qal Rg             | 3,746                         | 4.                            | Sept. 1948                     | N              | N            | Screened from 172-193 ft. Drawdown reported 32 ft after pumping 160 gpm on Sept. 23, 1938. Water reported salty. 1 |
| * 404                     | do                    | do                       | 1946           | 92                 | 12-3/4<br>6-5/8 | 74<br>92   | Qal Rg             | 3,741                         | 11.                           | Mar. 9, 1956                   | T, E           | N            | Screened from 80-90 ft. Drawdown reported 10 ft pumping 35 gpm on Feb. 19, 1946.                                   |
| 405                       | do                    | do                       | 1946           | 108                | 12-3/4<br>6-5/8 | 93<br>108  | Qal Rg             | 3,742                         | 2.                            | Feb. 19, 1946                  | T, E           | N            | Screened from 96-106 ft and underreamed from 93-108 ft. Drawdown reported 13 ft pumping 60 gpm on Feb. 19, 1946.   |
| * 406                     | do                    | do                       | 1946           | 127                | --              | --         | Qal Rg             | 3,743                         | --                            | --                             | N              | N            | Test well. Destroyed. 1  |
| * 407                     | do                    | do                       | 1946           | 110                | 12-3/4<br>6-5/8 | 107<br>--  | Qal Rg             | 3,745                         | 9.                            | Feb. 25, 1946                  | T, E           | N            | Screened from 96-106 ft and underreamed from 97-110 ft. Drawdown reported 13 ft pumping 60 gpm on Feb. 25, 1946.   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                                 | Driller                              | Date completed | Depth of well (ft) | Casing             |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|---------------------------------------|--------------------------------------|----------------|--------------------|--------------------|-------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                                       |                                      |                |                    | Diameter (in.)     | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                                       |                                      |                |                    |                    |                   |                    |                               |                               |                                |                |              |   |
| JL-49-12-432              | George Doyle                          | Agua Drilling Company                | 1972           | 72                 | 6                  | 44                | Qal Rg             | 3,747                         | 5.57                          | Aug. 8, 1972                   | Sub, E         | D, S         | Drawdown reported 5 ft after 3 hours pumping 40 gpm.  |
| 501                       | U.S. Bureau of Reclamation            | U.S. Bureau of Reclamation           | 1945           | 20                 | 2-1/2              | 20                | Qal Rg             | 3,735                         | 6.5<br>6.8                    | Jan. 1946<br>Dec. 1976         | N              | N            | Auger hole cased with galvanized-iron pipe. Observation well.   |
| 502                       | Yucca Council - Boy Scouts of America | --                                   | --             | 48                 | 12                 | 48                | Qal Rg             | 3,740                         | 9.1                           | Mar. 17, 1953                  | T, E           | Irr          | Drawdown measured 22 ft after 15 minutes pumping 250 gpm on Mar. 17, 1953. Temp. 66°F.  |
| 503                       | Farmer Independent Oil Company        | Layne-Texas Company                  | 1951           | 550                | --                 | --                | Qtal 8             | 3,747                         | --                            | --                             | N              | N            | Test well. Abandoned. No water encountered in useable quantities. <u>1</u>  |
| 510                       | L. D. McComas                         | --                                   | --             | --                 | 18                 | --                | --                 | 3,741                         | 7.75<br>6.68                  | June 10, 1952<br>Jan. 29, 1973 | N              | N            | <u>3</u> <u>4</u>   |
| * 525                     | Erich Brandes                         | --                                   | --             | 600                | 3-1/2              | --                | Qtal 8             | 3,745                         | Flowed                        | Sept. 1, 1957                  | N              | N            | Abandoned.  |
| * 601                     | City of El Paso                       | Wheeler Cass                         | 1968           | 50                 | 1-1/2              | 50                | Qal Rg             | 3,729                         | 2.11<br>1.15                  | May 8, 1968<br>Mar. 22, 1973   | N              | N            | Slotted from 20-50 ft. Observation well. <u>3</u>   |
| * 602                     | George Hervey                         | Layne-Texas Company                  | 1953           | 1,690              | 8<br>6             | 1,600<br>1,690    | Qtal 8             | 3,994                         | 238.20                        | Feb. 16, 1953                  | N              | N            | Screened from 1,590-1,690 ft. Drawdown reported 102 ft pumping 200 gpm. Oil test drilled to 2,500 ft, reamed out to 1,690 ft, and abandoned because of high fluoride content (5.6 mg/l). Temp. 99°F. <u>2</u>   |
| * 603                     | Broadus-McGrath                       | El Paso Drilling Company             | 1953           | 502                | 14<br>10           | 50<br>500         | Qtal 8             | 4,075                         | 220.9                         | Oct. 10, 1953                  | N              | N            | Drawdown measured 92 ft after 29-1/2 hours pumping 60 gpm on Oct. 10, 1953. Bedrock at 75 ft. <u>1</u>  |
| 604                       | --                                    | --                                   | --             | 660                | --                 | --                | Qtal 8             | 4,106                         | --                            | --                             | N              | N            | Dry hole. Abandoned. <u>1</u>   |
| * 605                     | Buena Vista Cooperative Water System  | --                                   | 1947           | 169                | 8                  | --                | Qtal 8             | 3,798                         | 150.                          | --                             | N              | N            | Destroyed. Reported yield 60 gpm.   |
| * 606                     | Southwestern Portland Cement Company  | Southwestern Portland Cement Company | 1951           | 140                | 6                  | --                | Qtal 8             | 3,800                         | 49.0                          | Nov. 21, 1955                  | Sub, E         | D, Ind       | Drilled in hard limestone with some sand beds. Used only for drinking at present.   |
| 607                       | do                                    | do                                   | 1951           | 240                | 8                  | 240               | Qtal 8             | 3,800                         | 46.0                          | do                             | Sub, E         | D, Ind       | Used only for drinking at present.  |
| 13-201                    | C. L. Cook                            | Wheeler Cass                         | --             | 300                | 6                  | 300               | Qtal 6             | 3,936                         | 244.99                        | --                             | N              | N            | Destroyed.  |
| * 202                     | City of El Paso                       | Layne-Texas Company                  | 1952           | 814                | 24<br>18<br>12-3/4 | 262<br>387<br>814 | Qtal 6             | 3,885                         | 208.4<br>211.0                | Jan. 15, 1953<br>Feb. 9, 1954  | T, E           | F            | Slotted from 300-812 ft. Gravel-walled. Drawdown 71 ft after 24 hours pumping 1,396 gpm on Feb. 10, 1954. Electric log of test well drilled at this location in 1939 to 1,217 ft indicates fresh-water sands extend to bottom of test well. <u>1</u> <u>2</u> |
| * 203                     | do                                    | do                                   | 1941           | 860                | 24<br>16<br>13     | 236<br>397<br>860 | Qtal 6             | 3,880                         | 197.4<br>236.26               | June 25, 1941<br>Jan. 11, 1967 | T, E           | F            | Gravel-walled. Drawdown 51 ft after 24 hours pumping 1,385 gpm in 1941. Electric log of test well at this location in 1939 indicates fresh-water sands extend to 1,085 ft. <u>1</u> <u>2</u> <u>3</u>   |
| * 204                     | do                                    | do                                   | 1941           | 917                | 24<br>16<br>13     | 315<br>319<br>937 | Qtal 6             | 3,874                         | 207.1<br>242.77               | June 21, 1941<br>Jan. 19, 1976 | T, E           | F            | Electric log of test well drilled at this location in 1939 to 1,867 ft indicates fresh-water sands extend to 1,005 ft. <u>1</u> <u>2</u> <u>3</u>   |
| * 205                     | do                                    | do                                   | 1937           | 800                | 6                  | 801               | Qtal 6             | 3,874                         | 188.45                        | Aug. 24, 1938                  | N              | N            | Observation well.   |
| 206                       | do                                    | C. R. Jensen                         | 1939           | 1,257              | 4                  | 384               | Qtal 6             | 3,882                         | 192.7<br>235.62               | June 20, 1939<br>Feb. 1, 1977  | N              | N            | Test well. Observation well. Electric log indicates fresh-water sands extend to 1,160 ft. Slotted from 150-384 ft. <u>1</u> <u>2</u> <u>3</u>   |
| * 207                     | Baptist Spanish Publishing House      | Wheeler Cass                         | 1939           | 280                | 4                  | 280               | Qtal 6             | --                            | 252.09                        | May 25, 1955                   | Sub, E         | Ind          | Used in the plant. Connected to city for reserve use.   |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                       | Driller                   | Date completed | Depth of well (ft) | Casing         |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|-----------------------------|---------------------------|----------------|--------------------|----------------|-------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                             |                           |                |                    | Diameter (in.) | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                             |                           |                |                    |                |                   |                    |                               |                               |                                |                |              |   |
| JL-49-13-208              | Jerome Martin               | --                        | 1950           | 440                | --             | --                | Qtal 6             | --                            | 211.56                        | Feb. 8, 1954                   | N              | N            | Destroyed.  |
| * 209                     | U.S. Geological Survey      | B & W Drilling Company    | 1953           | 1,230              | --             | --                | Qtal 6             | 4,094                         | 416.6                         | Sept. 4, 1953                  | N              | N            | Test hole. Drill stem test 968-1,016 and 1,068-1,114 ft.  |
| * 210                     | Restlawn Cemetery           | --                        | --             | 300                | --             | --                | Qtal 6             | --                            | 206.70<br>266.87              | Apr. 26, 1938<br>Nov. 21, 1974 | T, E           | Irr          | --  |
| * 211                     | City of El Paso             | C. R. Jensen              | 1939           | 1,137              | --             | --                | Qtal 6             | 3,875                         | 198.3                         | Apr. 8, 1939                   | N              | N            | Test hole. Drill stem test 569 ft. <u>Y</u> <u>Z</u>  |
| 212                       | Restlawn Cemetery           | Al Parker                 | 1951           | 500                | 12<br>14<br>12 | 205<br>295<br>500 | Qtal 6             | --                            | 212.11                        | Oct. 23, 1951                  | T, O           | Irr          | Slotted from 220-500 ft. Drawdown 32 ft. Pump set at 300 ft. Yield 660 gpm on Oct. 23, 1951.  |
| 213                       | City of El Paso             | Layne-Texas Company       | 1937           | 698                | --             | --                | Qtal 6             | 3,870                         | --                            | --                             | N              | N            | Test hole. Abandoned. Estimated only 37 ft of water-bearing sand encountered. <u>Y</u>  |
| * 214                     | do                          | do                        | 1937           | 830                | --             | --                | Qtal 6             | 3,869                         | 204.0                         | July 1937                      | N              | N            | Test hole. Abandoned. Drill stem test 214, 334-352, and 486-505 ft. <u>Y</u>  |
| * 215                     | Restlawn Cemetery           | --                        | 1966           | 330                | 8              | --                | Qtal 6             | 3,912                         | --                            | --                             | Sub, E         | Irr          | --  |
| 301                       | City of El Paso             | --                        | 1952           | 640                | 20<br>16       | 400<br>640        | Qtal 6             | 3,882                         | 231.90<br>253.45              | Oct. 20, 1964<br>July 20, 1977 | N              | N            | Observation well. <u>Y</u>  |
| * 302                     | U.S. Army                   | Bassett Drilling Company  | 1953           | 812                | 24             | 249               | Qtal 6             | --                            | 220.4                         | Mar. 22, 1954                  | T, E           | P            | U.S. Army Base supply. Abandoned. <u>Y</u> <u>Z</u>   |
| * 303                     | do                          | Harold Doty               | 1956           | 799                | 26<br>16       | 200<br>780        | Qtal 6             | 3,910                         | --                            | --                             | T, E           | P            | U.S. Army Base supply. Drilled to replace well 49-13-302. <u>Z</u>  |
| * 304                     | do                          | Bassett Drilling Company  | 1953           | 812                | 24<br>16       | 219<br>810        | Qtal 6             | --                            | 220.0                         | Mar. 22, 1954                  | T, E           | P            | 14-inch screen from 306-506, 552-572, 617-637, and 696-756 ft. Gravel-walled. Drawdown reported 47 ft pumping 1,200 gpm in 1953. Pump set at 289 ft. <u>Y</u> <u>Z</u>    |
| * 305                     | do                          | do                        | 1953           | 816                | 24<br>16       | 230<br>814        | Qtal 6             | --                            | 229.8                         | do                             | T, E           | P            | Screened from 270-350, 440-470, 530-550, 580-710, and 750-790 ft. Gravel-walled. Drawdown reported 33 ft pumping 1,200 gpm in 1953. Pump set at 300 ft. <u>Y</u> <u>Z</u> |
| * 306                     | City of El Paso             | C. R. Jensen              | 1941           | 950                | 4              | 604               | Qtal 6             | 3,933                         | 242.3<br>243.7                | Dec. 13, 1940<br>Oct. 26, 1942 | N              | N            | Test well. Slotted from 379-401, 422-442, 479-501, 522-543, and 582-603 ft. Drill stem tests indicate fresh-water sands extend to at least 770 ft. <u>Y</u>               |
| * 307                     | U.S. Army                   | J. Alvis                  | 1967           | 812                | 24<br>16       | 320<br>800        | Qtal 6             | 3,897                         | --                            | --                             | T, E           | P            | Yield 1,500 gpm. <u>Y</u> <u>Z</u>  |
| 308                       | El Paso Natural Gas Company | Mountain Drilling Company | 1953           | 722                | --             | --                | Qtal 6             | --                            | --                            | --                             | --             | Ind          | Yield 220 gpm. <u>Z</u>   |
| 309                       | do                          | do                        | 1948           | 398                | 10-3/8         | --                | Qtal 6             | --                            | 205<br>254                    | Jan. 10, 1948<br>1972          | T, E           | Ind          | Yield 100 gpm. Pump set at 280 ft.  |
| 310                       | U.S. Army                   | --                        | old            | 400                | 10             | --                | Qtal 6             | 3,902                         | 210.4<br>226.1                | Aug. 7, 1935<br>Jan. 7, 1954   | C, W           | N            | --  |
| 311                       | do                          | Layne-Texas Company       | 1973           | 815                | 24             | 320               | Qtal 6             | --                            | --                            | --                             | T, E           | P            | Top screen at 326 ft. Drawdown 40 ft. Yield 1,007 gpm pumping 24 hours on Oct. 3, 1973. <u>Z</u>  |
| 401                       | City of El Paso             | --                        | old            | 500                | 5              | --                | Qtal 6             | 3,996                         | 303.7<br>306.9                | Nov. 20, 1935<br>Jan. 5, 1954  | N              | N            | Destroyed.  |
| 501                       | do                          | City of El Paso           | --             | 606                | --             | --                | Qtal 6             | 3,870                         | 199.2<br>216.1                | Aug. 6, 1935<br>Jan. 7, 1953   | N              | N            | Destroyed. <u>Y</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                               | Driller                | Date completed | Depth of well (ft.) | Casing                 |                   | Water bearing unit | Altitude of land surface (ft.) | Water level                    |                                | Method of lift | Use of water | Remarks   |
|---------------------------|-------------------------------------|------------------------|----------------|---------------------|------------------------|-------------------|--------------------|--------------------------------|--------------------------------|--------------------------------|----------------|--------------|---|
|                           |                                     |                        |                |                     | Diameter (in.)         | Depth (ft.)       |                    |                                | Below land-surface datum (ft.) | Date of measurement            |                |              |   |
| El Paso County--Continued |                                     |                        |                |                     |                        |                   |                    |                                |                                |                                |                |              |   |
| * JL-49-13-502            | City of El Paso                     | V. Chesney             | 1930           | 758                 | 20<br>15<br>9          | 306<br>587<br>758 | Qtal 6             | 3,871                          | 195<br>242.62                  | Oct. 1, 1931<br>Jan. 1973      | T, E           | P            | Slotted from 311-758 ft. <u>1</u> <u>2</u>  |
| * 503                     | U.S. Army                           | Layne-Texas Company    | 1942           | 916                 | 24<br>18-5/8<br>12-3/4 | 235<br>321        | Qtal 6             | --                             | 230.8<br>241.5                 | July 22, 1942<br>1960          | T, E           | P            | Gravel-walled. Drawdown 65 ft pumping 870 gpm on Aug. 27, 1942. Pump set at 295 ft. <u>1</u>  |
| * 504                     | do                                  | do                     | 1931           | 785                 | 24<br>12               | 351<br>776        | Qtal 6             | 3,877                          | 204<br>217.1                   | Mar. 1932<br>May 22, 1939      | T, E           | P            | Screened from 290-322, 436-468, 502-523, 533-565, 571-598, 621-663, and 705-768 ft. Gravel-walled. <u>1</u>   |
| * 505                     | do                                  | do                     | 1969           | 806                 | 24<br>16               | 298<br>806        | Qcal 6             | --                             | 205.4<br>205.0                 | Oct. 15, 1937<br>Feb. 26, 1940 | T, E           | P            | Screened from 313-806 ft. Originally drilled to 800 ft in 1937, redrilled to 806 ft in May 1969. <u>1</u> <u>2</u>  |
| * 506                     | U.S. Geological Survey              | B & W Drilling Company | 1953           | 905                 | 4                      | 716               | Qtal 6             | 3,886                          | 232.34<br>178.29               | Jan. 5, 1954<br>Jan. 4, 1977   | N              | N            | Test well. Used for observation. Slotted from 716-736 ft. Electric log and drill-stem tests indicate fresh-water sands extend to bottom of well. <u>1</u> <u>2</u> <u>3</u> |
| * 507                     | U.S. Army                           | Layne-Texas Company    | 1917           | 600                 | 12                     | 600               | Qtal 6             | --                             | 226                            | 1917                           | N              | N            | Plugged and abandoned. Drawdown 76 ft pumping 250 gpm on Apr. 22, 1944.   |
| * 508                     | do                                  | T. F. Hawkins          | 1913           | 652                 | 10                     | 652               | Qtal 6             | 3,884                          | 198.3<br>238.6                 | Jan. 5, 1913<br>1954           | N              | N            | Plugged and abandoned. Slotted from 200-652 ft. <u>1</u>  |
| * 509                     | do                                  | do                     | 1913           | 657                 | 12<br>10               | 200<br>657        | Qtal 6             | --                             | 200.8                          | July 27, 1913                  | N              | N            | Plugged and abandoned. <u>1</u>   |
| * 510                     | do                                  | do                     | 1917           | 600                 | 12                     | 600               | Qtal 6             | 3,883                          | 227                            | 1917                           | N              | N            | Do.   |
| * 511                     | City of El Paso                     | --                     | 1959           | 753                 | 24<br>18<br>12         | 245<br>512<br>753 | Qtal 6             | 3,872                          | 233.62<br>242.38               | Oct. 1, 1959<br>Jan. 19, 1976  | T, E           | P            | Slotted from 255-753 ft. <u>2</u> <u>3</u>  |
| * 512                     | do                                  | L. Jensen              | 1928           | 715                 | 20<br>15<br>12         | 302<br>625<br>715 | Qtal 6             | 3,871                          | 189.2<br>233.09                | Feb. 25, 1931<br>Jan. 1973     | T, E           | P            | Slotted from 242-715 ft. <u>1</u> <u>2</u>  |
| 513                       | do                                  | V. Chesney             | 1935           | 640                 | --                     | --                | Qtal 6             | --                             | 199                            | July 1936                      | N              | N            | Insufficient water for public supply. Abandoned and destroyed. <u>1</u>   |
| 514                       | do                                  | do                     | 1930           | 660                 | --                     | --                | Qtal 6             | 3,783                          | --                             | --                             | N              | N            | Never used because of poor quality of water. <u>1</u>   |
| * 515                     | Texas & New Orleans Railway Company | P. D. Wynne            | 1922           | 869                 | 12                     | 869               | Qtal 6             | --                             | 217.5<br>220.8                 | Nov. 20, 1935<br>Mar. 21, 1941 | N              | N            | Abandoned. Slotted from 269-869 ft. <u>1</u>  |
| * 516                     | do                                  | Layne-Texas Company    | 1937           | 860                 | 12                     | 860               | Qcal 6             | --                             | 219.3<br>231.9                 | Jan. 25, 1939<br>June 21, 1941 | N              | N            | Pumped 700 gpm.   |
| 517                       | do                                  | do                     | 1937           | 860                 | 12<br>10               | 740<br>860        | Qcal 6             | --                             | 226<br>218.9                   | Aug. 12, 1938<br>Jan. 14, 1947 | N              | N            | Pumped 624 gpm.   |
| * 518                     | do                                  | Semple & Wynne         | 1921           | 864                 | 12                     | 864               | Qtal 6             | 3,877                          | 213                            | Aug. 30, 1921                  | N              | N            | Slotted from 274-864 ft. Pumped 660 gpm. <u>1</u>   |
| * 519                     | do                                  | Layne-Texas Company    | 1941           | 852                 | 16<br>13               | 345<br>849        | Qtal 6             | --                             | 218                            | Apr. 1941                      | N              | N            | Screened from 337-849 ft. Drawdown 35 ft pumping 530 gpm on Apr. 22, 1941. <u>1</u>   |
| * 601                     | City of El Paso                     | V. Chesney             | 1935           | 780                 | 20<br>12               | 300<br>744        | Qtal 6             | 3,880                          | 201<br>256.19                  | June 5, 1935<br>Jan. 19, 1976  | T, E           | P            | Slotted from 288-774 ft. Pumped 1,200 gpm. <u>1</u> <u>2</u>  |
| * 602                     | U.S. Army                           | Layne-Texas Company    | 1951           | 780                 | 24<br>16<br>10-3/4     | 250<br>405<br>769 | Qtal 6             | --                             | 236.2                          | Mar. 23, 1954                  | N              | N            | Plugged and abandoned. Drawdown reported 33 ft pumping 1,000 gpm in 1951. <u>1</u> <u>2</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner           | Driller             | Date completed | Depth of well (ft) | Casing             |                     | Water bearing unit | Altitude of land surface (ft) | Water Level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|-----------------|---------------------|----------------|--------------------|--------------------|---------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                 |                     |                |                    | Diameter (in.)     | Depth (ft)          |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                 |                     |                |                    |                    |                     |                    |                               |                               |                                |                |              |  |
| * JL-49-13-603            | U.S. Army       | Layne-Texas Company | 1961           | 775                | 24<br>16<br>10-3/4 | 300<br>315<br>770   | Qtal 6             | 3,414                         | 270                           | Aug. 23, 1961                  | T, E           | P            | Screened from 315-400, 400-460, 485-510, 560-640, and 665-760 ft. Drawdown 58 ft pumping 1,000 gpm in 1961. <u>1/2</u>   |
| * 604                     | City of El Paso | do                  | 1938           | 909                | 24<br>16<br>12-1/2 | 246<br>351<br>905   | Qtal 6             | 3,913                         | 232.0                         | Oct. 14, 1938                  | T, E           | P            | Screened from 274-905 ft. Drawdown 30 ft after 13 hours pumping 1,720 gpm. Electric log indicates fresh-water sands extend to 905 ft. <u>1/2</u>   |
| * 605                     | do              | do                  | 1938           | 1,055              | 24<br>16<br>13     | 280<br>368<br>1,055 | Qtal 6             | 3,900                         | 221.8<br>238.5                | May 4, 1938<br>Mar. 2, 1954    | T, E           | P            | Screened from 287-366 and 375-1,040 ft. Gravel-walled. Drawdown 46 ft pumping 1,130 gpm on Mar. 3, 1954. Electric log and drill stem tests indicate fresh-water sands extend to bottom of well. <u>1/2</u> |
| * 606                     | U.S. Army       | do                  | 1941           | 778                | 20<br>12           | 345<br>778          | Qtal 6             | --                            | 225<br>254                    | 1941<br>June 10, 1965          | T, E           | P            | Screened from 304-773 ft. Gravel-walled. Drawdown 49 ft pumping 1,250 gpm on Sept. 15, 1961. Pump set at 295 ft. <u>1/2</u>  |
| * 607                     | City of El Paso | C. R. Jensen        | 1938           | 950                | 16<br>12           | --<br>867           | Qtal 6             | 3,908                         | 232.4<br>249.4                | Dec. 18, 1940<br>Jan. 6, 1954  | T, E           | P            | Electric log of test well drilled in 1938 to 1,187 ft indicates fresh-water sands extend to 975 ft. <u>1/2</u>   |
| * 608                     | do              | City of El Paso     | 1959           | 920                | 24<br>18<br>12     | 272<br>503<br>896   | Qtal 6             | 3,912                         | 254.86<br>287.21              | Apr. 2, 1959<br>Dec. 8, 1976   | T, E           | P            | Slotted from 282-896 ft. Drawdown 62 ft after 24 hours pumping 1,835 gpm on Apr. 2, 1959. Drilled to 1,022 ft and plugged back to 920 ft. <u>2/3</u>   |
| * 609                     | do              | do                  | 1956           | 983                | 24<br>18<br>12     | 295<br>495<br>983   | Qtal 6             | 3,922                         | 260.28<br>275.93              | Mar. 27, 1958<br>Jan. 1971     | T, E           | P            | Slotted from 316-983 ft. Drawdown 77 ft after 5 days pumping 1,200 gpm on Apr. 21, 1958. <u>1/2 2/3</u>  |
| * 610                     | do              | Layne-Texas Company | 1951           | 766                | 24<br>18<br>12-3/4 | 300<br>380<br>754   | Qtal 6             | 3,928                         | 253.9<br>298.09               | Jan. 22, 1952<br>Dec. 8, 1976  | T, E           | P            | Slotted from 289-754 ft. Gravel-walled. Drawdown 51 ft after 4 hours pumping 1,534 gpm on Mar. 6, 1954. <u>1/2 2/3</u>   |
| * 611                     | U.S. Army       | H. M. Stanley       | 1936           | 400                | 2                  | 400                 | Qtal 6             | 3,920                         | 244.12<br>308.46              | July 16, 1936<br>July 20, 1977 | N              | N            | Test well. Drilled to 600 ft and plugged back to 400 ft. Observation well. <u>1/2</u>  |
| * 612                     | City of El Paso | C. R. Jensen        | 1938           | 713                | 12<br>6            | 88<br>713           | Qtal 6             | 3,879                         | 208.8<br>223.7                | Aug. 24, 1938<br>Apr. 19, 1954 | N              | N            | Test well. Drilled to 1,117 ft. <u>1/2 2/3</u>   |
| * 613                     | do              | H. M. Stanley       | 1936           | 623                | 2                  | 441                 | Qtal 6             | 3,945                         | 260.6<br>318.81               | July 17, 1936<br>Jan. 5, 1977  | N              | N            | Test well. Observation well. <u>1/2 2/3</u>  |
| * 614                     | do              | C. R. Jensen        | 1944           | 698                | 10                 | 680                 | Qtal 6             | 3,922                         | 250<br>264.8                  | Jan. 1944<br>Mar. 6, 1954      | N              | N            | Destroyed. Yield reported 200 gpm. <u>1/2</u>  |
| * 615                     | U.S. Army       | Layne-Texas Company | 1967           | 800                | 24<br>16           | 320<br>800          | Qtal 6             | --                            | 288                           | May 17, 1967                   | T, E           | P            | Slotted from 380-798 ft. Pump set at 450 ft. <u>1/2</u>  |
| * 616                     | do              | do                  | 1951           | 780                | 24<br>16<br>10-3/4 | 250<br>400<br>775   | Qtal 6             | 3,910                         | 260                           | July 6, 1951                   | N              | N            | Abandoned and casing pulled. Drawdown 49 ft pumping 1,266 gpm on June 30, 1951. <u>1/2 2/3</u>   |
| * 617                     | City of El Paso | City of El Paso     | 1967           | 988                | 24<br>18           | 345<br>930          | Qtal 6             | 3,940                         | 311.83<br>323.74              | Nov. 21, 1967<br>Dec. 8, 1976  | N              | N            | Slotted from 431-930 ft. Drawdown 52 ft after 5 hours pumping 1,520 gpm. <u>3</u>  |
| * 618                     | do              | do                  | 1938           | 530                | 8<br>6             | 415<br>520          | Qtal 6             | --                            | 233.08<br>249.0               | Apr. 27, 1938<br>Jan. 28, 1954 | N              | N            | Abandoned. Slotted from 243-273, 283-308, 314-359, 378-388, and 405-520 ft. <u>1/2</u>   |
| * 619                     | do              | C. R. Jensen        | 1938           | 1,292              | --                 | --                  | Qtal 6             | 3,888                         | --                            | --                             | N              | N            | Test well. <u>1/2</u>  |
| * 620                     | do              | do                  | 1939           | 1,117              | --                 | --                  | Qtal 6             | 3,928                         | --                            | --                             | N              | N            | Test well. Electric log indicates fresh-water sands extend to 815 ft. <u>1/2 2/3</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                                       | Driller              | Date completed | Depth of well (ft) | Casing             |                     | Water bearing unit | Altitude of land surface (ft) | Water level                   |                     | Method of lift       | Use of water | Remarks             |   |
|---------------------------|---|----------------------|----------------|--------------------|--------------------|---------------------|--------------------|-------------------------------|-------------------------------|---------------------|----------------------|--------------|---------------------|---|
|                           |   |                      |                |                    | Diameter (in.)     | Depth (ft)          |                    |                               | Below land-surface datum (ft) | Date of measurement |                      |              |                     |   |
| El Paso County--Continued |   |                      |                |                    |                    |                     |                    |                               |                               |                     |                      |              |                     |   |
| * JL-49-13-621            | City of El Paso                             | C. R. Jensen         | 1937           | 902                | --                 | --                  | Qtal 6             | 3,900                         | --                            | --                  | N                    | N            | Test well. <u>Y</u> |   |
| * 622                     | do  | City of El Paso      | 1972           | 1,060              | 24<br>16           | 330<br>1,059        | Qtal 6             | 3,935                         | 296.96<br>328.49              | Jan.<br>Dec.        | 1973<br>16, 1976     | T, E         | P                   | Slotted from 468-621 and 701-1,059 ft. <u>Y</u> <u>Y</u>  |
| * 623                     | do  | do                   | 1972           | 1,199              | 24<br>16           | 285<br>1,199        | Qtal 6             | 3,935                         | 292.06<br>307.90              | Jan.<br>Jan.        | 1973<br>15, 1976     | T, E         | P                   | Slotted from 589-1,199 ft. <u>Y</u> <u>Y</u>  |
| * 624                     | do  | do                   | 1973           | 1,024              | 24<br>18<br>16     | 302<br>350<br>1,024 | Qtal 6             | 3,910                         | 301.24                        | Aug.                | 1973                 | T, E         | P                   | Slotted from 350-1,024 ft. Drawdown 62 ft after 24 hours pumping 2,005 gpm. <u>Y</u> <u>Y</u>   |
| * 625                     | do  | do                   | 1977           | 1,026              | 24<br>16           | 320<br>1,026        | Qtal 6             | 3,914                         | --                            | --                  |                      | T, E         | P                   | Screened from 370-810, 862-912, and 978-1,026 ft.   |
| * 701                     | El Paso Electric Company Well 4             | Rayne & Ballard      | 1956           | 320                | 24<br>18<br>16     | 93<br>215<br>320    | Qtal 6             | 3,711                         | 42.82<br>37.73                | Dec.<br>Apr.        | 30, 1964<br>30, 1968 | T, E         | Ind                 | Slotted from 93-320 ft. Gravel packed. Pump set at 266 ft. Reported yield 2,500 gpm. Development test: Drawdown of 67 ft pumping 2,500 gpm. Historical observation well. <u>Y</u> <u>Y</u>      |
| * 702                     | City of El Paso Well 17                     | Layman-Texas Company | 1938           | 720                | 24<br>13           | 295<br>720          | Qtal 6             | 3,705                         | 36.70<br>97.25                | Feb.<br>Dec.        | 2, 1939<br>15, 1975  | T, E         | P                   | Slotted from 294-717 ft. Cement plug from 851-720 ft. Gravel packed. Development test: Drawdown 37 ft on Oct. 14, 1965. Observation well. <u>Y</u> <u>Y</u> <u>Y</u>                            |
| * 703                     | Southern Pacific Railroad Company           | do                   | 1944           | 624                | 12-3/4             | 450                 | Qtal 6             | 3,707                         | 52.62                         | Oct.                | 18, 1965             | N            | N                   | Plugged and abandoned. Screens from 459-480, 502-524, 545-566, and 586-623 ft. Estimated yield 600 gpm on Oct. 18, 1965. Development test: Drawdown 20 ft. <u>Y</u>                             |
| * 704                     | City of El Paso Well 14                     | do                   | 1937           | 703                | 24<br>13           | 237<br>703          | Qtal 6             | 3,702                         | 30.10<br>89.07                | July<br>Dec.        | 7, 1937<br>14, 1976  | T, E         | P                   | Screen from 256-694 ft. Cement plug from 805-703 ft. Gravel packed. Yield 1,500+ gpm. Development test: Drawdown of 32 ft. Observation well. <u>Y</u> <u>Y</u> <u>Y</u>                         |
| * 705                     | Southern Pacific Railroad Company SP-1      | do                   | 1941           | 798                | 16<br>10-3/4       | 406<br>798          | Qtal 6             | 3,700                         | 44.00<br>101.60               | June                | 23, 1976             | T, E         | Ind                 | Screen from 403-425, 470-502, 512-607, 622-644, 692-724, and 752-794 ft. Performance test: Drawdown of 33 ft pumping 880 gpm on Oct. 27, 1965. Observation well. <u>Y</u> <u>Y</u>              |
| 706                       | Southern Pacific Railroad Company           | do                   | 1942           | 760                | --                 | --                  | Qtal 6             | 3,704                         | 58.80                         | Oct.                | 19, 1965             | T, E         | Ind                 | Performance test: Drawdown of 28 ft pumping 850 gpm on Oct. 21, 1965.   |
| * 708                     | City of El Paso                             | F. D. Wynne          | 1933           | 52                 | 20                 | 52                  | Qal Rg             | 3,708                         | 8.00<br>25.93                 | Apr.<br>Dec.        | 23, 1933<br>28, 1967 | Cf, E        | N                   | Abandoned. Well used to lower water table below house basement level in downtown El Paso. Screen from 30-52 ft. Historical observation well. <u>Y</u>   |
| * 709                     | City of El Paso Well 10                     | V. Chesney           | 1930           | 807                | 20<br>16<br>12-1/2 | 210<br>579<br>650   | Qtal 6             | 3,706                         | 24.00<br>33.82                | Jan.                | 27, 1955             | N            | P                   | Not used. Slotted from 358-650 ft. <u>Y</u>   |
| * 710                     | City of El Paso Well 67                     | City of El Paso      | 1967           | 730                | 24<br>18           | 500<br>730          | Qtal 6             | 3,706                         | 44.00<br>119.36               | Apr.<br>Dec.        | 9, 1968<br>13, 1976  | T, E         | P                   | Slotted from 510-730 ft. Gravel packed. Pump set at 720 ft. Development test: Drawdown of 79 ft pumping 1,400 gpm on Feb. 8, 1968. Observation well. <u>Y</u> <u>Y</u> <u>Y</u>                 |
| * 711                     | City of El Paso Well 10a                    | do                   | 1968           | 641                | 24<br>18           | 100<br>641          | Qtal 6             | 3,714                         | 35.37<br>103.28               | Jan.<br>June        | 27, 1955<br>23, 1976 | T, E         | P                   | Slotted from 300-641 ft. Gravel packed. Plugged back from 2,171 to 641 ft. Development test: Drawdown of 85 ft pumping 1,400 gpm on Feb. 16, 1968. Observation well. <u>Y</u> <u>Y</u> <u>Y</u> |
| * 712                     | International Boundary and Water Commission | Dickinson            | 1967           | 52                 | 2                  | 52                  | Qal Rg             | 3,701                         | 18.96<br>17.36                | July<br>July        | 20, 1967<br>18, 1968 | N            | N                   | Destroyed. Historical observation well. <u>Y</u>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                        | Owner                                       | Driller                       | Date completed | Depth of well (ft) | Casing             |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                 | Method of lift | Use of water | Remarks   |
|-----------------------------|---|-------------------------------|----------------|--------------------|--------------------|-------------------|--------------------|-------------------------------|-------------------------------|---------------------------------|----------------|--------------|---|
|                             |   |                               |                |                    | Diameter (in.)     | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement             |                |              |   |
| El Paso County--Continued   |   |                               |                |                    |                    |                   |                    |                               |                               |                                 |                |              |   |
| * JL-4 <sup>a</sup> -13-713 | International Boundary and Water Commission | Dickinson                     | 1967           | 52                 | 2                  | 51                | Qal Rg             | 3,709                         | 26.99<br>42.44                | July 20, 1967<br>Oct. 13, 1971  | N              | N            | Destroyed. Historical observation well. <u>3</u>  |
| * 714                       | do  | do                            | 1967           | 49                 | 2                  | 49                | Qal Rg             | 3,708                         | 26.21<br>37.75                | July 19, 1967<br>Apr. 9, 1970   | N              | N            | Do.   |
| * 715                       | do  | do                            | 1967           | 49                 | 2                  | 49                | Qal 6              | 3,705                         | 29.08<br>44.23                | July 19, 1967<br>July 2, 1975   | N              | N            | Observation well. <u>3</u>  |
| * 716                       | City of El Paso Well 7                      | A. Strout                     | 1927           | 425                | 22<br>12<br>13     | 86<br>155<br>425  | Qal Rg/<br>Qal 6   | 3,705                         | 7.00<br>5.80                  | Jan. 5, 1935<br>Jan. 10, 1941   | N              | N            | Destroyed.  |
| * 717                       | El Paso Ice & Refrigeration Company         | P. D. Wynne                   | 1920           | 509                | 12                 | 509               | Qal 6              | 3,708                         | 35.00<br>27.47                | Jan. 7, 1935<br>Jan. 31, 1939   | N              | N            | Destroyed. <u>4</u>   |
| * 718                       | Bowie High School                           | -- Burdick                    | 1951           | 80                 | 10                 | --                | Qal Rg             | 3,706                         | 25.74                         | Apr. 9, 1964                    | T, E           | Per          | Yield 350 gpm on Aug. 5, 1966.  |
| * 719                       | City of El Paso Well 6                      | A. Strout                     | 1925           | 646                | 24<br>15           | 89<br>480         | Qal Rg/<br>Qal 6   | 3,708                         | 15.00<br>16.80                | May 17, 1925<br>Dec. 11, 1940   | N              | N            | Not used. Slotted from 169-480 ft. <u>4</u>   |
| 720                         | El Paso Electric Company Well 2             | Layne-Texas Company           | 1924           | 252                | 18<br>16           | --                | Qal Rg/<br>Qal 6   | 3,709                         | 7.30<br>29.20                 | Aug. 20, 1935<br>Jan. 27, 1955  | T, E           | Ind          | Screen from 55-252 ft. <u>4</u>   |
| 721                         | El Paso Electric Company Well 1             | do                            | 1925           | 229                | --                 | --                | Qal Rg/<br>Qal 6   | 3,709                         | 23.10<br>29.74                | May 1924<br>Jan. 27, 1955       | N              | N            | Not used. <u>4</u>  |
| * 722                       | El Paso Electric Company Old Well 4         | J. F. Hawkins                 | 1914           | 394                | 15<br>10           | 254<br>394        | Qal 6              | 3,708                         | 12.59<br>39.89                | 1914<br>Jan. 27, 1955           | --             | Ind          | Slotted from 254-294, and 334-394 ft. <u>4</u>  |
| * 723                       | El Paso Electric Company                    | Layne-Texas Company           | 1924           | 304                | 10                 | 48                | Qal Rg/<br>Qal 6   | 3,710                         | 9.60<br>17.00                 | Aug. 2, 1935<br>Jan. 6, 1955    | N              | N            | Not used. Slotted from 11-304 ft. <u>4</u>  |
| * 725                       | City of El Paso                             | Texas Water Development Board | 1976           | 220                | 4                  | 220               | Qal 6              | 3,742                         | 114.25<br>119.45              | June 7, 1976<br>Mar. 21, 1977   | N              | N            | Observation well. <u>2</u>  |
| * 801                       | City of El Paso Well 9                      | V. Chesney                    | 1928           | 802                | 24<br>15<br>12-1/2 | 118<br>446<br>802 | Qal Rg/<br>Qal 6   | 3,708                         | 25.00<br>99.78                | 1932<br>Dec. 14, 1976           | T, E           | P            | Slotted from 190-802 ft. Plugged back from 830 ft to 802 ft. Observation well. <u>4</u> <u>3</u>  |
| * 802                       | Faistaff Brewery, Inc. Well 3               | Layne-Texas Company           | 1957           | 470                | 20<br>12           | 315<br>420        | Qal 6              | 3,700                         | 62.00<br>41.60                | May 25, 1957<br>Apr. 2, 1960    | T, E           | Ind          | Not used. Screen from 317-347 and 353-413 ft. Plugged back from 326 ft to 470 ft. Measured yield 533 gpm. Performance test: Drawdown 46 ft pumping 533 gpm on May 25, 1967. <u>4</u> <u>2</u> |
| * 803                       | Harry Mitchell Brewing Company Well 2       | do                            | 1944           | 354                | 12-3/4<br>6-5/8    | 326<br>354        | Qal 6              | 3,697                         | 40.0<br>43.5                  | Feb. 7, 1944<br>Apr. 2, 1960    | T, E           | Ind          | Not used. Slotted from 317-352 ft. Measured yield 135 gpm. Performance test: Drawdown of 49 ft pumping 135 gpm on Apr. 2, 1960. <u>4</u>  |
| * 804                       | City of El Paso Well 4                      | P. D. Wynne                   | 1924           | 882                | 24<br>13           | 200<br>882        | Qal 6              | 3,744                         | 82.00<br>135.34               | Jan. 18, 1924<br>Dec. 14, 1976  | T, E           | P            | Slotted from 465-882 ft. Observation well. <u>4</u> <u>2</u> <u>3</u>   |
| * 805                       | City of El Paso Well 3                      | do                            | 1922           | 862                | 26<br>12           | 243<br>862        | Qal 6              | 3,780                         | 112.0<br>124.21               | Oct. 19, 1934<br>Jan. 27, 1955  | --             | P            | Not used. Slotted from 443-862 ft. Replaced by well 49-13-810. <u>4</u> <u>2</u>  |
| * 806                       | City of El Paso Well 18                     | Layne-Texas Company           | 1940           | 643                | 24<br>13           | 216<br>643        | Qal 6              | 3,703                         | 32.20<br>92.26                | Feb. 28, 1940<br>Dec. 9, 1976   | T, E           | P            | Slotted from 262-643 ft. Plugged back from 906 ft to 643 ft. Development test: Drawdown of 60 ft pumping 2,200 gpm in 1940. Observation well. <u>4</u> <u>2</u> <u>3</u>                      |
| 807                         | Loretto College                             | --                            | --             | 542                | 7                  | --                | Qal 6              | 3,820                         | 145.80<br>192.65              | Nov. 11, 1935<br>Jan. 5, 1977   | N              | N            | Not used. Observation well. <u>3</u>  |
| * 808                       | City of El Paso West Hole 33                | C. R. Jensen                  | 1940           | 623                | 4                  | 623               | Qal 6              | 3,697                         | 27.16<br>54.15                | Sept. 20, 1940<br>July 20, 1977 | N              | N            | Plugged back from 1,007 ft to 623 ft. Screen from 350-620 ft. Observation well. <u>4</u> <u>2</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                  | Driller                                     | Date completed | Depth of well (ft) | Casing             |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|------------------------|---|----------------|--------------------|--------------------|-------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                        |   |                |                    | Diameter (in.)     | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                        |   |                |                    |                    |                   |                    |                               |                               |                                |                |              |  |
| JL-49-13-809              | City of El Paso Well 2 | City of El Paso                             | 1922           | 456                | 20<br>15-1/2<br>12 | 200<br>482<br>348 | Qtal 6             | 3,771                         | 116.0                         | Mar. 22, 1933                  | N              | N            | Destroyed. Slotted from 500-840 ft. Performance test: 75 ft drawdown flowing 730 gpm. <u>1</u>   |
| *                         | 810                    | City of El Paso Well 3a                     | 1964           | 751                | 24<br>18           | 558<br>752        | Qtal 6             | 3,782                         | 135.28<br>170.83              | Mar. 30, 1964<br>Dec. 14, 1976 | T, E           | P            | Slotted from 562-752 ft. Gravel packed. Plugged back from 1,331 ft to 751 ft. Pump set at 240 ft. Development (cost): 76 ft drawdown pumping 1,200 gpm. Observation well. <u>2</u> <u>3</u>  |
|                           | 811                    | City of El Paso                             | 1968           | 50                 | 1.5                | 50                | Qal Rg             | 3,695                         | 18.97<br>39.47                | Mar. 21, 1968<br>Dec. 9, 1976  | N              | N            | Slotted from 20-50 ft. Gravel packed. Observation well. <u>1</u> <u>2</u> <u>3</u>   |
| *                         | 812                    | International Boundary and Water Commission | 1967           | 53                 | 2                  | 53                | Qal Rg             | 3,695                         | 17.66<br>43.07                | July 17, 1967<br>July 20, 1977 | N              | N            | Observation well. <u>3</u>   |
| *                         | 813                    | do  | 1967           | 51                 | 2                  | 51                | Qal Rg             | 3,699                         | 24.23<br>41.99                | July 18, 1967<br>Feb. 28, 1975 | N              | N            | Do.  |
| *                         | 814                    | National Park Service                       | 1968           | 160                | 19                 | 160               | Qal Rg             | 3,700                         | 23.47                         | July 20, 1968                  | T, E           | Irr          | Gravel packed.   |
| *                         | 815                    | Harry Mitchell Brewing Company Well 1       | 1934           | 396                | 12<br>10           | 205<br>325        | Qtal 6             | 3,697                         | 25.0<br>37.7                  | 1934<br>Jan. 22, 1945          | Cf, E          | Ind          | Not used. Screen from 325-358 ft. <u>1</u>   |
|                           | 816                    | City of El Paso                             | 1919           | 954                | 18<br>12           | 214<br>918        | Qtal 6             | 3,777                         | 96.0<br>107.3                 | May 19, 1919<br>Jan. 11, 1941  | N              | N            | Not used. Slotted from 475-918 ft. <u>1</u>  |
| *                         | 817                    | City of El Paso Well 1                      | 1918           | 860                | 24<br>13-1/2       | 224<br>885        | Qtal 6             | 3,764                         | 109.0<br>96.29                | May 1931<br>Jan. 28, 1955      | N              | N            | Destroyed. Screen from 485-605, 695-715, and 755-815 ft. Cement plug from 1,023 ft to 860 ft. <u>1</u>   |
|                           | 818                    | Evergreen Cemetery                          | 1946           | 150                | 10                 | 150               | Qal Rg             | 3,700                         | 22.33                         | Apr. 12, 1964                  | T, E           | Irr          | Estimated yield 300 gpm. Temp. 69°F on May 8, 1964.  |
|                           | 819                    | National Park Service                       | --             | 137                | 2.5                | --                | Qal Rg             | 3,700                         | 22.60                         | June 20, 1968                  | --             | N            | Observation well.  |
|                           | 820                    | Jefferson High School                       | 1952           | 90                 | 10                 | --                | Qal Rg             | 3,700                         | 20.24                         | Apr. 9, 1964                   | T, E           | Irr          | Reported yield 300 gpm.  |
| *                         | 821                    | International Boundary and Water Commission | 1967           | 53                 | 2                  | 53                | Qal Rg             | 3,697                         | 24.31<br>26.62                | July 16, 1967<br>Feb. 5, 1969  | N              | N            | Destroyed. Historical observation well. <u>3</u>   |
| *                         | 822                    | El Paso Valley Water District               | 1956           | 801                | --                 | --                | --                 | 3,695                         | --                            | --                             | N              | N            | Abandoned. Test hole with insufficient supply. <u>1</u> <u>2</u>   |
| *                         | 823                    | City of El Paso Well 40B                    | 1954           | 770                | 26<br>20<br>12     | 68<br>418<br>770  | Qtal 6             | 3,696                         | 32.75<br>62.60                | Apr. 30, 1956<br>Jan. 24, 1975 | T, E           | P            | Screens from 430-450, 460-500, 520-540, 565-585, 595-615, 630-640, and 650-760 ft. Gravel packed. Plugged back from 802 ft to 770 ft. Pump set at 150 ft. Reported yield 600 gpm. Performance test: Drawdown 26 ft pumping 600 gpm. Observation well. <u>1</u> <u>2</u> <u>3</u> |
| *                         | 824                    | City of El Paso Well 40B-A                  | 1967           | 250                | 24<br>12           | 34<br>250         | Qal Rg<br>Qtal 6   | 3,698                         | 17.34<br>19.00                | Mar. 30, 1967<br>Jan. 14, 1970 | T, E           | E            | Screened from 75-250 ft. Plugged back from 350 ft to 250 ft. Performance test: Drawdown of 59.2 ft pumping 800 gpm on Mar. 30, 1967. Historical observation well. <u>3</u>   |
|                           | 825                    | U.S. Geological Survey Well 6-A             | 1972           | 60                 | 2                  | 57                | Qal Rg             | 3,695                         | 35.79<br>50.28                | June 28, 1972<br>June 20, 1977 | N              | N            | Screen from 57-60 ft. Observation well. <u>3</u>   |
|                           | 827                    | Evergreen Cemetery                          | 1974           | 225                | 12                 | 225               | Qtal 6             | 3,700                         | 46.75                         | Feb. 28, 1975                  | T, E           | Irr          | Slotted from 145-225 ft.   |
| *                         | 828                    | National Park Service                       | 1974           | 535                | 12-3/4             | 535               | Qtal 6             | 3,700                         | 89.08                         | do                             | T, E           | Irr          | Slotted from 420-535 ft. Drawdown 28 ft after 36 hours test pumping 900 gpm. <u>2</u>  |
| *                         | 829                    | U.S. Department of Interior                 | 1975           | 150                | 4                  | 150               | Qal Rg             | 3,700                         | 50.15                         | May 7, 1975                    | N              | N            | Observation well. Slotted from 120-125, and 145-150 ft. <u>1</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                       | Date completed | Depth of well (ft) | Casing         |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|---|-------------------------------|----------------|--------------------|----------------|-------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |   |                               |                |                    | Diameter (in.) | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |   |                               |                |                    |                |                   |                    |                               |                               |                                |                |              |   |
| * JL-49-13-830            | City of El Paso                                 | City of El Paso               | 1975           | 788                | 20<br>12       | 520<br>788        | Qtal 6             | 3,700                         | 90.12                         | Sept. 22, 1975                 | T, E           | P            | Screened from 530-788 ft. Drilled to 970 ft and plugged back to 788 ft. Drawdown 81 ft after 24 hours test pumping 1,275 gpm. <u>Y</u>  |
| 831                       | do  | do                            | 1975           | 872                | 20             | 456               | Qtal 6             | 3,695                         | --                            | --                             | T, E           | P            | Screened from 503-872 ft. <u>Y</u>  |
| * 832                     | do  | Texas Water Development Board | 1976           | 160                | 4              | 160               | Qal Rg             | 3,702                         | 48.99<br>48.10                | Mar. 21, 1976<br>Dec. 20, 1976 | N              | N            | Observation well. Slotted from 100-110 and 150-160 ft. Drilled to 165 ft and plugged back to 160 ft. <u>Y Y Y</u>   |
| 901                       | Ashley's  | Layne-Texas Company           | 1952           | 536                | 10<br>8        | 382<br>536        | Qtal 6             | 3,922                         | 49.58<br>--                   | Mar. 21, 1977<br>--            | T, R           | D, Ind       | Screens from 313-343, 392-412, 476-496, and 506-526 ft. <u>Y</u>  |
| * 902                     | City of El Paso Well 401                        | do                            | 1946           | 704                | 14<br>8        | 541<br>704        | Qtal 6             | 3,780                         | 104.25<br>146.20              | Oct. 1953<br>Jan. 22, 1974     | T, R           | D            | Screens from 544-574 and 595-702 ft. Gravel packed. Pump set at 210 ft. Performance test: Drawdown of 44 ft pumping 575 gpm. Observation well. <u>Y Y</u>   |
| * 903                     | Standard Oil Company of Texas Well 7            | Wheeler Coas                  | 1956           | 619                | 20<br>12       | 411<br>619        | Qtal 6             | 3,861                         | 207.0                         | Sept. 1956                     | T, Rg          | Ind          | Screen from 421-619 ft. Plugged back from 750 ft to 619 ft. Reported yield 500 gpm. <u>Y Y</u>  |
| * 904                     | Standard Oil Company of Texas                   | --                            | 1928           | 299                | 24<br>13       | --<br>--          | Qtal 6             | 3,750                         | 59.50                         | Aug. 28, 1935                  | N              | N            | Plugged and abandoned. <u>Y</u>   |
| 905                       | Texaco Well 2                                   | Layne-Texas Company           | 1954           | 673                | --             | --                | Qtal 6             | 3,735                         | 101.59                        | Jun. 6, 1961                   | N              | N            | Plugged and abandoned.  |
| * 906                     | Texaco Well 1                                   | B. D. Wynne                   | 1929           | 694                | --             | --                | Qtal 6             | 3,735                         | 45.8<br>64.3                  | Mar. 20, 1929<br>June 23, 1954 | N              | N            | Plugged and abandoned. Pump set at 115 ft. Reported yield 1,000 gpm. Performance test: Drawdown of 28 ft on Oct. 22, 1951. <u>Y</u>   |
| 907                       | Texaco Well 3                                   | Layne-Texas Company           | 1954           | 665                | --             | --                | Qtal 6             | 3,735                         | --                            | --                             | N              | N            | Plugged and abandoned. <u>Y</u>   |
| 908                       | Phelps-Dodge Refining Corporation Well 2        | do                            | 1940           | 683                | 20<br>12       | 485<br>683        | Qtal 6             | 3,735                         | 68.19<br>68.60                | June 4, 1940<br>June 26, 1945  | T, E           | Ind          | Screens from 482-514, 524-546, 574-616, and 649-682 ft. Reported yield 750 gpm. Performance test: Drawdown of 30 ft pumping 750 gpm. <u>Y</u>   |
| 909                       | Phelps-Dodge Refining Corporation Well 3        | do                            | 1947           | 671                | 20<br>12-3/4   | 473<br>647        | Qtal 6             | 3,730                         | 75.0                          | Oct. 1967                      | N              | N            | Plugged and abandoned. Screens from 478-561, 581-591, and 614-646 ft. Gravel packed. Performance test: Drawdown of 70 ft pumping 748 gpm. <u>Y Y</u>  |
| * 910                     | Phelps-Dodge Refining Corporation Well 4        | do                            | 1956           | 642                | 20<br>10       | 362<br>612        | Qtal 6             | 3,750                         | 110.65                        | June 29, 1956                  | N              | N            | Plugged and abandoned. Screens from 372-427, 452-502, 517-527, 532-542, 547-557, and 567-602 ft. Plugged back from 651 ft to 612 ft. Redrilled in Jan. 1967. Bronze screen from 450-642 ft. Cemented off from 362-450 ft. |
| * 911                     | Phelps-Dodge Refining Corporation Well 1        | do                            | 1929           | 706                | 20<br>12       | --<br>640         | Qtal 6             | 3,740                         | 64.0<br>75.2                  | Jan. 2, 1931<br>Jan. 15, 1947  | N              | N            | Plugged and abandoned. Screen from 498-618 ft. Reported yield 745 gpm. <u>Y</u>   |
| * 912                     | City of El Paso Well 402                        | do                            | 1947           | 689                | 14<br>8-5/8    | 252<br>477        | Qtal 6             | 3,692                         | 25.90<br>58.21                | Oct. 1953<br>Dec. 9, 1976      | T, E           | P            | Screens from 265-308, 351-372, and 394-477 ft. Gravel packed. Pump set at 120 ft. Performance test: Drawdown of 35 ft pumping 610 gpm. Observation well. <u>Y Y Y</u>   |
| * 913                     | El Paso County Water Improvement District No. 1 | do                            | 1957           | 669                | --             | --                | --                 | 3,690                         | --                            | --                             | N              | N            | Destroyed. <u>Y Y</u>   |
| * 914                     | City of El Paso Well 49                         | City of El Paso               | 1961           | 838                | 24<br>18<br>12 | 386<br>536<br>838 | Qtal 6             | 3,933                         | 289.37<br>303.78              | June 23, 1961<br>Dec. 14, 1976 | T, E           | P            | Slotted from 398-838 ft. Plugged back from 993 ft to 838 ft. Gravel packed. Measured yield 1,600 gpm. Performance test: Drawdown of 61 ft pumping 1,600 gpm. Observation well. <u>Y Y</u>                                 |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                             | Method of lift | Use of water | Remarks  |
|---------------------------|---|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|-----------------------------|----------------|--------------|--|
|                           |   |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement         |                |              |  |
| El Paso County--Continued |   |                            |                |                    |                |            |                    |                               |                               |                             |                |              |  |
| * J6-49-13-915            | Standard Oil Company of Texas                   | Wheeler Coss               | 1956           | 830                | 20 12          | 316 830    | Qtal 6             | 3,854                         | 190.                          | Sept. 1956                  | T, Ng          | Ind          | Screen from 350-830 ft. Plugged back from 890 ft to 830 ft. Reported yield 1,100 gpm. Performance test: Drawdown of 37 ft pumping 1,416 gpm. <u>Y</u> <u>Y</u> |
| * 916                     | El Paso County Water Improvement District No. 1 | Layne-Texas Company        | 1954           | 739                | --             | --         | --                 | 3,695                         | --                            | --                          | N              | N            | Abandoned. Test hole with insufficient supply. <u>Y</u> <u>Y</u>   |
| * 917                     | Texaco Well 4                                   | do                         | 1965           | 678                | 20 12          | 525 678    | Qtal 6             | 3,700                         | --                            | --                          | T              | Ind          | Shutter from 530-565, and 583-668 ft. <u>Y</u>   |
| * 918                     | County of El Paso                               | K. C. Wheeler              | 1965           | 202                | 16             | 200        | Qal. Rg            | 3,690                         | 23. 25.18                     | Mar. 1, 1974                | T, E           | Irr          | Standby well. Screen from 100-200 ft. Performance test: Drawdown of 37 ft pumping 1,800 gpm. <u>Y</u>  |
| * 919                     | Phelps-Dodge Refining Corporation Well 6        | Layne-Texas Company        | 1967           | 764                | 26 20 12-3/4   | 36 370 615 | Qtal 6             | 3,770                         | 152.                          | July 12, 1967               | T, E           | Ind          | Screen from 375-615 ft. Performance test: Drawdown of 50 ft pumping 750-1,200 gpm. <u>Y</u> <u>Y</u>   |
| * 920                     | Phelps-Dodge Refining Corporation Well 5        | do                         | 1956           | 580                | 26 20 12       | 53 260 580 | Qtal 6             | 3,738                         | 91.                           | July 28, 1956               | T, E           | Ind          | Screen from 265-580 ft. Plugged back from 665 ft to 580 ft. Performance test: Drawdown of 60 ft pumping 1,067 gpm. <u>Y</u> <u>Y</u>                           |
| * 921                     | Texaco Well 5                                   | do                         | 1967           | 765                | --             | --         | Qtal 6             | 3,752                         | 110.                          | Jan. 3, 1968                | T, E           | Ind          | Screen from 572-687 ft. Reported yield 250 gpm. Performance test: Drawdown of 140 ft pumping 708 gpm. <u>Y</u>   |
| * 922                     | City of El Paso                                 | Wheeler Coss               | --             | 50                 | 1-1/2          | 50         | Qal Rg             | 3,685                         | 23.80 31.86                   | May 2, 1968 Dec. 3, 1976    | N              | N            | Slotted from 20-50 ft. Observation well. <u>Y</u> <u>Y</u>   |
| * 923                     | Standard Oil Company of Texas                   | Layne-Texas Company        | 1928           | 590                | 10 8           | 455 590    | Qtal 6             | 3,755                         | 81.50                         | Aug. 28, 1935               | N              | N            | Plugged and cemented. Screens from 477-514, and 546-588 ft. Performance test: Drawdown of 30 ft pumping 420 gpm. <u>Y</u>                                      |
| * 924                     | do  | do                         | 1930           | 607                | 12 10          | 438 600    | Qtal 6             | 3,770                         | 66.6 60.8                     | June 6, 1930 Feb. 26, 1944  | N              | N            | Plugged and cemented. Screens from 437-483, 503-547, and 557-598 ft. Reported yield 450 gpm. <u>Y</u>  |
| * 925                     | Standard Oil Company of Texas Well 5            | do                         | 1950           | 644                | 20 12-3/4      | --         | Qtal 6             | 3,764                         | 109.                          | May 7, 1952                 | N              | N            | Plugged and cemented. Reported yield 900 gpm. Performance test: Drawdown of 31 ft pumping 945 gpm.   |
| * 926                     | Standard Oil Company of Texas Well 6            | do                         | 1952           | 652                | 20             | --         | Qtal 6             | 3,764                         | 113.                          | --                          | T, E           | Ind          | Reported yield 800 gpm. Performance test: Drawdown of 52 ft pumping 1,230 gpm. <u>Y</u>  |
| * 927                     | U.S. Bureau of Reclamation                      | U.S. Bureau of Reclamation | 1952           | 23                 | 2              | --         | Qal Rg             | 3,695                         | 7.8 34.76                     | Aug. 14, 1951 Dec. 1976     | N              | N            | Observation well.  |
| * 928                     | El Paso County Detention Home                   | --                         | 1950           | 290                | 10             | 290        | Qtal 6             | 3,695                         | 19.73                         | June 20, 1956               | N              | N            | Destroyed.   |
| * 929                     | El Paso County, Ascarate Park                   | --                         | 1969           | 100                | 16             | 100        | Qal Rg             | 3,695                         | --                            | --                          | T, E           | Irr          | Perforated from 50-100 ft. Pump set at 30 ft. Measured yield 1,348 gpm.  |
| * 930                     | Paul Jogle                                      | R. D. Will                 | 1950           | 28                 | 2              | --         | Qal Rg             | 3,690                         | 13.73                         | July 19, 1956               | N              | N            | Destroyed.   |
| * 931                     | John Torres                                     | --                         | --             | 114                | 18             | --         | Qal Rg             | 3,690                         | --                            | --                          | N              | N            | Not used. Reported yield 1,575 gpm. <u>Y</u>   |
| * 932                     | Standard Oil Company of Texas                   | Wheeler Coss               | 1961           | 951                | --             | --         | Qtal 6             | 3,870                         | --                            | --                          | N              | N            | Plugged and abandoned. Test well (insufficient water). <u>Y</u>  |
| * 933                     | International Boundary and Water Commission     | -- Dickinson               | 1967           | 52                 | 2              | --         | Qal Rg             | 3,690                         | 19.19 20.03                   | July 16, 1967 Jan. 26, 1970 | N              | N            | Destroyed. Historical observation well. <u>Y</u>   |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                                       | Driller                       | Date completed | Depth of well (ft) | Casing             |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks   |
|---------------------------|---|-------------------------------|----------------|--------------------|--------------------|-------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|---|
|                           |   |                               |                |                    | Diameter (in.)     | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |   |
| El Paso County--Continued |   |                               |                |                    |                    |                   |                    |                               |                               |                               |                |              |   |
| * JL-49-13-934            | International Boundary and Water Commission | -- Dickinson                  | 1967           | 53                 | 2                  | 53                | Qal Rg             | 3,692                         | 14.35<br>20.82                | July 17, 1967<br>Dec. 9, 1974 | N              | N            | Observation well. <u>3</u>  |
| 935                       | County of El Paso                           | Gale Drilling                 | 1973           | 192                | 16                 | 192               | Qal Rg             | 3,690                         | --                            | --                            | T, E           | Irr          | Slotted from 112-192 ft. Gravel packed. <u>1</u>  |
| * 936                     | Phelps-Dodge Refining Corporation Well 7    | Layne-Texas Company           | 1970           | 650                | 26<br>20<br>12-3/4 | 32<br>360<br>560  | Qtal 6             | 3,750                         | 121                           | Sept. 21, 1970                | --             | Ind          | Shutter from 364-552 ft. Gravel-wall. Performance test: Drawdown of 106 ft pumping 1,016 gpm. <u>1</u> <u>2</u>   |
| * 937                     | County of El Paso, Ascarate Park            | Morrison Drilling Company     | 1951           | 165                | 30<br>18           | 36<br>165         | Qal Rg             | 3,695                         | 11.63                         | Feb. 1953                     | N              | N            | Abandoned. Estimated yield 1,350 gpm. <u>4</u>  |
| * 938                     | City of El Paso                             | Texas Water Development Board | 1976           | 215                | 4                  | 215               | Qtal 6             | 3,775                         | 116.47                        | June 2, 1976                  | N              | N            | Observation Well. <u>1</u> <u>2</u>   |
| * 14-101                  | U.S. Army                                   | Layne-Texas Company           | 1959           | 819                | 24<br>16           | 238<br>819        | Qtal 6             | 3,960                         | 274                           | Aug. 21, 1959                 | T, E           | P            | Yield measured 1,645 gpm with 74 ft drawdown after 24 hours pumping on Aug. 21, 1959.   |
| * 102                     | do  | do                            | 1952           | 404                | 3                  | 400               | Qtal 6             | 3,953                         | 253.6<br>282.87               | Feb. 27, 1952<br>Jan. 5, 1977 | N              | N            | Test well. Screened from 390-400 ft. <u>1</u> <u>2</u> <u>3</u>   |
| 103                       | do  | --                            | --             | 225                | 8                  | --                | Qtal 6             | 3,942                         | 253.4<br>269.4                | Oct. 4, 1950<br>Jan. 6, 1954  | N              | N            | Abandoned.  |
| 104                       | City of El Paso                             | City of El Paso               | 1973           | 942                | 24<br>16           | 333<br>942        | Qtal 6             | 3,945                         | 304                           | Nov. 1973                     | T, E           | P            | Slotted from 382-422, 465-505, and 527-942 ft. Electric log to 1,116 ft. <u>2</u>   |
| 105                       | do  | do                            | 1973           | 960                | 24<br>16           | 322<br>960        | Qtal 6             | 3,933                         | 305<br>275.64                 | --<br>Jan. 15, 1976           | T, E           | P            | Slotted from 468-782, 816-887, 922-960 ft. Drawdown 70 ft after 21 hours pumping 1,750 gpm. <u>2</u>  |
| * 201                     | U.S. Army                                   | Layne-Texas Company           | 1952           | 500                | 3                  | 490               | Qtal 6             | 4,005                         | 315.9<br>327.25               | Mar. 24, 1952<br>Jan. 3, 1968 | N              | N            | Screened from 490-500 ft. Observation well. <u>2</u>  |
| * 301                     | do  | B & W Drilling Company        | 1953           | 420                | 3                  | 420               | Qtal 6             | 4,005                         | 314.2<br>282.87               | Jan. 6, 1954<br>Jan. 5, 1977  | N              | N            | Test well. Slotted from 410-420 ft. Plugged back from 1,200 ft to 420 ft. Used for observation. <u>1</u> <u>2</u> <u>3</u>  |
| 302                       | do  | Payne & Ballard               | 1940           | --                 | 7                  | --                | Qtal 6             | 3,997                         | 301.6<br>301.2                | Apr. 25, 1952<br>Mar. 5, 1954 | C, W           | N            | Reported yield 18 gpm.  |
| * 401                     | City of El Paso                             | City of El Paso               | 1960           | 830                | 24<br>18<br>12     | 311<br>510<br>830 | Qtal 6             | 3,955                         | 292.94<br>332.89              | Nov. 28, 1960<br>Dec. 7, 1976 | T, E           | P            | Slotted from 323-830 ft. Plugged back from 930 ft to 830 ft. <u>1</u> <u>2</u> <u>3</u>   |
| * 402                     | do  | do                            | 1960           | 745                | 24<br>18<br>12     | 312<br>556<br>745 | Qtal 6             | 3,945                         | 281.00<br>316.10              | Nov. 18, 1960<br>Dec. 7, 1976 | T, K           | P            | Slotted from 319-555, and 555-745 ft. Drawdown 54 ft after 8 hours pumping 1,200 gpm on Nov. 18, 1960. Plugged back from 831 ft to 745 ft. <u>1</u> <u>2</u> <u>3</u> |
| * 403                     | do  | do                            | 1960           | 490                | 4                  | 490               | Qtal 6             | 3,972                         | 300.73<br>319.63              | Nov. 15, 1960<br>Jan. 1972    | N              | N            | Plugged back from 722 ft to 490 ft. Observation well. <u>3</u>  |
| * 404                     | U.S. Army                                   | Layne-Texas Company           | 1952           | 750                | 6-5/8              | 750               | Qtal 6             | 3,952                         | 266.73<br>310.95              | Jan. 18, 1952<br>Jan. 1974    | N              | N            | Slotted from 710-750 ft. Observation well. <u>1</u> <u>2</u> <u>3</u>   |
| * 405                     | International Airport                       | do                            | 1951           | 550                | 6-5/8              | 494               | Qtal 6             | 3,953                         | 268.1<br>310.24               | Jan. 9, 1952<br>Jan. 11, 1976 | N              | N            | Slotted from 410-430, and 473-494 ft. Observation well. <u>1</u> <u>2</u> <u>3</u>  |
| * 406                     | City of El Paso                             | City of El Paso               | 1966           | 816                | 24<br>18           | 335<br>791        | Qtal 6             | 3,953                         | 303.3<br>325.81               | Jan. 23, 1967<br>Dec. 7, 1976 | T, E           | P            | Slotted from 400-791 ft. Drawdown 82 ft after 21.5 hours pumping 1,400 gpm on Jan. 24, 1967. <u>3</u>   |
| 407                       | do  | C. R. Jensen                  | 1939           | 1,072              | --                 | --                | Qtal 6             | 3,948                         | --                            | --                            | N              | N            | Test well. Electric log indicates fresh water sands extend to 875 ft. <u>1</u> <u>2</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                   | Driller                | Date completed | Depth of well (ft.) | Casing         |                   | Water bearing unit | Altitude of land surface (ft.) | Water level                    |                                | Method of lift | Use of water | Remarks  |
|---------------------------|-------------------------|------------------------|----------------|---------------------|----------------|-------------------|--------------------|--------------------------------|--------------------------------|--------------------------------|----------------|--------------|--|
|                           |                         |                        |                |                     | Diameter (in.) | Depth (ft.)       |                    |                                | Below land-surface datum (ft.) | Date of measurement            |                |              |  |
| El Paso County--Continued |                         |                        |                |                     |                |                   |                    |                                |                                |                                |                |              |  |
| JL-49-14-408              | City of El Paso         | C. R. Jensen           | 1938           | 1,131               | --             | --                | Qtal 6             | 3,941                          | --                             | --                             | N              | N            | Test well. Electric log indicates fresh water sands extend to 780 ft. <u>1/2</u>                                       |
| * 409                     | do                      | do                     | 1939           | 608                 | --             | --                | Qtal 6             | 3,926                          | --                             | --                             | N              | N            | Test well. Plugged back from 1,097 ft to 608 ft. Electric log indicates fresh-water sands extend to 875 ft. <u>1/2</u> |
| * 410                     | do                      | do                     | 1939           | 957                 | --             | --                | Qtal 6             | 3,964                          | --                             | --                             | N              | N            | Test well. Electric log and drill-stem tests indicate fresh-water sands extend to 565 ft. <u>1/2</u>                   |
| 411                       | do                      | Holland Page, Jr.      | 1951           | 340                 | 8<br>4         | 304<br>340        | Qtal 6             | 3,950                          | 308                            | July 1951                      | C, E           | P, Ind       | Reported yield 25 gpm.   |
| * 412                     | do                      | Wheeler Cass           | 1965           | 695                 | 22<br>12       | 300<br>696        | Qtal 6             | 3,953                          | 319                            | Dec. 1965                      | T, E           | F, Irr       | Drawdown 27 ft after 3 hours pumping 1,000 gpm in Dec. 1965. <u>2</u>  |
| * 413                     | do                      | City of El Paso        | 1970           | 600                 | 24<br>16       | 336<br>600        | Qtal 6             | 3,972                          | 322.40<br>332.49               | Jan. 7, 1973<br>Dec. 7, 1976   | T, E           | P            | Slotted from 390-600 ft. Yield 700 gpm. Test well drilled to 722 ft in Nov. 1960. <u>1/3</u>                           |
| * 414                     | do                      | --                     | 1970           | 700                 | 24<br>16<br>12 | 329<br>574<br>700 | Qtal 6             | 3,955                          | 303<br>315.78                  | Oct. 23, 1970<br>Dec. 7, 1976  | T, E           | F            | Slotted from 342-700 ft. <u>1/2 2/3</u>  |
| * 415                     | do                      | City of El Paso        | 1972           | 960                 | 24<br>16       | 322<br>960        | Qtal 6             | 3,938                          | 303.34<br>319.13               | Jan. 15, 1973<br>Jan. 15, 1976 | T, E           | P            | Slotted from 468-782, 816-886, and 920-960 ft. Yield 2,005 gpm. <u>1/2 2/3</u>   |
| 416                       | do                      | do                     | 1973           | 950                 | 24<br>16       | 310<br>950        | Qtal 6             | 3,944                          | 314.32                         | Oct. 11, 1973                  | T, E           | P            | Slotted from 536-950 ft. Drawdown 89 ft pumping 2,000 gpm. Electric log to 1,116 ft.                                   |
| * 501                     | U.S. Geological Survey  | B & W Drilling Company | 1953           | 950                 | --             | --                | Qtal 6             | 3,977                          | 319.3                          | Apr. 17, 1953                  | N              | N            | Test well. Plugged. Electric logs and drill-stem tests indicate fresh-water sands to 555 ft. <u>1/2</u>                |
| * 502                     | U.S. Army               | Wheeler Cass           | 1913           | 378                 | 6              | 378               | Qtal 6             | 4,010                          | 322.0<br>322.4                 | June 13, 1936<br>June 20, 1942 | N              | N            | Plugged and covered.   |
| * 503                     | Northeast Furniture     | Joe Bradford           | 1971           | 440                 | 8              | 440               | Qtal 6             | 3,976                          | --                             | --                             | Sub, E         | P            | Provides water for trailer court. Temp. 80°F on July 7, 1976.  |
| * 504                     | U.S. Army               | Layne-Texas Company    | 1967           | 500                 | 18<br>8-5/8    | 75<br>495         | Qtal 6             | 4,000                          | 328.9                          | Sept. 5, 1967                  | T, E           | P            | Drawdown 19 ft after 24 hours pumping 22 gpm in Dec. 1967. <u>1/2</u>  |
| 505                       | Northeast Furniture     | Brown & Ledford        | 1960           | 430                 | 6              | 430               | Qtal 6             | 3,976                          | --                             | --                             | Sub, E         | P            | Provides water for trailer court.  |
| * 507                     | Floyd Cass              | --                     | 1957           | 344                 | 6-5/8          | 344               | Qtal 6             | 3,992                          | --                             | --                             | N              | N            | Estimated yield 30 gpm. Abandoned and capped when began to pump sand.  |
| 508                       | do                      | Wheeler Cass           | 1958           | 360                 | 10-5/8         | 360               | Qtal 6             | 3,992                          | 328.82                         | Oct. 9, 1973                   | Sub, E         | D, S, P      | Slotted from 320-360 ft. Supplies trailers and stables.  |
| 509                       | George Dashley          | do                     | 1967           | 360                 | 6-5/8          | 360               | Qtal 6             | 3,985                          | --                             | --                             | Sub, N         | D, S         | --   |
| * 601                     | Evergreen Cemetery East | K. Wheeler             | 1965           | 487                 | 12             | 487               | Qtal 6             | 3,998                          | --                             | --                             | T, E           | Irr          | Perforated from 130-487 ft.  |
| * 602                     | Desert Acceptance Corp. | --                     | 1971           | --                  | 10-5/8         | --                | Qtal 6             | 4,000                          | 319.9                          | Oct. 9, 1973                   | Sub, E         | P            | Provides water for about 40 trailers.  |
| * 603                     | Evergreen Cemetery East | K. Wheeler             | 1964           | 480                 | 8              | 480               | Qtal 6             | 3,998                          | 330                            | Sept. 1964                     | N              | N            | Perforated from 330-480 ft. Plugged and sanded up. <u>1/2</u>  |
| * 605                     | do                      | Joe Bradford           | 1976           | 463                 | 12-3/4         | 463               | Qtal 6             | 3,998                          | 326<br>324.7                   | May 17, 1976<br>July 6, 1976   | T, E           | Irr          | Slotted from 340-463 ft. <u>1/2</u>  |
| * 606                     | Ernest Begley           | do                     | 1974           | 440                 | 8-5/8          | 440               | Qtal 6             | 4,002                          | 300                            | Nov. 20, 1974                  | Sub, E         | D            | Slotted from 350-440 ft. Pumped 37 gpm. <u>1/2</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                         | Driller                  | Date completed | Depth of well (ft) | Casing         |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|-------------------------------|--------------------------|----------------|--------------------|----------------|-------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                               |                          |                |                    | Diameter (in.) | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                               |                          |                |                    |                |                   |                    |                               |                               |                                |                |              |   |
| JL-49-14-607              | Desert Acceptance Corp.       | Joe Bradford             | 1972           | --                 | 16<br>10-5/8   | --                | Qtal 6             | 4,005                         | --                            | --                             | Sub, E         | P            | Supplies trailer park.  |
| 608                       | do                            | K. Wheeler               | 1966           | --                 | 10-5/8         | --                | Qtal 6             | 4,000                         | 319.6                         | Oct. 9, 1973                   | N              | N            | Abandoned, Pumped sand.   |
| * 701                     | City of El Paso Well 38       | City of El Paso          | 1959           | 722                | 24<br>18<br>12 | 334<br>342<br>722 | Qtal 6             | 3,955                         | 295.80<br>332.51              | May 14, 1959<br>Dec. 15, 1976  | T, E           | P            | Slotted from 342-722 ft. Gravel packed. Development test: Drawdown of 66 ft pumping 1,480 gpm on May 15, 1959. Observation well. <u>1</u> <u>2</u> <u>3</u>   |
| * 702                     | City of El Paso Well 409      | Layne-Texas Company      | 1955           | 655                | 20<br>12       | 354<br>655        | Qtal 6             | 3,965                         | 310.25<br>340.48              | May 30, 1956<br>Dec. 8, 1976   | T, E           | P            | Screens from 385-570 and 600-650 ft. Plugged back from 845 ft to 655 ft. Reported yield 700 gpm. Performance test: Drawdown of 22 ft pumping 700 gpm on May 30, 1956. Observation well. <u>1</u> <u>2</u> <u>3</u>  |
| * 703                     | City of El Paso Well 410      | do                       | 1956           | 762                | 26<br>20<br>12 | 42<br>318<br>762  | Qtal 6             | 3,872                         | 213.00<br>234.88              | May 15, 1956<br>Dec. 14, 1976  | T, E           | P            | Screens from 360-380, 430-450, 480-500, 520-562, 612-640, 660-680, 690-710, and 750-760 ft. Plugged back from 815 ft to 762 ft. Gravel packed. Pump set at 400 ft. Performance test: Drawdown of 44 ft pumping 1,034 gpm. Observation well. <u>1</u> <u>2</u> <u>3</u>            |
| * 704                     | City of El Paso Well 407      | El Paso Drilling Company | 1954           | 610                | 20<br>12       | 247<br>610        | Qtal 6             | 3,822                         | 173.00<br>195.85              | Feb. 15, 1958<br>Jan. 16, 1974 | T, E           | P            | Screens from 256-276, 300-340, 354-394, 406-446, 476-526, and 554-604 ft. Gravel packed. Plugged back from 727 ft to 610 ft. Pump set at 260 ft. Observation well. <u>1</u> <u>2</u> <u>3</u>   |
| * 705                     | City of El Paso Well 411      | Layne-Texas Company      | 1956           | 690                | 20<br>12       | 350<br>690        | Qtal 6             | 3,960                         | 318.75<br>337.77              | Nov. 23, 1956<br>Jan. 1973     | T, E           | P            | Screens from 360-380, 390-400, 430-470, 490-540, 560-580, 590-610, and 640-690 ft. Gravel packed. Plugged back from 763 ft to 690 ft. Pump set at 250 ft. Yield 1,000 gpm. Observation well. <u>1</u> <u>2</u> <u>3</u>   |
| * 706                     | City of El Paso Well 48       | City of El Paso          | 1961           | 618                | 24<br>18<br>12 | 280<br>500<br>635 | Qtal 6             | 3,947                         | 281.36<br>311.19              | Jan. 23, 1961<br>Dec. 7, 1976  | T, E           | P            | Slotted 18 in. from 299-500 ft and slotted 12 in. from 500-618 ft. Plugged back from 705 ft to 618 ft. Gravel packed. Development test: Drawdown of 73 ft pumping 1,000 gpm on Jan. 23, 1961. Temp. 79°F. Observation well. <u>2</u> <u>3</u>                                     |
| * 707                     | City of El Paso Well 50       | do                       | 1961           | 747                | 24<br>18<br>12 | 375<br>520<br>747 | Qtal 6             | 3,920                         | 291.10<br>306.73              | June 19, 1961<br>Dec. 14, 1976 | T, E           | P            | Slotted 18 in. from 383-520 ft and slotted 12 in. from 520-747 ft. Plugged back from 901 ft to 747 ft. Pump set at 400 ft. Yield 1,400 gpm. Development test: Drawdown of 62 ft pumping 1,400 gpm on June 19, 1961. Temp. 79°F. Observation well. <u>2</u> <u>3</u>               |
| * 708                     | Standard Oil Company of Texas | Wheeler Cass             | 1961           | 750                | 20<br>14<br>12 | 220<br>330<br>750 | Qtal 6             | 3,802                         | 163.0                         | Feb. 25, 1962                  | T, E           | Ind          | Plugged back from 803 ft to 750 ft. Yield 780 gpm. Performance test: Drawdown of 33 ft pumping 720 gpm. <u>2</u>  |
| * 709                     | City of El Paso Well 64       | City of El Paso          | 1967           | 814                | 24<br>18       | 327<br>468        | Qtal 6             | 3,950                         | 320.40<br>334.73              | Oct. 17, 1967<br>Dec. 15, 1976 | T, E           | P            | Slotted 18 in. from 350-460 ft. Gravel packed. Pump set at 439 ft. Yield 1,160 gpm. Observation well. <u>3</u>  |
| * 710                     | City of El Paso Well 406      | Layne-Texas Company      | 1953           | 555                | 20<br>12       | 240<br>555        | Qtal 6             | 3,830                         | 167.00<br>185.93              | Jan. 1956<br>Jan. 1972         | T, E           | P            | Screens from 244-274, 282-312, 324-394, 404-424, 438-468, and 550-555 ft. Plugged back from 691 ft to 555 ft. Gravel packed. Pump set at 310 ft. Reported yield 802 gpm. Performance test: Drawdown of 36 ft pumping 800 gpm on Mar. 7, 1956. Observation well. <u>2</u> <u>3</u> |
| * 711                     | City of El Paso Well 405      | do                       | 1952           | 490                | 18<br>10<br>8  | 255<br>309<br>490 | Qtal 6             | 3,755                         | 86.50<br>142.62               | Oct. 1953<br>Jan. 16, 1974     | T, E           | P            | Screens from 260-280, 320-400, 430-440, and 450-480 ft. Gravel packed. Pump set at 150 ft. Reported yield 600 gpm. Performance test: Drawdown of 30 ft pumping 600 gpm. Temp. 80°F. Observation well. <u>1</u> <u>2</u> <u>3</u>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner  | Driller                       | Date completed | Depth of well (ft) | Casing               |                       | Water bearing unit | Altitude of land surface (ft) | Water Level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|--|-------------------------------|----------------|--------------------|----------------------|-----------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |  |                               |                |                    | Diameter (in.)       | Depth (ft)            |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |  |                               |                |                    |                      |                       |                    |                               |                               |                                |                |              |  |
| JL-49-14-712              | East Side Development and Country Club                 | Layne-Texas Company           | --             | 595                | --                   | --                    | --                 | 3,975                         | 310                           | --                             | N              | N            | Test hole (Golf course). Electric log indicates no fresh water. <u>2</u>   |
| * 713                     | Price's Dairy  | do                            | 1956           | 562                | 26<br>20<br>12<br>10 | --<br>--<br>--<br>560 | Qtal 6             | 3,730                         | 76                            | May 3, 1956                    | T, E           | D, S, Ind    | Screen from 272-550 ft. Performance test: Drawdown of 33 ft pumping 662 gpm. <u>1</u>  |
| * 714                     | City of El Paso Well 65                                | City of El Paso               | 1967           | 650                | 18<br>12             | 300<br>350            | Qtal 6             | 3,941                         | 278.30<br>286.31              | Sept. 11, 1967<br>Jan. 7, 1974 | T, E           | F            | Slotted 12 in. from 350-480 ft. Gravel packed. Pump set at 400 ft. Estimated yield 500 gpm. Performance test: Drawdown of 40 ft pumping 500 gpm. Observation well. <u>2</u> <u>3</u> |
| * 715                     | City of El Paso Well 68                                | do                            | 1969           | 680                | 24<br>16             | 300<br>370            | Qtal 6             | 3,940                         | 293.09<br>297.18              | Mar. 7, 1969<br>Jan. 7, 1974   | T, E           | F            | Slotted 16 in. from 370-545 ft. Gravel packed. Pump set at 420 ft. Yield 743 gpm. Observation well. <u>2</u> <u>3</u>  |
| * 716                     | City of El Paso Well 70                                | do                            | 1969           | 560                | 24<br>16             | 300<br>360            | Qtal 6             | 3,950                         | 315.45<br>321.86              | Nov. 5, 1969<br>Jan. 15, 1975  | T, E           | F            | Slotted 16 in. from 360-560 ft. Gravel packed. Pump set at 440 ft. Estimated yield 700 gpm. Observation well. <u>2</u> <u>3</u>  |
| * 717                     | City of El Paso Well 71                                | do                            | 1969           | 555                | 24<br>16             | 330<br>410            | Qtal 6             | 3,958                         | 309.37<br>318.75              | Jan. 1971<br>Dec. 7, 1976      | T, E           | F            | Slotted 16 in. from 410-555 ft. Gravel packed. Pump set at 430 ft. Estimated yield 700 gpm. Observation well. <u>2</u> <u>3</u>  |
| * 718                     | City of El Paso Well 69                                | do                            | 1969           | 540                | 24<br>16             | 310<br>377            | Qtal 6             | 3,880                         | 233.96<br>240.40              | Jan. 1971<br>Jan. 7, 1974      | T, E           | F            | Slotted 16 in. from 377-540 ft. Gravel packed. Pump set at 400 ft. Estimated yield 700 gpm. Observation well. <u>3</u>   |
| 720                       | City of El Paso  | Texas Water Development Board | 1976           | 190                | 4                    | 190                   | Qtal 6             | 3,755                         | --                            | --                             | N              | N            | Observation well. <u>1</u> <u>2</u>  |
| * 801                     | Lane's Dairy   | --                            | --             | 350                | 6-5/8                | --                    | Qtal 6             | 3,995                         | --                            | --                             | N              | N            | Abandoned.   |
| 802                       | Foster Schwartz Golf Resort Development Company Well 1 | Layne-Texas Company           | 1972           | 535                | 20<br>12-3/4         | 290<br>535            | Qtal 6             | 3,930                         | 276                           | Mar. 2, 1972                   | T, E           | Irr          | Screens from 330-440, 450-480, and 485-525 ft. Plugged back from 660 ft to 535 ft. Gravel packed. Performance test: Drawdown of 46 ft pumping 709 gpm on Mar. 2, 1972. <u>1</u>      |
| 803                       | Foster Schwartz Golf Resort Development Company Well 2 | do                            | 1972           | 530                | 20<br>12-3/4         | 290<br>530            | Qtal 6             | 3,935                         | 275                           | Apr. 20, 1972                  | T, E           | Irr          | Screens from 332-410 and 420-520 ft. Plugged back from 620 ft to 530 ft. Gravel packed. Performance test: Drawdown of 63 ft pumping 626 gpm on Apr. 20, 1972. <u>1</u> <u>2</u>      |
| * 15-301                  | G. McCardle  | Cole Drilling Company         | 1976           | 558                | 10-3/4               | 558                   | Qtal 6             | 4,126                         | --                            | --                             | Sub, E         | F            | Supplies trailer and small housing development. Pumped 86 gpm.   |
| * 401                     | Hueco Club (EPNG)                                      | El Paso Drilling Company      | 1953           | 600                | 10-1/4               | 600                   | Qtal 6             | 4,018                         | 332                           | Apr. 6, 1954                   | T, G           | D            | Pump set at 470 ft.  |
| * 402                     | do   | Wheeler Cass                  | 1958           | 795                | --                   | --                    | Qtal 6             | 4,008                         | 329                           | Sept. 1958                     | N              | N            | Abandoned. Insufficient supply. <u>1</u>   |
| 403                       | Desert Oasis Trailer Park                              | Joe Bradford                  | 1971           | 445                | 10                   | 445                   | Qtal 6             | 4,008                         | 320                           | Jan. 15, 1971                  | Sub, E         | F            | Slotted from 345-445 ft. Drawdown 5 ft after 6 hours pumping 180 gpm. <u>1</u>   |
| * 404                     | Hueco Club (EPNG)                                      | Layne-Texas Company           | 1973           | 640                | 26<br>12-3/4         | 32<br>640             | Qtal 6             | 4,009                         | 340                           | July 5, 1976                   | T, E           | F, Irr       | Slotted from 350-410 and 590-630 ft. Production 375 gpm; pumping level 357 ft. Temp. 92°F on July 5, 1976. <u>1</u>  |
| 405                       | Dan Olivas   | Cecil Ballard                 | 1973           | 535                | 6-1/2                | 535                   | Qtal 6             | 4,024                         | 353.68                        | do                             | N              | N            | --   |
| * 406                     | Desert Oasis Trailer Park                              | Joe Bradford                  | 1975           | 440                | 10-3/4               | 440                   | Qtal 6             | 4,008                         | 325                           | Mar. 1, 1975                   | Sub, E         | F            | Slotted from 360-440 ft. Supplies trailer park. Temp. 78°F on July 5, 1976. <u>1</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                                       | Driller                  | Date completed | Depth of well (ft.) | Casing         |                  | Water bearing unit | Altitude of land surface (ft.) | Water level                    |                                 | Method of lift | Use of water | Remarks  |
|---------------------------|---|--------------------------|----------------|---------------------|----------------|------------------|--------------------|--------------------------------|--------------------------------|---------------------------------|----------------|--------------|--|
|                           |   |                          |                |                     | Diameter (in.) | Depth (ft.)      |                    |                                | Below land-surface datum (ft.) | Date of measurement             |                |              |  |
| El Paso County--Continued |   |                          |                |                     |                |                  |                    |                                |                                |                                 |                |              |  |
| * JL-49-15-407            | Carl Ferrara                                | Joe Bradford             | 1972           | 400                 | 8              | 400              | Qtal 6             | 4,014                          | 300                            | July 6, 1976                    | Sub, E         | D            | Pumped 34 gpm. Temp. 78°F on July 7, 1976. <u>1</u>  |
| * 501                     | Fred Kyle                                   | Fred Kyle                | 1962           | 450                 | 8              | 400              | Qtal 6             | 4,030                          | 332                            | 1964                            | Sub, E         | D            | Temp. 80°F on July 5, 1976.  |
| 502                       | Bill Vickers                                | Joe Bradford             | 1971           | 430                 | 8-5/8          | 430              | Qtal 6             | 4,028                          | 320                            | Mar. 11, 1971                   | Sub, E         | D            | Gravel packed.   |
| * 503                     | Desert Sands Gun Club                       | --                       | --             | --                  | --             | --               | Qtal 6             | 4,037                          | --                             | --                              | Sub, E         | D            | Temp. 88°F on July 7, 1976.  |
| * 504                     | George Nabhan                               | Joe Bradford             | 1974           | 417                 | 6              | 412              | Qtal 6             | 4,043                          | 360                            | Sept. 16, 1974                  | Sub, E         | D            | Slotted from 312-412 ft. Temp. 86°F on July 5, 1976. <u>1</u>  |
| * 701                     | El Paso Natural Gas Well 2                  | El Paso Drilling Company | 1953           | 596                 | 24<br>10-3/4   | 32<br>596        | Qtal 6             | 4,023                          | 336.60<br>349.70               | June 4, 1953<br>May 6, 1972     | N              | N            | Capped. To be used for cathodic protection. Slotted from 343-376, 380-435, 439-434, 470-495, 510-514, and 543-591 ft. Gravel packed. Reported yield 300 gpm. Temp. 84.5°F. <u>1</u> <u>2</u>   |
| * 702                     | El Paso Natural Gas Well 1                  | do                       | 1953           | 618                 | 24<br>10<br>8  | 27<br>499<br>620 | Qtal 6             | 4,024                          | 340.80<br>346.00               | June 4, 1953<br>Mar. 7, 1972    | N              | N            | Capped. To be used for cathodic protection. Perforated from 298-466, 467-485, and 550-610 ft. Gravel packed. Reported yield 300 gpm. <u>1</u> <u>2</u>   |
| 801                       | R. C. Sparks Estate                         | J. T. Hatch              | 1945           | 415                 | 6              | --               | Qtal 6             | 4,033                          | 371.37<br>359.60               | Apr. 29, 1952<br>Sept. 6, 1956  | N              | N            | Destroyed.   |
| * 802                     | El Paso Natural Gas Well 4                  | Layne-Texas Company      | 1972           | 640                 | 26<br>12-3/4   | 33<br>640        | Qtal 6             | 4,053                          | 392<br>420                     | Aug. 14, 1972<br>Mar. 8, 1973   | T, E           | P, Ind       | Slotted from 404-413, 429-469, 551-581, and 610-630 ft. Gravel packed. Plugged back from 660 ft to 640 ft. Pump set at 514 ft. Reported yield 162 gpm. Performance test: Drawdown of 79 ft pumping 285 gpm on Aug. 14, 1972. Temp. 100°F. <u>1</u> <u>2</u>          |
| * 803                     | El Paso Natural Gas Well 3                  | do                       | 1968           | 552                 | 26<br>12-3/4   | 24<br>552        | Qtal 6             | 4,054                          | 377<br>392.2                   | Sept. 30, 1968<br>Oct. 1, 1973  | Sub, E         | P, Ind       | Slotted from 400-410, 428-448, 458-468, 492-502, and 516-536 ft. Gravel packed. Plugged back from 620 ft to 552 ft. Pump set at 502 ft. Reported yield 95 gpm. Performance test: Drawdown of 143 ft pumping 200 gpm on Sept. 30, 1968. Temp. 94°F. <u>1</u> <u>2</u> |
| 804                       | El Paso Natural Gas                         | do                       | 1972           | 629                 | --             | --               | --                 | 4,048                          | --                             | --                              | N              | N            | Test hole. <u>1</u> <u>2</u>   |
| * 901                     | R. C. Sparks Estate                         | --                       | 1902           | 440                 | 6              | 440              | Qtal 6             | 4,057                          | 383.40<br>379.35               | Apr. 10, 1936<br>Feb. 6, 1954   | C, W           | S            | --   |
| 902                       | J. Navar                                    | --                       | --             | 1,100               | --             | --               | Qtal 6             | 4,075                          | 700                            | --                              | --             | S            | Not potable.   |
| 903                       | El Paso Natural Gas                         | --                       | 1968           | 565                 | --             | --               | --                 | 4,065                          | --                             | --                              | --             | --           | Test hole. <u>1</u> <u>2</u>   |
| 904                       | do  | --                       | 1968           | 551                 | --             | --               | --                 | 4,075                          | --                             | --                              | --             | --           | Do.  |
| * 21-101                  | City of El Paso Well DR-E                   | City of El Paso          | 1954           | 52                  | 20             | 25               | Qal Rg.            | 3,710                          | 29.59<br>51.21                 | Mar. 26, 1968<br>Dec. 20, 1971  | N              | N            | Not used. Slotted from 25-50 ft. Temp. 66°F. Observation well. <u>3</u>  |
| * 102                     | International Boundary and Water Commission | -- Dickinson             | 1967           | 100                 | 2              | 52               | Qal Rg             | 3,711                          | 34.89<br>89.33                 | July 20, 1967<br>Jan. 1974      | N              | N            | Destroyed. Observation well. <u>3</u> Originally drilled to 52 feet, Deepened to 100 ft in 1972.   |
| * 103                     | El Paso Milling Company                     | --                       | 1912           | 398                 | 10             | 398              | Qtal 6             | 3,707                          | 12.6<br>36.23                  | Aug. 23, 1935<br>Jan. 27, 1955  | N              | N            | Destroyed. Reported yield 500 gpm.   |
| * 301                     | City of El Paso Well 413                    | Layne-Texas Company      | 1957           | 692                 | 20<br>12       | 440<br>692       | Qtal 6             | 3,692                          | 30.26<br>55.15                 | Sept. 20, 1957<br>Dec. 15, 1975 | T, E           | P            | Screens from 452-492, 512-612, and 622-682 ft. Gravel packed. Plugged back from 787 ft to 692 ft. Pump set at 140 ft. Yield 815 gpm. Observation well. <u>1</u> <u>2</u> <u>3</u>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                 | Method of lift | Use of water | Remarks   |
|---------------------------|---|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|---------------------------------|----------------|--------------|---|
|                           |   |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement             |                |              |   |
| El Paso County--Continued |   |                            |                |                    |                |            |                    |                               |                               |                                 |                |              |   |
| JL-49-21-302              | W. L. Sherrell  | --                         | 1954           | 30                 | 2              | 30         | Qal Rg             | 3,685                         | 10.10<br>12.10                | July 18, 1956<br>Feb. 15, 1957  | C, R           | Irr          | --  |
| 303                       | City of El Paso   | Wheeler Cass               | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,685                         | 9.25<br>8.84                  | Mar. 21, 1968<br>Sept. 29, 1975 | N              | N            | Slotted from 20-50 ft. Gravel packed. Observation well. <u>1/3</u>  |
| 304                       | do  | do                         | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,682                         | 12.03<br>14.13                | Mar. 21, 1968<br>June 18, 1976  | N              | N            | Do.   |
| * 305                     | El Paso County Water Control & Improvement District No. 1 | Layne-Texas Company        | 1956           | 676                | --             | --         | --                 | 3,685                         | --                            | --                              | N              | N            | Abandoned. Test hole with insufficient supply. <u>1/2</u>   |
| * 306                     | International Boundary and Water Commission               | -- Dickinson               | 1967           | 52                 | 2              | 52         | Qal Rg             | 3,688                         | 8.62<br>13.45                 | July 17, 1967<br>July 20, 1977  | N              | N            | Observation well. <u>3</u>  |
| 307                       | Sam Leiper  | --                         | --             | 100                | 14             | --         | Qal Rg             | 3,685                         | --                            | --                              | T, E           | Irr          | Yield 650 gpm. <u>4</u>   |
| 308                       | Texas and New Orleans Railroad                            | --                         | --             | 165                | 16             | --         | Qal Rg             | 3,685                         | --                            | --                              | T, Ng          | Irr          | Yield 2.5 cfm. Temp. 65°F. <u>4</u>   |
| 22-101                    | Jose G. Valies  | --                         | 1953           | 65                 | --             | --         | Qal Rg             | 3,673                         | --                            | --                              | N              | N            | Destroyed. Yield 552 gpm. <u>4</u>  |
| * 102                     | City of El Paso Well 412                                  | Layne-Texas Company        | 1956           | 323                | 26<br>10       | 37<br>323  | Qtal 6             | 3,810                         | 142.00<br>163.17              | Jan. 1957<br>Dec. 13, 1976      | T, E           | P            | Screens from 190-220 and 236-316 ft. Plugged back from 576 ft to 323 ft. Gravel packed. Pump set at 210 ft. Performance test: Drawdown of 66 ft pumping 556 gpm. Observation well. <u>1/2/3</u> |
| * 103                     | City of El Paso Well 403                                  | do                         | 1947           | 386                | 14<br>8-5/8    | 230<br>386 | Qtal 6             | 3,715                         | 50.00<br>66.76                | Oct. 1953<br>Nov. 30, 1976      | T, E           | P            | Screens from 242-310 and 339-383 ft. Plugged back from 786 ft to 386 ft. Gravel packed. Pump set at 130 ft. Performance test: Drawdown of 51 ft pumping 580 gpm. Observation well. <u>1/2/3</u> |
| * 104                     | El Paso County Water Control & Improvement District No. 1 | do                         | 1955           | 60                 | 26             | 60         | Qal Rg             | 3,683                         | 21.72<br>22.87                | Aug. 15, 1956<br>Sept. 6, 1973  | N              | N            | Abandoned. Test hole. Plugged back from 740 ft to 60 ft. <u>1/</u>  |
| 105                       | U.S. Bureau of Reclamation                                | U.S. Bureau of Reclamation | 1952           | 32                 | 2              | --         | Qal Rg             | 3,686                         | 21.51<br>30.10                | June 27, 1956<br>Dec. 1976      | N              | N            | Observation well.   |
| 106                       | City of El Paso   | Wheeler Cass               | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,700                         | 27.19<br>27.62                | Mar. 21, 1968<br>July 18, 1968  | N              | N            | Destroyed. Historical observation well. <u>1/</u>   |
| 107                       | do  | do                         | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,700                         | 22.10<br>21.77                | Apr. 10, 1968<br>June 19, 1969  | N              | N            | Destroyed. Historical observation well. <u>1/3</u>  |
| * 108                     | do  | do                         | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,678                         | 7.45<br>7.37                  | May 2, 1968<br>Dec. 9, 1976     | N              | N            | Slotted from 20-50 ft. Observation well. <u>3</u>   |
| 109                       | F.F.A. Farm   | --                         | --             | 80                 | 12             | --         | Qal Rg             | 3,689                         | 7.92<br>18.50                 | Mar. 9, 1953<br>Dec. 4, 1957    | T, Ng          | Irr          | Yield 875 gpm. <u>4</u>   |
| 110                       | Mike Navarro  | --                         | --             | 191                | --             | --         | Qtal 6             | 3,750                         | 106.3<br>107.7                | July 26, 1956<br>Nov. 19, 1957  | N              | N            | Abandoned.  |
| 111                       | Mayfield, Devoto and Herron                               | --                         | --             | 60                 | 18             | --         | Qal Rg             | 3,684                         | --                            | --                              | N              | N            | Destroyed. <u>4</u>   |
| * 112                     | V. C. and M. C. Randel                                    | --                         | --             | 115                | 18             | --         | Qal Rg             | 3,688                         | --                            | --                              | T, Ng          | Irr          | <u>4</u>  |
| 113                       | Don C. Thomas   | --                         | --             | 300                | 12             | --         | Qal Rg/<br>Qtal 6  | 3,683                         | 18.39<br>17.30                | Nov. 19, 1956<br>Dec. 4, 1957   | N              | N            | Destroyed. Yield 1,400 gpm. Temp. 65°F. <u>4</u>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|---|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |   |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |   |                            |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| * JL-49-22-114            | Don C. Thomas   | --                         | --             | 300                | 16             | --         | Qal Rg/<br>Qtal 6  | 3,682                         | 20.74                         | July 26, 1956                  | N              | N            | Destroyed. Yield 1,643 gpm. Temp. 65°F. <u>4</u>  |
| 115                       | N. G. Nabhan  | --                         | 1951           | 80                 | 8              | 80         | Qal Rg             | 3,683                         | --                            | --                             | --             | Irr          | Estimated yield 200 gpm. Temp. 65°F. <u>4</u>   |
| * 116                     | Janet Protzman  | --                         | --             | 151                | 20             | --         | Qal Rg             | 3,684                         | --                            | --                             | T, Ng          | Irr          | Reported yield 1,693 gpm. Temp. 67°F. <u>4</u>  |
| 117                       | Sidney M. Metzger   | Payne & Ballard            | 1951           | 158                | 18             | 158        | Qal Rg             | 3,680                         | 18.76<br>19.05                | June 21, 1956<br>Jan. 16, 1976 | T, Ng          | Irr          | Abandoned. Flugged back from 181 ft to 158 ft. Pump set at 103 ft. Reported yield 1,800 gpm. Historical observation well. <u>1 2 3 4</u>  |
| * 118                     | Pleasant Valley   | --                         | --             | 100                | 18             | --         | Qal Rg             | 3,680                         | 21.49                         | June 21, 1956                  | T, G           | Irr          | Destroyed. Reported yield 1,122 gpm. <u>4</u>   |
| 119                       | George Rendell  | --                         | --             | 60                 | 6              | --         | Qal Rg             | 3,675                         | --                            | --                             | N              | N            | Destroyed. Reported yield 900 gpm. <u>4</u>   |
| 120                       | J. T. Cuyres  | --                         | --             | 128                | 16             | --         | Qal Rg             | 3,675                         | 18.16                         | June 22, 1956                  | T, G           | Irr          | Pump set at 75 ft. Yield 1,395 gpm. <u>4</u>  |
| 121                       | U.S. Bureau of Reclamation                                | U.S. Bureau of Reclamation | 1952           | 26                 | 2              | --         | Qal Rg             | 3,676                         | 10.2<br>15.00                 | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.   |
| * 122                     | City of El Paso Well 73                                   | City of El Paso            | 1971           | 360                | 24<br>16       | 180<br>360 | Qtal 6             | 3,682                         | 25.00<br>25.21                | Nov. 15, 1971<br>Nov. 30, 1976 | T, E           | P            | Slotted from 200-360 ft. Gravel packed. Pump set at 160 ft. Estimated yield 700 gpm. Observation well. <u>2 3</u>   |
| 123                       | E. D. Porcher   | --                         | --             | --                 | --             | --         | Qal Rg             | 3,683                         | 21.45                         | Sept. 6, 1973                  | T, Ng          | Irr          | <u>4</u>  |
| 124                       | City of El Paso   | City of El Paso            | 1975           | 460                | 20             | 302        | Qtal 6             | 3,675                         | --                            | --                             | T, E           | P            | Screened from 339-460 ft. Drawdown 61 ft after 24 hours pumping 700 gpm on Feb. 29, 1975. <u>2</u>  |
| * 201                     | do  | Layne-Texas Company        | 1947           | 219                | 14<br>8-5/8    | 81<br>219  | Qtal 6             | 3,720                         | 52.00<br>35.31                | June 5, 1947<br>Jan. 14, 1976  | T, E           | P            | Screen from 86-210 ft. Plugged back from 600 ft to 219 ft. Gravel packed. Pump set at 150 ft. Performance test: Drawdown of 26 ft pumping 243 gpm. Observation well. <u>1 2 3</u> |
| 203                       | do  | Wheeler Cass               | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,670                         | 10.86<br>12.33                | Apr. 10, 1968<br>June 27, 1972 | N              | N            | Slotted from 30-50 ft. Gravel packed. Observation well. <u>1 2</u>  |
| 204                       | -- Franco   | --                         | --             | 60                 | --             | --         | Qal Rg             | 3,670                         | --                            | --                             | N              | N            | Destroyed.  |
| * 205                     | J. M. Escobar   | Meyers Pump Company        | 1954           | 87                 | 16             | --         | Qal Rg             | 3,670                         | 14.2<br>10.7                  | July 16, 1956<br>Oct. 11, 1973 | T, G           | Irr          | Reported yield 112 gpm. <u>4</u>  |
| * 206                     | El Paso County Water Control & Improvement District No. 1 | Layne-Texas Company        | 1955           | 1,511              | 26             | 220        | --                 | 3,725                         | --                            | --                             | N              | N            | Abandoned. Test hole. <u>1 2</u>  |
| * 207                     | James Hay   | --                         | 1957           | --                 | --             | --         | Qal Rg             | 3,669                         | 10.09                         | Oct. 11, 1973                  | T, Ng          | Irr          | <u>4</u>  |
| 210                       | U.S. Bureau of Reclamation                                | U.S. Bureau of Reclamation | 1952           | 25                 | 2              | --         | Qal Rg             | 3,674                         | 10.7<br>13.30                 | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.   |
| 211                       | T. W. Shaughnessy   | --                         | --             | 100                | 18             | --         | Qal Rg             | 3,677                         | 13.43                         | Oct. 11, 1973                  | T, Ng          | Irr          | Pump set at 80 ft. <u>4</u>   |
| 212                       | Mrs. Frankie Smith  | --                         | --             | 150                | 6              | 150        | Qal Rg             | 3,670                         | --                            | --                             | N              | N            | Not used. <u>4</u>  |
| 213                       | Foster Schwartz Golf Resort Development Company Well 3    | Layne-Texas Company        | 1973           | 450                | 20<br>12-3/4   | 300<br>450 | Qtal 6             | 3,930                         | --                            | --                             | T, E           | Irr          | Slotted from 330-440 ft. Gravel packed. Pump set at 300 ft. Reported yield 285 gpm. <u>2</u>  |
| 214                       | N. C. Floyd   | --                         | --             | --                 | 12             | --         | Qal Rg             | 3,677                         | 12.71                         | Oct. 11, 1973                  | T, G           | Irr          | Gravel packed.  |
| 301                       | Horizon Land Corporation                                  | --                         | --             | 578                | --             | --         | --                 | 3,910                         | --                            | --                             | N              | N            | Test hole. <u>2</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                       | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|---|-------------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |   |                               |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |   |                               |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-22-302              | Casa Manana Estates   | K. C. Wheeler                 | 1963           | 280                | 12             | 100        | Qtal 6             | 3,780                         | --                            | --                             | S, E           | P            | Screened from 100-280 ft. Pump set at 160 ft. Reported yield 140 gpm. <i>y</i>   |
| * 401                     | City of El Paso   | Layne-Texas Company           | 1957           | 103                | 18             | 103        | Qal Rg             | 3,671                         | 9.72<br>7.93                  | Dec. 3, 1957<br>Jan. 16, 1977  | N              | N            | Not used. Test hole drilled to 1,499 feet. Abandoned for public use: insufficient supply. Slotted from 30-103 ft. Plugged back from 1,499 ft to 103 ft. Reported yield 700 gpm. Observation well. <i>y y y y</i> |
| " 402                     | Yeleta Independent School District                              | --                            | --             | 98                 | 16             | --         | Qal Rg             | 3,672                         | 10.65<br>5.97                 | July 13, 1956<br>May 10, 1977  | T, Ng          | Irr          | Yield 1,558 gpm on Apr. 15, 1955. Temp. 66°F. Observation well. <i>y y</i>   |
| * 403                     | Playa Company, Inc.   | --                            | 1948           | 100                | 16             | --         | Qal Rg             | 3,672                         | --                            | --                             | N              | N            | Destroyed. Reported yield 1,344 gpm on May 4, 1951. <i>y</i>   |
| * 404                     | do  | --                            | --             | 90                 | 16             | --         | Qal Rg             | 3,673                         | --                            | --                             | N              | N            | Not used. Capped with metal plate. Reported yield 1,814 gpm on Apr. 3, 1951. <i>y</i>  |
| * 405                     | Winford Kushing   | --                            | --             | 90                 | 16             | --         | Qal Rg             | 3,673                         | 16.58                         | Mar. 8, 1974                   | T, Ng          | Irr          | Reported yield 1,800 gpm on Mar. 14, 1956. <i>y</i>  |
| 406                       | F. C. Alderete  | --                            | --             | 150                | 16             | --         | Qal Rg             | 3,669                         | 12.29<br>8.00                 | Nov. 16, 1956<br>Sept. 5, 1973 | T, G           | Irr          | Reported yield 1,575 gpm on Mar. 20, 1956. Temp. 66°F. <i>y</i>  |
| * 407                     | Texas Department of Water Resources--U.S. Bureau of Reclamation | Texas Water Development Board | 1977           | 510                | --             | --         | Qal Rg/<br>Qtal 6  | 3,674                         | --                            | --                             | N              | N            | Test hole. <i>y y</i>  |
| * 501                     | City of El Paso   | Wheeler Cass                  | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,670                         | 8.94<br>8.83                  | Apr. 10, 1968<br>Dec. 15, 1976 | N              | N            | Slotted from 20-50 ft. Gravel packed. Observation well. <i>y</i>   |
| * 502                     | do  | do                            | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,665                         | 10.12<br>10.14                | May 2, 1968<br>Mar. 23, 1973   | N              | N            | Destroyed. Slotted from 20-50 ft. Gravel packed. Observation well. <i>y y</i>  |
| 503                       | J. T. Guynes  | --                            | --             | 155                | 18             | --         | Qal Rg             | 3,666                         | 12.72<br>12.15                | Mar. 9, 1953<br>Jan. 12, 1954  | T, G           | Irr          | Reported yield 1,769 gpm on Apr. 9, 1955. <i>y</i>   |
| 504                       | H. V. Chaney  | Brown & Ledford               | 1954           | 60                 | 6              | 60         | Qal Rg             | 3,670                         | --                            | --                             | Cf, G          | --           | Perforated from 30-60 ft. Yield 252 gpm on Apr. 29, 1955. <i>y</i>   |
| 505                       | Associated Investment   | --                            | --             | 112                | 16             | --         | Qal Rg             | 3,675                         | 17.80<br>11.70                | July 16, 1956<br>Nov. 9, 1973  | T, E           | N            | Not used. <i>y</i>   |
| * 506                     | Construction Control  | --                            | --             | 128                | 18             | --         | Qal Rg             | 3,677                         | 22.5<br>12.30                 | July 16, 1956<br>Oct. 5, 1973  | T, Ng          | Irr          | Pump set at 75 ft. Yield 500 gpm. Temp. 68°F on July 12, 1972. <i>y</i>  |
| 507                       | F. W. Cooper  | --                            | --             | 110                | 16             | --         | Qal Rg             | 3,675                         | 21.38<br>11.54                | July 16, 1956<br>Oct. 5, 1973  | T, Ng          | Irr          | Pump set at 76 ft. <i>y</i>  |
| 508                       | Charlie Jensen  | --                            | --             | 60                 | 6              | --         | Qal Rg             | 3,675                         | --                            | --                             | N              | N            | Not used. <i>y</i>   |
| * 509                     | K. J. Rabe  | --                            | 1955           | 67                 | 16             | --         | Qal Rg             | 3,670                         | 18.15<br>11.25                | June 13, 1956<br>Oct. 5, 1973  | T, G           | Irr          | Not used. Pump set at 62 ft. Yield 459 gpm on Apr. 29, 1955. <i>y</i>  |
| 510                       | M. J. Oechamer  | --                            | --             | --                 | 10             | --         | Qal Rg             | 3,670                         | 10.43                         | do                             | T              | Irr          | Yield 384 gpm on Apr. 11, 1955. <i>y</i>   |
| 511                       | Mrs. D. P. Luthor   | --                            | --             | 115                | 18             | 115        | Qal Rg             | 3,764                         | 11.35                         | do                             | T, Ng          | Irr          | Gravel packed. <i>y</i>  |
| " 512                     | Texalon Corporation   | --                            | 1950           | 160                | 16             | 160        | Qal Rg             | 3,671                         | 16.10<br>10.29                | Nov. 16, 1956<br>Mar. 13, 1974 | N              | N            | Not used. Perforated from 20-160 ft. Pump set at 65 ft. <i>y</i>   |
| 513                       | Home Mortgage Company   | --                            | --             | 124                | 16             | --         | Qal Rg             | 3,671                         | 18.03<br>8.70                 | Nov. 16, 1956<br>Oct. 10, 1973 | T, G           | Irr          | Pump set at 80 ft. Yield 900 gpm on Mar. 15, 1955. <i>y</i>  |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                          | Driller                | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|--------------------------------|------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                                |                        |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                                |                        |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| * JL-49-22-514            | J. D. Abrams, Inc.             | Payne & Ballard        | 1951           | 138                | 16             | 138        | Qal Rg             | 3,670                         | 16.81<br>8.32                 | Nov. 16, 1956<br>Oct. 10, 1973 | T, G           | Irr          | Perforated from 40-138 ft. Pump set at 70 ft. Yield 1,343 gpm. <i>4/</i>                           |
| 515                       | George B. Spence               | --                     | --             | 147                | 18             | --         | Qal Rg             | 3,670                         | 16.29<br>7.39                 | Nov. 16, 1956<br>Jan. 6, 1977  | T, G           | Irr          | Pump set at 135 ft. Yield 1,589 gpm on June 4, 1951. Observation well. <i>3/ 4/</i>                |
| 516                       | Valley Development Corporation | --                     | --             | 139                | 18             | --         | Qal Rg             | 3,670                         | 6.00                          | Oct. 9, 1973                   | T, G           | Irr          | Pump set at 70 ft. <i>4/</i>   |
| 517                       | Louie Burros                   | --                     | --             | 96                 | 16             | 96         | Qal Rg             | 3,665                         | 3.70                          | Oct. 10, 1973                  | T, G           | Irr          | Slotted from 45-96 ft. Pump set at 70 ft.  |
| 518                       | Valley Development Corporation | --                     | --             | 105                | 20             | --         | Qal Rg             | 3,673                         | 19.61<br>8.47                 | June 19, 1956<br>Oct. 9, 1973  | T, G           | Irr          | Pump set at 80 ft. <i>4/</i>   |
| 519                       | Emma Schreck                   | --                     | --             | 125                | 20             | --         | Qal Rg             | 3,670                         | --                            | --                             | N              | N            | Destroyed. Pump set at 92 ft. Yield was 1,775 gpm. <i>4/</i>                                       |
| 520                       | H. & H. Company, Ltd.          | --                     | --             | 118                | 18             | --         | Qal Rg             | 3,670                         | 10.42                         | Oct. 5, 1973                   | T, Ng          | Irr          | Gravel packed. Pump set at 80 ft. Yield 1,010 gpm. <i>4/</i>                                       |
| 521                       | George and Edna Kurita         | --                     | --             | 68                 | --             | --         | Qal Rg             | 3,673                         | --                            | --                             | N              | N            | Destroyed. <i>4/</i>   |
| * 522                     | A. and C. Mulbert              | --                     | --             | 90                 | 16             | 98         | Qal Rg             | 3,673                         | 11.01                         | Oct. 5, 1973                   | T, Ng          | Irr          | Slotted from 70-90 ft. Pump set at 80 ft. Yield 1,100 gpm on Apr. 20, 1955. Temp. 68°F. <i>4/</i>  |
| 523                       | Featherlite Corporation        | --                     | --             | 121                | 18             | --         | Qal Rg             | 3,670                         | --                            | --                             | N              | N            | Not used. <i>4/</i>  |
| 524                       | Glen English                   | --                     | 1951           | 95                 | 12             | --         | Qal Rg             | 3,669                         | 15.38                         | July 13, 1956                  | N              | N            | Destroyed. Pump set at 70 ft. Yield 646 gpm on June 26, 1951. <i>4/</i>                            |
| 525                       | V. L. Wilson                   | --                     | 1953           | --                 | 12             | --         | Qal Rg             | 3,669                         | --                            | --                             | T, C           | Irr          | <i>4/</i>  |
| 526                       | K. B. Ivey Well 2              | --                     | --             | 87                 | 20             | --         | Qal Rg             | 3,668                         | 23.27<br>7.44                 | July 13, 1956<br>Oct. 9, 1973  | T, Ng          | Irr          | Gravel packed. Pump set at 65 ft. Reported yield 674 gpm on Mar. 14, 1955. <i>4/</i>               |
| 527                       | K. B. Ivey Well 3              | --                     | --             | 156                | 18             | --         | Qal Rg             | 3,668                         | 18.90<br>17.10                | Nov. 16, 1956<br>Nov. 29, 1957 | T, Ng          | Irr          | Gravel packed. Pump set at 120 ft. Reported yield 1,625 gpm on Apr. 29, 1956. <i>4/</i>            |
| * 528                     | Louise C. Bagge                | --                     | --             | 120                | 16             | --         | Qal Rg             | 3,665                         | 7.13                          | Oct. 9, 1973                   | T, G           | Irr          | Gravel packed. Pump set at 100 ft. <i>4/</i>   |
| 529                       | E. E. Jennings and A. Bogardos | Jimmie Carr            | 1954           | 86                 | 16             | --         | Qal Rg             | 3,666                         | 9.71                          | do                             | T, Ng          | Irr          | Gravel packed. Pump set at 60 ft. <i>4/</i>  |
| * 530                     | R. R. Apodaca                  | --                     | 1954           | 93                 | 16             | 93         | Qal Rg             | 3,670                         | 22.25<br>11.40                | July 13, 1956<br>Oct. 5, 1973  | N              | N            | Not used. Capped. Gravel packed. Pump set at 85 ft. Yield 1,032 gpm on Apr. 29, 1955. <i>4/</i>    |
| 531                       | A. J. Apodaca                  | --                     | --             | 117                | 16             | 117        | Qal Rg             | 3,670                         | 22.24<br>7.94                 | July 13, 1956<br>Jan. 6, 1977  | T, Ng          | Irr          | Gravel packed. Pump set at 70 ft. Observation well. <i>3/ 4/</i>                                   |
| 532                       | May Yanagidate                 | --                     | --             | 62                 | 3              | 62         | Qal Rg             | 3,670                         | --                            | --                             | Cl, G          | N            | Not used. Gravel packed. <i>4/</i>   |
| 533                       | Marie Ivey Investment Company  | Mesa Equipment Company | 1954           | 60                 | 16             | 60         | Qal Rg             | 3,668                         | 8.52                          | Oct. 9, 1973                   | N              | N            | Not used. Gravel packed. Capped with metal plate. Pump set at 40 ft. <i>4/</i>                     |
| 534                       | Mt. Garmel Cemetery            | --                     | --             | 95                 | 16             | 95         | Qal Rg             | 3,670                         | 23.60<br>14.40                | July 13, 1956<br>Nov. 9, 1973  | T, Ng          | Irr          | Gravel packed. Pump set at 85 ft. Reported yield 1,125 gpm on Mar. 20, 1956. <i>4/</i>             |
| 535                       | do                             | --                     | --             | 126                | 16             | 126        | Qal Rg             | 3,669                         | 18.85<br>12.30                | Nov. 16, 1956<br>Oct. 9, 1973  | T, G           | Irr          | Gravel packed. Yield 1,350 gpm on Mar. 22, 1955. <i>4/</i>   |
| 536                       | Hosmer W. Hill Estate          | --                     | --             | 96                 | 16             | 96         | Qal Rg             | 3,668                         | 25.45<br>10.21                | July 11, 1956<br>Jan. 6, 1977  | T, G           | Irr          | Gravel packed. Pump set at 70 ft. Yield 1,215 gpm on Apr. 25, 1955. Observation well. <i>3/ 4/</i> |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner  | Driller                  | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|--|--------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |  |                          |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |  |                          |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| JL-49-22-537              | Industry West-Joint Venture                            | --                       | 1952           | 96                 | 18             | 96         | Qal Rg             | 3,666                         | 13.75<br>7.28                 | Feb. 13, 1952<br>Oct. 9, 1973  | V, Ng          | Irr          | Gravel packed. Pump set at 78 ft. Yield 1,541 gpm on Feb. 13, 1952. Performance test: Drawdown of 55 ft pumping 1,600 gpm. <i>4</i> |
| 538                       | Ambrosio Trujillo Estate                               | --                       | --             | 84                 | 14             | 84         | Qal Rg             | 3,669                         | --                            | --                             | V, Ng          | Irr          | Perforated from 64-84 ft. Gravel packed. Pump set at 70 ft. <i>4</i>  |
| 539                       | M. Grijalva, Sr. Estate                                | Meyers Pump Company      | 1953           | 92                 | 16             | 92         | Qal Rg             | 3,667                         | 24.80<br>9.20                 | July 11, 1956<br>Oct. 9, 1973  | V, G           | Irr          | Gravel packed. Pump set at 70 ft. Yield 1,292 gpm on Apr. 29, 1955. <i>4</i>  |
| 540                       | C. B. Lawrence   | --                       | --             | 75                 | 16             | 75         | Qal Rg             | 3,665                         | 11.66                         | Oct. 5, 1973                   | T, Ng          | Irr          | Gravel packed. Pump set at 70 ft. <i>4</i>  |
| * 541                     | El Paso Skeet Club, Inc.                               | --                       | --             | 100                | 16             | 100        | Qal Rg             | 3,665                         | 11.77                         | do                             | T, G           | Irr          | Gravel packed. Pump set at 80 ft. Yield 990 gpm on Aug. 24, 1972. Temp. 67°F. <i>4</i>  |
| 542                       | Richard Hakim  | --                       | --             | --                 | 16             | --         | Qal Rg             | 3,665                         | 11.82                         | Nov. 9, 1973                   | N              | N            | Not used. <i>4</i>  |
| 543                       | Phil Stadler, Jr.                                      | Wheeler Cass             | 1954           | 130                | 16             | 130        | Qal Rg             | 3,664                         | --                            | --                             | T, Ng          | Irr          | Perforated from 40-130 ft. Gravel packed. Pump set at 90 ft. Yield 1,544 gpm on Apr. 20, 1955. <i>4</i>                             |
| 544                       | -- Woods   | --                       | --             | 33                 | 12             | --         | Qal Rg             | 3,674                         | 14.27                         | July 16, 1956                  | N              | N            | Destroyed.  |
| * 545                     | Industry West-Joint Venture                            | -- Greenwood             | 1953           | 137                | 20             | 137        | Qal Rg             | 3,667                         | 13.93<br>24.40                | Mar. 10, 1953<br>Dec. 3, 1957  | T, G           | Irr          | Gravel packed. Pump set at 70 ft. Yield 1,643 gpm on Apr. 21, 1955. <i>4</i>  |
| 546                       | Amilio Elenez  | --                       | --             | --                 | 4              | --         | Qal Rg             | 3,675                         | --                            | --                             | Gf, G          | N            | Not used. <i>4</i>  |
| 547                       | A. Dominguez, Jr.                                      | --                       | --             | --                 | 10             | --         | Qal Rg             | 3,675                         | --                            | --                             | N              | N            | Do.   |
| 548                       | Catholic Diocese of El Paso                            | --                       | --             | 100                | --             | --         | Qal Rg             | 3,670                         | 13.14                         | Nov. 9, 1973                   | T, Ng          | Irr          | <i>4</i>  |
| 549                       | Ken Roshing  | Cecil Ballard            | 1972           | 131                | 16             | 131        | Qal Rg             | 3,669                         | 10.60                         | Oct. 5, 1973                   | T, G           | Irr          | Slotted from 50-130 ft. Gravel packed. Pump set at 90 ft. <i>4</i>  |
| 550                       | J. C. Goodman  | -- Schieffer             | 1962           | 87                 | 18             | 87         | Qal Rg             | 3,673                         | --                            | --                             | V, E           | Irr          | Slotted from 67-87 ft. Gravel packed.   |
| 551                       | U. B. McEndarfer                                       | Aqua Drilling Company    | 1972           | 75                 | 12-1/2         | 75         | Qal Rg             | 3,670                         | 9.00                          | Aug. 20, 1972                  | T, E           | Irr          | Slotted from 37-74 ft. Pump set at 50 ft. Performance test: Drawdown of 0 ft pumping 60 gpm. <i>4</i>                               |
| 552                       | Gabina Treviño   | --                       | --             | 90                 | 16             | 90         | Qal Rg             | 3,665                         | --                            | --                             | T, C           | Irr          | Pump set at 70 ft. <i>4</i>   |
| * 553                     | Texas Department of Highways and Public Transportation | Texas Highway Department | 1970           | 50                 | 6              | 50         | Qal Rg             | 3,673                         | --                            | --                             | Sub, E         | Irr          | Slotted from 30-50 ft. Pump set at 40 ft.   |
| * 601                     | City of El Paso  | Wheeler Cass             | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,665                         | 9.25<br>9.47                  | May 2, 1968<br>Dec. 15, 1976   | N              | N            | Slotted from 20-50 ft. Observation well. <i>4</i>   |
| 602                       | Marie Ivey Investment Company                          | --                       | --             | 126                | 20             | 126        | Qal 6              | 3,667                         | 17.95<br>17.40                | Nov. 16, 1956<br>Nov. 29, 1957 | T, C           | Irr          | Gravel packed. Pump set at 100 ft. Yield 1,795 gpm on June 4, 1951. <i>4</i>  |
| 603                       | Louis Burrus   | --                       | --             | 120                | 18             | 120        | Qal Rg             | 3,662                         | 4.17                          | Oct. 10, 1973                  | T, Ng          | Irr          | Slotted from 45-120 ft. Gravel packed. Pump set at 100 ft. Yield 1,347 gpm on Mar. 14, 1955. <i>4</i>                               |
| 604                       | R. P. Trujillo   | --                       | --             | 113                | 16             | 113        | Qal Rg             | 3,660                         | 8.08                          | do                             | T, Ng          | Irr          | Gravel packed. Pump set at 107 ft. Yield 953 gpm. <i>4</i>  |
| 605                       | Manuela Vasquez, et al.                                | --                       | 1953           | 110                | 16             | 110        | Qal Rg             | 3,660                         | 22.08<br>7.63                 | July 13, 1956<br>Oct. 10, 1973 | T, Ng          | Irr          | Gravel packed. Pump set at 105 ft. <i>4</i>   |
| * 606                     | F. M. Bagge  | --                       | --             | 70                 | 6              | 70         | Qal Rg             | 3,660                         | --                            | --                             | N              | N            | Abandoned. <i>4</i>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                      | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|----------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                            |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                            |                            |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-22-607              | J. S. Samples              | Cecil Ballard              | 1955           | 100                | 10             | 100        | Qal Rg             | 3,660                         | --                            | --                             | T, G           | Irr          | Perforated from 60-100 ft. Gravel packed. Yield 1,188 gpm on Oct. 13, 1955.                              |
| 608                       | Hilario Diaz               | --                         | 1953           | 90                 | 16             | 90         | Qal Rg             | 3,660                         | 18.33<br>17.20                | Nov. 16, 1956<br>Nov. 29, 1957 | N              | N            | Not used. Pump set at 75 ft. <u>4</u>  |
| 609                       | Eleanor Coldwell Estate    | --                         | --             | 60                 | 16             | 60         | Qal Rg             | 3,660                         | 16.69<br>14.20                | Nov. 16, 1956<br>Nov. 29, 1957 | T, G           | Irr          | Gravel packed. Pump set at 55 ft. <u>4</u>   |
| 610                       | Eligio Grijalva, Jr.       | --                         | --             | 90                 | 16             | 90         | Qal Rg             | 3,660                         | 20.34                         | July 2, 1956                   | T, Ng          | Irr          | Gravel packed. Pump set at 76 ft. <u>4</u>   |
| 611                       | Jesus S. Lira              | --                         | --             | 100                | 16             | 100        | Qal Rg             | 3,660                         | 19.30<br>8.78                 | do<br>Oct. 10, 1973            | T, Ng          | Irr          | Gravel packed. Pump set at 70 ft. <u>4</u>   |
| 612                       | Eleanor Coldwell Estate    | --                         | --             | 150                | 18             | 150        | Qal Rg             | 3,656                         | 17.51<br>6.36                 | Nov. 16, 1956<br>Jan. 16, 1977 | N              | N            | Gravel packed. Pump set at 115 ft. Yield 1,904 gpm on Aug. 14, 1951. Observation well. <u>3</u> <u>4</u> |
| * 613                     | Ben Ivey                   | Morrison Drilling Company  | 1958           | 312                | 16             | 312        | Qtal 6             | 3,750                         | 109<br>108.55                 | Feb. 5, 1960<br>Oct. 11, 1973  | T              | Irr, Ind     | Not used. Perforated from 150-312 ft. Gravel packed.   |
| 614                       | Rudy Grijalva              | --                         | --             | 146                | 18             | --         | Qal Rg             | 3,659                         | 11.75<br>10.05                | Mar. 10, 1953<br>Oct. 10, 1973 | T              | Irr          | Pump set at 90 ft. Temp. 66°F. <u>4</u>  |
| 615                       | Louis Burrus Well 2        | --                         | --             | 96                 | 16             | 96         | Qal Rg             | 3,660                         | 7.73                          | Oct. 10, 1973                  | T, G           | Irr          | Screen from 45-96 ft. <u>4</u>   |
| * 616                     | Horizon Land Corporation   | K. C. Wheeler              | --             | 220                | --             | --         | Qtal 6             | 3,750                         | 100                           | --                             | N              | N            | Not used. Capped. Reported yield 1,500 gpm. Performance test: Drawdown of 60 ft pumping 1,000 gpm.       |
| * 617                     | do                         | do                         | 1969           | --                 | --             | --         | --                 | 3,740                         | --                            | --                             | N              | N            | Test hole.   |
| 618                       | do                         | do                         | --             | --                 | --             | --         | Qtal 6             | 3,730                         | --                            | --                             | T, E           | F            | Gravel packed. Reported yield 600 gpm.   |
| * 803                     | City of El Paso            | Wheeler Cass               | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,664                         | 7.08<br>6.78                  | May 2, 1968<br>May 10, 1977    | N              | N            | Slotted from 20-50 ft. Gravel packed. Observation well. <u>1</u> <u>3</u>                                |
| 805                       | U.S. Bureau of Reclamation | U.S. Bureau of Reclamation | 1952           | 26                 | 2              | --         | Qal Rg             | 3,659                         | 9.0<br>8.5                    | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.  |
| 806                       | City of El Paso            | --                         | --             | 90                 | 14             | --         | Qal Rg             | 3,663                         | 15.6<br>10.2                  | July 11, 1956<br>Dec. 4, 1957  | N              | E            | Abandoned. Pump set at 85 ft. Yield 1,059 gpm on June 22, 1951. <u>4</u>                                 |
| 807                       | J. H. Winn                 | --                         | --             | 135                | 18             | --         | Qal Rg             | 3,664                         | 16.06<br>8.32                 | Nov. 19, 1956<br>July 25, 1973 | N              | N            | Not used. Capped with steel plate. Pump set at 100 ft. Yield 1,687 gpm on June 21, 1951. <u>4</u>        |
| 808                       | City of El Paso            | --                         | --             | 127                | 18             | --         | Qal Rg             | 3,664                         | 13.67<br>8.30                 | Nov. 19, 1956<br>Dec. 4, 1957  | N              | E            | Not used. Pump set at 100 ft. Yield 2,439 gpm on Apr. 28, 1955. <u>4</u>                                 |
| * 809                     | do                         | --                         | --             | 85                 | 16             | --         | Qal Rg             | 3,664                         | 14.79<br>7.02                 | Nov. 16, 1956<br>Jan. 6, 1977  | N              | N            | Not used. Capped. Yield 1,350 gpm on Mar. 24, 1955. Temp. 66°F. Observation well. <u>3</u> <u>4</u>      |
| 810                       | do                         | --                         | --             | 80                 | 16             | --         | Qal Rg             | 3,664                         | 14.36<br>11.10                | Nov. 16, 1956<br>Nov. 4, 1957  | N              | N            | Abandoned. <u>4</u>  |
| 811                       | Juan Armendariz            | --                         | --             | 92                 | 14             | --         | Qal Rg             | 3,660                         | --                            | --                             | T, Ng          | Irr          | Pump set at 70 ft. Yield 1,224 gpm on Apr. 29, 1955. <u>4</u>  |
| 812                       | Gilbert Sanchez            | Bill Mize                  | 1954           | 84                 | 16             | 83         | Qal Rg             | 3,660                         | 19.23<br>13.82                | July 11, 1956<br>Mar. 12, 1974 | T, Ng          | Irr          | Pump set at 70 ft. <u>1</u> <u>4</u>   |
| 813                       | E. K. Newcomer             | --                         | --             | 75                 | 6              | --         | Qal Rg             | 3,661                         | --                            | --                             | N              | N            | Abandoned. Pump set at 20 ft. Yield 673 gpm on July 6, 1951.   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller             | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|---|---------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |   |                     |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |   |                     |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| JL-49-22-814              | O. M. Slaps, C. R. Willey, and D. J. Stadler              | --                  | --             | 100                | 16             | --         | Qal Rg             | 3,664                         | 20.42<br>7.70                 | July 5, 1956<br>July 26, 1973  | N              | N            | Abandoned. <i>4j</i>  |
| 816                       | O. M. Slaps   | --                  | --             | 124                | 16             | --         | Qal Rg             | 3,664                         | 18.34<br>9.06                 | Nov. 11, 1956<br>Nov. 26, 1973 | N              | N            | Not used. Pump set at 80 ft. Yield 1,540 gpm on May 15, 1951. <i>4j</i>                     |
| 817                       | City of El Paso   | --                  | --             | 100                | 16             | --         | Qal Rg             | 3,663                         | --                            | --                             | N              | N            | Abandoned. <i>4j</i>  |
| * 818                     | El Paso County Water Control & Improvement District No. 1 | Layne-Texas Company | 1957           | 1,517              | 8              | --         | --                 | 3,662                         | --                            | --                             | N              | N            | Not used. Abandoned test hole. <i>1j 2j</i>   |
| 819                       | M. C. Lettunich and Tony Apodaca                          | --                  | --             | 84                 | 9              | --         | Qal Rg             | 3,660                         | 25.82                         | July 11, 1956                  | N              | N            | Abandoned. Pump set at 70 ft. Yield 522 gpm on Apr. 29, 1955. <i>4j</i>                     |
| 820                       | S. J. Ashley  | --                  | --             | 80                 | 16             | --         | Qal Rg             | 3,660                         | --                            | --                             | N              | N            | Not used. Temp. 66°F on June 28, 1955. <i>4j</i>  |
| 821                       | Harlan O'Leary and William Muscovie                       | Fayne & Ballard     | 1954           | 115                | --             | --         | Qal Rg             | 3,660                         | 16.25                         | July 10, 1956                  | N              | N            | Not used. Capped with metal plate. <i>4j</i>  |
| * 822                     | Nacenciano Chavez   | --                  | --             | 102                | 16             | --         | Qal Rg             | 3,660                         | 21.91<br>9.80                 | July 20, 1956<br>July 26, 1973 | T, Wg          | Irr          | Pump set at 75 ft. Temp. 66°F on Sept. 3, 1956. <i>4j</i>                                   |
| 823                       | Vidal Presquez  | Fayne & Ballard     | --             | 92                 | 16             | --         | Qal Rg             | 3,662                         | 8.22                          | July 11, 1956                  | N              | N            | Abandoned. <i>4j</i>  |
| 824                       | do  | do                  | 1956           | 94                 | 18             | 90         | Qal Rg             | 3,662                         | 15.59<br>8.53                 | July 20, 1956<br>July 26, 1973 | T, G           | Irr          | Slotted from 48-90 ft. <i>1j 4j</i>   |
| * 825                     | City of El Paso   | --                  | --             | 74                 | 14             | --         | Qal Rg             | 3,660                         | 14.39<br>8.45                 | Nov. 19, 1956<br>July 26, 1973 | N              | N            | Not used. Capped with metal plate. <i>4j</i>  |
| * 826                     | Douglas Soper   | Fayne & Ballard     | 1956           | 83                 | 16             | --         | Qal Rg             | 3,660                         | 13.12<br>8.62                 | Nov. 19, 1956<br>July 26, 1973 | N              | N            | Abandoned. Historical observation well. <i>3j 4j</i>  |
| 827                       | City of El Paso   | --                  | --             | 87                 | 14             | --         | Qal Rg             | 3,662                         | --                            | --                             | N              | N            | Not used. Pump set at 40 ft. Yield 860 gpm on Apr. 15, 1955. <i>4j</i>                      |
| 828                       | do  | Jimmy Carr          | 1953           | 70                 | 14             | --         | Qal Rg             | 3,663                         | 8.65                          | July 26, 1973                  | N              | N            | Not used. Capped. <i>4j</i>   |
| * 829                     | W. D. Surratt   | --                  | --             | 72                 | 16             | --         | Qal Rg             | 3,659                         | --                            | --                             | T, G           | N            | Not used. Pump set at 60 ft. Temp. 66°F on Apr. 19, 1955. <i>4j</i>                         |
| * 830                     | City of El Paso   | Will Mize           | 1954           | 100                | 18             | 100        | Qal Rg             | 3,661                         | 26.48                         | July 9, 1956                   | N              | N            | Abandoned. Slotted from 20-100 ft. Yield 1,373 gpm on July 13, 1955. <i>4j</i>              |
| 831                       | do  | --                  | --             | 97                 | 14             | --         | Qal Rg             | 3,660                         | --                            | --                             | T, G           | Irr          | Pump set at 96 ft. Yield 1,760 gpm on Apr. 19, 1955. Temp. 67°F. <i>4j</i>                  |
| 832                       | do  | Rayford Guffy       | 1954           | 108                | 18             | --         | Qal Rg             | 3,658                         | 7.03                          | July 25, 1973                  | N              | N            | Not used. Capped with metal plate. Temp. 66°F on May 31, 1955. <i>4j</i>                    |
| 833                       | do  | -- Bills            | 1953           | 90                 | 16             | --         | Qal Rg             | 3,660                         | --                            | --                             | N              | N            | Not used. Capped with metal plate. Yield 1,111 gpm on Mar. 24, 1955.                        |
| 834                       | do  | --                  | --             | 72                 | 18             | --         | Qal Rg             | 3,658                         | 23.62<br>6.80                 | July 6, 1956<br>Jan. 6, 1977   | N              | N            | Not used. Pump set at 62 ft. Yield 721 gpm on Apr. 24, 1955. Observation well. <i>3j 4j</i> |
| 835                       | Leandro Jayso   | --                  | --             | --                 | 8              | --         | Qal Rg             | 3,658                         | 23.90                         | July 6, 1956                   | Cf, E          | Irr          | --  |
| 836                       | City of El Paso   | -- Greenwood        | 1950           | 84                 | 20             | --         | Qal Rg             | 3,658                         | 19.20<br>14.50                | do<br>Nov. 19, 1957            | N              | N            | Destroyed. Pump set at 70 ft. Yield 2,330 gpm on Mar. 25, 1955. Temp. 66°F. <i>4j</i>       |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller   | Date completed | Depth of well (ft) | Casing         |            |                    | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|---|---|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |   |   |                |                    | Diameter (in.) | Depth (ft) | Water bearing unit |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |   |   |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| # JL-49-22-837            | El Paso County Water Improvement District No. 1                 | Wheeler Cass  | 1972           | 403                | --             | --         | --                 | 3,660                         | --                            | --                             | N              | N            | Test hole. <u>1/2</u>   |
| 838                       | Simona Sanchez  | Ted Gardea  | 1956           | 62                 | 16             | 60         | Qal Rg             | 3,660                         | --                            | --                             | T, G           | Irr          | Slotted from 40-62 ft. Pump set at 60 ft. Reported yield 1,200 gpm. <u>4</u>                              |
| * 839                     | Texas Department of Water Resources--U.S. Bureau of Reclamation | Texas Department of Water Resources--U.S. Bureau of Reclamation | 1977           | 261                | --             | --         | Qtal 6             | 3,668                         | --                            | --                             | N              | N            | Test hole. <u>1/2</u>   |
| * 840                     | do  | do  | 1977           | 420                | --             | --         | Qtal 6             | 3,666                         | --                            | --                             | N              | N            | Do.   |
| 901                       | J. S. Samples   | George McKenzie   | 1951           | 125                | 18             | --         | Qtal 6             | 3,660                         | 19.54                         | July 5, 1956                   | T, Ng          | Irr          | Pump set at 90 ft. Yield 1,147 gpm on May 31, 1951. <u>4</u>  |
| 902                       | U.S. Bureau of Reclamation                                      | U.S. Bureau of Reclamation                                      | 1952           | 29                 | 2              | --         | Qal Rg             | 3,655                         | 8.0<br>7.2                    | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.   |
| 903                       | F. A. Reedy   | --  | --             | 96                 | 18             | --         | Qal Rg             | 3,659                         | --                            | --                             | T, Ng          | Irr          | Pump set at 75 ft. Temp. 66°F on Apr. 5, 1955. <u>4</u>   |
| 904                       | H. D. Hilley  | Basube & Rube   | 1952           | 130                | 18             | --         | Qal Rg             | 3,657                         | 24.96                         | July 6, 1956                   | N              | N            | Not used. <u>4</u>  |
| 905                       | D. P. Magee   | --  | --             | 70                 | 16             | --         | Qal Rg             | 3,657                         | 7.8                           | Aug. 6, 1973                   | T, Ng          | Irr          | Pump set at 60 ft. Temp. 66°F on June 30, 1955. <u>4</u>  |
| 906                       | Mrs. D. S. Carlson  | --  | --             | 117                | 16             | 117        | Qal Rg             | 3,656                         | 20.0<br>7.40                  | July 3, 1956<br>Aug. 6, 1973   | T, G           | Irr          | Slotted from 30-117 ft. Pump set at 80 ft. <u>4</u>   |
| * 907                     | Texas Experimental Farm   | Wheeler Cass  | 1952           | 111                | 16             | 111        | Qal Rg             | 3,652                         | 22.58<br>6.03                 | July 3, 1956<br>July 27, 1973  | T, Ng          | Irr          | Slotted from 61-111 ft. Pump set at 90 ft. Reported yield 1,615 gpm on Apr. 4, 1955. Temp. 65°F. <u>4</u> |
| * 908                     | R. C. Sparks Estate   | Morrison Drilling Company                                       | 1951           | 145                | 18             | --         | Qal Rg             | 3,654                         | 7.30                          | do                             | N              | N            | Not used. Pump set at 90 ft. Yield 1,611 gpm on Apr. 21, 1955. Temp. 66°F. <u>4</u>                       |
| 909                       | Louie Burrus  | --  | --             | 80                 | 10             | --         | Qal Rg             | 3,649                         | 14.00<br>7.02                 | July 2, 1956<br>Jan. 8, 1977   | N              | N            | Not used. Observation well. <u>3/4</u>  |
| 910                       | Francis Elise   | -- Miner  | 1955           | 60                 | 14             | 60         | Qal Rg             | 3,651                         | 15.01<br>7.25                 | July 2, 1956<br>Mar. 8, 1974   | T, Ng          | Irr          | Pump set at 40 ft. <u>4</u>   |
| * 911                     | R. C. Sparks Estate   | Morrison Drilling Company                                       | 1951           | 138                | 16             | --         | Qal Rg             | 3,650                         | 13.95<br>16.1                 | July 2, 1956<br>Dec. 2, 1957   | N              | N            | Destroyed. Pump set at 80 ft. Yield 1,337 gpm on Apr. 21, 1955. <u>4</u>                                  |
| 912                       | Columbus P. Brown   | --  | --             | 104                | 16             | --         | Qal Rg             | 3,654                         | --                            | --                             | N              | N            | Not used. Capped with metal plate. Temp. 66°F on June 4, 1955. <u>4</u>                                   |
| 913                       | R. R. Deigado   | --  | --             | --                 | 18             | --         | Qal Rg             | 3,654                         | 22.86<br>9.10                 | July 20, 1956<br>July 27, 1973 | N              | N            | Not used. Capped with metal plate. Temp. 66°F on Apr. 29, 1955. <u>4</u>                                  |
| * 914                     | Mcontrias Farms, Inc.   | Rayford Goffy   | 1954           | 113                | 16             | --         | Qal Rg             | 3,655                         | 19.44<br>9.29                 | July 5, 1956<br>July 27, 1973  | T, Ng          | Irr          | Pump set at 90 ft. Reported estimated yield 1,000 gpm. Temp. 67°F on Aug. 6, 1956. <u>4</u>               |
| 915                       | J. W. McAllister Estate   | Payne & Ballard   | 1955           | 100                | 18             | --         | Qal Rg             | 3,657                         | 24.94                         | July 10, 1956                  | T, Ng          | Irr          | Pump set at 70 ft.  |
| 916                       | do  | Wheeler Cass  | 1953           | 131                | 20             | --         | Qal Rg             | 3,657                         | 26.85<br>6.97                 | do<br>July 27, 1973            | T, Ng          | Irr          | Pump set at 90 ft. Yield 1,278 gpm on Apr. 21, 1955. <u>4</u>   |
| 917                       | E. P. Trujillo  | Mesa Quedman  | 1953           | 68                 | 16             | --         | Qal Rg             | 3,650                         | 25.86<br>11.00                | June 29, 1956<br>Aug. 6, 1973  | T, Ng          | Irr          | Pump set at 50 ft. Yield 1,210 gpm on Mar. 30, 1955. Temp. 66°F. <u>4</u>                                 |
| * 918                     | J. V. McAdoo  | --  | 1953           | 90                 | 16             | --         | Qal Rg             | 3,650                         | 20.27<br>8.80                 | June 29, 1956<br>Aug. 6, 1973  | T, Ng          | Irr          | Pump set at 70 ft. <u>4</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                                      | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|--|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |  |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |  |                           |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| JL-49-22-919              | Robert V. Adams                            | --                        | --             | 68                 | 16             | --         | Qal Rg             | 3,650                         | 26.66<br>10.98                | July 20, 1956<br>Aug. 6, 1973  | T, C           | Irr          | Pump set at 50 ft. Yield 1,224 gpm on Apr. 21, 1955. Temp. 66°F. <i>4/</i>                                  |
| 920                       | Concepcion Trujillo                        | --                        | --             | 95                 | 16             | --         | Qal Rg             | 3,656                         | 8.20                          | July 27, 1973                  | T, C           | Irr          | Pump set at 70 ft. Yield 1,449 gpm on Apr. 21, 1955. Temp. 65°F. <i>4/</i>                                  |
| 921                       | H. T. Shioja                               | Morrison Drilling Company | 1951           | 134                | 18             | 134        | Qal Rg             | 3,654                         | 22.89                         | July 10, 1956                  | T, G           | Irr          | Slotted from 40-134 ft. Pump set at 115 ft. Yield 1,625 gpm on Apr. 29, 1955. <i>4/</i>                     |
| 922                       | H. L. and H. J. Pederson, and B. H. Cramer | --                        | 1953           | 85                 | 16             | 85         | Qal Rg             | 3,654                         | 20.53<br>9.91                 | Nov. 15, 1956<br>Jun. 6, 1977  | T, C           | Irr          | Pump set at 70 ft. Yield 1,089 gpm on Apr. 21, 1956. Temp. 66°F. Observation well. <i>3/4/</i>              |
| 923                       | D. S. Strachan                             | --                        | --             | 73                 | 16             | --         | Qal Rg             | 3,653                         | 7.9                           | Aug. 7, 1973                   | T, Ng          | Irr          | Pump set at 60 ft. <i>4/</i>  |
| 924                       | Columbus P. Brown                          | --                        | --             | 108                | 16             | --         | Qal Rg             | 3,649                         | 24.30<br>17.20                | July 3, 1956<br>Nov. 19, 1957  | N              | N            | Destroyed. <i>4/</i>  |
| * 925                     | J. P. Mayfield Well 3                      | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,650                         | 8.70                          | Aug. 6, 1973                   | T, Ng          | Irr          | Temp. 66°F on Sept. 4, 1956. <i>4/</i>  |
| 926                       | Pedro G. Grijalva                          | Payne & Ballard           | 1955           | 110                | 16             | 110        | Qal Rg             | 3,653                         | --                            | --                             | T, Ng          | Irr          | Slotted from 40-110 ft. Pump set at 70 ft. Reported yield 900 gpm.  |
| 927                       | Columbus P. Brown                          | Morrison Drilling Company | 1950           | 129                | 18             | --         | Qal Rg             | 3,653                         | 13.10<br>22.20                | Mar. 10, 1953<br>Nov. 19, 1957 | T, Ng          | Irr          | Pump set at 90 ft. Yield 1,144 gpm on June 13, 1951. Temp. 66°F on June 17, 1955. <i>4/</i>                 |
| 928                       | John Sales                                 | --                        | --             | 130                | 16             | --         | Qal Rg             | 3,651                         | 25.56<br>9.08                 | June 29, 1956<br>Aug. 7, 1973  | T, Ng          | Irr          | Pump set at 80 ft. Yield 1,067 gpm on Apr. 21, 1955. <i>4/</i>  |
| * 929                     | J. P. Burgess                              | Mesa Quedman              | 1954           | 127                | 18             | --         | Qal Rg             | 3,655                         | 21.05<br>8.61                 | July 2, 1956<br>Aug. 6, 1973   | T, Ng          | Irr          | Pump set at 90 ft. Yield 1,122 gpm on Apr. 16, 1955. Temp. 66°F on July 30, 1956. <i>4/</i>                 |
| ** 930                    | Lyman Bagge                                | -- Tilley                 | 1956           | 126                | 16             | 126        | Qal Rg             | 3,652                         | 23.16<br>9.17                 | Nov. 14, 1956<br>Aug. 7, 1971  | N              | N            | Not used. Slotted from 50-126 ft. Reported yield 800 gpm.   |
| 931                       | Louise Bagge                               | -- Scoggins               | 1951           | 126                | 18             | 126        | Qal Rg             | 3,650                         | 20.43<br>5.13                 | Nov. 15, 1956<br>Aug. 6, 1973  | T, Ng          | Irr          | Slotted from 18-126 ft. Pump set at 90 ft. Reported yield 1,000 gpm. Temp. 66°F on June 25, 1955. <i>4/</i> |
| 932                       | Horlan O'Leary and William Muscovfe        | --                        | 1951           | 75                 | 16             | --         | Qal Rg             | 3,650                         | 18.78<br>9.47                 | July 5, 1956<br>July 12, 1973  | T, Ng          | Irr          | Pump set at 60 ft. <i>4/</i>  |
| * 933                     | H. E. Campbell                             | George McKenzie           | 1951           | 72                 | 16             | --         | Qal Rg             | 3,657                         | 25.70                         | July 9, 1956                   | T, G           | Irr          | Pump set at 71 ft. Yield 1,093 gpm. <i>1/4/</i>   |
| 934                       | Myrtle C. Hilley                           | Meyers Pump Company       | 1954           | 72                 | 16             | 72         | Qal Rg             | 3,650                         | 16.35<br>7.60                 | July 10, 1956<br>July 26, 1973 | T, Ng          | Irr          | Slotted from 40-72 ft. Yield 1,606 gpm on Mar. 17, 1955. <i>4/</i>  |
| 935                       | H. H. Hilley                               | Payne & Ballard           | 1954           | 86                 | 16             | --         | Qal Rg             | 3,650                         | 16.60                         | July 5, 1956                   | T, C           | Irr          | Pump set at 60 ft. <i>4/</i>  |
| 936                       | Mrs. Grace H. Bill                         | --                        | --             | 73                 | 8              | --         | Qal Rg             | 3,648                         | 19.47<br>8.60                 | July 3, 1956<br>July 24, 1973  | T, G           | Irr          | Pump set at 11 ft. <i>4/</i>  |
| 937                       | S. D. Roberts, Jr., et al.                 | --                        | --             | 78                 | 16             | --         | Qal Rg             | 3,650                         | 21.19<br>10.60                | Nov. 15, 1956<br>Jan. 6, 1977  | T, Ng          | Irr          | Pump set at 68 ft. Yield 882 gpm on Apr. 21, 1956. Observation well. <i>3/4/</i>                            |
| 938                       | Western Valley Land (c/o H. Jones)         | --                        | --             | 140                | 18             | --         | Qal Rg             | 3,655                         | 16.54<br>6.09                 | July 9, 1956<br>July 26, 1973  | T              | N            | Not used. Pump set at 80 ft. <i>4/</i>  |
| * 939                     | Jack Stallings                             | Cole Drilling             | 1974           | 100                | --             | --         | Qal Rg             | 3,650                         | --                            | --                             | T, C           | --           | Test hole. To be plugged back from 500 to 100 ft and completed. <i>1/</i>                                   |
| 940                       | H. H. Hilley                               | Equipment Supply Company  | 1952           | 90                 | 18             | --         | Qal Rg             | 3,655                         | 19.78<br>6.44                 | July 10, 1956<br>July 27, 1973 | T, C           | Irr          | Pump set at 75 ft. <i>4/</i>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                                    | Driller                         | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|--|---------------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |  |                                 |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |  |                                 |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| JL-49-22-941              | --                                       | --                              | --             | --                 | 16             | --         | Qal Rg             | 3,654                         | 12.80                         | Mar. 8, 1973                   | T, G           | Irr          | --  |
| 942                       | Columbus P. Brown                        | Cecil Ballard                   | 1972           | 109                | 16             | 109        | Qal Rg             | 3,650                         | 12.00                         | July 3, 1972                   | T, G           | Irr          | Slotted from 64-109 ft. <u>1</u>  |
| 943                       | Ramon Ortega                             | --                              | --             | 90                 | 16             | 90         | Qal Rg             | 3,655                         | 8.00                          | Mar. 8, 1974                   | N              | N            | Not used. Capped with metal plate. <u>4</u>   |
| 944                       | G. D. Gipsun                             | Ted Gardea                      | 1970           | 45                 | 8              | 45         | Qal Rg             | 3,650                         | 4.00                          | Sept. 10, 1970                 | W              | Irr          | Perforated from 38-45 ft. <u>1</u>  |
| 945                       | Mirala Portillo and Manuel Flores        | --                              | --             | --                 | 16             | --         | Qal Rg             | 3,656                         | --                            | --                             | T, G           | Irr          | <u>4</u>  |
| * 23-201                  | R. C. Sparks Estate                      | J. H. Hatch                     | 1944           | 440                | 6              | 440        | Qtal 6             | 4,026                         | 356.92<br>357.82              | Apr. 29, 1952<br>Sept. 6, 1956 | C, W           | S            | Destroyed.  |
| * 501                     | do                                       | J. T. Hatch                     | 1944           | 500                | 6              | --         | Qtal 6             | 4,021                         | 370.64                        | Feb. 6, 1954                   | N              | N            | Do.   |
| * 502                     | Horizon Land Corporation                 | --                              | 1962           | 560                | --             | --         | --                 | 4,029                         | --                            | --                             | N              | N            | Destroyed. Test hole. <u>2</u>  |
| 503                       | do                                       | Layne-Texas Company             | 1960           | 983                | --             | --         | --                 | 4,030                         | --                            | --                             | N              | N            | Not used. Test hole. <u>1</u> <u>2</u>  |
| * 504                     | do                                       | K. C. Wheeler                   | 1958           | 530                | 14             | 530        | Qtal 6             | 4,016                         | --                            | --                             | T, E           | P            | Slotted from 470-530 ft. Gravel packed. Pump set at 500 ft. Reported yield 180 gpm. <u>2</u>  |
| * 505                     | do                                       | --                              | 1961           | 558                | --             | --         | Qtal 6             | 4,029                         | --                            | --                             | N              | N            | Destroyed. <u>2</u>   |
| * 506                     | do                                       | K. C. Wheeler                   | 1961           | 495                | 12             | 495        | Qtal 6             | 4,015                         | --                            | --                             | T, E           | P            | Slotted from 445-495 ft. Gravel packed. Reported yield 230 gpm. <u>2</u>  |
| * 507                     | do                                       | do                              | 1965           | 520                | 12             | 520        | Qtal 6             | 4,027                         | --                            | --                             | Sub, E         | Ind          | Slotted from 470-520 ft. Gravel packed. Pump set at 480 ft. Reported yield 130 gpm. <u>2</u>  |
| 508                       | do                                       | --                              | 1961           | 628                | --             | --         | --                 | 4,023                         | --                            | --                             | N              | N            | Not used. Test hole. <u>2</u>   |
| * 509                     | do                                       | --                              | 1962           | 615                | --             | --         | --                 | 4,028                         | --                            | --                             | N              | N            | Do.   |
| * 601                     | U.S. Geological Survey                   | B & W Drilling Company of Texas | 1953           | 1,100              | --             | --         | --                 | 4,048                         | 397.2                         | Aug. 1, 1953                   | N              | N            | Plugged. Test hole. Gravel packed. <u>1</u> <u>2</u>  |
| 602                       | Horizon Land Corporation                 | --                              | 1961           | 560                | --             | --         | --                 | 4,025                         | --                            | --                             | N              | N            | Not used. Test hole. <u>2</u>   |
| * 701                     | City of El Paso                          | Wheeler Cass                    | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,648                         | 8.44<br>9.54                  | June 7, 1968<br>Oct. 27, 1971  | N              | N            | Destroyed. Historical observation well. <u>1</u> <u>2</u>   |
| * 702                     | Union "76" Service Station               | Bullard & Tillary               | 1959           | 235                | 14             | 235        | Qtal 6             | 3,770                         | 120.90<br>124.59              | Sept. 2, 1960<br>Nov. 20, 1973 | N              | N            | Not used. Gravel packed. Insufficient water. Historical observation well. <u>2</u>  |
| 703                       | Edward L. and E. Lester Millican, et al. | --                              | 1950           | 56                 | 18             | --         | Qal Rg             | 3,646                         | 11.8<br>6.72                  | June 29, 1956<br>Aug. 7, 1973  | T, N           | Irr          | Pump set at 54 ft. Reported yield 1,100 gpm. <u>4</u>   |
| * 704                     | Columbus P. Brown                        | --                              | 1954           | 50                 | 18             | 50         | Qal Rg             | 3,648                         | 14.24<br>8.67                 | Nov. 14, 1956<br>Jan. 17, 1976 | T, G           | Irr          | Perforated from 18-50 ft. Pump set at 50 ft. Reported yield 700 gpm. Temp. 65°F on Sept. 5, 1956. Observation well. <u>3</u> <u>4</u> |
| 705                       | L. S. Christenson                        | Meyers Pump Company             | 1954           | 63                 | 16             | --         | Qal Rg             | 3,645                         | 16.29<br>8.54                 | July 2, 1956<br>Aug. 7, 1973   | T, G           | Irr          | Pump set at 53 ft. Reported yield 700 gpm. <u>4</u>   |
| 706                       | Howard C. Jackson                        | Joe Bradford                    | 1973           | 212                | 6              | 212        | Qtal 6             | 3,800                         | 140.0                         | June 1, 1973                   | Sub, E         | P            | Slotted from 162-212 ft. Gravel packed. Pump set at 180 ft. <u>1</u>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                       | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks   |
|---------------------------|---|-------------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|---|
|                           |   |                               |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |   |
| El Paso County--Continued |   |                               |                |                    |                |            |                    |                               |                               |                               |                |              |   |
| JL-49-23-707              | Texas Department of Water Resources--U.S. Bureau of Reclamation | Texas Water Development Board | 1976           | 607                | --             | --         | Qtal 6             | 3,650                         | --                            | --                            | N              | N            | Test hole. Caved in at 607 ft and abandoned. 1/2  |
| * 801                     | R. C. Sparks Estate   | J. R. Hatch                   | 1946           | 500                | 6              | 500        | Qtal 6             | 4,010                         | 370.6<br>373.81               | Apr. 29, 1952<br>Feb. 3, 1954 | N              | N            | Destroyed.  |
| 901                       | Lane's Dairy  | Joe Bradford                  | 1971           | 540                | 12-3/4         | 540        | Qtal 6             | 4,012                         | 430                           | --                            | Sub, E         | Ind          | Slotted from 415-540 ft. Gravel packed. Pump set at 505 ft. Reported yield 20 gpm. 1/         |
| * 902                     | do  | Wheeler Cass                  | 1970           | 560                | 8              | 560        | Qtal 6             | 4,012                         | --                            | --                            | N              | N            | Not used (sanded up). Slotted from 400-560 ft. Gravel packed. Originally pumped 150 gpm.      |
| * 24-401                  | R. C. Sparks Estate   | --                            | 1880           | 460                | 5              | 400        | Qtal 6             | 4,015                         | 362                           | 1935                          | C, W           | D            | Reported yield 12 gpm.  |
| 402                       | Horizon Land Corporation Well 2-37                              | Layne-Texas Company           | 1960           | 1,189              | --             | --         | --                 | 4,018                         | 340                           | Apr. 1960                     | N              | N            | Not used. Test hole. Reported yield 25 gpm. 1/2   |
| 403                       | Horizon Land Corporation Well 2-37                              | --                            | 1961           | 600+               | --             | --         | --                 | 4,016                         | --                            | --                            | N              | N            | Not used. Test hole. Reported yield 10 gpm.   |
| 404                       | Horizon Land Corporation Well 3-37                              | Layne-Texas Company           | 1973           | 652                | --             | --         | Qtal 6             | 4,016                         | --                            | --                            | --             | P            | 2/  |
| * 405                     | Horizon Land Corporation Well 1-36                              | --                            | --             | 515                | --             | --         | Qtal 6             | 4,018                         | --                            | --                            | E              | --           | Gravel packed. 2/   |
| * 406                     | Horizon Land Corporation Well 2-36                              | --                            | --             | 521                | --             | --         | Qtal 6             | 4,022                         | --                            | --                            | --             | --           | 2/  |
| * 407                     | Horizon Land Corporation Well 3-36                              | --                            | 1961           | 605                | --             | --         | Qtal 6             | 4,023                         | --                            | --                            | N              | N            | Destroyed. 2/   |
| * 408                     | Horizon Land Corporation Well 4-36                              | --                            | 1961           | 535                | 12             | 530        | Qtal 6             | 4,020                         | --                            | --                            | T, E           | P            | Reported yield 143 gpm. 2/  |
| * 409                     | Horizon Land Corporation Well 5-36                              | --                            | 1961           | 590                | --             | --         | --                 | 4,016                         | --                            | --                            | N              | N            | Test hole. 2/   |
| * 410                     | Horizon Land Corporation Well 6-36                              | --                            | 1961           | 550                | 12             | 550        | Qtal 6             | 4,018                         | --                            | --                            | T, E           | P            | Reported yield 160 gpm. 2/  |
| * 411                     | Horizon Land Corporation Well 7-36                              | K. C. Wheeler                 | 1968           | 500                | --             | --         | Qtal 6             | 4,017                         | --                            | --                            | Sub, E         | P            | Plugged back from 520 ft to 500 ft. Reported yield 80 gpm. 1/                                 |
| * 412                     | Horizon Land Corporation Well 8-36                              | --                            | 1968           | 574                | --             | --         | --                 | 4,027                         | --                            | --                            | N              | N            | Test hole. 2/   |
| 413                       | Horizon Land Corporation Well 9-36                              | K. C. Wheeler                 | 1968           | 605                | --             | --         | Qtal 6             | 4,033                         | --                            | --                            | N              | N            | Not used. Capped. 2/  |
| 414                       | Horizon Land Corporation Well 10-36                             | do                            | 1969           | 592                | --             | --         | --                 | 4,035                         | --                            | --                            | N              | N            | Test hole. 2/   |
| 415                       | Horizon Land Corporation Well 11-36                             | do                            | --             | 595                | 36<br>12       | 30<br>595  | Qtal 6             | 4,035                         | 392                           | May 5, 1969                   | --             | P            | Slotted from 400-595 ft. Gravel packed. Performance test: Drawdown of 203 ft pumping 157 gpm. |
| 416                       | Horizon Land Corporation Well 12-36                             | Layne-Texas Company           | 1973           | 652                | --             | --         | Qtal 6             | 4,037                         | --                            | --                            | --             | --           | 2/  |
| 417                       | Horizon Land Corporation Well 1-25                              | do                            | 1973           | 652                | --             | --         | --                 | 4,037                         | --                            | --                            | --             | --           | Test hole. 2/   |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                       | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|---|-------------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |   |                               |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |   |                               |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| * JL-49-24-601            | R. C. Sparks Estate   | J. T. Hatch                   | 1946           | 500                | 6              | 440        | Qtal 6             | 4,082                         | --                            | --                             | N              | N            | Destroyed.   |
| 602                       | Horizon Land Corporation Well 2-37                              | K. C. Wheeler                 | 1962           | 673                | --             | --         | --                 | 4,050                         | --                            | --                             | N              | N            | Test hole. <u>2</u>  |
| * 603                     | Horizon Land Corporation Well 3-37                              | --                            | --             | --                 | --             | --         | Qtal 6             | 4,048                         | --                            | --                             | --             | --           | --   |
| * 801                     | Lane's Dairy  | --                            | 1946           | 497                | 6              | --         | Qtal 6             | 4,052                         | 464<br>431.2                  | Feb. 8, 1954<br>Sept. 4, 1956  | C, W           | N            | Not used. Reported yield 6 gpm.  |
| 802                       | do  | Joè Bradford                  | 1972           | 560                | 12-3/4         | 560        | Qtal 6             | 4,052                         | 355                           | July 1, 1972                   | Sub, E         | S            | Slotted from 400-560 ft. Gravel packed. Pump set at 500 ft. Reported yield 5 gpm. <u>1</u>   |
| 803                       | do  | Wheeler Cass                  | 1969           | 550                | 8              | 550        | Qtal 6             | 4,055                         | --                            | --                             | N              | N            | Not used. Slotted from 400-550 ft. Gravel packed.  |
| * 30-201                  | Ruth K. Brennard  | --                            | --             | 86                 | 16             | --         | Qal Rg             | 3,656                         | 12.55<br>12.20                | July 7, 1956<br>Dec. 3, 1957   | T, G           | Irr          | Pump set at 80 ft. <u>4</u>  |
| * 202                     | do  | --                            | --             | 156                | 18             | --         | Qal Rg             | 3,651                         | 17.53<br>8.09                 | Nov. 14, 1956<br>May 10, 1977  | T              | Irr          | Pump set at 130 ft. Reported yield 1,389 gpm on Mar. 24, 1955. Temp. 65°F. Observation well. <u>3</u> <u>4</u>   |
| * 203                     | Lawrence Dindinger  | --                            | --             | 80                 | 16             | --         | Qal Rg             | 3,648                         | 15.65<br>8.08                 | July 6, 1956<br>July 29, 1975  | T              | Irr          | Pump set at 69 ft. Reported yield 1,372 gpm on Apr. 19, 1955. Observation well. <u>3</u> <u>4</u>  |
| 204                       | Roth K. Brennard  | --                            | --             | 80                 | 18             | --         | Qal Rg             | 3,649                         | 16.05<br>6.62                 | July 6, 1956<br>July 23, 1973  | T, Ng          | Irr          | Gravel packed. Pump set at 69 ft. Reported yield 1,460 gpm on Apr. 29, 1955. <u>4</u>  |
| * 205                     | F. R. Culberson Well 1  | Cecil Ballard                 | --             | 120                | 18             | 120        | Qal Rg             | 3,648                         | --                            | --                             | N              | N            | Abandoned. Perforated from 40-120 ft. Reported yield was 1,500 gpm.  |
| * 206                     | F. R. Culberson Well 2  | do                            | 1958           | 80                 | 18             | 80         | Qal Rg             | 3,648                         | 6.7<br>8.17                   | July 23, 1973<br>Oct. 17, 1973 | T, G           | Irr          | Slotted from 40-80 ft. Gravel packed. Pump set at 70 ft. Reported yield 1,500 gpm. <u>4</u>  |
| * 207                     | Texas Department of Water Resources--U.S. Bureau of Reclamation | Texas Water Development Board | 1974           | 200                | 3              | 200        | --                 | 3,651                         | 14.64<br>14.29                | July 23, 1974<br>May 10, 1977  | N              | N            | Slotted from 43-64, 117-137, 150-170, and 180-200 ft. Gravel packed. Drilled to 668 ft and plugged back to 210 ft. Cement plug from 200-210 ft. Observation well. <u>2</u> |
| 302                       | U.S. Bureau of Reclamation                                      | U.S. Bureau of Reclamation    | 1952           | 27                 | 2              | --         | Qal Rg             | 3,645                         | 8.1<br>6.8                    | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.  |
| * 303                     | City of El Paso   | Wheeler Cass                  | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,637                         | 7.37<br>6.64                  | June 7, 1968<br>May 10, 1977   | N              | N            | Slotted from 20-50 ft. Observation well. <u>1</u> <u>3</u>   |
| * 304                     | Lundy-Thagard Oil Company                                       | --                            | --             | --                 | --             | --         | Qal Rg             | 3,646                         | 18.11<br>8.32                 | July 3, 1956<br>July 26, 1973  | T, G           | Irr          | <u>4</u>   |
| 305                       | J. R. Weaver, et al.  | --                            | --             | --                 | --             | --         | Qal Rg             | 3,646                         | 18.05                         | July 3, 1956                   | T, G           | Irr          | Reported yield 1,275 gpm on Apr. 28, 1955. <u>4</u>  |
| 306                       | Western Land Corporation  | Payne & Ballard               | 1953           | 75                 | 16             | --         | Qal Rg             | 3,647                         | 24.28                         | do                             | T, G           | Irr          | Pump set at 65 ft. Reported yield 1,615 gpm on Apr. 26, 1955. <u>4</u>   |
| * 307                     | Jerry Rogers, Inc.  | --                            | --             | 83                 | 18             | --         | Qal Rg             | 3,650                         | 16.90                         | July 6, 1956                   | T, G           | Irr          | Yield 1,295 gpm on Apr. 29, 1955. Temp. 67°F on Aug. 7, 1956. <u>4</u>   |
| * 308                     | A. Davila   | --                            | --             | 81                 | 18             | --         | Qal Rg             | 3,655                         | 25.01                         | July 20, 1956                  | T, G           | Irr          | Pump set at 70 ft. Reported yield 1,322 gpm on Mar. 25, 1955. Temp. 66°F. <u>4</u>   |
| 309                       | Jack Stallings  | --                            | --             | 99                 | 18             | --         | Qal Rg             | 3,655                         | --                            | --                             | N              | N            | Destroyed. Pump set at 80 ft. Reported yield 1,629 gpm on Mar. 15, 1955. <u>4</u>  |
| * 310                     | Bertha Dindinger  | --                            | --             | 74                 | 16             | --         | Qal Rg             | 3,652                         | 16.90<br>5.30                 | July 6, 1956<br>July 23, 1973  | T, G           | Irr          | Pump set at 64 ft. Reported yield 1,341 gpm on June 21, 1955. <u>4</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                               | Driller | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|-------------------------------------|---------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                                     |         |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                                     |         |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-30-311              | American Finance & Investment, Inc. | --      | --             | --                 | 18             | --         | Qal Rg             | 3,652                         | 14.60<br>8.79                 | July 6, 1956<br>Jan. 17, 1976  | T, C           | Irr          | Observation well. <i>3/4</i>   |
| 312                       | J. L. Diotla                        | --      | --             | 90                 | 20             | --         | Qal Rg             | 3,645                         | 13.65<br>17.40                | Nov. 14, 1956<br>Dec. 2, 1957  | T, G           | Irr          | Gravel packed. Pump set at 60 ft. Reported yield 1,670 gpm on Apr. 6, 1955. Temp. 65°F. <i>4/</i>                    |
| 313                       | A. Borrego                          | --      | --             | 80                 | 16             | --         | Qal Rg             | 3,645                         | 14.15<br>8.68                 | July 6, 1956<br>July 24, 1973  | T, Ng          | Irr          | Gravel packed. Pump set at 68 ft. <i>4/</i>  |
| * 314                     | A. J. Guerra                        | --      | 1954           | 74                 | 16             | --         | Qal Rg             | 3,647                         | 16.28<br>5.99                 | July 6, 1956<br>July 23, 1973  | T, Ng          | Irr          | Gravel packed. Pump set at 65 ft. <i>4/</i>  |
| 315                       | A. E. Janke, Sr.                    | --      | --             | 80                 | 16             | --         | Qal Rg             | 3,647                         | 5.46                          | do                             | T, Ng          | Irr          | Gravel packed. Pump set at 75 ft. Reported yield 1,115 gpm. Temp. 66°F on Apr. 28, 1955. <i>4/</i>                   |
| 316                       | Tomas Telles Estate                 | --      | --             | 75                 | 18             | --         | Qal Rg             | 3,645                         | 18.68<br>7.60                 | June 25, 1956<br>Oct. 17, 1973 | T              | N            | Not used. Gravel packed. Pump set at 60 ft. Reported yield 1,098 gpm on Apr. 15, 1955. <i>4/</i>                     |
| * 317                     | Sabina B. Guerra                    | --      | --             | 80                 | 18             | --         | Qal Rg             | 3,645                         | 14.87<br>8.20                 | June 25, 1956<br>July 24, 1973 | T, G           | Irr          | Gravel packed. Pump set at 74 ft. Reported yield 1,463 gpm on Apr. 4, 1955. <i>4/</i>                                |
| 318                       | Antonio Estrada                     | --      | --             | 102                | 16             | --         | Qal Rg             | 3,645                         | 15.71<br>7.08                 | Nov. 14, 1956<br>July 23, 1973 | T, G           | Irr          | Gravel packed. Pump set at 80 ft. Temp. 66°F on Apr. 15, 1955. <i>4/</i>   |
| * 319                     | Antonio Avila                       | --      | --             | 78                 | 14             | --         | Qal Rg             | 3,647                         | 14.79<br>8.04                 | July 6, 1956<br>July 23, 1973  | T, G           | Irr          | Gravel packed. Pump set at 68 ft. Temp. 66°F on Sept. 7, 1956. <i>4/</i>   |
| 320                       | Mrs. Virginia Arriagucci            | --      | --             | 86                 | 16             | --         | Qal Rg             | 3,644                         | 13.16<br>7.80                 | June 29, 1956<br>July 24, 1973 | N              | N            | Destroyed. Gravel packed. Pump set at 67 ft. Reported yield 950 gpm on Apr. 28, 1955. <i>4/</i>                      |
| * 321                     | D. Hernandez                        | --      | --             | 79                 | 16             | --         | Qal Rg             | 3,641                         | 13.15<br>6.03                 | June 22, 1956<br>Jan. 11, 1977 | T, G           | Irr          | Pump set at 50 ft. Observation well. <i>3/4</i>  |
| * 322                     | Juan Villalobos                     | --      | --             | 86                 | 16             | --         | Qal Rg             | 3,639                         | 14.33<br>10.20                | June 22, 1956<br>Dec. 2, 1957  | T              | Irr          | Not used. Gravel packed. Pump set at 60 ft. Temp. 64°F on Sept. 4, 1956. <i>4/</i>                                   |
| 323                       | El Paso Electric Company            | --      | --             | 75                 | 16             | --         | Qal Rg             | 3,661                         | 14.85<br>12.10                | June 22, 1956<br>Dec. 2, 1957  | T, Ng          | Irr          | Gravel packed. Pump set at 50 ft. <i>4/</i>  |
| 324                       | G.B.S. Gil & Sons, Inc.             | --      | --             | 54                 | 16             | --         | Qal Rg             | 3,641                         | 11.90<br>6.69                 | June 22, 1956<br>July 25, 1973 | T, Ng          | Irr          | Do.  |
| * 325                     | Ralph's Farms, Inc.                 | --      | --             | 70                 | 14             | --         | Qal Rg             | 3,640                         | 19.23<br>7.95                 | June 25, 1956<br>July 23, 1973 | T, Ng          | Irr          | Pump set at 60 ft. Reported yield 1,035 gpm on Apr. 12, 1955. <i>4/</i>  |
| * 326                     | do                                  | --      | --             | --                 | 16             | --         | Qal Rg             | 3,640                         | 14.97<br>6.59                 | Nov. 14, 1956<br>May 10, 1977  | T, G           | Irr          | Reported yield 2,389 gpm on Apr. 19, 1955. Observation well. <i>3/4</i>  |
| * 327                     | do                                  | --      | --             | 147                | 18             | --         | Qal Rg             | 3,638                         | 14.00                         | Nov. 19, 1956                  | T, G           | Irr          | Pump set at 100 ft. Reported yield 1,949 gpm on Mar. 24, 1955. <i>4/</i>   |
| * 328                     | do                                  | --      | --             | 168                | 18             | --         | Qal Rg             | 3,637                         | 13.5<br>14.0                  | do<br>Dec. 4, 1957             | T, C           | Irr          | Pump set at 100 ft. Reported yield 972 gpm on Mar. 24, 1955. <i>4/</i>   |
| 329                       | Luisa Grijalva de Guerra            | --      | 1953           | 63                 | 14             | --         | Qal Rg             | 3,643                         | 17.61<br>9.67                 | June 25, 1956<br>July 24, 1973 | T, Ng          | Irr          | Not used. Pump set at 55 ft. Reported yield 680 gpm on Apr. 15, 1955. <i>4/</i>                                      |
| * 330                     | Kermit Williams                     | --      | --             | 91                 | 20             | --         | Qal Rg             | 3,644                         | 9.21                          | July 23, 1973                  | T, G           | Irr          | Pump set at 80 ft. Reported yield 1,071 gpm on Mar. 25, 1955. Temp. 67°F. <i>4/</i>                                  |
| * 331                     | J. F. Grijalva                      | --      | --             | 90                 | 18             | 90         | Qal Rg             | 3,644                         | 18.73<br>6.60                 | June 25, 1956<br>July 23, 1973 | N              | N            | Not used. Slotted from 40-90 ft. Gravel packed. Pump set at 70 ft. Reported yield 887 gpm on May 31, 1955. <i>4/</i> |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                       | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of life | Use of water | Remarks  |
|---------------------------|---|-------------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |   |                               |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |   |                               |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-30-332              | Samuel Sanchez  | --                            | --             | 75                 | 16             | --         | Qal Rg             | 3,645                         | --                            | --                             | T, G           | Irr          | Pump set at 69 ft. Reported yield 923 gpm on Apr. 15, 1955. Temp. 68°F. <i>4</i>                       |
| * 333                     | El Paso Electric Company  | --                            | --             | 81                 | 16             | --         | Qal Rg             | 3,645                         | 21.15                         | June 25, 1956                  | T, G           | Irr          | Pump set at 70 ft. Reported yield 1,233 gpm on Apr. 15, 1955. <i>4</i>                                 |
| 334                       | Ruth K. Brennan   | --                            | --             | 70                 | 14             | --         | Qal Rg             | 3,640                         | 12.48                         | June 22, 1956                  | N              | N            | Destroyed.   |
| * 335                     | Mrs. Antha Mae Davidson   | --                            | --             | 68                 | 18             | --         | Qal Rg             | 3,640                         | 7.0                           | July 24, 1973                  | T              | N            | Pump set at 60 ft. Reported yield 403 gpm on Apr. 30, 1955. Temp. 67.5°F. <i>4</i>                     |
| 336                       | Fidel Maese   | Payne & Ballard               | --             | 69                 | 18             | --         | Qal Rg             | 3,640                         | 8.53                          | do                             | N              | N            | Not used. Pump set at 65 ft. Reported yield 1,125 gpm on Apr. 28, 1955. Temp. 65°F. <i>4</i>           |
| * 337                     | R. Delgado  | --                            | --             | 72                 | 18             | --         | Qal Rg             | 3,640                         | --                            | --                             | T, Ng          | Irr          | Pump set at 62 ft. Reported yield 1,161 gpm on Apr. 15, 1955. <i>4</i>                                 |
| 338                       | Jose Alarcon  | --                            | --             | 75                 | 10             | --         | Qal Rg             | 3,643                         | 16.6<br>16.4                  | June 25, 1956<br>Dec. 4, 1957  | Cf, G          | Irr          | Pump set at 75 ft. Reported yield 672 gpm on Apr. 17, 1955. <i>4</i>                                   |
| 339                       | Mrs. Antha Mae Davidson   | --                            | --             | --                 | 14             | --         | Qal Rg             | 3,642                         | --                            | --                             | T, C           | Irr          | --   |
| 340                       | Earl Eads   | --                            | --             | --                 | 16             | --         | Qal Rg             | 3,638                         | 8.84                          | July 24, 1973                  | T              | Irr          | <i>4</i>   |
| * 341                     | Texas Department of Water Resources--U.S. Bureau of Reclamation | Texas Water Development Board | 1977           | 1,140              | --             | --         | Qcal 6             | 3,648                         | --                            | --                             | N              | N            | Test hole. 1/2   |
| * 601                     | El Paso County Water Control & Improvement District No. 1       | Layne-Texas Company           | 1957           | 2,292              | 8              | --         | --                 | 3,635                         | --                            | --                             | N              | N            | Do.  |
| 602                       | U.S. Bureau of Reclamation                                      | U.S. Bureau of Reclamation    | 1952           | 24                 | 2              | --         | Qal Rg             | 3,631                         | 8.5<br>6.60                   | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.  |
| * 603                     | R. D. Wilson  | --                            | --             | 70                 | 14             | --         | Qal Rg             | 3,636                         | 13.14<br>6.18                 | June 27, 1956<br>July 17, 1973 | N              | N            | Abandoned. Pump set at 60 ft. Temp. 66°F on Sept. 6, 1956. <i>4</i>                                    |
| 604                       | Mike Dipp   | --                            | --             | 70                 | 14             | --         | Qal Rg             | 3,637                         | 20.29<br>8.56                 | June 27, 1956<br>July 16, 1973 | T, C           | Irr          | Pump set at 65 ft. Reported yield 734 gpm on July 2, 1955. <i>4</i>                                    |
| 605                       | Tomas P. Gonzales   | --                            | 1953           | 80                 | 16             | --         | Qal Rg             | 3,637                         | 8.34                          | July 23, 1973                  | T, G           | Irr          | Pump set at 70 ft. Temp. 66°F on Apr. 25, 1955. <i>4</i>   |
| * 606                     | Ralph's Farms, Inc.   | --                            | --             | 131                | 18             | --         | Qal Rg             | 3,637                         | 21.50<br>9.23                 | Nov. 19, 1956<br>Jan. 17, 1976 | T, G           | Irr          | Pump set at 90 ft. Reported yield 1,301 gpm on Apr. 19, 1955. Temp. 66°F. Observation well. <i>3/4</i> |
| 607                       | C. Coldwell, Eleanor C. Shupleigh, and K. Coldwell              | --                            | --             | 90                 | 16             | --         | Qal Rg             | 3,637                         | 20.22<br>15.3                 | Nov. 19, 1956<br>Dec. 4, 1957  | T, G           | Irr          | Pump set at 75 ft. Reported yield 1,386 gpm on Apr. 12, 1955. Temp. 66°F. <i>4</i>                     |
| * 608                     | G.B.S. Gil & Sons, Inc.   | --                            | --             | 120                | 18             | --         | Qal Rg             | 3,636                         | 16.34<br>8.40                 | June 26, 1956<br>July 23, 1973 | T, G           | Irr          | Pump set at 81 ft. Yield 1,450 gpm on Aug. 15, 1951. <i>4</i>  |
| * 609                     | Mrs. E. A. Strout   | Payne & Ballard               | 1952           | 124                | 16             | --         | Qal Rg             | 3,636                         | 9.90                          | July 16, 1973                  | T, G           | Irr          | Pump set at 90 ft. Reported yield 1,008 gpm on Apr. 19, 1955. Temp. 65°F. <i>4</i>                     |
| 610                       | F. M. Strickland  | --                            | --             | --                 | 14             | --         | Qal Rg             | 3,633                         | 12.08                         | June 27, 1956                  | T, G           | Irr          | <i>4</i>   |
| * 611                     | R. E. and W. D. Skov  | --                            | --             | --                 | --             | --         | Qal Rg             | 3,633                         | 17.92                         | do                             | T, G           | Irr          | <i>4</i>   |
| * 612                     | Ralph's Farms, Inc.   | --                            | --             | 178                | 18             | --         | Qal Rg             | 3,637                         | 10.98<br>9.90                 | Mar. 10, 1953<br>July 23, 1973 | T, G           | Irr          | Pump set at 130 ft. Reported yield 1,071 gpm on Mar. 24, 1955. Temp. 66°F on Sept. 3, 1956. <i>4</i>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                       | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|---|-------------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |   |                               |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |   |                               |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| * 31-49-30-613            | Guillermo Parada  | --                            | --             | 73                 | 14             | --         | Qal Rg             | 3,632                         | 16.27<br>6.95                 | Nov. 19, 1956<br>May 10, 1977  | T              | N            | Not used. Reported yield 612 gpm on June 24, 1955. Temp. 68°F on July 13, 1956. Observation well. <u>3/4</u>  |
| 614                       | Bob Surratt   | --                            | --             | 80                 | 18             | --         | Qal Rg             | 3,633                         | --                            | --                             | T              | N            | Pump set at 70 ft. Reported yield 990 gpm on Apr. 19, 1955. Temp. 66°F. <u>4</u>  |
| 615                       | S. Y. Wilson  | Brown & Ledford               | 1956           | 147                | --             | --         | --                 | 3,633                         | --                            | --                             | N              | N            | Test hole.  |
| * 616                     | Quintana and Cordova Sanchez                                    | --                            | --             | 125                | 16             | --         | Qal Rg             | 3,631                         | 11.27<br>7.17                 | June 26, 1956<br>May 30, 1977  | T              | N            | Pump set at 110 ft. Reported yield 1,469 gpm on May 2, 1955. Observation well. <u>3/4</u>   |
| 617                       | Sisters of Loreto   | --                            | --             | --                 | 16             | --         | Qal Rg             | 3,632                         | 22.9<br>15.8                  | June 26, 1956<br>Dec. 4, 1957  | T, G           | Irr          | Reported yield 2,647 gpm on Mar. 1, 1955. <u>4</u>  |
| * 618                     | Don Surratt   | --                            | --             | 98                 | 18             | --         | Qal Rg             | 3,632                         | 15.47<br>14.6                 | Nov. 19, 1956<br>Dec. 4, 1957  | T, G           | Irr          | Pump set at 90 ft. Reported yield 2,247 gpm on Apr. 12, 1955. Temp. 66°F. <u>4</u>  |
| * 619                     | Francisco Sanchez   | --                            | 1930           | 80                 | 2              | 70         | Qal Rg             | 3,634                         | --                            | --                             | J, E           | D            | Open hole from 70-80 ft. Pump set at 70 ft. Estimated yield 10 gpm.   |
| 620                       | Jose Antonio Muese  | Cole Drilling                 | 1963           | 80                 | 18             | 80         | Qal Rg             | 3,640                         | 9.49                          | Feb. 28, 1974                  | T, G           | Irr          | Slotted from 60-80 ft. Pump set at 70 ft.   |
| 621                       | Mrs. E. A. Strout   | --                            | --             | --                 | 16             | --         | Qal Rg             | 3,635                         | 9.00                          | July 24, 1973                  | T, Ng          | Irr          | <u>4</u>  |
| 622                       | Kermit Williams   | --                            | --             | 120                | 18             | 120        | Qal Rg             | 3,638                         | 10.26                         | do                             | T, Ng          | Irr          | --  |
| * 623                     | Texas Department of Water Resources--U.S. Bureau of Reclamation | Texas Water Development Board | 1974           | 200                | 3              | 200        | Qal Rg             | 3,639                         | 10.15<br>10.67                | June 21, 1974<br>May 10, 1977  | N              | N            | Slotted from 80-100, 120-140, 160-180, and 190-200 ft. Gravel packed. Drilled to 668 ft and plugged back to 270 ft. Cement plug from 200-210 ft. Temp. 71°F on May 22, 1974. Observation well. <u>2/3</u> |
| * 31-101                  | City of El Paso   | Wheeler Cuss                  | 1968           | 50                 | 1-1/2          | 50         | Qal Rg             | 3,642                         | 7.37<br>7.19                  | June 7, 1968<br>May 10, 1977   | N              | N            | Slotted from 20-50 ft. Gravel packed. Observation well. <u>3/3</u>  |
| 102                       | T. W. Dorough   | --                            | 1955           | --                 | --             | --         | Qal Rg             | 3,642                         | --                            | --                             | N              | N            | Not used. Temp. 66°F on June 17, 1955. <u>4</u>   |
| 103                       | do  | --                            | 1954           | 50                 | 16             | --         | Qal Rg             | 3,643                         | 16.53<br>10.30                | Nov. 14, 1956<br>July 12, 1973 | T              | Irr          | Pump set at 45 ft. Temp. 66°F on Apr. 27, 1955. <u>4</u>  |
| 104                       | James Hay   | Morrison Drilling Company     | 1953           | 80                 | 16             | --         | Qal Rg             | 3,645                         | 17.00<br>7.80                 | Nov. 14, 1956<br>July 13, 1973 | T, G           | Irr          | Pump set at 70 ft. Temp. 66°F. <u>4</u>   |
| 105                       | U.S. Bureau of Reclamation                                      | U.S. Bureau of Reclamation    | 1952           | 75                 | 2              | --         | Qal Rg             | 3,643                         | 8.7<br>7.60                   | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.   |
| 106                       | West Texas Athena Company                                       | --                            | --             | 108                | 16             | --         | Qal Rg             | 3,639                         | 18.90<br>5.31                 | Nov. 16, 1956<br>July 12, 1973 | T, G           | Irr          | Pump set at 80 ft. Reported yield 774 gpm on Apr. 21, 1955. Temp. 65°F. <u>4</u>  |
| 107                       | Mrs. Ingram   | --                            | --             | --                 | 14             | --         | Qal Rg             | 3,638                         | 19.33<br>15.60                | Nov. 16, 1956<br>Nov. 27, 1957 | N              | N            | Destroyed.  |
| 108                       | West Texas Athena Company                                       | --                            | --             | --                 | 14             | --         | Qal Rg             | 3,639                         | 19.34<br>6.90                 | June 21, 1956<br>Aug. 8, 1973  | N              | Irr          | Not used. <u>4</u>  |
| 109                       | James H. Strachan   | --                            | 1953           | 95                 | 16             | --         | Qal Rg             | 3,639                         | 23.4<br>19.9                  | July 20, 1956<br>Nov. 27, 1957 | T, G           | Irr          | Pump set at 80 ft. Temp. 65°F. <u>4</u>   |
| * 110                     | Sam D. Young  | --                            | --             | --                 | 18             | --         | Qal Rg             | 3,643                         | 21.62<br>7.70                 | Nov. 14, 1956<br>July 12, 1973 | N              | Irr          | Not used. Temp. 65°F on Aug. 6, 1956.   |
| 111                       | R. C. Wilson Well 3   | --                            | --             | 41                 | 14             | --         | Qal Rg             | 3,641                         | 19.14<br>5.54                 | June 21, 1956<br>July 16, 1973 | N              | Irr          | Not used. Pump set at 39 ft. <u>4</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                    | Driller               | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|--------------------------|-----------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                          |                       |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                          |                       |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| HL-49-31-112              | R. C. Wilson Well 2      | --                    | --             | --                 | 16             | --         | Qal Rg             | 3,644                         | 15.72                         | June 21, 1956                  | T, Ng          | Irr          | Reported yield 427 gpm. <i>4</i>   |
| * 113                     | Martin Lettunich         | --                    | 1954           | 100                | 16             | --         | Qal Rg             | 3,639                         | 7.65                          | July 12, 1973                  | T, G           | Irr          | Gravel packed. Pump set at 60 ft. Reported yield 317 gpm on Apr. 26, 1956. Temp. 65°F on Sept. 3, 1956. <i>4</i> |
| 114                       | R. C. Wilson Well 1      | --                    | --             | --                 | 16             | --         | Qal Rg             | 3,640                         | 21.48<br>8.05                 | June 21, 1956<br>July 16, 1973 | T, Ng          | Irr          | Gravel packed. Reported yield 786 gpm on Mar. 18, 1955. <i>4</i>   |
| 115                       | Sam D. Young             | --                    | --             | 50                 | 10             | --         | Qal Rg             | 3,639                         | 5.45                          | July 13, 1973                  | T, G           | Irr          | Gravel packed. Pump set at 60 ft. Reported yield 436 gpm on Mar. 18, 1955. Temp. 65°F. <i>4</i>                  |
| 116                       | do                       | --                    | --             | 52                 | 10             | --         | Qal Rg             | 3,639                         | 6.75                          | July 16, 1973                  | T, Ng          | Irr          | Gravel packed. Pump set at 45 ft. Reported yield 503 gpm on Mar. 18, 1955. Temp. 65°F. <i>4</i>                  |
| 117                       | E. Grijalva              | --                    | --             | --                 | 14             | --         | Qal Rg             | 3,638                         | 21.71<br>7.05                 | June 21, 1956<br>July 13, 1973 | N              | Irr          | Not used. <i>4</i>   |
| * 118                     | Martin Lettunich         | --                    | --             | 65                 | 18             | --         | Qal Rg             | 3,637                         | 26.02<br>17.8                 | June 21, 1956<br>Nov. 16, 1956 | T, G           | Irr          | Gravel packed. Pump set at 62 ft. Reported yield 1,494 gpm on Apr. 21, 1955. <i>4</i>                            |
| 119                       | do                       | --                    | --             | --                 | 16             | --         | Qal Rg             | 3,639                         | 22.80<br>7.47                 | July 20, 1956<br>Jan. 11, 1977 | N              | Irr          | Observation well. <i>3 4</i>   |
| 120                       | City of El Paso          | --                    | --             | 100                | 16             | --         | Qal Rg             | 3,638                         | 19.0<br>8.63                  | Nov. 16, 1956<br>July 13, 1973 | T, Ng          | Irr          | Pump set at 80 ft. Reported yield 1,625 gpm on Apr. 4, 1955. Temp. 66°F. <i>4</i>                                |
| 121                       | Elijio Grijalva, Jr.     | --                    | --             | 50                 | 16             | --         | Qal Rg             | 3,638                         | 29.35<br>6.10                 | June 26, 1956<br>July 13, 1973 | T, G           | Irr          | Pump set at 40 ft. Reported yield 1,477 gpm on Mar. 18, 1955. <i>4</i>   |
| 122                       | R. Varela                | Meyers Pump Company   | 1952           | 95                 | 16             | 95         | Qal Rg             | 3,637                         | 16.72<br>7.70                 | June 22, 1959<br>July 12, 1973 | T, G           | Irr          | Slotted from 62-95 ft. Reported yield 765 gpm on Apr. 28, 1955. <i>4</i>   |
| 123                       | Ruth K. Hrennsand        | --                    | --             | 75                 | 16             | --         | Qal Rg             | 3,635                         | 13.72                         | June 22, 1956                  | T, G           | Irr          | Pump set at 60 ft. <i>4</i>  |
| * 124                     | J. G. and M. D. Britton  | --                    | --             | --                 | --             | --         | Qal Rg             | 3,637                         | 19.78<br>8.74                 | June 26, 1956<br>Jan. 11, 1977 | T, Ng          | Irr          | Observation well. <i>3 4</i>   |
| 125                       | Harry Silva              | --                    | 1953           | 90                 | 16             | --         | Qal Rg             | 3,636                         | --                            | --                             | T, G           | Irr          | Pump set at 80 ft. Reported yield 801 gpm on Apr. 26, 1955. <i>4</i>   |
| 126                       | A. L. Fenter             | --                    | --             | --                 | --             | --         | Qal Rg             | 3,636                         | 18.79<br>8.25                 | June 26, 1956<br>July 12, 1973 | T, Ng          | Irr          | <i>4</i>   |
| 127                       | S. O. and C. Roberts     | --                    | --             | --                 | 16             | --         | Qal Rg             | 3,636                         | 18.24<br>8.36                 | June 26, 1956<br>July 12, 1973 | T, Ng          | Irr          | <i>4</i>   |
| 128                       | Mowad Investment Company | --                    | 1951           | 127                | 16             | --         | Qal Rg             | 3,634                         | 17.21<br>8.65                 | Nov. 15, 1956<br>Feb. 22, 1974 | T, G           | Irr          | Pump set at 70 ft. Reported yield 918 gpm on Apr. 26, 1955. Temp. 65°F. <i>1 4</i>                               |
| 129                       | do                       | --                    | --             | --                 | --             | --         | Qal Rg             | 3,635                         | --                            | --                             | T, G           | Irr          | Reported yield 894 gpm on Mar. 18, 1955. Temp. 65°F. <i>4</i>  |
| * 130                     | G.B.S. Oil & Sons, Inc.  | --                    | --             | --                 | 16             | --         | Qal Rg             | 3,635                         | 20.86                         | June 20, 1956                  | T, Ng          | Irr          | Reported yield 731 gpm on Apr. 18, 1955. <i>4</i>  |
| 131                       | Earl Ends                | --                    | --             | 71                 | 16             | 71         | Qal Rg             | 3,635                         | 13.69<br>7.68                 | June 22, 1956<br>Jan. 11, 1977 | N              | Irr          | Not used. Pump set at 65 ft. Reported yield 1,148 gpm on Apr. 5, 1955. Observation well. <i>3 4</i>              |
| * 132                     | T. W. Dorough Well 1     | Mobil Oil Corporation | 1970           | 7,914              | --             | --         | --                 | 3,645                         | --                            | --                             | N              | N            | Oil test. <i>2</i>   |
| 133                       | S. R. Brown              | --                    | --             | --                 | 18             | --         | Qal Rg             | 3,642                         | --                            | --                             | T, Ng          | Irr          | <i>2</i>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                            | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|----------------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                                  |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                                  |                            |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| JL-49-31-134              | Rugh K. Brennan Well 2           | --                         | --             | --                 | 14             | --         | Qal Rg             | 3,636                         | 9.00                          | July 24, 1973                  | T              | Irr          | Pump set at 65 ft. <i>4/</i>  |
| 135                       | --                               | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,637                         | 7.76                          | July 12, 1973                  | T, G           | Irr          | --  |
| 136                       | Catholic Church of San Elizario  | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,637                         | 6.72                          | Feb. 22, 1974                  | T              | Irr          | <i>4/</i>   |
| 137                       | Martin Lettunich                 | --                         | --             | --                 | 20             | --         | Qal Rg             | 3,639                         | 7.35                          | Feb. 28, 1974                  | T, Ng          | N            | Not used.   |
| 138                       | Sam D. Young                     | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,640                         | --                            | --                             | T, G           | Irr          | --  |
| * 201                     | H. D. Zachry                     | Morrison Drilling Company  | 1958           | 400                | 12             | --         | Qtal 6             | 3,780                         | 154.08<br>141.13              | Feb. 3, 1960<br>Jan. 11, 1977  | N              | Ind          | Not used. Reported yield 150 gpm. Observation well. <i>3/</i>                                       |
| 202                       | U.S. Bureau of Reclamation       | U.S. Bureau of Reclamation | 1952           | 25                 | 2              | --         | Qal Rg             | 3,636                         | 7.3<br>5.9                    | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.   |
| * 203                     | Paul Thomas                      | Wheeler Cass               | 1943           | 162                | 6              | 162        | Qtal 6             | 3,762                         | 113.60<br>116.20              | Feb. 3, 1954<br>July 12, 1973  | C, W           | S            | --  |
| 301                       | Orr                              | -- Anderson                | --             | 450                | 10             | --         | Qtal 6             | 3,977                         | 372.0<br>366.7                | Feb. 3, 1954<br>Nov. 20, 1956  | W              | S            | Destroyed.  |
| * 401                     | E. Loya                          | --                         | --             | 108                | 16             | --         | Qal Rg             | 3,627                         | 18.5<br>6.96                  | June 26, 1956<br>June 27, 1973 | T              | Irr          | Pump set at 75 ft. Reported yield 1,196 gpm on Apr. 4, 1955. Temp. 66°F on July 30, 1956. <i>4/</i> |
| 402                       | George Rads, et al. Well 1       | --                         | --             | 78                 | 20             | --         | Qal Rg             | 3,635                         | 16.62                         | June 22, 1956                  | N              | Irr          | Not used. Capped. Reported yield 915 gpm on June 12, 1957. <i>4/</i>                                |
| w 403                     | George Rads, et al. Well 2       | --                         | --             | 79                 | 16             | --         | Qal Rg             | 3,635                         | 7.70                          | June 29, 1973                  | T, G           | Irr          | Pump set at 60 ft. Temp. 66°F on Aug. 6, 1956. <i>4/</i>  |
| 404                       | W. D. Surratt                    | --                         | --             | --                 | --             | --         | Qal Rg             | 3,634                         | --                            | --                             | T, Ng          | Irr          | Temp. 65°F on Apr. 11, 1955. <i>4/</i>  |
| 405                       | R. E. and W. D. Skov             | Miller Drilling Company    | 1951           | 75                 | 18             | 75         | Qal Rg             | 3,635                         | 28.51<br>8.28                 | June 20, 1956<br>June 29, 1973 | T, Ng          | Irr          | --  |
| 406                       | A. L. Carr                       | Payne & Ballard            | 1956           | 70                 | 16             | --         | Qal Rg             | 3,635                         | 20.44<br>11.23                | July 20, 1956<br>Feb. 22, 1974 | T, G           | Irr          | Slotted from 40-70 ft. Reported yield 700-800 gpm. <i>4/</i>  |
| * 407                     | Mrs. Sarah Lacour, et al.        | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,635                         | 6.92                          | June 29, 1933                  | T, G           | Irr          | Reported yield 1,125 gpm on Apr. 28, 1955. Temp. 66°F on Aug. 6, 1956. <i>4/</i>                    |
| 408                       | J. L. Carr                       | --                         | --             | --                 | --             | --         | Qal Rg             | 3,635                         | 28.03<br>10.98                | June 20, 1956<br>June 29, 1973 | T, Ng          | Irr          | Reported yield 1,350 gpm on Mar. 18, 1955. <i>4/</i>  |
| w 409                     | T. W. Dorough                    | --                         | --             | 90                 | 16             | --         | Qal Rg             | 3,635                         | 17.59<br>5.90                 | June 22, 1956<br>Jan. 11, 1977 | T, Ng          | Irr          | Pump set at 80 ft. Yield 1,527 gpm on Apr. 26, 1955. Observation well. <i>3/4/</i>                  |
| 410                       | A. P. Herring                    | --                         | --             | 72                 | 16             | --         | Qal Rg             | 3,630                         | --                            | --                             | T, Ng          | Irr          | Pump set at 70 ft. <i>4/</i>  |
| 411                       | Helen Skov                       | -- Oaugherty               | 1953           | 70                 | 18             | --         | Qal Rg             | 3,633                         | 19.75<br>4.60                 | June 20, 1956<br>June 29, 1973 | T, G           | Irr          | Pump set at 70 ft. Yield 1,306 gpm on May 17, 1951. <i>4/</i>                                       |
| w 412                     | do                               | --                         | 1954           | 142                | 18             | --         | Qal Rg             | 3,634                         | 20.25<br>6.47                 | June 20, 1956<br>June 29, 1973 | T, G           | Irr          | Pump set at 70 ft. Yield 1,090 gpm on Sept. 11, 1951. <i>4/</i>                                     |
| 413                       | Normandy Corporation             | --                         | --             | 80                 | 16             | --         | Qal Rg             | 3,633                         | 16.33                         | June 22, 1956                  | T, G           | Irr          | Pump set at 62 ft. <i>4/</i>  |
| 414                       | J. M. Eduardo, M. and L. Arevalo | Doherty Drilling Company   | 1954           | 80                 | 16             | --         | Qal Rg             | 3,628                         | 24.61<br>4.72                 | June 28, 1956<br>June 27, 1973 | T, G           | Irr          | Pump set at 65 ft. <i>4/</i>  |
| 415                       | do                               | do                         | 1950           | 140                | 16             | --         | Qal Rg             | 3,628                         | 5.29                          | do                             | T, G           | Irr          | Pump set at 60 ft. Yield 1,467 gpm on June 19, 1951. <i>4/</i>                                      |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                             | Driller                  | Data completed | Depth of well (ft.) | Casing         |             | Water bearing unit | Altitude of land surface datum (ft.) | Water Level                    |                                | Method of lift | Use of water | Remarks  |
|---------------------------|-----------------------------------|--------------------------|----------------|---------------------|----------------|-------------|--------------------|--------------------------------------|--------------------------------|--------------------------------|----------------|--------------|--|
|                           |                                   |                          |                |                     | Diameter (in.) | Depth (ft.) |                    |                                      | Below land-surface datum (ft.) | Date of measurement            |                |              |  |
| El Paso County--Continued |                                   |                          |                |                     |                |             |                    |                                      |                                |                                |                |              |  |
| * IL-49-31-416            | Lee & Beulah Moor Children's Home | --                       | --             | 77                  | 18             | --          | Qal Rg             | 3,628                                | 7.14                           | June 27, 1973                  | T, G           | Irr          | Pump set at 77 ft. Temp. 65°F on Aug. 7, 1956. <i>4</i>  |
| 417                       | T. W. Borough Well 2              | --                       | --             | 80                  | 18             | --          | Qal Rg             | 3,628                                | 20.94<br>6.17                  | June 22, 1956<br>June 27, 1973 | T, G           | Irr          | Pump set at 70 ft. Reported yield 1,485 gpm on Apr. 11, 1955. <i>4</i>                         |
| 418                       | T. W. Borough                     | --                       | --             | 70                  | 16             | --          | Qal Rg             | 3,628                                | 6.55                           | do                             | T, G           | Irr          | Pump set at 60 ft. <i>4</i>  |
| 419                       | M. N. Martin                      | --                       | --             | 75                  | 16             | --          | Qal Rg             | 3,630                                | 21.70<br>7.36                  | June 28, 1956<br>Jan. 25, 1974 | T, Ng          | Irr          | --   |
| 420                       | M. Richards                       | --                       | --             | --                  | 18             | --          | Qal Rg             | 3,632                                | 10.27                          | Feb. 22, 1974                  | T, G           | Irr          | --   |
| 422                       | Mike Maros                        | Bill Mike                | 1954           | 120                 | --             | --          | Qal Rg             | 3,631                                | --                             | --                             | T, Ng          | Irr          | --   |
| 423                       | do                                | --                       | --             | 95                  | 18             | --          | Qal Rg             | 3,631                                | 9.92                           | June 29, 1973                  | T, Ng          | Irr          | Pump set at 85 ft. <i>4</i>  |
| 424                       | Jerry Rogers, Inc.                | --                       | --             | 96                  | 18             | --          | Qal Rg             | 3,629                                | 30.58<br>6.51                  | Aug. 1, 1956<br>Jan. 11, 1977  | T, Ng          | Irr          | Pump set at 85 ft. Observation well. <i>3 4</i>  |
| * 425                     | do                                | --                       | --             | 70                  | 16             | --          | Qal Rg             | 3,627                                | 11.89<br>7.08                  | Jan. 21, 1959<br>Jan. 11, 1977 | T, G           | Irr          | Pump set at 70 ft. Observation well. <i>3 4</i>  |
| 426                       | Frank Pryor                       | --                       | --             | 67                  | 16             | --          | Qal Rg             | 3,631                                | 8.9                            | June 27, 1956                  | N              | Irr          | Abandoned. Reported yield 923 gpm on Apr. 27, 1955. <i>4</i>                                   |
| 427                       | Jose H. Arevalo, Jr.              | Doherty Drilling Company | 1955           | 60                  | 16             | --          | Qal Rg             | 3,631                                | 13.14<br>7.20                  | Nov. 19, 1956<br>June 27, 1973 | T              | Irr          | Pump set at 55 ft. Reported yield 828 gpm on July 2, 1955. <i>4</i>                            |
| 428                       | Lee & Beulah Moor Children's Home | --                       | --             | 83                  | 18             | --          | Qal Rg             | 3,627                                | 12.61<br>8.70                  | June 28, 1956<br>June 27, 1973 | N              | Irr          | Not used. <i>4</i>   |
| 429                       | E. W. Rushing                     | --                       | --             | 76                  | 18             | --          | Qal Rg             | 3,627                                | --                             | --                             | T, G           | Irr          | Destroyed. <i>4</i>  |
| 430                       | Evelyn R. Wood                    | Miller Brothers          | 1951           | 71                  | 18             | 71          | Qal Rg             | 3,628                                | 9.74                           | June 27, 1973                  | T, G           | Irr          | Screens from 16-30, 31-36, 38-54, and 54-71 ft. <i>4</i>                                       |
| 431                       | Jose P. Crijalva                  | --                       | 1948           | 120                 | 16             | --          | Qal Rg             | 3,626                                | 21.11                          | June 26, 1956                  | T, G           | Irr          | Pump set at 90 ft. Reported yield 1,265 gpm on Apr. 19, 1955. <i>4</i>                         |
| * 432                     | Evelyn R. Wood                    | --                       | 1951           | 64                  | 18             | 64          | Qal Rg             | 3,627                                | --                             | --                             | T, G           | Irr          | Plugged back from 124 ft to 64 ft. Pump set at 50 ft. Temp. 66°F on Aug. 6, 1956. <i>1 4 4</i> |
| * 433                     | H. H. Beene                       | --                       | --             | 78                  | 16             | --          | Qal Rg             | 3,631                                | 9.52<br>7.48                   | Mar. 9, 1953<br>July 2, 1973   | T, G           | Irr          | Pump set at 65 ft. <i>4</i>  |
| * 434                     | W. D. Surratt                     | Chambers & Kennedy       | --             | 9,821               | --             | --          | --                 | 3,632                                | --                             | --                             | --             | --           | Oil test. <i>2</i>   |
| 435                       | Lola S. Seal                      | K. C. Wheeler            | 1964           | 125                 | 18             | 125         | Qal Rg             | 3,628                                | --                             | --                             | N              | Irr          | Not used. Gravel packed. Plugged back from 496 ft to 125 ft. <i>1 4 4</i>                      |
| * 436                     | W. D. Surratt                     | --                       | --             | --                  | 16             | --          | Qal Rg             | 3,633                                | 7.70                           | July 2, 1973                   | T, Ng          | Irr          | --   |
| 437                       | George Ashley                     | --                       | --             | --                  | 16             | --          | Qal Rg             | 3,633                                | --                             | --                             | T, G           | Irr          | --   |
| 438                       | Jerry Rogers, Inc.                | --                       | --             | --                  | 18             | --          | Qal Rg             | 3,630                                | 9.27                           | June 29, 1973                  | T, Ng          | Irr          | <i>4</i>   |
| 439                       | do                                | --                       | --             | --                  | 18             | --          | Qal Rg             | 3,630                                | 8.50                           | do                             | T              | Irr          | <i>4</i>   |
| 440                       | Earl Hads Well 3                  | --                       | --             | --                  | 12             | --          | Qal Rg             | 3,635                                | 7.53                           | do                             | T, G           | Irr          | --   |
| 441                       | Earl Hads Well 4                  | --                       | --             | --                  | --             | --          | Qal Rg             | 3,635                                | --                             | --                             | T, G           | Irr          | --   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                             | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|-----------------------------------|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                                   |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                                   |                           |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-31-442              | Skov Farms, Inc.                  | --                        | --             | --                 | --             | --         | Qal Rg             | 3,632                         | --                            | --                             | T, G           | S, ind       | --   |
| 443                       | W. N. Martin Well 2               | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,630                         | --                            | --                             | T, Ng          | Irr          | <i>4</i>   |
| 444                       | H.S.S. Gil & Sons, Inc.           | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,635                         | 8.24                          | Feb. 26, 1974                  | T, Ng          | Irr          | <i>4</i>   |
| * 501                     | Lee & Beulah Moor Children's Home | --                        | 1954           | 76                 | 18             | --         | Qal Rg             | 3,626                         | 23.40<br>7.38                 | Aug. 2, 1956<br>Jan. 11, 1977  | N              | Irr          | Not used. Temp. 66°F on Sept. 3, 1956. Observation well. <i>3 4</i>                                |
| 502                       | Paul & Rosalie's Farms, Inc.      | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,631                         | 15.42<br>14.40                | Nov. 15, 1956<br>Nov. 27, 1957 | T, G           | Irr          | <i>4</i>   |
| 503                       | Kenneth Suggs                     | --                        | --             | --                 | 14             | --         | Qal Rg             | 3,631                         | 13.87<br>17.1                 | Aug. 1, 1956<br>Nov. 27, 1957  | N              | Irr          | Destroyed. <i>4</i>  |
| 504                       | Conway & Sons, Inc.               | Miller Drilling Company   | 1951           | 86                 | 18             | --         | Qal Rg             | 3,630                         | --                            | --                             | N              | Irr          | Not used. Capped with metal plate. <i>4</i>  |
| 505                       | Kenneth Suggs                     | --                        | --             | --                 | 14             | --         | Qal Rg             | 3,630                         | 20.06<br>22.5                 | Aug. 1, 1956<br>Nov. 19, 1957  | N              | Irr          | Not used. Capped. <i>4</i>   |
| 506                       | George Orr                        | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,630                         | --                            | --                             | N              | Irr          | Destroyed.   |
| 507                       | R. Williams                       | --                        | --             | --                 | --             | --         | Qal Rg             | 3,631                         | 15.12<br>11.05                | Aug. 1, 1956<br>Feb. 2, 1971   | T, G           | Irr          | Historical observation well. <i>3 4</i>  |
| 508                       | Conway & Sons, Inc.               | Miller Drilling Company   | 1951           | 90                 | 16             | 90         | Qal Rg             | 3,630                         | 9.42                          | July 3, 1973                   | T, Ng          | Irr          | Slotted from 50-90 ft. Pump set at 120 ft. <i>4</i>  |
| 509                       | Mike Maros                        | Bill Mize                 | 1952           | 110                | 16             | 110        | Qal Rg             | 3,630                         | 10.45                         | do                             | T, Ng          | Irr          | Slotted from 35-110 ft. Pump set at 100 ft. Reported yield 1,000 gpm. <i>4</i>                     |
| 510                       | Conway & Sons, Inc.               | -- Daugherty              | 1955           | 82                 | --             | --         | Qal Rg             | 3,630                         | 30.29                         | Aug. 1, 1956                   | T, Ng          | Irr          | <i>4</i>   |
| 511                       | A. H., G. A., and J. L. Ivey      | Miller Brothers           | 1951           | 92                 | 18             | 92         | Qal Rg             | 3,630                         | 10.79                         | Feb. 22, 1974                  | T, Ng          | Irr          | Slotted from 50-92 ft. Pump set at 80 ft. Reported yield 1,250 gpm. <i>4</i>                       |
| 512                       | G. B. Crossland and R. Sartatt    | --                        | --             | --                 | --             | --         | Qal Rg             | 3,630                         | 24.97<br>9.15                 | Aug. 9, 1956<br>July 5, 1973   | T, G           | Irr          | <i>4</i>   |
| 513                       | J. A. Miller Estate               | Bill Mize                 | 1954           | 120                | 18             | --         | Qal Rg             | 3,624                         | 17.48<br>18.6                 | Aug. 9, 1956<br>Nov. 15, 1956  | N              | Irr          | Not used. Reported estimated yield 1,000 gpm. <i>4</i>   |
| 514                       | Jobe Investment Company           | --                        | --             | --                 | --             | --         | Qal Rg             | 3,627                         | 8.92                          | July 3, 1973                   | N              | Irr          | <i>4</i>   |
| 515                       | J. A. Miller Estate               | Bill Mize                 | 1954           | 160                | 18             | 160        | Qal Rg             | 3,624                         | 17.57<br>6.71                 | Aug. 9, 1956<br>July 5, 1973   | N              | Irr          | Not used. Slotted from 35-160 ft. <i>4</i>   |
| * 516                     | C. S. Wakeem, et al.              | Meyers Pump Company       | 1954           | 80                 | 16             | --         | Qal Rg             | 3,626                         | 20.01<br>7.38                 | Nov. 15, 1956<br>Jan. 11, 1977 | T, G           | Irr          | Pump set at 70 ft. Temp. 66°F on Sept. 3, 1956. Observation well. <i>3 4</i>                       |
| 517                       | do                                | --                        | 1952           | 140                | 16             | --         | Qal Rg             | 3,623                         | 17.36<br>9.41                 | Nov. 15, 1956<br>July 5, 1973  | T, G           | Irr          | <i>4</i>   |
| 518                       | J. A. Miller Estate               | Morrison Drilling Company | 1951           | 165                | 16             | 165        | Qal Rg             | 3,621                         | 16.59<br>7.05                 | Aug. 8, 1956<br>July 3, 1973   | N              | Irr          | Not used. Slotted from 35-165 ft. Reported estimated yield 1,000 gpm. Pump set at 110 ft. <i>4</i> |
| 519                       | Sam D. Young                      | --                        | --             | 90                 | 18             | --         | Qal Rg             | 3,625                         | 10.40                         | do                             | T, Ng          | Irr          | Pump set at 70 ft. <i>4</i>  |
| * 520                     | Vince Baier                       | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,625                         | 26.10<br>21.1                 | Aug. 2, 1956<br>Dec. 4, 1957   | T, Ng          | Irr          | <i>4</i>   |
| 521                       | Lee & Beulah Moor Children's Home | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,626                         | 7.97                          | July 3, 1973                   | T, G           | Irr          | Not used. <i>4</i>   |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                                     | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|---|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |   |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |   |                           |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-31-522              | D. C. Thomas, Jr., et al.                 | --                        | --             | 85                 | 18             | --         | Gal Rg             | 3,625                         | 10.57<br>9.22                 | Mar. 9, 1953<br>July 3, 1973   | T, Ng          | Irr          | Pump set at 70 ft. Reported yield 1,200 gpm. <i>4</i>                            |
| 523                       | Mike Maroa                                | Bill Mize                 | 1954           | 120                | 18             | --         | Gal Rg             | 3,630                         | 10.92                         | June 29, 1973                  | T, G           | Irr          | <i>4</i>   |
| 524                       | Richard Hakim                             | --                        | --             | --                 | 14             | --         | Gal Rg             | 3,622                         | 8.00                          | July 5, 1973                   | T, G           | Irr          | <i>4</i>   |
| 525                       | D. W. Conway                              | --                        | --             | --                 | 16             | --         | Gal Rg             | 3,630                         | 9.42                          | July 3, 1973                   | T, G           | Irr          | --   |
| 526                       | M. A. Briggs                              | --                        | --             | --                 | 16             | --         | Gal Rg             | 3,627                         | 7.50                          | do                             | T, G           | Irr          | <i>4</i>   |
| * 527                     | J. A. Miller Escate                       | Morrison Drilling Company | 1951           | 180                | 18             | 180        | Gal Rg             | 3,621                         | 14.06<br>7.40                 | Aug. 8, 1956<br>June 14, 1973  | N              | Irr          | Not used. <i>4</i>   |
| 528                       | Kenneth Suggs Well 1                      | --                        | --             | --                 | --             | --         | Gal Rg             | 3,630                         | 8.14                          | July 3, 1973                   | T, G           | Irr          | <i>4</i>   |
| 529                       | Kenneth Suggs Well 2                      | --                        | --             | --                 | --             | --         | Gal Rg             | 3,630                         | --                            | --                             | T, G           | Irr          | <i>4</i>   |
| * 601                     | Strain Brothers                           | Morrison Drilling Company | 1958           | 300                | 16             | 300        | Gal 6              | 3,800                         | 184.01<br>181.21              | Sept. 2, 1960<br>Jan. 11, 1977 | T, G           | Ind          | Not used. Pump set at 220 ft. Reported yield 500 gpm. Observation well. <i>3</i> |
| * 701                     | Bernard Spence                            | --                        | --             | 174                | 20             | --         | Gal Rg             | 3,619                         | 25.7<br>9.23                  | Nov. 12, 1956<br>June 13, 1973 | T, G           | Irr          | Pump set at 110 ft. <i>4</i>   |
| 702                       | Lee & Beulah Moor Children's Home Well 10 | --                        | --             | 83                 | 18             | --         | Gal Rg             | 3,624                         | --                            | --                             | T, G           | Irr          | Pump set at 80 ft. <i>4</i>  |
| 703                       | Lee & Beulah Moor Children's Home Well 11 | --                        | --             | 77                 | 18             | --         | Gal Rg             | 3,624                         | 6.95                          | June 13, 1973                  | N              | Irr          | Not used. Pump set at 77 ft. <i>4</i>  |
| 704                       | Lee & Beulah Moor Children's Home Well 14 | --                        | --             | 60                 | 16             | --         | Gal Rg             | 3,625                         | 7.2                           | do                             | N              | Irr          | Not used. Pump set at 54 ft. <i>4</i>  |
| * 705                     | Lee & Beulah Moor Children's Home         | --                        | 1954           | 130                | 16             | --         | Gal Rg             | 3,624                         | 11.07<br>9.95                 | Mar. 10, 1953<br>June 13, 1973 | T, G           | Irr          | Pump set at 100 ft.  |
| 706                       | do  | Cecil Ballard             | 1951           | 198                | 18             | 198        | Gal Rg             | 3,625                         | 30.02<br>10.80                | Nov. 12, 1956<br>June 13, 1973 | T, G           | Irr          | Pump set at 105 ft. <i>4</i>   |
| 707                       | Kermic Williams                           | --                        | --             | 200                | 18             | --         | Gal Rg             | 3,625                         | 27.51<br>21.3                 | Aug. 2, 1956<br>Nov. 26, 1957  | T, G           | Irr          | Pump set at 110 ft. <i>4</i>   |
| 708                       | Lee & Beulah Moor Children's Home         | Cecil Ballard             | 1951           | 191                | 18             | 191        | Gal Rg             | 3,625                         | 31.46<br>10.08                | Nov. 12, 1956<br>June 13, 1973 | T, G           | Irr          | Pump set at 105 ft. <i>4</i>   |
| 709                       | do  | do                        | 1951           | 200                | 18             | 200        | Gal Rg             | 3,623                         | 33.70<br>10.36                | Aug. 2, 1956<br>June 13, 1973  | T, G           | Irr          | Do.  |
| * 710                     | do  | --                        | 1951           | 130                | 18             | --         | Gal Rg             | 3,624                         | 29.99<br>9.42                 | Nov. 12, 1956<br>Jan. 11, 1977 | T, G           | Irr          | Pump set at 105 ft. Observation well. <i>3</i> <i>4</i>                          |
| 711                       | do  | --                        | 1953           | 180                | 18             | --         | Gal Rg             | 3,622                         | 31.81<br>24.8                 | Nov. 12, 1956<br>Nov. 26, 1957 | T, G           | Irr          | Pump set at 105 ft. <i>4</i>   |
| * 712                     | do  | --                        | 1952           | 200                | 18             | --         | Gal Rg             | 3,619                         | 30.22<br>12.90                | Nov. 12, 1956<br>June 13, 1973 | T, G           | Irr          | Do.  |
| * 713                     | John McGuire                              | --                        | 1959           | 180                | 20             | --         | Gal Rg             | 3,620                         | 10.22<br>8.79                 | do<br>Feb. 26, 1974            | T, G           | Irr          | Pump set at 130 ft. <i>4</i>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                               | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|-------------------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                                     |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                                     |                            |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-31-714              | Lee & Beulah Moor Children's Home   | --                         | --             | 150                | 16             | --         | Qal Rg             | 3,619                         | 9.40                          | June 13, 1973                  | T, C           | Irr          | <u>4</u>   |
| 715                       | do                                  | --                         | --             | 120                | 16             | --         | Qal Rg             | 3,618                         | 24.49<br>10.60                | Aug. 2, 1956<br>Jan. 31, 1973  | T, C           | Irr          | Pump set at 90 ft. Observation well. <u>3</u> <u>4</u>   |
| 716                       | U.S. Bureau of Reclamation          | U.S. Bureau of Reclamation | 1952           | 35                 | 2              | --         | Qal Rg             | 3,612                         | 9.5<br>8.1                    | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.  |
| 717                       | Sam Orr                             | Miller Drilling Company    | 1951           | 147                | 18             | 137        | Qal Rg             | 3,608                         | 22.79<br>10.46                | Aug. 10, 1956<br>May 10, 1977  | T              | N            | Slotted from 50-137 ft. Pump set at 100 ft. Reported yield 1,800 gpm. Observation well. <u>3</u> <u>3</u> <u>4</u> |
| * 718                     | Lee & Beulah Moor Children's Home   | Cecil Ballard              | 1951           | 100                | 16-5/8         | 100        | Qal Rg             | 3,624                         | --                            | --                             | N              | Irr          | Not used. <u>4</u>   |
| 719                       | do                                  | Wheeler Case               | 1963           | 75                 | 18             | 75         | Qal Rg             | 3,624                         | --                            | --                             | T, G           | Irr          | Slotted from 40-75 ft. Pump set at 60 ft. <u>4</u>   |
| 720                       | Bernard Spence                      | --                         | --             | --                 | 20             | --         | Qal Rg             | 3,619                         | --                            | --                             | T, G           | Irr          | <u>4</u>   |
| 721                       | John McGuire                        | --                         | --             | 180                | 20             | 180        | Qal Rg             | 3,620                         | 8.04                          | Feb. 26, 1974                  | T, C           | Irr          | Gravel packed. Pump set at 130 ft. <u>4</u>  |
| 722                       | Orr Farms, Inc.                     | Payne & Ballard            | 1955           | 200                | 20             | 200        | Qal Rg             | 3,611                         | --                            | --                             | T, G           | Irr          | Slotted from 120-200 ft. <u>4</u>  |
| 723                       | -- Aranda                           | --                         | --             | --                 | --             | --         | Qal Rg             | 3,624                         | 7.93                          | Jan. 15, 1974                  | T, C           | Irr          | <u>4</u>   |
| * 801                     | A. R. Miller, Jr. and Martha Miller | -- Daugherty               | 1950           | 106                | 12             | 100        | Qal Rg             | 3,625                         | 16                            | --                             | T, G           | Irr          | Slotted from 40-100 ft. Pump set at 75 ft.   |
| 802                       | C. Maldonado                        | --                         | --             | 85                 | 14             | --         | Qal Rg             | 3,621                         | 8.12                          | June 14, 1973                  | T, G           | Irr          | Pump set at 80 ft. <u>4</u>  |
| 803                       | U.S. Bureau of Reclamation          | U.S. Bureau of Reclamation | 1952           | 27                 | 2              | --         | Qal Rg             | 3,621                         | 8.4<br>7.6                    | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.  |
| 804                       | Mrs. Ella Lee Estate                | Brown & Ledford            | 1951           | 127                | 18             | --         | Qal Rg             | 3,622                         | 20.56<br>9.24                 | Aug. 8, 1956<br>June 14, 1973  | T, Ng          | Irr          | <u>1</u> <u>4</u>  |
| 806                       | A. R. Miller, Jr. and Martha Miller | Miller Brothers            | 1951           | 70                 | 16             | 70         | Qal Rg             | 3,630                         | 20                            | --                             | T, G           | Irr          | Slotted from 22-54 ft. Pump set at 65 ft.  |
| 807                       | do                                  | do                         | 1951           | 100                | 18             | 100        | Qal Rg             | 3,618                         | 21.62<br>8.79                 | Aug. 9, 1956<br>June 14, 1973  | T, C           | Irr          | Slotted from 60-100 ft. Pump set at 80 ft. <u>4</u>  |
| * 808                     | do                                  | --                         | --             | 144                | 16             | 144        | Qal Rg             | 3,618                         | 21.76<br>9.82                 | Nov. 15, 1956<br>Jan. 26, 1975 | T              | Irr          | Slotted from 20-144 ft. Observation well. <u>3</u> <u>4</u>  |
| 809                       | F. F. Grijalva                      | Payne & Ballard            | 1953           | 88                 | 16             | --         | Qal Rg             | 3,618                         | 18.73<br>7.80                 | Aug. 8, 1956<br>June 14, 1973  | T, G           | Irr          | Pump set at 70 ft. <u>4</u>  |
| * 810                     | Hiram Whitaker                      | Brown & Ledford            | 1951           | 132                | 18             | --         | Qal Rg             | 3,621                         | 9.17                          | do                             | T, Ng          | Irr          | Pump set at 100 ft. Test hole reamed out to 132 ft. <u>3</u> <u>4</u>  |
| * 811                     | Robert Varela                       | --                         | --             | 74                 | 18             | --         | Qal Rg             | 3,618                         | 20.46<br>8.63                 | Aug. 2, 1956<br>June 14, 1973  | T, Ng          | Irr          | Pump set at 72 ft. <u>4</u>  |
| 812                       | Juan Villalobos                     | --                         | --             | 70                 | 16             | --         | Qal Rg             | 3,618                         | 7.20                          | July 5, 1973                   | T              | Irr          | Pump set at 60 ft. <u>4</u>  |
| * 813                     | R. E. Bills and J. M. Ellis         | --                         | --             | 100                | 16             | --         | Qal Rg             | 3,615                         | 8.95                          | June 15, 1973                  | T, G           | Irr          | Pump set at 80 ft. Temp. 65°F on Aug. 9, 1956. <u>4</u>  |
| 814                       | Hiram Whitaker                      | --                         | --             | 85                 | 18             | --         | Qal Rg             | 3,612                         | 13.06<br>6.36                 | Jan. 21, 1959<br>Jan. 11, 1977 | T, Ng          | Irr          | Pump set at 85 ft. Observation well. <u>3</u> <u>4</u>   |
| * 815                     | Jewell Ellis Well 2                 | Bill Mize                  | 1950           | 85                 | 18             | --         | Qal Rg             | 3,612                         | 27.15<br>9.13                 | Aug. 8, 1956<br>June 14, 1973  | T, G           | Irr          | Pump set at 70 ft. Reported estimated yield 2,500 gpm. <u>4</u>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                             | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|-----------------------------------|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                                   |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                                   |                           |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| * JL-49-31-816            | C. R. Kapp                        | --                        | --             | 79                 | 20             | --         | Qal Rg             | 3,614                         | 7.65                          | June 14, 1973                  | T, Ng          | Irr          | Pump set at 75 ft. <i>ly</i>  |
| * 817                     | Jewell Ellis Well 1               | Morrison Drilling Company | 1951           | 120                | 18             | 120        | Qal Rg             | 3,618                         | 25.10                         | Aug. 8, 1956                   | T, Ng          | Irr          | Slotted from 40-120 ft. Pump set at 90 ft. Yield 2,500 gpm. <i>ly</i>                           |
| 818                       | K. A. Strout                      | --                        | --             | --                 | --             | --         | Qal Rg             | 3,616                         | 19.24<br>19.5                 | Nov. 15, 1956<br>Nov. 27, 1957 | T, G           | Irr          | <i>ly</i>   |
| * 819                     | T. D. Elam                        | --                        | --             | 110                | 16             | --         | Qal Rg             | 3,610                         | 22.45<br>10.28                | Aug. 7, 1956<br>June 14, 1973  | T, Ng          | Irr          | Temp. 65°F on Sept. 5, 1956. <i>ly</i>  |
| 820                       | Carlos Cobos                      | Meyers Pump Company       | 1952           | 82                 | 16             | --         | Qal Rg             | 3,609                         | 22.90<br>9.22                 | Aug. 9, 1956<br>June 14, 1973  | T, Ng          | Irr          | Pump set at 65 ft. <i>ly</i>  |
| 821                       | F. E. Grijulva                    | Bill Mize                 | 1954           | 90                 | 18             | 90         | Qal Rg             | 3,609                         | 8.82                          | do                             | T, G           | Irr          | Slotted from 70-90 ft. Pump set at 70 ft. <i>ly</i>   |
| 822                       | Ruby L. B. Story                  | --                        | --             | 80                 | 16             | --         | Qal Rg             | 3,612                         | 16.68<br>7.97                 | Aug. 8, 1956<br>June 14, 1973  | T, G           | Irr          | <i>ly</i>   |
| 823                       | R. E. Bills Well 1                | Morrison Drilling Company | 1952           | 205                | 18             | --         | Qal Rg             | 3,607                         | 27.33<br>10.13                | Aug. 7, 1956<br>June 15, 1973  | T, Ng          | Irr          | Pump set at 120 ft. <i>ly</i>   |
| * 824                     | Rawls Estate                      | Bill Mize                 | 1955           | --                 | 18             | --         | Qal Rg             | 3,607                         | 35.25<br>6.95                 | Aug. 7, 1956<br>Jan. 11, 1977  | T, G           | Irr          | Yield 1,000 gpm. Observation well. <i>ly</i>  |
| * 825                     | Lee & Beulah Moor Children's Home | --                        | --             | --                 | 20             | --         | Qal Rg             | 3,613                         | 8.87                          | June 14, 1973                  | T, G           | Irr          | Temp. 66°F on Sept. 5, 1956. <i>ly</i>  |
| 826                       | J. P. Miller Well 1               | --                        | --             | 110                | 18             | --         | Qal Rg             | 3,619                         | 11.00                         | do                             | T, Ng          | Irr          | Pump set at 100 ft. <i>ly</i>   |
| 827                       | J. P. Miller Well 2               | --                        | --             | 135                | 18             | --         | Qal Rg             | 3,610                         | 27.10<br>9.90                 | Aug. 8, 1956<br>June 14, 1973  | T, G           | Irr          | Do.   |
| 828                       | Grover Neeley                     | --                        | --             | --                 | --             | --         | Qal Rg             | 3,617                         | 22.92<br>7.52                 | Aug. 8, 1956<br>June 14, 1973  | T, G           | Irr          | --  |
| 829                       | W. A. Rawls Ranch                 | --                        | --             | 140                | 18             | --         | Qal Rg             | 3,605                         | 28.29<br>10.28                | Aug. 10, 1956<br>June 14, 1973 | T, G           | Irr          | Pump set at 80 ft. Estimated yield 900 gpm. <i>ly</i>   |
| 830                       | Fabens Production, Inc.           | Bill Mize                 | 1955           | 165                | 18             | 165        | Qal Rg             | 3,603                         | 11.85                         | Nov. 26, 1973                  | T, G           | Irr          | Slotted from 35-165 ft. Pump set at 100 ft. Yield 1,600 gpm. <i>ly</i>                          |
| 831                       | do                                | Morrison Drilling Company | 1951           | 195                | 16             | 120        | Qal Rg             | 3,605                         | --                            | --                             | T, G           | Irr          | Slotted from 60-120 ft. Pump set at 70 ft. Yield 1,800 gpm. <i>ly</i>                           |
| 832                       | do                                | -- Daugherty              | 1947           | 125                | 16             | 125        | Qal Rg             | 3,605                         | 9.40                          | Nov. 26, 1973                  | T, G           | Irr          | Slotted from 35-125 ft. Yield 1,600 gpm.  |
| 833                       | do                                | do                        | 1947           | 120                | 16             | 120        | Qal Rg             | 3,604                         | --                            | --                             | T, G           | Irr          | Slotted from 25-120 ft. Pump set at 70 ft. Yield 1,800 gpm. <i>ly</i>                           |
| 834                       | do                                | Morrison Drilling Company | 1955           | 190                | 16             | 190        | Qal Rg             | 3,603                         | --                            | --                             | T, G           | Irr          | Slotted from 60-190 ft. Gravel packed. Pump set at 180 ft. Estimated yield 1,600 gpm. <i>ly</i> |
| 835                       | do                                | do                        | 1951           | 160                | 16             | 160        | Qal Rg             | 3,604                         | 7.30                          | Nov. 26, 1973                  | T, G           | Irr          | Slotted from 35-160 ft. Gravel packed. Pump set at 85 ft. <i>ly</i>                             |
| * 836                     | do                                | do                        | 1951           | 210                | 16             | 210        | Qal Rg/<br>Qal 6   | 3,604                         | 28.60                         | Aug. 14, 1956                  | T, G           | Irr          | Slotted from 65-210 ft. Gravel packed. Pump set at 100 ft. Reported yield 1,800 gpm. <i>ly</i>  |
| 837                       | Mike Rancich                      | --                        | --             | 120                | 16             | --         | Qal Rg             | 3,606                         | 17.36<br>8.00                 | do<br>June 15, 1973            | T, G           | Irr          | Pump set at 100 ft. <i>ly</i>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                        | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|---|--------------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |   |                                |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |   |                                |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-31-838              | Fabens Production, Inc.                                   | -- Daugherty                   | 1947           | 105                | 16             | 105        | Qal Rg             | 3,605                         | 9.89                          | Nov. 26, 1973                  | N              | N            | Abandoned. Gravel packed. Slotted from 25-105 ft. <u>4</u>   |
| * 839                     | do  | do                             | 1947           | 105                | 18             | 105        | Qal Rg             | 3,605                         | --                            | --                             | T, G           | Irr          | Slotted from 25-105 ft. <u>4</u>   |
| 840                       | Leisure Valley Farms                                      | --                             | --             | 99                 | 18             | 99         | Qal Rg             | 3,603                         | 9.82                          | June 15, 1973                  | T, G           | Irr          | <u>4</u>   |
| 841                       | Alfred Singh  | --                             | --             | --                 | 18             | --         | Qal Rg             | 3,617                         | 10.19                         | Jan. 18, 1974                  | T, G           | Irr          | --   |
| 842                       | A. R. Miller  | K. C. Wheeler                  | 1963           | 75                 | 16             | 75         | Qal Rg             | 3,619                         | --                            | --                             | T, G           | Irr          | Slotted from 30-75 ft.   |
| 843                       | Hiram Whitaker  | --                             | --             | --                 | 20             | --         | Qal Rg             | 3,610                         | 9.30                          | Feb. 26, 1974                  | T, G           | Irr          | <u>4</u>   |
| 844                       | O. T. Parker  | --                             | --             | --                 | 16             | --         | Qal Rg             | 3,618                         | 9.08                          | do                             | T, Ng          | Irr          | Gravel packed. <u>4</u>  |
| * 845                     | R. E. Bills and J. M. Bills                               | Cecil Ballard                  | --             | --                 | 18             | --         | Qal Rg             | 3,615                         | 10.11                         | do                             | T, G           | Irr          | Gravel packed.   |
| 846                       | do  | -- Schieffer                   | --             | --                 | 16             | 100        | Qal Rg             | 3,610                         | 10.27                         | Feb. 28, 1974                  | T, Ng          | Irr          | Slotted from 40-60 ft. Gravel packed. Pump set at 60 ft. <u>4</u>  |
| * 847                     | do  | do                             | 1970           | 90                 | 16             | 90         | Qal Rg             | 3,615                         | --                            | --                             | N              | Irr          | Not used. Slotted from 54-87 ft. Plugged back from 139 ft to 90 ft. <u>4</u>   |
| 848                       | do  | Cole Drilling                  | 1974           | 169                | 8              | 169        | Qal Rg             | 3,615                         | 8<br>24.45                    | Jan. 11, 1974<br>Feb. 26, 1974 | Sub, E         | Ind          | Slotted from 124-164 ft. <u>4</u>  |
| * 901                     | El Paso County Water Control & Improvement District No. 1 | Layne-Texas Company            | 1957           | 1,616              | 8              | --         | --                 | 3,632                         | --                            | --                             | N              | N            | Test hole. <u>4</u> <u>2</u>   |
| * 902                     | Fabens Water Company                                      | Bud Bean                       | 1939           | 315                | 6              | 315        | Qtal 6             | 3,630                         | 35                            | Jan. 1955                      | T, E           | F            | Perforated from 160-315 ft. Pump set at 120 ft. Performance test: Drawdown of 31 ft pumping 150 gpm.   |
| * 903                     | J. P. Miller Farms, Inc.                                  | --                             | --             | 135                | 18             | --         | Qal Rg             | 3,618                         | 19.96<br>11.10                | Nov. 15, 1956<br>Jan. 11, 1977 | T, G           | Irr          | Pump set at 100 ft. Observation well. <u>4</u> <u>4</u>  |
| 904                       | J. W. Marchbank, Jr.                                      | -- Schieffer                   | 1951           | 200                | 18             | 200        | Qtal 6             | 3,630                         | --                            | --                             | T, G           | Irr          | Slotted from 140-200 ft.   |
| 905                       | Savage Oil Company  | Brown & Ledford                | 1962           | 240                | 6              | 240        | Qtal 6             | 3,754                         | 152.25                        | Jan. 17, 1974                  | N              | D            | Not used. Capped.  |
| 906                       | J. P. Miller Farms, Inc.                                  | --                             | --             | 135                | 18             | 135        | Qtal 6             | 3,625                         | 14.82                         | Jan. 18, 1974                  | T, G           | Irr          | Perforated from 75-135 ft. <u>4</u>  |
| 907                       | Valley Compress   | --                             | --             | --                 | --             | --         | Qal Rg             | 3,615                         | --                            | --                             | T, G           | Irr          | <u>4</u>   |
| 908                       | Fabens Water Company                                      | Big "J" Machine & Supply, Inc. | 1973           | 353                | 20<br>12-3/4   | 142<br>353 | Qtal 6             | 3,635                         | 58.00                         | Aug. 8, 1973                   | T, E           | P            | Slotted from 176-343 ft. Gravel packed. Plugged back from 515 ft to 353 ft. Pump set at 160 ft. Reported yield 800 gpm. Performance test: Drawdown of 37 ft pumping 800 gpm on Oct. 23, 1973. <u>4</u> |
| 909                       | Andres Dominguez  | --                             | --             | 110                | 18             | --         | Qtal 6             | 3,635                         | 29.07                         | Feb. 22, 1974                  | T              | Irr          | --   |
| * 910                     | Fabens Water Company                                      | Bud Bean                       | 1942           | 310                | 10             | 310        | Qtal 6             | 3,630                         | 34                            | Jan. 1955                      | T, E           | F            | Pump set at 120 ft. Deepened from 218-310 ft.  |
| * 911                     | do  | do                             | 1939           | 315                | 6              | 315        | Qtal 6             | 3,630                         | 35                            | do                             | T, E           | F            | Perforated from 190-315 ft. Pump set at 120 ft. Performance test: Drawdown of 31 ft pumping 150 gpm.   |
| 912                       | Fabens Independent School District                        | --                             | 1950           | 150                | 6              | 150        | Qtal 6             | 3,630                         | --                            | --                             | T, E           | Irr          | --   |
| 913                       | Francisco Vilorio   | --                             | 1955           | 90                 | 12             | --         | Qtal 6             | 3,630                         | --                            | --                             | T, R           | Irr          | --   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner  | Driller                  | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water Level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|--|--------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |  |                          |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |  |                          |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| * JL-49-31-914            | Fabens Independent School District                     | Ted Gardea               | 1970           | 90                 | 6              | 90         | Qcal 6             | 3,615                         | --                            | --                             | N              | N            | Not used.   |
| 32-101                    | S. O. Roberts  | --                       | 1937           | 450                | 7              | --         | Qcal 6             | 4,010                         | 384.53<br>384.50              | Feb. 3, 1954<br>Sept. 4, 1956  | W              | S            | Abandoned.  |
| 102                       | Borders-Winterborn Well 1                              | Mobil Oil Company        | --             | 1,637              | --             | --         | --                 | 4,050                         | --                            | --                             | N              | N            | Oil test. <u>2</u>  |
| * 301                     | Sam Orr  | --                       | 1915           | 643                | 8<br>6         | 500<br>638 | Qcal 6             | 4,028                         | 399.97<br>401.7               | Apr. 2, 1936<br>Feb. 8, 1954   | W              | S            | Reported yield 10 gpm.  |
| * 501                     | do   | --                       | 1946           | 521                | 8              | --         | Qcal 6             | 4,012                         | 450<br>397.60                 | Feb. 8, 1954<br>Jan. 17, 1973  | W              | S            | --  |
| 502                       | Continental Overseas Well 1                            | Layne-Texas Company      | 1971           | 1,000              | 8              | --         | Qcal 6             | 3,860                         | --                            | --                             | N              | N            | Abandoned. <u>1</u>   |
| 503                       | Continental Overseas Well 2                            | --                       | --             | 508                | 4              | 508        | Qcal 6             | 3,860                         | --                            | --                             | Sub, E         | D, S, P      | Gravel packed.  |
| * 504                     | Continental Overseas Well 3                            | Layne-Texas Company      | 1971           | 1,073              | 8-5/8          | 869        | Qcal 6             | 3,880                         | 310                           | Nov. 15, 1971                  | T, E           | --           | Open hole from 869-1,073 ft. Performance test: Drawdown of 47 ft pumping 220 gpm. <u>1</u>  |
| * 505                     | Continental Overseas Well 4                            | do                       | 1971           | 1,305              | 16             | 900        | Qcal 6             | 3,860                         | 310                           | do                             | T, E           | --           | Used to fill lake and wet down roads. Open hole from 900-1,305 ft. Gravel packed. Performance test: Drawdown of 98 ft pumping 1,084 gpm. <u>1/2</u> |
| 701                       | Texas Department of Highways and Public Transportation | Texas Highway Department | 1963           | 240                | 4-1/2          | 198        | Qcal 6             | 3,748                         | 159                           | Jan. 15, 1963                  | N              | Ind          | Not used. Slotted from 198-240 ft. Gravel packed. Reported yield 10 gpm. <u>1</u>   |
| 702                       | S. O. Roberts  | --                       | --             | 241                | 5-1/2          | --         | Qcal 6             | 3,790                         | 162.46                        | July 11, 1936                  | N              | N            | Not used.   |
| * 703                     | Texas Department of Highways and Public Transportation | Brown & Bedford          | 1966           | 250                | 6-5/8          | 230        | Qcal 6             | 3,770                         | 184                           | June 7, 1966                   | N              | N            | Not used. Screen from 230-242 ft. <u>1</u>  |
| 704                       | do   | Texas Highway Department | 1967           | 273                | 6-5/8<br>4-1/2 | 167<br>273 | Qcal 6             | 3,748                         | 159                           | May 31, 1967                   | N              | N            | Not used. Slotted from 167-273 ft. <u>1</u>   |
| * 705                     | do   | K. C. Wheeler            | 1967           | 261                | 6-5/8          | 261        | Qcal 6             | 3,770                         | 183                           | June 22, 1967                  | Sub, E         | P            | Slotted from 226-250 ft. Gravel packed. Pump set at 212 ft. Reported yield 40 gpm. <u>1</u>   |
| * 706                     | do   | do                       | 1967           | 253                | 6-5/8          | 253        | Qcal 6             | 3,748                         | 160                           | July 11, 1967                  | Sub, E         | P            | Slotted from 218-243 ft. Gravel packed. Reported yield 40 gpm. <u>1</u>   |
| 901                       | Myatt Hedrick  | --                       | --             | 420                | 7              | --         | Qcal 6             | 3,981                         | 329.06<br>356.21              | May 7, 1952<br>Sept. 4, 1956   | W              | N            | Not used.   |
| 39-101                    | W. A. Rawls Ranch                                      | --                       | --             | 160                | 18             | 160        | Qal Rg             | 3,617                         | 12.41<br>24.44                | Mar. 9, 1953<br>Jan. 27, 1969  | T, G           | Irr          | Gravel packed. Pump set at 80 ft. Reported yield 900 gpm. Historical observation well. <u>3/4</u>   |
| * 102                     | Claude Davis   | Payne & Ballard          | 1953           | 125                | 18             | 125        | Qal Rg             | 3,616                         | 27.93<br>11.05                | Nov. 12, 1956<br>Jan. 11, 1977 | T, G           | Irr          | Gravel packed. Pump set at 110 ft. Reported yield 1,200 gpm. Observation well. <u>1/3/4</u>   |
| 103                       | W. A. Rawls Ranch                                      | Miller Drilling Company  | 1952           | 154                | 18             | 140        | Qal Rg             | 3,615                         | --                            | --                             | T, G           | Irr          | Perforated 50-140 ft. Pump set at 80 ft. Estimated yield 1,700 gpm. <u>1/4</u>  |
| 104                       | Claude Davis   | Payne & Ballard          | 1953           | 125                | 18             | 125        | Qal Rg             | 3,614                         | 22.50<br>8.52                 | Nov. 12, 1956<br>Oct. 24, 1973 | T, G           | Irr          | Pump set at 110 ft. Estimated yield 2,000 gpm. <u>1/4</u>   |
| 105                       | Hector Flores  | --                       | --             | 64                 | 16             | 64         | Qal Rg             | 3,616                         | --                            | --                             | Cf             | Irr          | Pump set at 60 ft. <u>4</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                           | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|---------------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                                 |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                                 |                            |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-39-106              | Claude Davis                    | Payne & Ballard            | 1953           | 132                | 18             | 125        | Qal Rg             | 3,614                         | 27.09<br>7.85                 | Aug. 10, 1956<br>Oct. 24, 1973 | T, C           | Irr          | Pump set at 110 ft. Estimated yield 2,000 gpm. <i>ly ly</i>  |
| 107                       | Salvador Flores                 | --                         | --             | 64                 | 16             | 64         | Qal Rg             | 3,611                         | 15.88                         | Nov. 12, 1956                  | N              | N            | Destroyed. <i>ly</i>   |
| 108                       | Orr Farms, Inc.                 | --                         | --             | --                 | 20             | --         | Qal Rg             | 3,617                         | 8.46                          | Feb. 26, 1974                  | T, G           | Irr          | Gravel packed. <i>ly</i>   |
| * 202                     | City of El Paso                 | City of El Paso            | 1957           | 1,647              | 14             | 1,647      | --                 | 3,602                         | + 39.96<br>+ 23.10            | Jan. 14, 1969<br>May 10, 1977  | Flows          | N            | Gravel packed. Plugged back from 1,783 ft to 1,647 ft. Yield: flows 530 gpm. Observation well. <i>ly ly ly</i> |
| 203                       | U.S. Bureau of Reclamation      | U.S. Bureau of Reclamation | 1952           | 25                 | 2              | 23         | Qal Rg             | 3,606                         | 9.2<br>7.6                    | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.  |
| w 204                     | Paul and Lillian Thomas         | --                         | --             | 90                 | 16             | 90         | Qal Rg             | 3,605                         | 9.24<br>6.36                  | Mar. 10, 1953<br>Jan. 12, 1977 | T, G           | Irr          | Gravel packed. Pump set at 80 ft. Observation well. <i>ly ly</i>   |
| w 205                     | Leisure Valley Farms            | --                         | --             | 156                | 18             | 156        | Qal Rg             | 3,609                         | 19.06<br>5.09                 | Aug. 15, 1956<br>Oct. 25, 1973 | T              | Irr          | Gravel packed. Pump set at 120 ft. <i>ly</i>   |
| 206                       | J. L. Daffron                   | --                         | --             | 66                 | 18             | 66         | Qal Rg             | 3,606                         | 14.5<br>5.75                  | Nov. 12, 1956<br>Oct. 25, 1973 | N              | Irr          | Not used. Capped with metal plate. <i>ly</i>   |
| * 207                     | City of El Paso                 | City of El Paso            | 1959           | 1,909              | 6              | --         | --                 | 3,608                         | --                            | --                             | N              | N            | Abandoned. Test hole. <i>ly</i>  |
| w 208                     | do                              | do                         | 1956           | 1,017              | --             | --         | --                 | 3,607                         | --                            | --                             | N              | N            | Test hole. <i>ly ly</i>  |
| w 211                     | George Nancich                  | --                         | --             | 160                | 16             | 140        | Qal Rg             | 3,600                         | 7.37                          | Oct. 25, 1973                  | T, G           | Irr          | Pump set at 120 ft. <i>ly</i>  |
| 212                       | Mike Maros and Steve Marasovich | --                         | --             | --                 | --             | --         | Qal Rg             | 3,602                         | 10.22                         | June 15, 1973                  | T, G           | Irr          | <i>ly</i>  |
| 213                       | George Nancich                  | --                         | --             | 140                | 16             | 140        | Qal Rg             | 3,610                         | 9.39                          | Oct. 25, 1973                  | T, G           | Irr          | Not used. Pump set at 125 ft. <i>ly</i>  |
| w 214                     | Mrs. Jessie Romney              | --                         | --             | 84                 | 18             | 84         | Qal Rg             | 3,607                         | 14.88<br>7.59                 | Aug. 15, 1956<br>Oct. 25, 1973 | T, G           | Irr          | Not used. <i>ly</i>  |
| 215                       | Mike Maros                      | Morrison Drilling Company  | 1951           | 180                | 16             | 180        | Qal Rg             | 3,611                         | 9.29                          | Oct. 26, 1973                  | T, G           | Irr          | Perforated from 35-180 ft. Pump set at 100 ft. Estimated yield 1,800 gpm. <i>ly</i>                            |
| w 216                     | do                              | do                         | 1952           | 185                | 18             | 185        | Qal Rg             | 3,611                         | 8.85                          | do                             | N              | N            | Abandoned. Perforated from 35-185 ft. Gravel packed. Estimated yield 1,800 gpm. Temp. 67°F on Sept. 3, 1956.   |
| 217                       | do                              | do                         | 1951           | 190                | 18             | 190        | Qal Rg             | 3,612                         | 23.70<br>9.79                 | Aug. 13, 1956<br>Oct. 26, 1973 | N              | N            | Abandoned. Perforated from 35-190 ft. <i>ly</i>  |
| 218                       | Fabens Production, Inc.         | Payne & Ballard            | 1952           | 135                | 16             | 135        | Qal Rg             | 3,615                         | 13.28<br>17.44                | Mar. 9, 1953<br>Dec. 28, 1966  | N              | N            | Destroyed. Perforated from 35-135 ft. Estimated yield 2,000 gpm. Historical observation well. <i>ly ly</i>     |
| 219                       | Orr Farms, Inc.                 | --                         | --             | 71                 | 18             | 71         | Qal Rg             | 3,617                         | 9.62                          | Oct. 26, 1973                  | T, C           | Irr          | Pump set at 60 ft. <i>ly</i>   |
| 220                       | do                              | --                         | --             | 95                 | 16             | 95         | Qal Rg             | 3,616                         | 7.83                          | do                             | T, C           | Irr          | Pump set at 90 ft. <i>ly</i>   |
| 221                       | Salvador Flores                 | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,614                         | 31.22<br>8.44                 | Aug. 10, 1956<br>Oct. 26, 1973 | T, G           | Irr          | <i>ly</i>  |
| * 222                     | City of El Paso                 | Miller Brothers            | 1951           | 120                | 18             | 120        | Qal Rg             | 3,613                         | 29.13<br>22.6                 | Aug. 10, 1956<br>Nov. 26, 1957 | T, C           | Irr          | Pump set at 90 ft. Estimated yield 2,000 gpm. <i>ly</i>  |
| 223                       | do                              | do                         | 1951           | 120                | 18             | 120        | Qal Rg             | 3,611                         | 25.0<br>20.9                  | Nov. 12, 1956<br>Nov. 26, 1957 | N              | N            | Destroyed. Estimated yield 2,400 gpm. <i>ly</i>  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                      | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|----------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                            |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                            |                            |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| JL-49-39-224              | F. L. Madrid, Sr.          | --                         | --             | 86                 | 16             | 86         | Qal Rg             | 3,611                         | --                            | --                             | T, G           | Irr          | Pump set at 75 ft. <u>4</u>   |
| * 225                     | City of El Paso            | --                         | --             | 140                | 18             | 140        | Qal Rg             | 3,609                         | 18.94<br>6.36                 | Nov. 26, 1957<br>Oct. 26, 1973 | N              | Irr          | Not used. Capped with metal plate. Temp. 67°F on Aug. 6, 1956. <u>4</u>   |
| 226                       | W. A. Rawls Ranch          | --                         | --             | 140                | 18             | 140        | Qal Rg             | 3,611                         | 34.60<br>8.09                 | Aug. 10, 1956<br>Oct. 26, 1973 | T, G           | Irr          | Pump set at 80 ft. Estimated yield 2,000 gpm. <u>4</u>  |
| 227                       | do                         | Miller Drilling Company    | 1952           | 156                | 18             | 140        | Qal Rg             | 3,611                         | 32.85                         | Aug. 10, 1956                  | N              | N            | Destroyed. Slotted from 50-140 ft. Pump set at 80 ft. Estimated yield 1,700 gpm. <u>1</u> <u>4</u>  |
| 228                       | U.S. Bureau of Reclamation | U.S. Bureau of Reclamation | 1952           | 22                 | 2              | 23         | Qal Rg             | 3,609                         | 10.2<br>6.8                   | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.   |
| 229                       | Rose Porter                | --                         | --             | 73                 | 16             | 73         | Qal Rg             | 3,609                         | 12.45<br>8.90                 | Mar. 10, 1953<br>Oct. 26, 1973 | T, E           | Irr          | Pump set at 70 ft. <u>4</u>   |
| 230                       | Leo R. Schuster, Jr.       | --                         | --             | 81                 | 18             | --         | Qal Rg             | 3,600                         | 12.32<br>5.07                 | Aug. 16, 1956<br>Oct. 26, 1973 | T              | Irr          | Pump set at 65 ft. <u>1</u> <u>4</u>  |
| 231                       | Leisure Valley Farms       | --                         | --             | 130                | 18             | 130        | Qal Rg             | 3,597                         | 11.02<br>5.70                 | Nov. 12, 1956<br>Jan. 12, 1977 | T, G           | Irr          | Pump set at 80 ft. Observation well. <u>3</u> <u>4</u>  |
| 232                       | do                         | --                         | --             | --                 | 20             | --         | Qal Rg             | 3,599                         | 5.00                          | Oct. 26, 1973                  | T              | Irr          | Gravel packed.  |
| 233                       | J. H. Marchbanks           | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,600                         | 6.95                          | Nov. 27, 1973                  | T, G           | Irr          | Gravel packed.  |
| 234                       | George Nancich             | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,600                         | --                            | --                             | N              | Irr          | Not used.   |
| 235                       | Fabens Production, Inc.    | Bill Mize                  | 1955           | 115                | 18             | 115        | Qal Rg             | 3,611                         | 9.05                          | Nov. 26, 1973                  | T, G           | Irr          | Slotted from 35-115 ft. Gravel packed. <u>4</u>   |
| 302                       | Leisure Valley Farms       | Morrison Drilling Company  | 1949           | 168                | 18             | 168        | Qal Rg             | 3,605                         | --                            | --                             | T, Ng          | Irr          | Perforated from 40-148 ft. Pump set at 100 ft. Estimated yield 1,400 gpm. <u>1</u> <u>4</u>   |
| * 303                     | Fabens Water Company       | Layne-Texas Company        | 1941           | 328                | 10             | 328        | Qtal 6             | 3,620                         | 32                            | Jan. 1955                      | T, E           | P            | Perforated from 289-328 ft. Pump set at 174 ft. Performance test: Drawdown of 88 ft pumping 225 gpm on Sept. 1944. <u>1</u>               |
| * 304                     | do                         | do                         | 1943           | 350                | 12<br>10       | 250<br>350 | Qtal 6             | 3,620                         | 32                            | Jan. 1955                      | T, E           | P            | Perforated from 264-286 and 321-343 ft. Pump set at 174 ft. Performance test: Drawdown of 60 ft pumping 150 gpm in 1943. <u>1</u>         |
| 307                       | Leisure Valley Farms       | Payne & Ballard            | 1954           | 149                | 18             | 149        | Qal Rg             | 3,605                         | --                            | --                             | T, G           | Irr          | Perforated from 40-149 ft. Pump set at 100 ft. Estimated yield 1,800 gpm. <u>4</u>  |
| * 308                     | Lutich Farms, Inc.         | Miller Drilling Company    | 1951           | 169                | 16             | 169        | Qal Rg             | 3,603                         | 11.05                         | Nov. 18, 1973                  | T, G           | Irr          | Perforated from 40-169 ft. Flugged back from 200 ft to 169 ft. Pump set at 140 ft. Estimated yield 1,740 gpm. <u>1</u> <u>4</u>           |
| 309                       | Brady, Leitz & Coldwell    | --                         | --             | 164                | 18             | 164        | Qal Rg             | 3,605                         | 23.04<br>9.95                 | Nov. 13, 1956<br>Nov. 16, 1973 | T, Ng          | Irr          | Pump set at 90 ft. <u>4</u>   |
| 310                       | R. F. Cook                 | Morrison Drilling Company  | 1951           | 175                | 18             | 175        | Qal Rg             | 3,598                         | 29.05                         | Aug. 6, 1956                   | T, G           | Irr          | Perforated from 20-175 ft. Pump set at 150 ft. <u>1</u> <u>4</u>  |
| * 311                     | do                         | Payne & Ballard            | 1956           | 171                | 16             | 171        | Qal Rg             | 3,598                         | 21.82<br>7.32                 | Nov. 13, 1956<br>Jan. 12, 1977 | T, G           | Irr          | Perforated from 51-171 ft. Pump set at 90 ft. Estimated yield 1,500 gpm. Temp. 67°F on Aug. 10, 1956. Observation well. <u>3</u> <u>4</u> |
| 312                       | do                         | --                         | 1938           | 156                | 2              | 156        | Qtal 6             | 3,600                         | --                            | --                             | J, E           | D            | Pump set at 20 ft.  |
| * 313                     | do                         | Fred Clifford              | 1951           | 194                | 6              | 194        | Qal Rg             | 3,598                         | 23.10<br>19.8                 | Aug. 6, 1956<br>Nov. 27, 1957  | J, E           | D            | Screen from 173-194 ft. Pump set at 60 ft. <u>1</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                         | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|-------------------------------|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                               |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                               |                           |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| JL-49-19-314              | R. F. Cook                    | --                        | 1934           | 153                | 2              | 153        | Qal Rg             | 3,598                         | 25                            | July 7, 1956                   | J, E           | I            | Pump set at 29 ft.  |
| * 315                     | Ectu Mae Shultz               | Miller Brothers           | 1951           | 200                | 18             | 200        | Qal Rg             | 3,601                         | 8.65                          | Nov. 29, 1973                  | T, G           | Irr          | Slotted from 30-200 ft. Pump set at 130 ft. Temp. 65°F on Aug. 31, 1956. <u>4</u>                               |
| 316                       | Ludich Farms, Inc.            | --                        | --             | 197                | 18             | 197        | Qal Rg             | 3,604                         | 37.00<br>10.14                | Aug. 3, 1956<br>Nov. 16, 1973  | T, G           | Irr          | Pump set at 120 ft. <u>4</u>  |
| * 317                     | do                            | --                        | --             | 217                | 18             | 217        | Qtal G             | 3,604                         | 9.45                          | do                             | T, G           | Irr          | Gravel packed. Pump set at 100 ft. <u>4</u>   |
| * 318                     | Gail Surratt                  | -- Stacey                 | 1954           | 204                | 18             | 204        | Qal Rg             | 3,603                         | 33.55<br>9.02                 | Aug. 3, 1956<br>Nov. 16, 1973  | T, G           | Irr          | Pump set at 110 ft. <u>4</u>  |
| * 319                     | Karl Eads, et al.             | Miller Drilling Company   | 1951           | 160                | 18             | 160        | Qal Rg             | 3,601                         | 36.00<br>10.13                | Aug. 21, 1956<br>Nov. 19, 1973 | T, G           | Irr          | Plugged back from 205 ft to 160 ft. Pump set at 100 ft. <u>1/4</u>  |
| 320                       | do                            | do                        | 1952           | 170                | 18             | 170        | Qal Rg             | 3,601                         | 37.59<br>10.34                | Aug. 21, 1956<br>Nov. 19, 1973 | T, G           | Irr          | Pump set at 110 ft. <u>4</u>  |
| 321                       | J. N. Wadsworth Estate        | --                        | --             | 179                | 18             | 179        | Qal Rg             | 3,600                         | 23.20<br>7.11                 | Aug. 37, 1956<br>Nov. 29, 1973 | T, G           | Irr          | Pump set at 110 ft. Temp. 68°F on Aug. 10, 1956. Observation well. <u>3/4</u>                                   |
| * 322                     | C. J. Milner                  | Bill Mize                 | 1952           | 192                | 18             | 192        | Qal Rg             | 3,597                         | 7.93                          | do                             | T, G           | Irr          | Perforated from 50-192 ft. Pump set at 130 ft. Estimated yield 2,250 gpm. Temp. 66°F on Sept. 5, 1956. <u>4</u> |
| 323                       | R. T. Hoover, Jr., et al.     | --                        | --             | 193                | 20             | 193        | Qal Rg             | 3,597                         | 8.85                          | Nov. 20, 1973                  | T, G           | Irr          | Pump set at 110 ft. <u>4</u>  |
| 324                       | J. N. and R. T. Hoover        | --                        | --             | 180                | 18             | 180        | Qal Rg             | 3,597                         | 7.61                          | do                             | T, G           | Irr          | Do.   |
| 325                       | Barbara A. Blam Ward          | --                        | --             | 195                | 18             | 195        | Qal Rg             | 3,601                         | 7.68                          | Nov. 29, 1973                  | T, G           | Irr          | Pump set at 120 ft. <u>4</u>  |
| 326                       | Pago Pecan Farms              | --                        | --             | 250                | 18             | 250        | Qal Rg/<br>Qtal G  | 3,598                         | --                            | --                             | T, G           | Irr          | Pump set at 140 ft. <u>4</u>  |
| 327                       | Gail Surratt                  | --                        | 1951           | 168                | 18             | 168        | Qal Rg             | 3,602                         | --                            | --                             | T, E           | Irr          | Pump set at 110 ft. <u>4</u>  |
| * 328                     | Len R. Schuster, Jr.          | Miller Drilling Company   | 1952           | 176                | 18             | 176        | Qal Rg             | 3,598                         | 34.70<br>6.44                 | Aug. 3, 1956<br>Jan. 12, 1977  | T, G           | Irr          | Perforated from 40-176 ft. Pump set at 110 ft. Estimated yield 2,300 gpm. Observation well. <u>3/4</u>          |
| * 329                     | do                            | Payne & Ballard           | 1951           | 153                | 18             | 153        | Qal Rg             | 3,598                         | 31.86<br>7.65                 | Aug. 3, 1956<br>Nov. 19, 1973  | T, G           | Irr          | Perforated from 40-153 ft. Pump set at 90 ft. Estimated yield 2,300 gpm. <u>4</u>                               |
| 330                       | Jesus and Esther J. Cervantes | --                        | --             | 16                 | --             | --         | Qal Rg             | 3,599                         | 7.13                          | do                             | T, G           | Irr          | <u>4</u>  |
| * 331                     | W. M. Hoover                  | Payne & Ballard           | 1950           | 114                | 18             | 114        | Qal Rg             | 3,597                         | 17.06<br>7.10                 | Aug. 15, 1956<br>Nov. 19, 1973 | N              | Irr          | Not used. Temp. 66°F on Sept. 5, 1956. <u>4</u>   |
| * 332                     | Leisure Valley Farms          | Morrison Drilling Company | 1950           | 147                | 18             | 147        | Qal Rg             | 3,598                         | --                            | --                             | T, G           | Irr          | Perforated from 40-147 ft. Pump set at 100 ft. Estimated yield 1,800 gpm. <u>1/4</u>                            |
| * 333                     | do                            | do                        | 1938           | 147                | 18             | 147        | Qal Rg             | 3,597                         | --                            | --                             | T, G           | Irr          | Perforated from 40-147 ft. Pump set at 70 ft. Estimated yield 1,600 gpm. Temp. 66°F on Sept. 5, 1956. <u>4</u>  |
| * 334                     | R. T. Hoover                  | --                        | --             | 187                | 20             | 187        | Qal Rg             | 3,594                         | 10.42<br>8.28                 | Mar. 9, 1953<br>Jan. 12, 1977  | T              | Irr          | Pump set at 110 ft. Yield 1,125 gpm on Aug. 24, 1972. Temp. 66°F on Aug. 31, 1956. Observation well. <u>3</u>   |
| 335                       | R. T. Hoover, et al.          | --                        | --             | 182                | 20             | 182        | Qal Rg             | 3,599                         | 7.78                          | Nov. 20, 1973                  | T, G           | Irr          | Pump set at 110 ft. <u>4</u>  |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                      | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|----------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                            |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                            |                            |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-39-336              | George B. Spence           | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,594                         | 6.34                          | do                             | T              | Irr          | 4/   |
| 337                       | Leo Wilson                 | --                         | --             | --                 | --             | --         | Qal Rg             | 3,598                         | 7.90                          | Nov. 19, 1973                  | T, E           | Irr          | 4/   |
| 338                       | Gail Surratt               | -- Schieffer               | 1962           | --                 | 18             | --         | Qal Rg             | 3,602                         | 9.93                          | do                             | T, G           | Irr          | 4/   |
| 339                       | George Cook                | Cecil Ballard              | 1972           | 202                | 16             | 202        | Qal Rg             | 3,601                         | 12                            | Nov. 11, 1972                  | T, G           | Irr          | Perforated from 60-202 ft. Gravel packed. 1/   |
| 340                       | D. Billa                   | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,601                         | 10.46                         | Nov. 29, 1973                  | T, G           | Irr          | --   |
| 341                       | J. H. Marchbanks           | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,601                         | 8.45                          | do                             | T, G           | Irr          | --   |
| 342                       | Bernard Spence             | Payne & Ballard            | 1952           | 88                 | 18             | 88         | Qal Rg             | 3,594                         | 22.15                         | Aug. 15, 1956                  | T, E           | Irr          | Perforated from 15-88 ft. Reported yield 1,900 gpm. 4/   |
| 343                       | Mike and Mary Maros        | Morrison Drilling Company  | 1951           | 200                | 18             | 200        | Qal Rg             | 3,604                         | 9.07                          | Nov. 16, 1973                  | T, G           | Irr          | Perforated from 35-200 ft. Pump set at 100 ft. Estimated yield 1,800 gpm. 4/                           |
| * 344                     | Horizon Land Corporation   | K. C. Wheeler              | 1961           | 418                | --             | --         | --                 | 3,630                         | --                            | --                             | N              | N            | Abandoned test hole. Estimated yield 1,000 gpm. 2/   |
| * 345                     | do                         | do                         | 1961           | 495                | --             | --         | --                 | 3,625                         | --                            | --                             | N              | N            | Abandoned test hole. 2/  |
| * 346                     | do                         | do                         | 1970           | 562                | --             | --         | --                 | 3,590                         | --                            | --                             | N              | N            | Abandoned test hole. 1/ 2/   |
| 347                       | Sun Valley Hydroponics     | Ted Gardea                 | 1973           | 65                 | 3<br>2         | 56<br>65   | Qal Rg             | 3,595                         | --                            | --                             | J, E           | Ind          | Slotted from 56-65 ft. Plugged back from 232 ft to 65 ft. Pump set at 50 ft. Reported yield 28 gpm. 1/ |
| 501                       | Leisure Valley Farms       | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,599                         | 6.26                          | Nov. 27, 1973                  | T              | Irr          | Not used. 4/   |
| 601                       | Mary Segulia Estate        | --                         | 1952           | 115                | 18             | 115        | Qal Rg             | 3,592                         | 7.77<br>5.28                  | Mar. 10, 1953<br>Jan. 12, 1977 | T, G           | Irr          | Pump set at 89 ft. Observation well. 3/ 4/   |
| 602                       | Lettunich Farms, Inc.      | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,589                         | 9.26<br>9.69                  | Mar. 8, 1967<br>Jan. 12, 1977  | T, G           | Irr          | Observation well. 3/ 4/  |
| 603                       | U.S. Bureau of Reclamation | U.S. Bureau of Reclamation | 1952           | 25                 | 2              | 23         | Qal Rg             | 3,596                         | 9.7<br>7.5                    | Aug. 27, 1956<br>Dec. 1976     | N              | N            | Observation well.  |
| 604                       | Margaret Stinett           | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,594                         | 7.20                          | Nov. 27, 1973                  | T, G           | Irr          | 4/   |
| 605                       | J. Vasquez Farms, Inc.     | --                         | --             | 84                 | 16             | 84         | Qal Rg             | 3,593                         | 13.92<br>6.23                 | Nov. 12, 1956<br>Jan. 12, 1977 | T, G           | Irr          | Observation well. 3/ 4/  |
| 606                       | Lettunich Farms, Inc.      | --                         | --             | 110                | 18             | --         | Qal Rg             | 3,594                         | 7.55                          | Nov. 27, 1973                  | T              | Irr          | 4/   |
| 607                       | J. Vasquez Farms, Inc.     | --                         | --             | 60                 | 14             | --         | Qal Rg             | 3,593                         | --                            | --                             | N              | Irr          | Destroyed. 4/  |
| 608                       | Gene Strachan              | --                         | --             | 80                 | 12             | 80         | Qal Rg             | 3,597                         | 9.17                          | Nov. 26, 1973                  | N              | Irr          | Not used. 4/   |
| 609                       | George Wilson, Jr.         | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,598                         | 7.30                          | Nov. 27, 1973                  | T, G           | Irr          | 4/   |
| 610                       | do                         | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,598                         | 7.30                          | do                             | T, G           | Irr          | --   |
| 611                       | J. H. Marchbanks           | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,597                         | 5.84                          | Oct. 26, 1973                  | T, G           | Irr          | 4/   |
| 612                       | do                         | Cecil Ballard              | 1972           | 110                | 16             | 100        | Qal Rg             | 3,592                         | 10.0<br>7.41                  | Oct. 20, 1972<br>May 10, 1977  | T, G           | Irr          | Observation well. 1/ 3/  |
| 613                       | Lettunich Farms, Inc.      | --                         | --             | --                 | 16             | --         | Qal Rg             | 3,594                         | 8.26                          | Nov. 27, 1973                  | T, G           | Irr          | --   |
| 614                       | do                         | --                         | --             | --                 | 18             | --         | Qal Rg             | 3,594                         | 7.61                          | July 27, 1973                  | N              | Irr          | 4/   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                         | Driller                       | Date completed | Depth of well (ft) | Casing         |                   | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|---------------------------|-------------------------------|-------------------------------|----------------|--------------------|----------------|-------------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                           |                               |                               |                |                    | Diameter (in.) | Depth (ft)        |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| El Paso County--Continued |                               |                               |                |                    |                |                   |                    |                               |                               |                                |                |              |   |
| JL-49-39-615              | Lettunich Farms, Inc.         | --                            | --             | --                 | 18             | --                | Qal Rg             | 3,588                         | 8.61                          | Nov. 27, 1973                  | N              | Irr          | 4/  |
| 616                       | do                            | --                            | --             | --                 | 16             | --                | Qal Rg             | 3,592                         | 7.70                          | Nov. 28, 1973                  | T, G           | Irr          | 4/  |
| 617                       | Etta Mae Shultz               | --                            | --             | 90                 | 16             | 90                | Qal Rg             | 3,595                         | 10.60                         | Oct. 25, 1973                  | T, G           | Irr          | Gravel packed. 4/   |
| 618                       | W. D. Pruitt, Jr.             | --                            | --             | 105                | 16             | 105               | Qal Rg             | 3,592                         | 6.63                          | Nov. 26, 1973                  | T, G           | Irr          | 4/  |
| 40-101                    | George Eads                   | Morrison Drilling Company     | 1951           | 204                | 18             | 204               | Qtal 6             | 3,611                         | 34.1                          | Nov. 13, 1956                  | T, G           | Irr          | Slotted from 30-204 ft. Pump set at 120 ft. Estimated yield 1,900 gpm. 4/   |
| * 102                     | J. H. Marchbanks, Jr.         | Bill Misc                     | 1953           | 198                | 16             | 198               | Qtal 6             | 3,600                         | 29.8<br>27.8                  | Aug. 17, 1956<br>Nov. 27, 1957 | T, G           | Irr          | Slotted from 50-198 ft. Pump set at 150 ft. Temp. 69°F on Oct. 25, 1973. 4/   |
| 103                       | U.S. Bureau of Reclamation    | U.S. Bureau of Reclamation    | 1952           | 25                 | 2              | 25                | Qal Rg             | 3,591                         | 9.8<br>9.4                    | Nov. 17, 1952<br>Dec. 1976     | N              | N            | Observation well.   |
| * 104                     | H. D. Zachry                  | Wheeler Cass                  | 1959           | 400                | 12             | 400               | Qtal 6             | 3,790                         | 211.40<br>289.34              | Sept. 2, 1960<br>Jan. 12, 1977 | N              | N            | Not used. Slotted from 300-400 ft. Estimated yield 700 gpm; Observation well. 3/  |
| * 105                     | Horizon Land Corporation      | K. C. Wheeler                 | 1970           | 575                | --             | --                | --                 | 3,622                         | --                            | --                             | N              | N            | Test hole. 2/   |
| * 106                     | O. A. Crider Well 1           | Fayne & Ballard               | 1951           | 190                | 18             | 179               | Qal Rg             | 3,592                         | --                            | --                             | J, E           | D, S         | Slotted from 140-179 ft. Gravel packed. Yield 2,000 gpm. 1/ 4/  |
| 107                       | O. A. Crider Well 2           | Malone Drilling               | 1965           | 200                | 18             | 200               | Qal Rg             | 3,592                         | 10.45                         | Oct. 25, 1973                  | T, G           | Irr          | Slotted from 160-200 ft. Gravel packed. Reported yield 2,300 gpm.   |
| 201                       | Humble Oil & Refining Company | Humble Oil & Refining Company | --             | 17,710             | --             | --                | --                 | 3,774                         | --                            | --                             | N              | N            | Oil test. 2/  |
| 402                       | O. T. Smith                   | --                            | 1946           | 240                | 6-5/8          | 240               | Qtal 6             | 3,608                         | 42                            | --                             | N              | N            | Destroyed. Perforated from 220-240 ft. Reported yield 25 gpm.   |
| 403                       | Delphia Rhodes                | Morrison Drilling Company     | 1950           | 152                | 16             | 152               | Qal Rg             | 3,590                         | 22.05<br>9.08                 | Nov. 12, 1956<br>Jan. 12, 1977 | T, G           | Irr          | Slotted from 50-152 ft. Gravel packed. Pump set at 90 ft. Historical observation well. 3/ 4/  |
| 404                       | Jess Burner Cattle Company    | --                            | 1940           | 350                | 12             | 350               | Qtal 6             | 3,618                         | 44.90<br>42.02                | Dec. 28, 1966<br>Oct. 24, 1973 | T, G           | Irr          | Screen from 250-350 ft. Gravel packed. Pump set at 150 ft.  |
| * 405                     | do                            | K. C. Wheeler                 | 1960           | 428                | 10             | 428               | Qtal 6             | 3,624                         | 48.00<br>59.83                | June 1960<br>Jan. 18, 1976     | T, E           | S, Ind       | Perforated from 261-428 ft. Pump set at 180 ft. Reported yield 1,000 gpm. Performance test: Draw-down of 110 ft. Observation well. 3/   |
| 406                       | W. T. Henderson Estate        | Fayne & Ballard               | 1951           | 180                | 18             | 180               | Qal Rg             | 3,585                         | 9.73<br>9.32                  | Mar. 8, 1967<br>Jan. 12, 1977  | T, G           | Irr          | Slotted from 50-180 ft. Pump set at 120 ft. Observation well. 3/  |
| 408                       | Mrs. Kate Henderson           | --                            | --             | 180                | 18             | 180               | Qal Rg             | 3,585                         | 10.13<br>10.17                | Mar. 10, 1953<br>Jan. 12, 1977 | T, G           | Irr          | Slotted from 100-180 ft. Gravel packed. Pump set at 120 ft. Historical observation well. 3/ 4/  |
| 410                       | W. T. Henderson Estate        | Fayne & Ballard               | 1951           | 158                | 16             | 158               | Qal Rg             | 3,585                         | --                            | --                             | T, G           | Irr          | Slotted from 50-158 ft. Gravel packed. Pump set at 90 ft.   |
| 411                       | Coila Mebus Estate            | do                            | 1951           | 138                | 16             | 138               | Qal Rg             | 3,585                         | --                            | --                             | T, G           | Irr          | Slotted from 50-138 ft. Gravel packed. Pump set at 90 ft. 4/  |
| * 412                     | Horizon Land Corporation      | K. C. Wheeler                 | 1961           | 512                | 20<br>16<br>8  | 250<br>430<br>421 | Qtal 6             | 3,634                         | 65.0<br>63.04                 | Apr. 30, 1961<br>Oct. 29, 1973 | N              | F            | Not used. Capped. Slotted 16 in. from 260-430 ft and slotted 8 in. from 271-421 ft. Gravel packed. Estimated yield 1,000 gpm. Performance test: Draw-down of 121 ft pumping 1,000 gpm on Apr. 30, 1961. 1/ 2/ |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                       | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                     | Method of lift | Use of water | Remarks   |
|---------------------------|-----------------------------|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|---------------------|----------------|--------------|---|
|                           |                             |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement |                |              |   |
| El Paso County--Continued |                             |                           |                |                    |                |            |                    |                               |                               |                     |                |              |   |
| JL-49-40-413              | Sleepy Valley, Inc.         | Rayford Guffy             | 1955           | 140                | 18             | 140        | Qal Rg             | 3,587                         | 8.61                          | Oct. 24, 1973       | T, G           | Irr          | Slotted from 40-140 ft. Gravel packed. Pump set at 90 ft. <sup>4</sup> / <sub>1</sub>             |
| 414                       | Hiram Whitaker              | Payne & Ballard           | 1955           | 80                 | 16             | 80         | Qal Rg             | 3,589                         | --                            | --                  | T, G           | Irr          | Slotted from 40-80 ft. Gravel packed. Pump set at 70 ft. <sup>4</sup> / <sub>1</sub>              |
| 415                       | C. Ivey                     | Rayford Guffy             | --             | 80                 | 16             | 80         | Qal Rg             | 3,590                         | 8.36                          | Oct. 24, 1973       | T, G           | Irr          | Do.   |
| * 416                     | Sleepy Valley, Inc.         | Payne & Ballard           | 1956           | 128                | 18             | 128        | Qal Rg             | 3,587                         | 4.59                          | Oct. 25, 1973       | T              | Irr          | Slotted from 50-128 ft. Gravel packed. Pump set at 90 ft. <sup>4</sup> / <sub>1</sub>             |
| 417                       | Delphia Rhodes              | Morrison Drilling Company | 1950           | 178                | 18             | 178        | Qal Rg             | 3,595                         | 9.43                          | do                  | T, G           | Irr          | Slotted from 78-178 ft. Gravel packed. Pump set at 140 ft. <sup>4</sup> / <sub>1</sub>            |
| 418                       | Mary Segulia Estate         | --                        | 1952           | 90                 | 18             | 90         | Qal Rg             | 3,595                         | 8.90                          | do                  | T, G           | Irr          | Slotted from 40-90 ft. Gravel packed. Pump set at 80 ft. <sup>4</sup> / <sub>1</sub>              |
| 419                       | do                          | --                        | --             | 90                 | 18             | 90         | Qal Rg             | 3,590                         | --                            | --                  | T, G           | Irr          | Do.   |
| 420                       | Louise Lovelady Farm, Inc.  | Miller Drilling Company   | 1952           | 135                | 18             | 135        | Qal Rg             | 3,585                         | 7.94                          | Oct. 29, 1973       | T, G           | Irr          | Slotted from 50-135 ft. Gravel packed. Pump set at 96 ft. <sup>4</sup> / <sub>1</sub>             |
| 421                       | do                          | -- Schieffer              | 1951           | 105                | 18             | 105        | Qal Rg             | 3,585                         | 7.05                          | do                  | T, G           | Irr          | Slotted from 50-105 ft. Gravel packed. Pump set at 90 ft. <sup>4</sup> / <sub>1</sub>             |
| 422                       | John Segulia                | Miller Brothers           | 1952           | 135                | 16-5/8         | 135        | Qal Rg             | 3,586                         | 7.77                          | Oct. 25, 1973       | N              | Irr          | Abandoned. <sup>4</sup> / <sub>1</sub>  |
| 423                       | do                          | Bill Mize                 | 1952           | 125                | 18             | 125        | Qal Rg             | 3,585                         | 8.25                          | do                  | T, G           | Irr          | Slotted from 50-125 ft. Gravel packed. Pump set at 70 ft. <sup>4</sup> / <sub>1</sub>             |
| 424                       | do                          | K. C. Wheeler             | 1963           | 100                | 16             | 100        | Qal Rg             | 3,586                         | 7.30                          | do                  | T, G           | Irr          | Slotted from 60-100 ft. Gravel packed. Pump set at 70 ft.   |
| 425                       | Hiram Whitaker              | --                        | 1950           | 90                 | 16             | 90         | Qal Rg             | 3,584                         | 9.85                          | do                  | T, G           | Irr          | Slotted from 40-90 ft. Pump set at 70 ft.   |
| 426                       | do                          | Bill Mize                 | 1951           | 90                 | 14             | 90         | Qal Rg             | 3,584                         | --                            | --                  | T, G           | Irr          | Slotted from 40-90 ft. Gravel packed. Pump set at 80 ft.  |
| 427                       | do                          | do                        | 1951           | 90                 | 14             | 90         | Qal Rg             | 3,584                         | 9.76                          | Oct. 29, 1973       | T, G           | Irr          | Do.   |
| 428                       | L. P. Shafer                | Fred Scroggins            | 1952           | 95                 | 18             | 95         | Qal Rg             | 3,584                         | --                            | --                  | T              | Irr          | Slotted from 50-95 ft. Gravel packed. Pump set at 80 ft. <sup>4</sup> / <sub>1</sub>              |
| 429                       | Mrs. Kate Henderson         | Cecil Ballard             | --             | 180                | 18             | 180        | Qal Rg             | 3,584                         | --                            | --                  | T, G           | Irr          | Slotted from 80-180 ft. Gravel packed. Pump set at 120 ft. <sup>4</sup> / <sub>1</sub>            |
| 430                       | E. E. Davis                 | Bill Mize                 | 1951           | 60                 | 14             | 60         | Qal Rg             | 3,585                         | 10.63                         | Mar. 10, 1953       | T, G           | Irr          | Slotted from 30-60 ft. Gravel packed. Pump set at 55 ft. <sup>4</sup> / <sub>1</sub>              |
| 431                       | L. P. Shafer Well 1         | Fred Scroggins            | 1952           | 105                | 18             | 105        | Qal Rg             | 3,588                         | --                            | --                  | T, G           | Irr          | Slotted from 50-105 ft. Gravel packed. Pump set at 80 ft. <sup>4</sup> / <sub>1</sub>             |
| 432                       | L. P. Shafer Well 2         | do                        | 1952           | 175                | 18             | 175        | Qal Rg             | 3,586                         | --                            | --                  | T, G           | Irr          | Slotted from 75-175 ft. Gravel packed. Pump set at 100 ft. <sup>4</sup> / <sub>1</sub>            |
| 433                       | C. Ivey Well 1              | Rayford Guffy             | 1952           | 280                | 18             | 280        | Qal Rg/<br>Qtal 8  | 3,581                         | 7.99                          | Oct. 30, 1973       | N              | Irr          | Abandoned. Slotted from 30-280 ft. Gravel packed. <sup>4</sup> / <sub>1</sub>                     |
| 434                       | C. Ivey Well 4              | Cecil Ballard             | 1972           | 89                 | 16             | 89         | Qal Rg             | 3,581                         | 12                            | July 1, 1972        | T, G           | Irr          | Slotted from 59-89 ft. Gravel packed. Pump set at 70 ft. <sup>4</sup> / <sub>1</sub>              |
| 435                       | Letunich Farms, Inc. Well 3 | Payne & Ballard           | 1951           | --                 | 18             | 200        | Qal Rg             | 3,580                         | 10.99                         | Oct. 29, 1973       | N              | Irr          | Abandoned. Slotted from 50-200 ft. Gravel packed. Pump set at 175 ft. <sup>4</sup> / <sub>1</sub> |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner          | Driller   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|----------------|---|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |                |   |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |                |   |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-40-436              | C. Ivey Well 2 | Rayford Coffy   | 1953           | 225                | 18             | 225        | Qal Rg/<br>Qtal 6  | 3,581                         | 8.25                          | Oct. 26, 1973                  | T, G           | Irr          | Slotted from 30-225 ft. Gravel packed. Pump set at 120 ft. Estimated yield 1,000 gpm. <i>y</i>             |
| *                         | 502            | Tornillo WSC  | 1965           | 257                | 8              | 257        | Qtal 6             | 3,621                         | 59.0                          | Aug. 1973                      | Sub, E         | P            | Screen from 242-257 ft. Gravel packed. Pump set at 125 ft.   |
| *                         | 503            | O. T. Smith   | 1946           | 420                | 4              | 420        | Qtal 6             | 3,608                         | 42                            | --                             | N              | P            | Destroyed. Perforated from 320-420 ft. Reported yield was 50 gpm.  |
|                           | 504            | G. P. Shafer  | 1963           | 197                | 20             | 197        | Qtal 6             | 3,601                         | 30.02                         | Oct. 24, 1973                  | T, G           | Irr          | Slotted from 60-197 ft. Pump set at 120 ft.  |
|                           | 505            | Lettunich Farms, Inc. Well 4                                    | 1953           | 300                | 14             | 300        | Qtal 6             | 3,653                         | --                            | --                             | T, S           | S, Irr       | Slotted from 100-300 ft. Gravel packed. Pump set at 275 ft.  |
|                           | 506            | C. Ivey   | 1958           | 100                | 3              | 95         | Qtal 6             | 3,605                         | 42                            | Apr. 1958                      | N              | D            | Abandoned. Screen from 95-100 ft. Gravel packed. <i>y</i>  |
|                           | 507            | L. R. Allison Company   | 1950           | 140                | 14             | 140        | Qal Rg             | 3,591                         | 24.03                         | Nov. 2, 1973                   | T, G           | Irr          | Slotted from 100-140 ft. Gravel packed. Pump set at 90 ft. <i>y</i>  |
|                           | 508            | W. D. Surratt   | --             | 180                | 18             | 180        | Qal Rg             | 3,593                         | --                            | --                             | T, G           | Irr          | Slotted from 100-180 ft. Gravel packed. Pump set at 120 ft. Temp. 71°F on Nov. 1, 1973. <i>y</i>           |
|                           | 509            | do  | 1953           | 150                | 18             | 150        | Qal Rg             | 3,593                         | 79.03                         | Nov. 1, 1973                   | T, G           | Irr          | Slotted from 100-150 ft. Gravel packed. Pump set at 100 ft. Temp. 72°F on Nov. 1, 1973. <i>y</i>           |
|                           | 510            | L. R. Allison Company Well 6                                    | 1956           | 200                | 18             | 200        | Qal Rg             | 3,575                         | 5.80                          | Oct. 30, 1973                  | N              | Irr          | Abandoned. Poor quality. Slotted from 100-200 ft. Gravel packed. <i>y</i>                                  |
|                           | 511            | Malone Well   | --             | 2,831+             | --             | --         | --                 | 3,620                         | --                            | --                             | N              | N            | Oil test. <i>y</i>   |
| *                         | 512            | Texas Department of Water Resources--U.S. Bureau of Reclamation | 1976           | 1,018              | --             | --         | Qtal 6             | 3,705                         | 134.50                        | Aug. 12, 1976                  | N              | N            | Test hole. <i>y y</i>  |
| *                         | 513            | George Rancich  | 1976           | 250                | 16             | 85         | Qtal 6             | 3,600                         | --                            | --                             | T, G           | --           | Slotted from 85-250 ft. Pump set at 140 ft. Estimated yield 1,100 gpm on June 1, 1977.                     |
| *                         | 601            | H. D. Zachry  | 1959           | 350                | 12             | 350        | Qtal 6             | 3,790                         | 225.12<br>224.79              | Sept. 2, 1960<br>Jun. 12, 1977 | N              | Ind          | Not used. Slotted from 250-350 ft. Estimated yield 350 gpm on Apr. 6, 1960. Observation well. <i>y</i>     |
| *                         | 602            | 3 Way Cattle Feeders, Inc.                                      | 1963           | 350                | 12             | 350        | Qtal 6             | 3,712                         | 150.79                        | Oct. 26, 1973                  | T, E           | S, Ind, Irr  | Slotted from 250-350 ft. Gravel packed. Pump set at 280 ft.  |
|                           | 603            | do  | 1963           | 350                | 12             | 350        | Qtal 6             | 3,691                         | --                            | --                             | T, E           | S, Ind, Irr  | do.  |
|                           | 701            | Lettunich Farms, Inc. Well 2                                    | 1951           | 200                | 18             | 200        | Qal Rg             | 3,581                         | 10.84<br>7.74                 | Mar. 8, 1967<br>May 10, 1977   | T, G           | Irr          | Slotted from 50-200 ft. Pump set at 175 ft. Observation well. <i>y y</i>                                   |
|                           | 702            | Lettunich Farms, Inc. Well 1                                    | 1954           | 200                | 18             | 200        | Qal Rg             | 3,582                         | 8.6<br>8.62                   | Mar. 14, 1962<br>Oct. 29, 1973 | T, G           | Irr          | Slotted from 50-200 ft. Gravel packed. Pump set at 175 ft.   |
|                           | 704            | C. Ivey   | 1956           | 200                | 18             | 200        | Qal Rg             | 3,581                         | 7.97<br>9.18                  | Mar. 17, 1962<br>May 10, 1977  | T, G           | Irr          | Slotted from 40-200 ft. Gravel packed. Pump set at 120 ft. Observation well. <i>y y</i>                    |
|                           | 705            | L. R. Allison Company Well 1                                    | 1951           | 195                | 18             | 195        | Qal Rg             | 3,582                         | 8.81                          | Oct. 30, 1973                  | T, G           | Irr          | Slotted from 100-195 ft. Gravel packed. Plugged back from 200 ft to 195 ft. Pump set at 140 ft. <i>y y</i> |
|                           | 706            | L. R. Allison Company Well 2                                    | 1952           | 195                | 18             | 195        | Qal Rg             | 3,578                         | 11.70                         | do                             | T              | Irr          | Not used. Slotted from 100-195 ft. Gravel packed. Plugged back from 212 ft to 195 ft. <i>y y</i>           |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner                           | Driller                    | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks  |
|---------------------------|---------------------------------|----------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|--|
|                           |                                 |                            |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |  |
| El Paso County--Continued |                                 |                            |                |                    |                |            |                    |                               |                               |                               |                |              |  |
| * JL-49-40-707            | L. R. Allison Company Well 3    | Morrison Drilling Company  | 1954           | 207                | 18             | 207        | Qal Rg             | 3,577                         | 9.64                          | Oct. 30, 1973                 | N              | Irr          | Not used. Capped with metal plate. Slotted from 100-207 ft. Gravel packed. <u>4</u>  |
| 708                       | L. R. Allison Company Well 4    | Payne & Ballard            | 1955           | 266                | 18             | 266        | Qal Rg/<br>Qtal 6  | 3,580                         | 8.47                          | do                            | N              | Irr          | Abandoned. Slotted from 100-266 ft. Gravel packed. <u>4</u>  |
| 709                       | L. R. Allison Company Well 5    | do                         | 1955           | 247                | 18             | 247        | Qal Rg/<br>Qtal 6  | 3,579                         | 9.94                          | do                            | T, G           | Irr          | Slotted from 100-247 ft. Pump set at 120 ft. <u>4</u>  |
| * 710                     | L. R. Allison Company Well 9    | K. C. Wheeler              | 1962           | 234                | 16             | 234        | Qal Rg/<br>Qtal 6  | 3,579                         | 12.88                         | do                            | T, G           | Irr          | Slotted from 100-234 ft. Gravel packed. Pump set at 120 ft. <u>4</u>   |
| 711                       | L. R. Allison Company Well 11   | do                         | 1971           | 227                | 18             | 227        | Qal Rg/<br>Qtal 6  | 3,580                         | --                            | --                            | T, G           | Irr          | Slotted from 100-227 ft. Gravel packed. Pump set at 120 ft.  |
| * 712                     | L. R. Allison Company Well 12   | do                         | 1971           | 232                | 18             | 232        | Qal Rg/<br>Qtal 6  | 3,580                         | 12.46                         | Oct. 30, 1973                 | T, G           | Irr          | Slotted from 100-232 ft. Gravel packed. Pump set at 120 ft.  |
| * 801                     | City of El Paso                 | City of El Paso            | 1959           | 3,000              | 6              | --         | --                 | 3,575                         | --                            | --                            | N              | N            | Abandoned test hole. <u>1</u> <u>2</u>   |
| 802                       | U.S. Bureau of Reclamation      | U.S. Bureau of Reclamation | 1952           | 23                 | 2              | 22         | Qal Rg             | 3,573                         | 14.50<br>8.8                  | Aug. 27, 1956<br>Dec. 1, 1976 | N              | N            | Observation well.  |
| * 803                     | L. R. Allison Company Well 10   | K. C. Wheeler              | 1962           | 213                | 16             | 213        | Qtal 6             | 3,577                         | 11.99<br>13.82                | Dec. 28, 1966<br>May 29, 1974 | T, G           | Irr          | Screen from 203-213 ft. Gravel packed. Pump set at 120 ft. Historical observation well. <u>3</u>                                 |
| 804                       | J. Stoney Porcher               | Wheeler Gas                | 1952           | 200                | 18             | 200        | Qal Rg             | 3,573                         | 7.97<br>8.55                  | Oct. 13, 1962<br>Nov. 1, 1973 | T, G           | Irr          | Slotted from 100-200 ft. Gravel packed. Pump set at 100 ft. <u>4</u>   |
| 805                       | do                              | do                         | 1952           | 200                | 18             | 200        | Qal Rg             | 3,572                         | 8.26                          | do                            | T, G           | Irr          | Do.  |
| * 806                     | do                              | do                         | 1952           | 200                | 18             | 200        | Qal Rg             | 3,578                         | 7.55                          | do                            | T, G           | Irr          | Slotted from 100-200 ft. Gravel packed. Pump set at 100 ft. Reported yield 1,800 gpm. <u>4</u>                                   |
| 807                       | Hideaway Lakes--<br>Bob Clingan | K. C. Wheeler              | --             | 103                | 8-5/8          | 103        | Qal Rg             | 3,570                         | --                            | --                            | T, E           | Ind          | Slotted from 60-103 ft. Gravel packed. Pump set at 93 ft.  |
| * 808                     | Ben L. Ivey Well 1              | -- Schieffer               | 1951           | 200                | 18             | 200        | Qal Rg             | 3,572                         | 11.04                         | Nov. 2, 1973                  | T, G           | Irr          | Slotted from 60-200 ft. Gravel packed. Pump set at 120 ft. Reported yield 1,600 gpm. <u>4</u>                                    |
| 809                       | Ben L. Ivey Well 2              | Rayford Guffy              | 1952           | 214                | 18             | 214        | Qal Rg/<br>Qtal 6  | 3,574                         | 12.42<br>7.73                 | do<br>May 10, 1977            | T, G           | Irr          | Slotted from 60-214 ft. Gravel packed. Pump set at 90 ft. Reported yield 1,400 gpm. Observation well. <u>3</u> <u>4</u>          |
| * 810                     | Harold Ivey Well 1              | K. C. Wheeler              | 1964           | 205                | 18             | 204        | Qal Rg             | 3,575                         | --                            | --                            | T, G           | Irr          | Slotted from 83-204 ft. Reslotted from 92-167 ft. Gravel packed. Pump set at 156 ft. Reported yield 1,253 gpm. <u>1</u> <u>4</u> |
| * 811                     | Harold Ivey Well 2              | do                         | 1964           | 121                | 16             | 121        | Qal Rg             | 3,573                         | 11.03                         | Nov. 2, 1973                  | T, G           | Irr          | Slotted from 48-121 ft. Gravel packed. Plugged back from 209 ft to 121 ft. Pump set at 100 ft. <u>1</u>                          |
| * 812                     | Harold Ivey Well 3              | do                         | 1964           | 152                | 16             | 152        | Qal Rg             | 3,575                         | 11.12                         | do                            | T, G           | Irr          | Slotted from 50-84 and 104-144 ft. Gravel packed. Pump set at 100 ft. Yield 579 gpm. <u>1</u> <u>4</u>                           |
| * 813                     | Harold Ivey Well 4              | Payne & Ballard            | 1954           | 159                | 18             | 159        | Qal Rg             | 3,565                         | 11.08                         | do                            | T, G           | Irr          | Slotted from 80-159 ft. Gravel packed. Pump set at 120 ft. Reported yield 1,800 gpm. <u>1</u> <u>4</u>                           |
| 814                       | L. R. Allison Company Well 7    | Morrison Drilling Company  | 1956           | 200                | 18             | 200        | Qal Rg             | 3,575                         | --                            | --                            | N              | Irr          | Abandoned. Poor quality. Slotted from 100-200 ft. <u>4</u>   |
| 815                       | L. R. Allison Company Well 8    | Brown & Ledford            | 1951           | 201                | 18             | 201        | Qal Rg             | 3,575                         | 8.89                          | Oct. 30, 1973                 | N              | Irr          | Abandoned. Poor quality. Slotted from 100-201 ft. Gravel packed. <u>1</u> <u>4</u>   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                      | Owner   | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|---|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |   |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| El Paso County--Continued |   |                           |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| JL-49-40-816              | A. R., Jr. and Mildred Sanders                              | Miller Brothers           | 1952           | 163                | 18             | 163        | Qal Rg             | 3,565                         | 8.31                          | Nov. 1, 1973                   | T, G           | Irr          | Slotted from 63-163 ft. Gravel packed. Pump set at 120 ft. $\frac{4}{4}$                   |
| 817                       | Robert I. Miller  | do                        | 1952           | 170                | 18             | 170        | Qal Rg             | 3,565                         | 8.43                          | do                             | T, G           | Irr          | Slotted from 70-170 ft. Pump set at 90 ft. $\frac{4}{4}$                                   |
| 901                       | Firmin Burrus Well 1  | do                        | 1952           | 150                | 18             | 150        | Qal Rg             | 3,565                         | 8.16<br>7.23                  | Mar. 14, 1962<br>Jan. 12, 1977 | T, G           | Irr          | Slotted from 20-150 ft. Gravel packed. Pump set at 100 ft. Observation well. $\frac{3}{4}$ |
| 902                       | Firmin Burrus Well 2  | Payne & Ballard           | 1955           | 100                | 18             | 100        | Qal Rg             | 3,565                         | 7.82                          | Nov. 5, 1973                   | T, G           | Irr          | Slotted from 20-100 ft. Gravel packed. Pump set at 90 ft. $\frac{4}{4}$                    |
| 903                       | Louis Burrus Well 1   | Fred Scroggins            | 1952           | 150                | 20             | 150        | Qal Rg             | 3,564                         | 6.48                          | do                             | T, G           | Irr          | Slotted from 20-150 ft. Pump set at 110 ft.  |
| 904                       | Louis Burrus Well 2   | Cecil Ballard             | 1972           | 100                | 14             | 100        | Qal Rg             | 3,565                         | --                            | --                             | T              | Irr          | Slotted from 50-100 ft. Gravel packed. Pump set at 80 ft.                                  |
| 905                       | Frank Owen III  | Wheeler Cass              | 1951           | 300                | 18             | 300        | Qtal 6             | 3,655                         | 90<br>98.16                   | Nov. 1960<br>5, 1973           | T, E           | Irr          | Slotted from 200-300 ft. Gravel packed. Pump set at 240 ft. Reported yield 1,350 gpm.      |
| Hudspeth County           |   |                           |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| * ED-48-33-707            | George Kurita Well 1  | --                        | 1963           | 63                 | 16             | 63         | Qal Rg             | 3,559                         | 6.64                          | Nov. 5, 1973                   | T, G           | Irr          | Slotted from 20-63 ft. Gravel packed. Reported yield 800 gpm.                              |
| * 711                     | Skov Farms and Feedlot Well 7                               | Cecil Ballard             | 1948           | 125                | 18             | 125        | Qal Rg             | 3,555                         | 8.2<br>7.10                   | 1962<br>Nov. 6, 1973           | T, G           | Irr          | Screen from 90-125 ft. Pump set at 110 ft. Reported yield 600 gpm.                         |
| * 712                     | Skov Farms and Feedlot Well 6                               | Payne & Ballard           | 1950           | 90                 | 16             | 90         | Qal Rg             | 3,552                         | 9.2<br>4.45                   | 1962<br>Nov. 6, 1973           | T, G           | Irr          | Screen from 50-90 ft. Pump set at 60 ft. Reported yield 1,200 gpm.                         |
| * 713                     | Skov Farms and Feedlot Well 1                               | Hardrock Drilling Company | 1954           | 225                | 18             | 225        | Qal Rg/<br>Qtal 6  | 3,555                         | 11.5<br>12.00                 | Feb. 27, 1962<br>Nov. 6, 1973  | T, G           | Irr          | Slotted from 80-100, and 190-225 ft. Pump set at 120 ft. Reported yield 1,350 gpm.         |
| * 714                     | Skov Farms and Feedlot Well 2                               | Belt & Miller             | 1926           | 90                 | 18             | --         | Qal Rg             | 3,554                         | --                            | --                             | T, G           | Irr          | Screen from 70-90 ft. Gravel packed. Pump set at 80 ft. Yield 1,500 gpm. $\frac{1}{2}$     |
| 715                       | Skov Farms and Feedlot Well 3                               | Brown & Ledford           | 1957           | 189                | 18             | 189        | Qal Rg             | 3,552                         | 11.13                         | Nov. 6, 1973                   | T, G           | Irr          | Screen from 90-110 ft. Pump set at 90 ft. Reported yield 1,800 gpm. $\frac{1}{2}$          |
| 716                       | Skov Farms and Feedlot Well 8                               | --                        | --             | --                 | 18             | --         | Qtal 6             | 3,560                         | 14.2                          | Feb. 27, 1962                  | Sub, E         | D, S         | --   |
| 717                       | John O. Bailey  | Belt & Miller             | 1926           | 83                 | 18             | 83         | Qal Rg             | --                            | --                            | --                             | N              | N            | Slotted from 52-72 ft. Gravel packed. $\frac{1}{2}$  |
| * 34-801                  | U.S. Soil Conservation Service                              | K. C. Wheeler             | 1959           | 906                | --             | --         | Qtal 6             | --                            | --                            | --                             | T, G           | Ind          | Pump set at 470 ft.  |
| 41-101                    | Skov Farms and Feedlot Well 5                               | Payne & Ballard           | 1954           | 172                | 20             | 172        | Qal Rg             | 3,553                         | 11.23                         | Nov. 6, 1973                   | T, G           | Irr          | Perforated from 90-120 ft. Gravel packed. Pump set at 120 ft.                              |
| * 102                     | Harold S. Lujan Well 1                                      | do                        | 1953           | 130                | 18             | 130        | Qal Rg             | 3,550                         | 11.00                         | Nov. 7, 1972                   | T, G           | Irr          | Slotted from 50-130 ft. Gravel packed. Pump set at 110 ft.                                 |
| * 103                     | Harold S. Lujan Well 2                                      | do                        | 1954           | 100                | 16             | 100        | Qal Rg             | 3,553                         | 10.5<br>9.87                  | Feb. 26, 1962<br>Nov. 6, 1973  | T, G           | Irr          | Slotted from 40-100 ft. Gravel packed. Pump set at 85 ft.                                  |
| * 104                     | Skov Farms and Feedlot Well 4                               | Brown & Ledford           | 1954           | 189                | 18             | 189        | Qal Rg             | 3,555                         | 10.71                         | do                             | T, G           | Irr          | Screen from 90-110 ft. Gravel packed. Pump set at 110 ft. $\frac{1}{2}$                    |
| 105                       | Skov Farms and Feedlot                                      | Belt & Miller             | 1926           | 81                 | 18             | 81         | Qal Rg             | 3,554                         | --                            | --                             | N              | N            | Slotted from 20-69 ft. Gravel packed. $\frac{1}{2}$  |
| 201                       | Hudspeth County Conservation and Reclamation District No. 1 | Layne-Texas Company       | 1957           | 817                | --             | --         | --                 | 3,547                         | --                            | --                             | N              | N            | Not used. Test hole. $\frac{1}{2}$ $\frac{2}{2}$   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                       | Owner               | Driller                   | Date completed | Depth of well (ft.) | Casing         |             | Water bearing unit | Altitude of land surface (ft.) | Water level                    |                                | Method of lift | Use of water | Remarks  |
|----------------------------|---------------------|---------------------------|----------------|---------------------|----------------|-------------|--------------------|--------------------------------|--------------------------------|--------------------------------|----------------|--------------|--|
|                            |                     |                           |                |                     | Diameter (in.) | Depth (ft.) |                    |                                | Below land-surface datum (ft.) | Date of measurement            |                |              |  |
| Hudspeth County--Continued |                     |                           |                |                     |                |             |                    |                                |                                |                                |                |              |  |
| * ED-48-41-202             | E. H. Oliphant      | --                        | 1950           | 132                 | 18             | --          | Qal Rg             | 3,548                          | 9.65<br>7.52                   | Mar. 9, 1953<br>Feb. 9, 1977   | T, G           | Irr          | Reported yield 1,600 gpm. Observation well. <u>3</u>   |
| * 203                      | Mrs. A. S. Dwigans  | Hardrock Drilling Company | 1954           | 153                 | 18             | --          | Qal Rg             | 3,549                          | 10.4<br>10.15                  | Feb. 28, 1962<br>Nov. 7, 1973  | T, G           | Irr          | <u>1</u>   |
| * 204                      | George Eads         | Payne & Ballard           | 1954           | 159                 | 18             | --          | Qal Rg             | 3,550                          | 11.36<br>10.29                 | Feb. 28, 1962<br>Nov. 7, 1973  | T, G           | Irr          | Gravel packed. Pump set at 110 ft. Reported yield 1,500 gpm.   |
| * 205                      | T. D. Lovelady      | Miller Brothers           | 1952           | 120                 | 18             | --          | Qal Rg             | 3,549                          | 11.19                          | do                             | T, G           | Irr          | --   |
| 206                        | do                  | Hardrock Drilling Company | 1961           | 132                 | 18             | 132         | Qal Rg             | 3,549                          | 10.58                          | do                             | N              | Irr          | Not used. Plugged back from 142 ft to 132 ft. <u>1</u>   |
| * 207                      | B. L. Rose          | -- Schieffer              | 1961           | 142                 | 18             | --          | Qal Rg             | 3,548                          | 7.74<br>6.26                   | Feb. 28, 1962<br>Nov. 8, 1973  | T, G           | Irr          | Gravel walled. Pump set at 60 ft.  |
| * 208                      | Ramon Padilla       | Hardrock Drilling Company | --             | 80                  | 16<br>12       | --          | Qal Rg             | 3,548                          | 8.53<br>5.14                   | Mar. 13, 1962<br>Nov. 8, 1973  | T, G           | Irr          | Pump set at 60 ft.   |
| 209                        | John Segulia        | do                        | 1962           | 86                  | 18             | 86          | Qal Rg             | 3,547                          | 12.63<br>7.04                  | Mar. 13, 1962<br>Nov. 8, 1973  | T, G           | Irr          | Slotted from 46-86 ft. Gravel packed. Pump set at 70 ft. Plugged back from 105 ft to 86 feet. <u>1</u> |
| 210                        | do                  | Miller Brothers           | 1952           | 90                  | 18<br>16       | 50<br>90    | Qal Rg             | 3,547                          | --                             | --                             | T, G           | Irr          | Slotted from 50-90 ft. Gravel packed. Pump set at 60 ft. Reported yield 1,200-1,300 gpm.               |
| * 211                      | B. M. Joha          | Hardrock Drilling Company | 1948           | 150                 | 16             | --          | Qal Rg             | 3,544                          | --                             | --                             | T, G           | Irr          | --   |
| * 212                      | A. R. Miller Well 1 | --                        | 1951           | 92                  | 14             | 92          | Qal Rg             | 3,547                          | 10.52                          | Nov. 8, 1973                   | T              | Irr          | Slotted from 60-92 ft. Straight wall. Yield 1,100 gpm.   |
| * 213                      | A. R. Miller Well 2 | -- Daugherty              | 1953           | 81                  | 18             | 81          | Qal Rg             | 3,547                          | 10.76                          | do                             | T              | Irr          | Slotted from 50-81 ft. Estimated yield 503 gpm.  |
| 214                        | A. R. Miller        | -- McKinsey               | 1953           | 92                  | 18             | --          | Qal Rg             | 3,547                          | 10.44                          | Mar. 6, 1962                   | T              | Irr          | Yield 480 gpm.   |
| 215                        | Grady Miller, Jr.   | Wheeler Case              | 1958           | 90                  | 18             | --          | Qal Rg             | 3,544                          | 9.40<br>8.97                   | do<br>Nov. 8, 1973             | T, G           | Irr          | Gravel packed.   |
| 216                        | do                  | Miller Brothers           | 1951           | 70                  | 18             | --          | Qal Rg             | 3,545                          | 9.28<br>8.16                   | Mar. 6, 1962<br>Nov. 8, 1973   | T, G           | Irr          | Gravel packed. Reported yield 700 gpm.   |
| 217                        | do                  | --                        | 1951           | 160                 | 18             | --          | Qal Rg             | 3,544                          | 10.48                          | do                             | T, G           | Irr          | Gravel packed. Reported yield 1,200 gpm.   |
| 218                        | B. W. Cowan         | L. Walker                 | 1958           | 182                 | 16             | --          | Qal Rg             | 3,544                          | 8.23<br>5.76                   | Feb. 27, 1962<br>Nov. 12, 1973 | T, G           | Irr          | --   |
| 219                        | Grady Miller, Jr.   | Hardrock Drilling Company | 1962           | 178                 | 18             | 178         | Qal Rg             | 3,546                          | 7.85                           | do                             | T, G           | Irr          | Perforated from 47-178 ft. Gravel packed. <u>1</u>   |
| 220                        | John Segulia        | Cecil Ballard             | 1972           | 64                  | 18             | 64          | Qal Rg             | 3,548                          | 10                             | July 20, 1972                  | T, G           | Irr          | Slotted from 34-64 ft. Gravel packed. Pump set at 50 ft. <u>1</u>                                      |
| 221                        | do                  | --                        | 1963           | 70                  | 16             | 70          | Qal Rg             | 3,547                          | 7.00                           | Nov. 8, 1973                   | T, G           | Irr          | Slotted from 40-70 ft. Gravel packed. Pump set at 60 ft.   |
| 222                        | Grady Miller, Jr.   | Wheeler Case              | 1972           | 160                 | 18             | 160         | Qal Rg             | 3,545                          | 8.17                           | Nov. 14, 1973                  | T, G           | Irr          | Slotted from 40-160 ft. Gravel packed. <u>1</u>  |
| * 223                      | Mrs. A. S. Dwigans  | --                        | 1951           | 160                 | 18             | --          | Qal 6              | 3,553                          | --                             | --                             | N              | N            | Destroyed. Gravel packed. <u>1</u>   |
| 224                        | Elsa Loya           | --                        | --             | 60                  | 18             | 60          | Qal Rg             | 3,555                          | 11.41                          | Feb. 14, 1974                  | T, G           | Irr          | Slotted from 30-60 ft.   |
| 225                        | V. M. Ochoa         | --                        | --             | --                  | 18             | --          | Qal Rg             | 3,549                          | 11.21                          | Nov. 7, 1973                   | T, G           | Irr          | --   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                       | Owner              | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks  |
|----------------------------|--------------------|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                            |                    |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| Hudspeth County--Continued |                    |                           |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| PD-48-41-226               | Mrs. A. S. Dwigana | Belt & Miller             | 1926           | 71                 | 18             | 71         | Qal Rg             | 3,553                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 20-65 ft. Gravel packed. <u>1/2</u>   |
| 227                        | T. D. Lovelady     | do                        | 1926           | 101                | 18             | 101        | Qal Rg             | 3,549                         | --                            | --                             | N              | N            | Do.  |
| 228                        | John Segulin       | R. O. Smalley             | 1927           | 79                 | 18             | 79         | Qal Rg             | 3,549                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 43-67 ft. Gravel packed. <u>1/2</u>   |
| 229                        | A. R. Miller       | Belt & Miller             | 1926           | 83                 | 18             | 83         | Qal Rg             | 3,544                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 36-65 ft. Gravel packed. <u>1/2</u>   |
| 230                        | Anson Wiseman      | T. Boudreaux              | 1928           | 92                 | 18             | 92         | Qal Rg             | 3,542                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 10-60 ft. Gravel packed. <u>1/2</u>   |
| * 501                      | Carlos Aguilar     | Miller Drilling Company   | 1951           | 68                 | 18             | --         | Qal Rg             | 3,540                         | 11.2<br>8.7                   | Mar. 15, 1962<br>Nov. 12, 1973 | T              | Irr          | Gravel packed. Reported yield 800-1,000 gpm. <u>1/2</u>                      |
| 502                        | do                 | do                        | 1951           | 64                 | 18<br>16       | --<br>--   | Qtal 6             | 3,540                         | 11.1<br>12.41                 | Feb. 27, 1962<br>Nov. 12, 1973 | T, G           | Irr          | Reported yield 700 gpm. <u>1/2</u>   |
| 503                        | Davidson Brothers  | Morrison Drilling Company | --             | --                 | 18             | --         | Qal Rg             | 3,539                         | 9.33                          | Nov. 16, 1973                  | T, G           | Irr          | --   |
| 504                        | do                 | do                        | --             | --                 | 18             | --         | Qal Rg             | 3,539                         | 8.31                          | Nov. 14, 1973                  | T              | Irr          | --   |
| 505                        | R. M. Dye          | Miller Drilling Company   | 1951           | 92                 | 16             | 80         | Qal Rg             | 3,539                         | 8.66<br>9.50                  | Feb. 27, 1962<br>Nov. 14, 1973 | N              | Irr          | Abandoned. Slotted from 50-80 ft. Reported yield 1,850 gpm. <u>1/2</u>       |
| 506                        | do                 | Wheeler Cass              | 1972           | 100                | 18             | 100        | Qal Rg             | 3,539                         | 9.29                          | do                             | T, G           | Irr          | Perforated from 40-100 ft. Gravel packed. <u>1/2</u>                         |
| 507                        | do                 | Miller Drilling Company   | 1951           | 100                | 16             | --         | Qal Rg             | 3,538                         | 10.75<br>7.47                 | Feb. 27, 1962<br>Nov. 14, 1973 | T, G           | Irr          | Yield 1,500 gpm. <u>1/2</u>  |
| 508                        | do                 | Bill Nize                 | 1954           | 100                | 18             | --         | Qal Rg             | 3,539                         | 8.00<br>8.89                  | Feb. 27, 1962<br>Nov. 16, 1973 | T, G           | Irr          | Reported yield 2,000 gpm.  |
| 509                        | do                 | -- Morrison               | 1959           | 100                | 16<br>12       | --<br>--   | Qal Rg             | 3,536                         | 8.2<br>10.32                  | Feb. 27, 1962<br>Nov. 14, 1973 | T, G           | Irr          | Plugged back from 430 ft to 100 ft. Gravel packed. Reported yield 1,500 gpm. |
| 510                        | Grady Miller, Jr.  | Hardrock Drilling Company | 1961           | 90                 | 18             | 90         | Qal Rg             | 3,537                         | 9.64                          | Nov. 16, 1973                  | T, G           | Irr          | Slotted from 50-85 ft. Gravel packed. <u>1/2</u>                             |
| 511                        | Anson Wiseman      | --                        | --             | 100                | 18             | 100        | Qal Rg             | 3,541                         | 8.20                          | Nov. 12, 1973                  | T              | Irr          | Slotted from 40-100 ft. Pump set at 85 ft.                                   |
| 512                        | do                 | --                        | --             | 165                | 18             | 165        | Qal Rg             | 3,541                         | 6.00                          | do                             | T, G           | Irr          | Slotted from 50-165 ft. Pump set at 85 ft.                                   |
| 513                        | do                 | --                        | --             | 90                 | 18             | 90         | Qal Rg             | 3,541                         | 9.14                          | do                             | T              | Irr          | Slotted from 35-90 ft. Pump set at 85 ft.                                    |
| 514                        | do                 | --                        | --             | 140                | 18             | 140        | Qal Rg             | 3,541                         | 6.49                          | do                             | N              | Irr          | Abandoned.   |
| 515                        | Grady Miller       | --                        | --             | --                 | 20             | --         | Qal Rg             | 3,537                         | 8.00                          | Nov. 14, 1973                  | T              | Irr          | --   |
| 516                        | do                 | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,538                         | 11.05                         | do                             | T              | Irr          | --   |
| 517                        | Anson Wiseman      | Belt & Miller             | 1926           | 84                 | 18             | 83         | Qal Rg             | 3,540                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 11-76 ft. Gravel packed. <u>1/2</u>   |
| 518                        | Carlos Aguilar     | do                        | 1926           | 86                 | 18             | 86         | Qal Rg             | 3,540                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 15-60 ft. Gravel packed. <u>1/2</u>   |
| 519                        | R. M. Dye          | do                        | 1925           | 200                | 20             | 135        | Qal Rg             | 3,539                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 55-78 ft. Gravel packed. <u>1/2</u>   |

See footnotes at end of table.



Table 5.--Records of Selected Wells--Continued

| Well                      | Owner  | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water Level                   |                                | Method of lift | Use of water | Remarks  |
|---------------------------|--|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|--|
|                           |  |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |  |
| Hudseph County--Continued |  |                           |                |                    |                |            |                    |                               |                               |                                |                |              |  |
| PD-48-41-520              | Grady Miller, Jr.  | Belt & Miller             | 1926           | 95                 | 18             | 94         | Qal Rg             | 3,538                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 42-73 ft. Gravel packed. <u>Y</u> |
| 601                       | Julian Franklin  | --                        | --             | 50                 | 16             | --         | Qal Rg             | 3,539                         | 25.84<br>13.48                | Mar. 9, 1953<br>Jan. 13, 1975  | T, G           | Irr          | Observation well. <u>Y</u>   |
| * 602                     | Hudseph County Conservation and Reclamation District No. 1 | Layne-Texas Company       | 1957           | 709                | --             | --         | --                 | 3,558                         | --                            | --                             | N              | N            | Not used. Test hole. <u>Y</u> / <u>Z</u>                                 |
| 603                       | Grady Miller, Jr.  | Wheeler Cass              | 1972           | 296                | 18             | 296        | Qal Rg/<br>Qtal 6  | 3,523                         | 14.0<br>18.13                 | June 10, 1972<br>Dec. 5, 1973  | T, G           | Irr          | Slotted from 40-296 ft. <u>Y</u>   |
| * 604                     | do   | Fred Scroggins            | 1954           | 100                | 16             | 100        | Qtal 6             | 3,541                         | 14.16<br>18.55                | Feb. 23, 1962<br>Nov. 14, 1973 | N              | Irr          | Slotted from 80-100 ft. Gravel packed. Reported yield 1,700 gpm.         |
| * 605                     | Bowen Company  | --                        | --             | 102                | 16             | --         | Qtal 6             | 3,553                         | 25.8<br>25.01                 | Feb. 23, 1962<br>Dec. 3, 1973  | T              | Irr          | Pump set at 80 ft.   |
| * 606                     | do   | --                        | --             | 90                 | 18             | --         | Qal Rg             | 3,542                         | --                            | --                             | T, G           | Irr          | Gravel packed.   |
| 607                       | do   | --                        | --             | 90                 | 16             | --         | Qtal 6             | 3,550                         | 22.73                         | Dec. 3, 1973                   | N              | Irr          | --   |
| 608                       | Mrs. S. H. Cook  | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,541                         | 14.21                         | do                             | T              | Irr          | --   |
| 609                       | do   | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,541                         | 12.17                         | do                             | T              | Irr          | --   |
| 610                       | do   | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,531                         | 8.21                          | Nov. 20, 1973                  | T              | Irr          | --   |
| 611                       | Davidson Brothers  | Morrison Drilling Company | 1951           | --                 | 18             | --         | Qal Rg             | 3,533                         | 12.4<br>9.51                  | Nov. 20, 1962<br>Nov. 20, 1973 | N              | Irr          | --   |
| * 612                     | Julian Franklin  | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,534                         | 8.55<br>8.10                  | Mar. 14, 1962<br>Dec. 3, 1973  | T, G           | Irr          | --   |
| * 613                     | do   | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,531                         | 11.31                         | do                             | T, G           | Irr          | --   |
| * 614                     | Anson Wiseman  | Morrison Drilling Company | 1951           | 104                | 18             | --         | Qal Rg             | 3,528                         | 10.1<br>12.30                 | Mar. 6, 1962<br>Dec. 3, 1973   | T              | Irr          | --   |
| 615                       | Grady Miller, Jr.  | Miller Drilling Company   | 1951           | 140                | 18             | --         | Qal Rg             | 3,528                         | 12.68                         | do                             | T              | Irr          | --   |
| 616                       | do   | Wheeler Cass              | 1957           | 280                | 18             | --         | Qal Rg/<br>Qtal 6  | 3,530                         | 9.4<br>12.13                  | Mar. 6, 1962<br>Dec. 5, 1973   | T, G           | Irr          | Gravel packed.   |
| 617                       | do   | do                        | 1972           | 143                | 18             | 143        | Qal Rg             | 3,522                         | 13.17                         | do                             | T, G           | Irr          | Slotted from 40-143 ft. Gravel packed. Yield 1,000 gpm. <u>Y</u>         |
| 618                       | do   | do                        | 1972           | 305                | 18             | 305        | Qal Rg/<br>Qtal 6  | 3,523                         | 15<br>18.20                   | May 20, 1972<br>Dec. 5, 1973   | -T             | Irr          | Slotted from 45-305 ft. Gravel packed. <u>Y</u>                          |
| 619                       | do   | --                        | 1955           | 280                | 18             | --         | Qal Rg/<br>Qtal 6  | 3,523                         | 12.9<br>17.40                 | Mar. 6, 1962<br>Dec. 5, 1973   | T, G           | Irr          | Gravel packed.   |
| 620                       | Anson Wiseman  | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,530                         | --                            | --                             | T              | Irr          | --   |
| 622                       | Grady Miller, Jr.  | Belt & Miller             | 1926           | 72                 | 18             | 72         | Qal Rg             | 3,530                         | --                            | --                             | N              | N            | Not used. Old drain well. Slotted from 25-58 ft. Gravel packed. <u>Y</u> |
| 623                       | W. T. Sharp  | --                        | 1976           | 75                 | --             | --         | Qal Rg             | --                            | --                            | --                             | S, E           | D            | --   |
| 901                       | do   | Cecil Ballard             | 1967           | 300                | 16             | 300        | Qal Rg             | 3,531                         | --                            | --                             | T, G           | Irr          | Slotted from 100-150 ft. Pump set at 150 ft.                             |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                       | Owner   | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                                | Method of lift | Use of water | Remarks   |
|----------------------------|---|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|--------------------------------|----------------|--------------|---|
|                            |   |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement            |                |              |   |
| Hudspeth County--Continued |   |                           |                |                    |                |            |                    |                               |                               |                                |                |              |   |
| ED-48-41-902               | W. T. Sharp   | --                        | --             | 200                | 16             | --         | Qal Rg             | 3,531                         | 19.92                         | Dec. 10, 1973                  | T              | Irr          | --  |
| 42-401                     | Grady Miller, Jr.   | --                        | --             | 50                 | 16             | --         | Qal Rg             | 3,525                         | 9.39<br>9.11                  | Mar. 9, 1953<br>Dec. 5, 1973   | N              | N            | Abandoned. Historical observation well. <u>3</u>  |
| 403                        | Davidson Brothers   | Morrison Drilling Company | 1951           | 112                | 16             | 112        | Qal Rg             | 3,525                         | 10.38<br>10.80                | Feb. 21, 1962<br>Nov. 20, 1973 | T, G           | Irr          | <u>1</u>  |
| * 404                      | Texas Dept. of Highways and Public Transportation         | K. C. Wheeler             | 1962           | 267                | 12-7/8         | 267        | Qtal 6             | 3,610                         | 93<br>89.08                   | Apr. 10, 1962<br>Nov. 14, 1973 | N              | Ind          | Not used. Capped with metal plate. Slotted from 146-267 ft. Gravel packed. Yield 200 gpm.             |
| 405                        | Grady Miller, Jr.   | Belt & Miller             | 1926           | 67                 | 18             | 67         | Qal Rg             | 3,525                         | --                            | --                             | N              | N            | Not used. Old drain well. Gravel packed. Slotted from 40-58 ft. <u>1</u>                              |
| * 701                      | B. E. Walker  | Miller Drilling Company   | 1962           | 283                | 18             | --         | Qtal 6             | 3,520                         | 12.41<br>10.39                | Mar. 9, 1953<br>Feb. 9, 1977   | T, G           | Irr          | Gravel packed. Pump set at 80 ft. Estimated yield 628 gpm on Apr. 2, 1962. Observation well. <u>3</u> |
| * 702                      | Fort Hancock Water Control & Improvement District         | K. C. Wheeler             | 1960           | 213                | 8<br>6         | 170<br>213 | Qal Rg/<br>Qtal 6  | 3,529                         | 28                            | July 1960                      | T, E           | P            | Screen from 170-213 ft. Gravel packed. Pump set at 190 ft. Reported yield 100 gpm.                    |
| * 703                      | Hudspeth County Conservation & Reclamation District No. 1 | Layne-Texas Company       | 1957           | 3,500              | --             | --         | --                 | 3,521                         | --                            | --                             | N              | N            | Test hole. <u>1/2</u>   |
| 705                        | Grady Miller, Jr.   | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,529                         | 16.14                         | Dec. 10, 1973                  | T, E           | Irr          | --  |
| 706                        | B. E. Walker  | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,520                         | 15.77                         | Dec. 18, 1973                  | T, G           | Irr          | --  |
| * 707                      | Grady Miller, Jr.   | -- Schieffer              | 1951           | 169                | 16             | --         | Qal Rg             | 3,529                         | 14.68                         | Dec. 5, 1973                   | T, G           | Irr          | <u>1</u>  |
| * 708                      | Fort Hancock Water Control & Improvement District         | K. C. Wheeler             | --             | 189                | 12<br>8        | --         | Qal Rg             | 3,529                         | 14.17                         | Dec. 10, 1973                  | T, E           | P            | --  |
| 709                        | Grady Miller, Jr.   | --                        | 1951           | 110                | 18             | --         | Qal Rg             | 3,529                         | 18.30                         | do                             | T              | Irr          | Gravel packed. Yield 1,500 gpm.   |
| 710                        | do  | Wheeler Cass              | 1958           | 284                | 18             | --         | Qal Rg/<br>Qtal 6  | 3,528                         | 19.80                         | do                             | T              | Irr          | Yield 1,600 gpm.  |
| * 711                      | L. Lutich   | Miller Brothers           | 1951           | 163                | 16             | --         | Qal Rg             | 3,528                         | 12.5<br>16.58                 | Feb. 21, 1962<br>Dec. 10, 1973 | T, G           | Irr          | Slotted from 0-163 ft. Reported yield 700 gpm.  |
| * 712                      | do  | --                        | --             | 173                | 16             | --         | Qal Rg             | 3,528                         | 18.18                         | do                             | T              | Irr          | --  |
| 713                        | B. E. Walker  | Miller Drilling Company   | 1962           | 135                | 18             | --         | Qal Rg             | 3,525                         | 16.08                         | do                             | T, G           | Irr          | Drilled to 180 ft. Cased to 135 ft. Pump set at 80 ft. Gravel packed.                                 |
| * 714                      | R. M. Dutton  | -- Schieffer              | 1951           | 108                | 18             | 108        | Qal Rg             | 3,525                         | --                            | --                             | T, G           | Irr          | <u>1</u>  |
| * 715                      | do  | Wayne Boone               | --             | 210                | 18             | --         | Qal Rg/<br>Qtal 6  | 3,525                         | --                            | --                             | N              | N            | Destroyed. <u>1</u>   |
| 716                        | B. E. Walker  | Fred Scroggins            | 1954           | 240                | 18             | --         | Qal Rg/<br>Qtal 6  | 3,520                         | 15.75                         | Dec. 10, 1973                  | T, G           | Irr          | Gravel packed. Pump set at 80 ft. Estimated yield 1,330 gpm on Mar. 2, 1962.                          |
| 717                        | do  | Rayford Guffy             | 1954           | 135                | 18             | --         | Qal Rg             | 3,520                         | 18.27<br>14.10                | Mar. 2, 1962<br>Dec. 10, 1973  | N              | Irr          | Not used. Slotted from 0-135 ft. Gravel packed.   |
| 718                        | do  | Miller Brothers           | 1953           | 83                 | 16             | --         | Qal Rg             | 3,520                         | 14.45                         | Mar. 2, 1962                   | T              | Irr          | Gravel packed. Pump set at 70 ft.   |
| 719                        | do  | Hardrock Drilling Company | 1952           | 83                 | 18             | --         | Qal Rg             | 3,520                         | 8.46                          | do                             | T              | Irr          | Do.   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                       | Owner   | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks   |
|----------------------------|---|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|---|
|                            |   |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |   |
| Hudspeth County--Continued |   |                           |                |                    |                |            |                    |                               |                               |                               |                |              |   |
| FD-48-42-720               | B. E. Walker  | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,518                         | 12.28                         | Dec. 19, 1973                 | T, G           | Irr          | --  |
| 721                        | do  | Hardrock Drilling Company | 1953           | 135                | 18             | --         | Qal Rg             | 3,524                         | 11.3                          | Mar. 2, 1962                  | T, G           | Irr          | Gravel packed.  |
| 722                        | do  | do                        | 1955           | 135                | 18             | --         | Qal Rg             | 3,520                         | --                            | --                            | T, G           | Irr          | Gravel packed. Pump set at 80 ft.   |
| 723                        | do  | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,520                         | --                            | --                            | T              | Irr          | --  |
| 724                        | do  | --                        | 1953           | 69                 | 20             | --         | Qal Rg             | 3,520                         | 13.4<br>14.10                 | Mar. 2, 1962<br>Dec. 19, 1973 | T, G           | Irr          | Gravel packed. Pump set at 60 ft.   |
| 725                        | do  | Miller Brothers           | 1952           | 83                 | 18             | --         | Qal Rg             | 3,517                         | 13.1<br>11.37                 | Mar. 2, 1962<br>Dec. 19, 1973 | T              | Irr          | Gravel packed.  |
| * 726                      | J. M. Bryan   | Fred Scroggins            | 1951           | 110                | 16             | --         | Qal Rg             | 3,521                         | 14.29                         | Dec. 18, 1973                 | T, G           | Irr          | Reported yield 500 gpm.   |
| * 727                      | Juan Mendeola   | --                        | 1949           | 140                | 18             | --         | Qal Rg             | 3,521                         | --                            | --                            | T, G           | Irr          | Reported yield 800 gpm.   |
| 728                        | L. Lutich   | Brown & Ledford           | 1953           | 85                 | 16             | --         | Qal Rg             | 3,523                         | 12.6<br>13.14                 | Mar. 2, 1962<br>Dec. 18, 1973 | T, G           | Irr          | Gravel packed. Reported yield 600 gpm.  |
| 729                        | do  | Miller Brothers           | 1951           | 85                 | 18             | --         | Qal Rg             | 3,523                         | 9.8<br>12.57                  | Mar. 2, 1962<br>Dec. 18, 1973 | T, G           | Irr          | Gravel packed. Estimated yield 1,000 gpm.                                     |
| * 730                      | do  | Hardrock Drilling Company | 1951           | 140                | 16             | 140        | Qal Rg             | 3,516                         | 15.40                         | Dec. 19, 1973                 | N              | Irr          | Not used. Gravel packed.  |
| 731                        | B. E. Walker  | --                        | --             | --                 | --             | --         | Qal Rg             | 3,526                         | --                            | --                            | T, G           | Irr          | --  |
| 732                        | Grady Miller, Jr.   | Belt & Miller             | 1925           | 113                | 18             | 110        | Qal Rg             | 3,523                         | --                            | --                            | N              | N            | Not used. Old drain well. Slotted from 52-72 ft. Gravel packed. $\frac{1}{2}$ |
| 733                        | Hudspeth County Conservation & Reclamation District No. 1 | T. Boudreaux              | 1927           | 117                | 18             | 117        | Qal Rg             | 3,523                         | --                            | --                            | N              | N            | Not used. Old drain well. Slotted from 10-71 ft. Gravel packed. $\frac{1}{2}$ |
| 734                        | R. M. Dutton  | Belt & Miller             | 1926           | 92                 | 18             | 92         | Qal Rg             | 3,524                         | --                            | --                            | N              | N            | Not used. Old drain well. Slotted from 20-70 ft. Gravel packed. $\frac{1}{2}$ |
| 735                        | B. E. Walker  | J. R. Ballew              | 1927           | 91                 | 18             | 91         | Qal Rg             | 3,520                         | --                            | --                            | N              | N            | Not used. Old drain well. Slotted from 12-75 ft. Gravel packed. $\frac{1}{2}$ |
| 736                        | do  | Bolt & Miller             | 1925           | 186                | 18             | 186        | Qal Rg             | 3,521                         | --                            | --                            | N              | N            | Not used. Old drain well. Slotted from 12-80 ft. Gravel packed. $\frac{1}{2}$ |
| 737                        | do  | T. Boudreaux              | 1928           | 98                 | 18             | 98         | Qal Rg             | 3,520                         | --                            | --                            | N              | N            | Not used. Old drain well. Slotted from 10-83 ft. Gravel packed. $\frac{1}{2}$ |
| 801                        | H. D. Zachry  | Wheeler Cass              | 1961           | 256                | --             | --         | Qtal 6             | --                            | --                            | --                            | N              | Ind          | Abandoned. Estimated yield 40-50 gpm.   |
| 802                        | A. W. Dwigans   | do                        | 1961           | 60                 | 12             | 60         | Qal Rg             | --                            | --                            | --                            | T, E           | Ind          | Perforated from 30-60 ft. Yield 600 gpm.                                      |
| 803                        | L. Lutich   | Miller Brothers           | 1951           | 85                 | 18             | --         | Qal Rg             | 3,520                         | 14.20                         | Dec. 19, 1973                 | N              | Irr          | Gravel packed.  |
| 804                        | B. E. Walker  | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,520                         | 11.86                         | do                            | T              | Irr          | --  |
| 805                        | R. O. Collins   | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,520                         | 11.70                         | do                            | N              | Irr          | --  |
| 806                        | Karl and Mary Friedman                                    | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,520                         | 9.11<br>9.00                  | Mar. 2, 1962<br>Dec. 19, 1973 | N              | Irr          | Not used.   |
| 807                        | Grady Miller, Jr.   | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,517                         | 9.40                          | Dec. 20, 1973                 | T              | Irr          | --  |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                     | Owner                                | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks  |
|--------------------------|--------------------------------------|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|--|
|                          |                                      |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |  |
| Hudson County--Continued |                                      |                           |                |                    |                |            |                    |                               |                               |                               |                |              |  |
| PD-48-42-808             | B. E. Walker                         | R. O. Smalley             | 1927           | 107                | 18             | 107        | Qal Rg             | --                            | --                            | --                            | N              | N            | Not used. Old drain well. Slotted from 17-70 ft. Gravel packed. <u>1</u> |
| * 50-2D1                 | R. M. Dye                            | --                        | 1952           | 90                 | 18             | 90         | Qal Rg             | 3,513                         | 9.2                           | Mar. 27, 1962                 | N              | Irr          | Not used.  |
| 202                      | Tommy Powell                         | Rayford Guffy             | 1956           | 102                | 6              | 102        | Qtal 6             | --                            | 45                            | Nov. 13, 1964                 | Sub, E         | D            | Reported yield 60 gpm.   |
| * 203                    | Michael Bayer                        | -- Daugherty              | 1951           | 80                 | 14             | 80         | Qal Rg             | 3,510                         | 11.7<br>10.45                 | Mar. 1, 1962<br>Dec. 20, 1973 | T              | Irr          | Gravel packed.   |
| 204                      | J. Kennedy                           | Hardrock Drilling Company | 1952           | 84                 | 18             | 84         | Qal Rg             | 3,508                         | 13.87                         | do                            | N              | Irr          | Not used. Gravel packed.   |
| 205                      | K. & D. Development and Construction | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,504                         | 12.3                          | Mar. 24, 1962                 | N              | Irr          | Not used.  |
| * 206                    | do                                   | J. R. Ballew              | 1927           | 95                 | 20             | 95         | Qal Rg             | 3,504                         | 12.85                         | Dec. 20, 1973                 | N              | N            | Not used. Old drain well. Slotted from 28-86 ft. Gravel packed. <u>1</u> |
| 207                      | do                                   | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,505                         | --                            | --                            | T              | Irr          | Not used.  |
| 208                      | do                                   | --                        | --             | --                 | 14             | --         | Qal Rg             | 3,504                         | 10.8<br>8.3                   | Mar. 24, 1962<br>Jan. 2, 1974 | T              | Irr          | Do.  |
| 209                      | do                                   | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,503                         | 11.0                          | do                            | T              | Irr          | --   |
| 301                      | do                                   | W. M. Robinson            | 1927           | 85                 | 18             | 85         | Qal Rg             | 3,502                         | 8.83                          | do                            | T              | --           | Old drain well. Slotted from 65-81 ft. <u>1</u>                          |
| 302                      | H. McMillan                          | K. C. Wheeler             | 1962           | 148                | --             | --         | Qtal 6             | --                            | --                            | --                            | N              | N            | Abandoned. Insufficient water.   |
| 303                      | --                                   | do                        | 1962           | 520                | --             | --         | Qtal 6             | --                            | --                            | --                            | N              | N            | Abandoned.   |
| 304                      | -- Ivy                               | -- Daugherty              | 1954           | 100                | 6              | 100        | Qtal 6             | 3,570                         | 45                            | Dec. 14, 1964                 | Sub, E         | D            | Reported yield 60 gpm.   |
| 305                      | Karl and Mary Friedman               | J. R. Ballew              | 1927           | 87                 | 18             | 87         | Qal Rg             | 3,505                         | --                            | --                            | N              | N            | Old drain well. Slotted from 10-78 ft. Gravel packed. <u>1</u>           |
| 601                      | K. & D. Development and Construction | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,505                         | 14.28                         | Mar. 9, 1953                  | T              | Irr          | --   |
| 602                      | do                                   | --                        | --             | --                 | 12             | --         | Qal Rg             | 3,502                         | 5.73                          | Jan. 2, 1974                  | T              | Irr          | --   |
| 603                      | do                                   | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,502                         | 8.41                          | Jan. 4, 1974                  | T              | Irr          | --   |
| * 604                    | do                                   | --                        | --             | 69                 | 16             | --         | Qal Rg             | 3,500                         | 10.46                         | Jan. 2, 1974                  | N              | Irr          | --   |
| 605                      | do                                   | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,499                         | 9.20<br>9.53                  | Mar. 1, 1962<br>Jan. 2, 1974  | T              | Irr          | --   |
| 606                      | do                                   | Balt & Miller             | 1925           | 90                 | 22             | 90         | Qal Rg             | 3,502                         | 11.24<br>8.96                 | Mar. 1, 1962<br>Jan. 2, 1974  | N              | N            | Not used. Old drain well. Slotted from 63-86 ft. <u>1</u>                |
| 607                      | do                                   | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,500                         | 8.25<br>5.53                  | Mar. 1, 1962<br>Jan. 2, 1974  | T              | Irr          | --   |
| 608                      | do                                   | --                        | --             | --                 | 18             | --         | Qal Rg             | 3,500                         | 5.71                          | do                            | T              | Irr          | --   |
| 609                      | do                                   | --                        | --             | --                 | 16             | --         | Qal Rg             | 3,504                         | 7.10                          | do                            | N              | Irr          | --   |
| 610                      | Mrs. S. H. Cook                      | --                        | --             | --                 | 14             | --         | Qal Rg             | 3,500                         | 4.41                          | Jan. 4, 1974                  | T, G           | Irr          | --   |
| 611                      | K. & D. Development and Construction | --                        | --             | --                 | --             | --         | Qal Rg             | 3,500                         | --                            | --                            | T, G           | Irr          | --   |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                       | Owner                                | Driller             | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks   |
|----------------------------|--------------------------------------|---------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|---|
|                            |                                      |                     |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |   |
| Hudspeth County--Continued |                                      |                     |                |                    |                |            |                    |                               |                               |                               |                |              |   |
| PD-48-50-612               | K. & D. Development and Construction | --                  | --             | --                 | 16             | --         | Qal Rg             | 3,500                         | 6.15                          | Jan. 2, 1974                  | T              | Irr          | --  |
| 613                        | do                                   | --                  | --             | --                 | 18             | --         | Qal Rg             | 3,498                         | 6.57<br>4.50                  | May 1, 1962<br>Jan. 2, 1974   | T              | Irr          | --  |
| 614                        | do                                   | --                  | --             | --                 | 16             | --         | Qal Rg             | 3,497                         | 6.68<br>3.57                  | Mar. 1, 1962<br>Jan. 2, 1974  | N              | Irr          | --  |
| * 615                      | J. Hoover                            | --                  | --             | --                 | 64             | 14         | Qal Rg             | 3,493                         | 8.0<br>9.12                   | Feb. 28, 1962<br>Jan. 4, 1974 | N              | Irr          | --  |
| 616                        | K. & D. Development and Construction | J. R. Ballew        | 1927           | 88                 | 10             | 88         | Qal Rg             | 3,500                         | --                            | --                            | N              | N            | Old drain well. Slotted from 10-80 ft. Gravel packed. $\frac{1}{2}$ |
| 617                        | do                                   | W. M. Robinson      | 1926           | 97                 | 18             | 90         | Qal Rg             | 3,501                         | --                            | --                            | N              | N            | Old drain well. Slotted from 68-88 ft. Gravel packed. $\frac{1}{2}$ |
| 618                        | do                                   | Belt & Miller       | 1925           | 142                | 20             | 103        | Qal Rg             | 3,497                         | --                            | --                            | N              | N            | Old drain well. Slotted from 70-86 ft. Gravel packed. $\frac{1}{2}$ |
| 619                        | do                                   | do                  | 1926           | 90                 | 18             | 90         | Qal Rg             | 3,497                         | --                            | --                            | N              | N            | Old drain well. Slotted from 72-83 ft. Gravel packed. $\frac{1}{2}$ |
| 620                        | do                                   | J. R. Ballew        | 1927           | 92                 | 18             | 92         | Qal Rg             | 3,494                         | --                            | --                            | N              | N            | Old drain well. Slotted from 66-83 ft. Gravel packed. $\frac{1}{2}$ |
| 621                        | V. M. Ochoa                          | do                  | 1927           | 92                 | 18             | 92         | Qal Rg             | 3,493                         | --                            | --                            | N              | N            | Old drain well. Slotted from 10-84 ft. Gravel packed. $\frac{1}{2}$ |
| * 901                      | do                                   | --                  | --             | --                 | 18             | --         | Qal Rg             | 3,493                         | 6.66                          | Jan. 4, 1974                  | N              | N            | Abandoned.  |
| 902                        | C. McKinney                          | --                  | --             | --                 | 16             | --         | Qal Rg             | 3,493                         | 7.42                          | Feb. 28, 1962                 | N              | Irr          | --  |
| 903                        | J. Hoover                            | --                  | --             | --                 | 14             | --         | Qal Rg             | 3,493                         | 7.76<br>8.86                  | do<br>Jan. 4, 1974            | T              | Irr          | --  |
| 51-401                     | H. McMillan                          | K. C. Wheeler       | 1962           | 178                | --             | --         | Qtal 6             | --                            | --                            | --                            | N              | N            | Abandoned.  |
| 402                        | J. Hoover                            | --                  | --             | --                 | 18             | --         | Qal Rg             | 3,493                         | 6.37<br>5.30                  | Feb. 28, 1962<br>Jan. 4, 1974 | N              | Irr          | --  |
| 403                        | do                                   | --                  | --             | --                 | 12             | --         | Qal Rg             | 3,493                         | 5.84<br>4.63                  | Feb. 28, 1962<br>Jan. 4, 1974 | N              | Irr          | Observation well.   |
| 404                        | do                                   | --                  | --             | --                 | 12             | --         | Qal Rg             | 3,493                         | 6.9<br>4.40                   | Feb. 28, 1962<br>Jan. 4, 1974 | N              | Irr          | Do.   |
| 405                        | do                                   | --                  | --             | --                 | 14             | --         | Qal Rg             | 3,492                         | 7.24<br>4.90                  | Feb. 28, 1962<br>Jan. 4, 1974 | T, G           | Irr          | Do.   |
| 406                        | Mrs. S. H. Cook                      | --                  | --             | --                 | 18             | --         | Qal Rg             | 3,493                         | 6.5<br>3.56                   | Feb. 28, 1962<br>Jan. 4, 1974 | N              | Irr          | --  |
| 407                        | L. R. Young                          | --                  | 1951           | 79                 | 16             | --         | Qal Rg             | 3,490                         | 9.59<br>5.64                  | May 1, 1962<br>Jan. 7, 1974   | N              | Irr          | --  |
| 408                        | Grady Miller, Jr.                    | Roscoe Moss Company | 1925           | 90                 | 18             | 92         | Qal Rg             | 3,493                         | --                            | --                            | N              | N            | Old drain well. Slotted from 50-82 ft. Gravel packed. $\frac{1}{2}$ |
| 409                        | J. Hoover                            | Belt & Miller       | 1925           | 89                 | 18             | 89         | Qal Rg             | 3,493                         | --                            | --                            | N              | N            | Old drain well. Slotted from 70-84 ft. Gravel packed. $\frac{1}{2}$ |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                       | Owner               | Driller                      | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks  |
|----------------------------|---------------------|------------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|--|
|                            |                     |                              |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |  |
| Hudspeth County--Continued |                     |                              |                |                    |                |            |                    |                               |                               |                               |                |              |  |
| FD-48-51-410               | J. Hoover           | Roscoe Moss Company          | 1926           | 90                 | 18             | 90         | Qal Rg             | 3,492                         | --                            | --                            | N              | N            | Old drain well. Slotted from 40-82 ft. Gravel packed. $\frac{1}{2}$                            |
| 411                        | do                  | do                           | 1926           | 90                 | 18             | 90         | Qal Rg             | 3,491                         | --                            | --                            | N              | N            | Old drain well. Slotted from 10-75 ft. Gravel packed. $\frac{1}{2}$                            |
| 412                        | J. B. Bean          | do                           | 1926           | 82                 | 18             | 82         | Qal Rg             | 3,493                         | --                            | --                            | N              | N            | Old drain well. Slotted from 40-60 ft. Gravel packed. $\frac{1}{2}$                            |
| 413                        | J. Hoover           | J. R. Ballew                 | 1927           | 106                | 18             | 106        | Qal Rg             | 3,494                         | --                            | --                            | N              | N            | Old drain well. Slotted from 10-54 ft. Gravel packed. $\frac{1}{2}$                            |
| 414                        | J. B. Bean          | T. Boudreaux                 | 1928           | 74                 | 18             | 60         | Qal Rg             | 3,493                         | --                            | --                            | N              | N            | Old drain well. Slotted from 10-56 ft. Gravel packed. $\frac{1}{2}$                            |
| 415                        | J. Hoover           | do                           | 1928           | 75                 | 18             | 63         | Qal Rg             | 3,493                         | --                            | --                            | N              | N            | Old drain well. Slotted from 15-60 ft. Gravel packed. $\frac{1}{2}$                            |
| 601                        | Tommy Powell        | H. Virdell                   | 1960           | 75                 | 6              | 75         | Qtal 6             | --                            | 30                            | Nov. 13, 1964                 | Sub, E         | D            | Reported yield 20 gpm.   |
| 602                        | --                  | Hardrock Schieffer           | --             | 400                | --             | --         | Qtal 6             | --                            | --                            | --                            | --             | --           | Abandoned test hole.   |
| * 702                      | Jim Bean            | Bill Mize                    | 1950           | 83                 | 16             | --         | Qal Rg             | 3,488                         | 8.28<br>7.0                   | May 1, 1962<br>Jan. 7, 1974   | N              | Irr          | Not used.  |
| 703                        | T. R. Chesser       | do                           | 1950           | 80                 | 16             | --         | Qal Rg             | 3,488                         | 9.20                          | do                            | T, G           | Irr          | --   |
| 704                        | Rene Gonzalez       | --                           | --             | --                 | 16             | --         | Qal Rg             | 3,488                         | 9.33<br>7.80                  | Mar. 13, 1962<br>Jan. 7, 1974 | T              | Irr          | --   |
| 705                        | do                  | --                           | --             | 71                 | 18             | 71         | Qal Rg             | 3,488                         | 8.33                          | do                            | N              | Irr          | Not used.  |
| 706                        | G. E. Spinnler, Jr. | --                           | 1963           | 90                 | 16             | 90         | Qal Rg             | 3,490                         | 8.14                          | do                            | T, G           | Irr          | Slotted from 50-90 ft. Pump set at 90 ft.  |
| 707                        | do                  | Cecil Ballard                | 1963           | 90                 | 16             | 90         | Qal Rg             | 3,490                         | 8.07                          | do                            | N              | Irr          | Not used. Slotted from 50-90 ft.   |
| 708                        | do                  | -- McKinsey                  | 1951           | 84                 | 16             | 84         | Qal Rg             | 3,490                         | 7.49<br>8.06                  | Mar. 13, 1962<br>Jan. 7, 1974 | T, G           | Irr          | Slotted from 44-84 ft. Gravel packed. Pump set at 70 ft. Reported yield 764 gpm. $\frac{1}{2}$ |
| 709                        | do                  | do                           | 1951           | 90                 | 16             | 90         | Qal Rg             | 3,490                         | 9.10<br>7.66                  | Mar. 13, 1962<br>Jan. 7, 1974 | T, G           | Irr          | Slotted from 55-90 ft. Gravel packed. Pump set at 70 ft. Reported yield 754 gpm. $\frac{1}{2}$ |
| 710                        | do                  | El Paso Drilling & Equipment | --             | 82                 | 16             | 82         | Qal Rg             | 3,490                         | 10.87<br>10.17                | Mar. 13, 1962<br>Jan. 7, 1974 | T              | Irr          | Slotted from 50-82 ft. Gravel packed. Pump set at 60 ft. Reported yield 613 gpm. $\frac{1}{2}$ |
| 711                        | do                  | --                           | --             | 30                 | 72             | --         | Qal Rg             | 3,490                         | 10.8                          | Apr. 19, 1961                 | N              | S            | Destroyed. Yield 10 gpm.   |
| 712                        | S. W. Cowan         | Hardrock Drilling Company    | 1951           | 80                 | 18             | --         | Qal Rg             | 3,485                         | 9.9<br>8.83                   | Feb. 23, 1962<br>Jan. 8, 1974 | T              | Irr          | Not used.  |
| * 713                      | Rene Gonzalez       | Rene Gonzalez                | 1974           | 18                 | --             | --         | Qal Rg             | 3,490                         | --                            | --                            | J, E           | D, S         | --   |
| 714                        | do                  | Roscoe Moss Company          | 1926           | 89                 | 18             | 89         | Qal Rg             | 3,490                         | --                            | --                            | N              | N            | Old drain well. Slotted from 10-81 ft. Gravel packed. $\frac{1}{2}$                            |
| 715                        | do                  | do                           | 1926           | 83                 | 18             | 83         | Qal Rg             | 3,490                         | --                            | --                            | N              | N            | Old drain well. Slotted from 20-74 ft. Gravel packed. $\frac{1}{2}$                            |
| 716                        | G. E. Spinnler, Jr. | do                           | 1926           | 88                 | 18             | 88         | Qal Rg             | 3,489                         | --                            | --                            | N              | N            | Old drain well. Slotted from 55-80 ft. Gravel packed. $\frac{1}{2}$                            |
| 717                        | do                  | do                           | 1926           | 89                 | 18             | 89         | Qal Rg             | 3,487                         | --                            | --                            | N              | N            | Old drain well. Slotted from 20-82 ft. Gravel packed. $\frac{1}{2}$                            |

See footnotes at end of table.

Table 5.--Records of Selected Wells--Continued

| Well                       | Owner               | Driller                   | Date completed | Depth of well (ft) | Casing         |            | Water bearing unit | Altitude of land surface (ft) | Water level                   |                               | Method of lift | Use of water | Remarks  |
|----------------------------|---------------------|---------------------------|----------------|--------------------|----------------|------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------|--------------|--|
|                            |                     |                           |                |                    | Diameter (in.) | Depth (ft) |                    |                               | Below land-surface datum (ft) | Date of measurement           |                |              |  |
| Hudspeth County--Continued |                     |                           |                |                    |                |            |                    |                               |                               |                               |                |              |  |
| PD-48-51-718               | John Segulia        | J. R. Ballew              | 1927           | 89                 | 18             | 89         | Qal Rg             | 3,490                         | --                            | --                            | N              | N            | Old drain well. Slotted from 10-82 ft. Gravel packed. <u>1</u> |
| 719                        | S. W. Cowan         | Roscoe Moss Company       | 1926           | 92                 | 18             | 92         | Qal Rg             | 3,485                         | --                            | --                            | N              | N            | Old drain well. Slotted from 25-85 ft. Gravel packed. <u>1</u> |
| * 802                      | Grady Miller, Jr.   | -- McKinsey               | 1952           | 90                 | 16             | --         | Qal Rg             | 3,480                         | 10.78<br>7.31                 | Mar. 9, 1953<br>Feb. 9, 1977  | T              | Irr          | Observation well. <u>3</u>                                     |
| 803                        | S. W. Cowan         | Hardrock Drilling Company | 1951           | 81                 | 16             | 81         | Qal Rg             | 3,487                         | 5.9                           | Mar. 6, 1962                  | T              | Irr          | Slotted from 51-81 ft. Gravel packed.                          |
| * 804                      | F. D. Gibson        | Border Machinery Company  | 1951           | 85                 | 16             | --         | Qal Rg             | 3,479                         | 6.3<br>4.78                   | Mar. 7, 1962<br>Jan. 8, 1974  | T, G           | Irr          | Gravel packed.   |
| * 805                      | do                  | -- Schieffer              | 1951           | 81                 | 16             | --         | Qal Rg             | 3,477                         | 7.5<br>5.45                   | Mar. 7, 1962<br>Jan. 8, 1974  | T, G           | Irr          | Reported yield 800 gpm. <u>1</u>                               |
| 806                        | Sportsman Club      | Roscoe Moss Company       | 1926           | 89                 | 18             | 89         | Qal Rg             | 3,485                         | --                            | --                            | N              | N            | Old drain well. Slotted from 55-80 ft. Gravel packed. <u>1</u> |
| 807                        | Grady Miller, Jr.   | do                        | 1926           | 95                 | 18             | 95         | Qal Rg             | 3,480                         | --                            | --                            | N              | N            | Old drain well. Slotted from 15-86 ft. Gravel packed. <u>1</u> |
| 808                        | F. D. Gibson        | do                        | 1926           | 89                 | 18             | 89         | Qal Rg             | 3,485                         | --                            | --                            | N              | N            | Old drain well. Slotted from 15-80 ft. Gravel packed. <u>1</u> |
| * 901                      | Richard Rosen, Inc. | --                        | --             | 68                 | 16             | --         | Qal Rg             | 3,476                         | 3.0                           | Jan. 8, 1974                  | N              | Irr          | Not used.  |
| 59-303                     | do                  | --                        | 1948           | 80                 | 16             | --         | Qal Rg             | 3,470                         | 4.96<br>6.05                  | Mar. 27, 1962<br>Jan. 8, 1974 | T, G           | Irr          | Gravel packed.   |
| 304                        | do                  | --                        | 1948           | 67                 | 16             | --         | Qal Rg             | 3,470                         | 6.14<br>4.42                  | Mar. 27, 1962<br>Jan. 8, 1974 | N              | Irr          | Not used.  |
| * 60-101                   | S. W. Cowan         | --                        | 1952           | 84                 | 16             | 84         | Qal Rg             | 3,435                         | 12.74<br>6.86                 | Mar. 1962<br>Jan. 11, 1974    | N              | Irr          | Reported yield 1,500 gpm.                                      |
| 401                        | J. B. Bean          | --                        | 1950           | 70                 | 16             | --         | Qal Rg             | 3,460                         | 7.60<br>5.36                  | May 9, 1953<br>Jan. 11, 1974  | T, G           | Irr          | Historical observation well. <u>3</u>                          |
| 802                        | T. Neely            | --                        | --             | --                 | 4              | --         | Qal Rg             | --                            | 7.2                           | Mar. 16, 1962                 | C, W           | S            | --   |
| 901                        | Mary Neely & Son    | Bud Bean                  | 1952           | --                 | 5              | --         | Qal 6              | 3,540                         | 115.00<br>108.19              | Jan. 9, 1970<br>Feb. 9, 1977  | C, G           | S            | Observation well. <u>3</u>                                     |
| * 50-04-201                | J. F. Neely         | Hardrock Drilling Company | --             | 85                 | 16             | 85         | Qal Rg             | 3,450                         | 10.8<br>9.58                  | Jan. 1962<br>Jan. 11, 1974    | T, G           | Irr          | Slotted from 60-85 ft.   |

\* For chemical analyses of water, see Table 7.

- 1 Drillers' log in files of the Texas Department of Water Resources, Austin, Texas.  
2 Geophysical log in files of the Texas Department of Water Resources, Austin, Texas.  
3 For water-level measurements from observation wells, see Table 6.  
4 For specific conductance and dissolved-solids content of water, see Table 8.

**Table 6.—Water-Level Measurements From Observation Wells**

Measurements in feet below land-surface datum.

| DATE                     | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|--------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>El Paso County</b>    |             | <b>Well JL-49-03-317—Continued</b> |             | <b>Well JL-49-04-105—Continued</b> |             |
| <b>Well JL-48-33-701</b> |             | June 19, 1956                      | 4.8         | Sept. 8, 1958                      | 14.6        |
| Owner: John O. Bailey    |             | Jan. 9, 1957                       | 6.9         | Sept. 19, 1958                     | 15.3        |
| Aug. 3, 1948             | 8.00        | Jan. 9, 1958                       | 5.9         | Oct. 2, 1958                       | 9.4         |
| Mar. 9, 1953             | 5.05        | Oct. 23, 1958                      | 3.0         | Oct. 16, 1958                      | 8.9         |
| Jan. 18, 1954            | 3.80        | Jan. 13, 1959                      | 4.6         | Oct. 31, 1958                      | 8.3         |
| Jan. 30, 1955            | 8.91        | <b>Well JL-49-03-912</b>           |             | Nov. 10, 1958                      | 32.3        |
| Jan. 31, 1956            | 10.64       | Owner: C. M. Tallmon               |             | Nov. 24, 1958                      | 37.1        |
| Jan. 21, 1957            | 11.85       | Mar. 26, 1952                      | 13.7        | Dec. 2, 1958                       | 37.7        |
| Jan. 28, 1958            | 13.93       | Feb. 19, 1953                      | 9.8         | Dec. 12, 1958                      | 38.0        |
| Jan. 19, 1959            | 5.58        | Nov. 11, 1954                      | 11.3        | Dec. 22, 1958                      | 38.5        |
| Jan. 29, 1960            | 5.07        | Jan. 21, 1955                      | 10.6        | Jan. 9, 1959                       | 39.2        |
| Jan. 29, 1962            | 4.85        | Jan. 18, 1956                      | 11.9        | Feb. 16, 1973                      | 37.86       |
| Dec. 13, 1962            | 5.43        | Jan. 11, 1967                      | 13.2        | <b>Well JL-49-04-106</b>           |             |
| Dec. 11, 1963            | 4.70        | Jan. 10, 1958                      | 12.1        | Owner: City of El Paso             |             |
| Dec. 14, 1964            | 12.14       | Jan. 13, 1959                      | 7.7         | Aug. 28, 1951                      | 6.77        |
| Feb. 10, 1966            | 12.78       | <b>Well JL-49-03-914</b>           |             | Feb. 16, 1953                      | 6.67        |
| Dec. 28, 1966            | 6.05        | Owner: H. L. Cordell               |             | Nov. 10, 1954                      | 7.00        |
| Dec. 27, 1967            | 7.50        | Feb. 19, 1953                      | 10.2        | Jan. 20, 1955                      | 6.78        |
| Jan. 27, 1969            | 6.02        | Jan. 8, 1954                       | 10.8        | Jan. 17, 1956                      | 7.54        |
| Jan. 31, 1970            | 5.28        | Mar. 18, 1975                      | 9.62        | Aug. 17, 1956                      | 7.26        |
| Jan. 12, 1972            | 5.30        | <b>Well JL-49-04-104</b>           |             | Jan. 10, 1957                      | 7.99        |
| <b>Well JL-49-03-303</b> |             | Owner: City of El Paso             |             | June 11, 1957                      | 2.61        |
| Owner: D. Greenwood      |             | Aug. 5, 1957                       | 24.88       | Jan. 9, 1958                       | 7.79        |
| Dec. 29, 1967            | 11.20       | Feb. 16, 1973                      | 39.51       | Oct. 17, 1958                      | 5.87        |
| Oct. 10, 1974            | 9.45        | Jan. 22, 1974                      | 141.85      | Jan. 13, 1959                      | 7.16        |
| Mar. 14, 1975            | 10.91       | <b>Well JL-49-04-105</b>           |             | Feb. 19, 1959                      | 7.55        |
| <b>Well JL-49-03-317</b> |             | Owner: City of El Paso             |             | Jan. 18, 1960                      | 7.73        |
| Owner: M. Baca           |             | May 26, 1958                       | 39.3        | Jan. 30, 1962                      | 8.10        |
| Jan. 11, 1952            | 5.63        | June 9, 1958                       | 38.8        | Dec. 27, 1962                      | 7.93        |
| Nov. 8, 1954             | 4.2         | June 17, 1958                      | 37.7        | Dec. 16, 1963                      | 8.36        |
| Jan. 19, 1955            | 5.1         | June 30, 1958                      | 38.7        | Dec. 8, 1964                       | 10.23       |
| Apr. 25, 1955            | 4.9         | July 25, 1958                      | 40.1        | Jan. 14, 1966                      | 9.81        |
| June 6, 1955             | 5.3         | Aug. 12, 1958                      | 43.6        | Dec. 14, 1966                      | 9.09        |
| Sept. 27, 1955           | 4.7         | Aug. 28, 1958                      | 18.9        | Oct. 23, 1967                      | 9.03        |
| Jan. 16, 1956            | 6.1         |                                    |             | Dec. 29, 1967                      | 9.38        |
| Apr. 26, 1956            | 3.3         |                                    |             | Jan. 22, 1974                      | 64.18       |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                     | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|--------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-107</b> |             | <b>Well JL-49-04-111—Continued</b> |             | <b>Well JL-49-04-111—Continued</b> |             |
| Owner: City of El Paso   |             | Oct. 3, 1971                       | 51.12       | Sept. 20, 1975                     | 52.37       |
| Aug. 26, 1957            | 14.55       | Nov. 20, 1971                      | 35.33       | Oct. 20, 1975                      | 91.92       |
| Jan. 22, 1974            | 22.67       | Dec. 14, 1971                      | 21.40       | Nov. 20, 1975                      | 61.77       |
| Jan. 27, 1975            | 19.88       | Feb. 20, 1972                      | 75.62       | Dec. 20, 1975                      | 57.55       |
| Jan. 22, 1976            | 28.82       | Mar. 20, 1972                      | 75.02       | Jan. 20, 1976                      | 71.95       |
| <b>Well JL-49-04-110</b> |             | Apr. 19, 1972                      | 67.57       | Mar. 12, 1976                      | 91.00       |
| Owner: City of El Paso   |             | May 20, 1972                       | 90.45       | Apr. 20, 1976                      | 86.80       |
| Sept. 17, 1964           | 29.9        | June 20, 1972                      | 46.34       | May 20, 1976                       | 90.79       |
| Jan. 1972                | 22.62       | July 20, 1972                      | 61.50       | June 24, 1976                      | 93.86       |
| Jan. 22, 1974            | 17.34       | Aug. 20, 1972                      | 31.04       | July 22, 1976                      | 65.88       |
| Jan. 27, 1975            | 16.20       | Sept. 27, 1972                     | 31.68       | Aug. 16, 1976                      | 79.95       |
| Jan. 22, 1976            | 21.12       | Oct. 13, 1972                      | 49.36       | Sept. 17, 1976                     | 80.42       |
| <b>Well JL-49-04-111</b> |             | Nov. 1, 1972                       | 36.09       | Oct. 21, 1976                      | 87.27       |
| Owner: City of El Paso   |             | Dec. 17, 1972                      | 38.37       | Nov. 21, 1976                      | 76.58       |
| May 26, 1966             | 58.70       | Feb. 20, 1973                      | 40.60       | Dec. 21, 1976                      | 63.29       |
| Jan. 20, 1967            | 86.90       | Mar. 20, 1973                      | 59.31       | Jan. 19, 1977                      | 74.87       |
| Feb. 8, 1967             | 84.30       | Apr. 20, 1973                      | 51.10       | Feb. 17, 1977                      | 77.00       |
| Mar. 20, 1967            | 55.16       | May 20, 1973                       | 43.74       | Mar. 5, 1977                       | 91.34       |
| Apr. 20, 1967            | 38.82       | June 20, 1973                      | 55.58       | Mar. 23, 1977                      | 89.79       |
| May 20, 1967             | 36.15       | Aug. 20, 1973                      | 71.47       | Apr. 20, 1977                      | 90.89       |
| June 20, 1967            | 30.52       | Sept. 20, 1973                     | 64.58       | May 24, 1977                       | 80.70       |
| Aug. 20, 1967            | 46.57       | Oct. 20, 1973                      | 74.13       | June 21, 1977                      | 69.09       |
| Sept. 20, 1967           | 39.92       | Dec. 21, 1973                      | 83.94       | July 22, 1977                      | 41.90       |
| Oct. 14, 1967            | 41.98       | Feb. 20, 1974                      | 63.90       | <b>Well JL-49-04-112</b>           |             |
| Nov. 15, 1967            | 54.60       | Mar. 10, 1974                      | 92.70       | Owner: City of El Paso             |             |
| Dec. 20, 1967            | 87.00       | July 15, 1974                      | 58.59       | Nov. 28, 1966                      | 25.39       |
| Jan. 20, 1968            | 72.19       | Aug. 26, 1974                      | 65.55       | Dec. 23, 1966                      | 26.48       |
| Feb. 20, 1968            | 85.93       | Oct. 20, 1974                      | 59.95       | Dec. 28, 1967                      | 25.54       |
| Mar. 19, 1968            | 67.97       | Nov. 20, 1974                      | 66.70       | Jan. 21, 1969                      | 23.77       |
| Mar. 23, 1971            | 88.16       | Dec. 20, 1974                      | 67.12       | June 18, 1969                      | 25.58       |
| Apr. 28, 1971            | 66.10       | Jan. 20, 1975                      | 64.35       | Jan. 21, 1970                      | 23.71       |
| May 20, 1971             | 45.05       | Feb. 20, 1975                      | 64.36       | June 23, 1970                      | 23.33       |
| June 20, 1971            | 43.05       | Mar. 21, 1975                      | 87.30       | Jan. 26, 1971                      | 25.30       |
| July 12, 1971            | 38.54       | May 20, 1975                       | 76.49       | June 5, 1974                       | 25.49       |
| Aug. 26, 1971            | 58.32       | June 20, 1975                      | 90.44       | Jan. 22, 1976                      | 23.93       |
| Sept. 20, 1971           | 52.05       | July 20, 1975                      | 91.27       | Mar. 4, 1977                       | 23.37       |
|                          |             | Aug. 20, 1975                      | 70.80       |                                    |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                     | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|--------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-113</b> |             | <b>Well JL-49-04-115—Continued</b> |             | <b>Well JL-49-04-115—Continued</b> |             |
| Owner: City of El Paso   |             | Jan. 20, 1960                      | 8.12        | Feb. 20, 1963                      | 11.22       |
| May 2, 1960              | 48.08       | Feb. 20, 1960                      | 8.47        | Mar. 20, 1963                      | 9.03        |
| Jan. 1972                | 45.63       | Mar. 20, 1960                      | 8.41        | Apr. 20, 1963                      | 8.92        |
| Feb. 16, 1973            | 34.42       | Apr. 20, 1960                      | 7.94        | May 20, 1963                       | 8.52        |
| Jan. 27, 1975            | 52.83       | May 20, 1960                       | 8.96        | June 20, 1963                      | 11.72       |
| Jan. 22, 1976            | 58.36       | June 20, 1960                      | 8.90        | July 20, 1963                      | 13.55       |
| <b>Well JL-49-04-115</b> |             | July 20, 1960                      | 7.55        | Aug. 20, 1963                      | 10.45       |
| Owner: City of El Paso   |             | Aug. 20, 1960                      | 7.13        | Sept. 20, 1963                     | 8.29        |
| Sept. 21, 1957           | 9.04        | Sept. 20, 1960                     | 6.93        | Oct. 23, 1963                      | 8.97        |
| Oct. 20, 1957            | 9.00        | Oct. 20, 1960                      | 8.06        | Nov. 27, 1963                      | 8.67        |
| Nov. 20, 1957            | 9.08        | Nov. 20, 1960                      | 8.54        | Dec. 20, 1963                      | 8.98        |
| Dec. 20, 1957            | 9.28        | Dec. 20, 1960                      | 8.67        | Jan. 20, 1964                      | 9.37        |
| Jan. 20, 1958            | 9.40        | Jan. 20, 1961                      | 8.98        | Feb. 20, 1964                      | 9.95        |
| Feb. 20, 1958            | 9.82        | Feb. 20, 1961                      | 9.16        | Mar. 20, 1964                      | 11.90       |
| Mar. 20, 1958            | 10.17       | Mar. 20, 1961                      | 8.40        | Apr. 20, 1964                      | 9.77        |
| Apr. 20, 1958            | 8.68        | Apr. 20, 1961                      | 8.88        | May 20, 1964                       | 10.70       |
| May 20, 1958             | 8.19        | May 20, 1961                       | 9.00        | June 20, 1964                      | 14.09       |
| June 20, 1958            | 7.55        | June 20, 1961                      | 8.53        | July 20, 1964                      | 11.92       |
| July 20, 1958            | 7.45        | July 20, 1961                      | 7.73        | Aug. 20, 1964                      | 11.93       |
| Aug. 20, 1958            | 7.39        | Aug. 20, 1961                      | 9.31        | Sept. 20, 1964                     | 10.10       |
| Sept. 20, 1958           | 6.04        | Sept. 20, 1961                     | 7.21        | Oct. 20, 1964                      | 11.10       |
| Oct. 28, 1958            | 6.06        | Oct. 18, 1961                      | 8.27        | Nov. 16, 1964                      | 11.44       |
| Nov. 20, 1958            | 7.05        | Nov. 20, 1961                      | 8.54        | Dec. 20, 1964                      | 11.19       |
| Dec. 20, 1958            | 7.48        | Dec. 20, 1961                      | 8.73        | Jan. 24, 1965                      | 11.68       |
| Jan. 20, 1959            | 7.57        | Jan. 20, 1962                      | 8.93        | Feb. 20, 1965                      | 12.33       |
| Feb. 20, 1959            | 8.00        | Feb. 20, 1962                      | 9.23        | Mar. 20, 1965                      | 16.93       |
| Mar. 20, 1959            | 7.57        | Mar. 20, 1962                      | 12.34       | Apr. 20, 1965                      | 12.05       |
| Apr. 20, 1959            | 6.87        | Apr. 20, 1962                      | 8.34        | May 20, 1965                       | 14.38       |
| May 20, 1959             | 7.00        | May 20, 1962                       | 10.90       | June 11, 1965                      | 14.33       |
| June 20, 1959            | 7.79        | June 20, 1962                      | 8.28        | July 20, 1965                      | 12.60       |
| July 20, 1959            | 6.98        | July 20, 1962                      | 7.57        | Aug. 20, 1965                      | 11.70       |
| Aug. 20, 1959            | 6.50        | Aug. 20, 1962                      | 9.39        | Sept. 20, 1965                     | 10.29       |
| Sept. 20, 1959           | 6.11        | Sept. 20, 1962                     | 6.83        | Oct. 20, 1965                      | 10.89       |
| Oct. 20, 1959            | 7.36        | Oct. 20, 1962                      | 6.90        | Nov. 20, 1965                      | 11.23       |
| Nov. 20, 1959            | 7.73        | Nov. 20, 1962                      | 8.25        | Jan. 28, 1966                      | 11.19       |
| Dec. 20, 1959            | 7.93        | Dec. 20, 1962                      | 8.67        | Feb. 20, 1966                      | 11.96       |
|                          |             | Jan. 20, 1963                      | 7.88        | Mar. 20, 1966                      | 12.04       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-115—Continued</b> |             | <b>Well JL-49-04-115—Continued</b> |             | <b>Well JL-49-04-115—Continued</b> |             |
| Apr. 20, 1966                      | 10.08       | Apr. 20, 1969                      | 10.99       | Apr. 20, 1972                      | 12.96       |
| May 20, 1966                       | 9.32        | May 20, 1969                       | 11.63       | May 20, 1972                       | 18.08       |
| June 19, 1966                      | 13.44       | June 20, 1969                      | 10.05       | June 20, 1972                      | 13.80       |
| July 20, 1966                      | 11.51       | July 20, 1969                      | 9.20        | July 20, 1972                      | 14.04       |
| Aug. 21, 1966                      | 9.42        | Aug. 20, 1969                      | 8.77        | Aug. 20, 1972                      | 14.40       |
| Sept. 13, 1966                     | 8.77        | Sept. 20, 1969                     | 8.39        | Sept. 20, 1972                     | 13.50       |
| Oct. 20, 1966                      | 9.91        | Oct. 20, 1969                      | 10.16       | Oct. 20, 1972                      | 12.79       |
| Nov. 20, 1966                      | 9.52        | Nov. 20, 1969                      | 8.94        | Nov. 20, 1972                      | 12.08       |
| Dec. 20, 1966                      | 10.54       | Dec. 20, 1969                      | 9.24        | Dec. 20, 1972                      | 11.97       |
| Jan. 20, 1967                      | 11.15       | Jan. 20, 1970                      | 9.29        | Jan. 9, 1973                       | 11.92       |
| Feb. 20, 1967                      | 11.04       | Feb. 20, 1970                      | 9.72        | Feb. 20, 1973                      | 11.94       |
| Mar. 20, 1967                      | 10.93       | Mar. 20, 1970                      | 8.83        | Mar. 15, 1973                      | 12.16       |
| Apr. 20, 1967                      | 10.68       | Apr. 20, 1970                      | 9.46        | Apr. 15, 1973                      | 12.32       |
| May 20, 1967                       | 11.05       | May 20, 1970                       | 9.62        | May 14, 1973                       | 12.43       |
| June 20, 1967                      | 9.96        | June 20, 1970                      | 11.31       | June 15, 1973                      | 13.14       |
| July 20, 1967                      | 13.97       | July 20, 1970                      | 7.78        | July 9, 1973                       | 15.00       |
| Aug. 9, 1967                       | 13.98       | Aug. 20, 1970                      | 9.85        | Oct. 15, 1973                      | 10.15       |
| Sept. 27, 1967                     | 10.17       | Sept. 20, 1970                     | 9.07        | Nov. 9, 1973                       | 8.69        |
| Oct. 20, 1967                      | 10.28       | Oct. 20, 1970                      | 9.77        | Dec. 21, 1973                      | 9.58        |
| Nov. 20, 1967                      | 10.44       | Nov. 20, 1970                      | 10.50       | Mar. 15, 1974                      | 8.66        |
| Dec. 20, 1967                      | 10.64       | Dec. 20, 1970                      | 9.41        | Apr. 15, 1974                      | 9.87        |
| Jan. 20, 1968                      | 10.65       | Jan. 20, 1971                      | 10.04       | June 15, 1974                      | 12.12       |
| Feb. 20, 1968                      | 10.32       | Feb. 4, 1971                       | 9.25        | July 20, 1974                      | 9.26        |
| Mar. 20, 1968                      | 10.89       | Mar. 20, 1971                      | 10.40       | Aug. 15, 1974                      | 10.51       |
| Apr. 20, 1968                      | 8.58        | Apr. 20, 1971                      | 10.50       | Sept. 15, 1974                     | 8.56        |
| May 20, 1968                       | 11.55       | May 20, 1971                       | 11.46       | Oct. 15, 1974                      | 8.45        |
| June 20, 1968                      | 10.88       | June 20, 1971                      | 12.28       | Nov. 15, 1974                      | 7.33        |
| July 20, 1968                      | 10.43       | July 20, 1971                      | 13.23       | Dec. 15, 1974                      | 8.31        |
| Aug. 20, 1968                      | 9.60        | Aug. 20, 1971                      | 12.04       | Jan. 15, 1975                      | 8.36        |
| Sept. 20, 1968                     | 8.80        | Sept. 20, 1971                     | 10.71       | Feb. 15, 1975                      | 8.52        |
| Oct. 20, 1968                      | 9.75        | Oct. 20, 1971                      | 10.68       | Mar. 15, 1975                      | 10.05       |
| Nov. 20, 1968                      | 9.60        | Nov. 20, 1971                      | 10.77       | Apr. 15, 1975                      | 8.66        |
| Dec. 20, 1968                      | 9.24        | Dec. 20, 1971                      | 9.09        | May 15, 1975                       | 9.48        |
| Jan. 20, 1969                      | 9.46        | Jan. 25, 1972                      | 10.58       | June 13, 1975                      | 10.05       |
| Feb. 20, 1969                      | 10.34       | Feb. 20, 1972                      | 11.76       | July 20, 1975                      | 9.51        |
| Mar. 20, 1969                      | 10.62       | Mar. 20, 1972                      | 12.21       | Aug. 15, 1975                      | 9.53        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                          | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|-------------------------------|-------------|
| <b>Well JL-49-04-115—Continued</b> |             | <b>Well JL-49-04-118—Continued</b> |             | <b>Well JL-49-04-122</b>      |             |
| Nov. 20, 1975                      | 9.16        | Jan. 10, 1958                      | 48.8        | Owner: C. C. Woodward         |             |
| Dec. 20, 1975                      | 8.92        | Jan. 28, 1969                      | 51.2        | Jan. 11, 1952                 | 9.75        |
| Jan. 15, 1976                      | 9.18        | <b>Well JL-49-04-119</b>           |             | Feb. 12, 1953                 | 11.01       |
| Feb. 15, 1976                      | 7.99        | Owner: City of El Paso             |             | Nov. 9, 1954                  | 11.06       |
| Mar. 15, 1976                      | 11.20       | May 28, 1968                       | 14.62       | Jan. 20, 1955                 | 10.63       |
| Apr. 20, 1976                      | 12.18       | July 18, 1968                      | 12.10       | Jan. 16, 1956                 | 11.24       |
| May 20, 1976                       | 10.29       | Oct. 25, 1968                      | 12.85       | Jan. 9, 1958                  | 11.22       |
| June 24, 1976                      | 10.55       | Jan. 21, 1969                      | 13.24       | Jan. 15, 1959                 | 10.11       |
| July 22, 1976                      | 9.15        | Mar. 20, 1969                      | 13.58       | Jan. 13, 1960                 | 10.47       |
| Aug. 16, 1976                      | 10.43       | June 18, 1969                      | 13.06       | Dec. 27, 1962                 | 9.92        |
| Sept. 17, 1976                     | 8.68        | Sept. 26, 1969                     | 11.53       | Dec. 28, 1967                 | 10.10       |
| Oct. 21, 1976                      | 9.54        | Jan. 21, 1970                      | 13.89       | Jan. 28, 1968                 | 10.03       |
| Nov. 21, 1976                      | 9.36        | Mar. 27, 1970                      | 13.96       | Jan. 27, 1970                 | 9.35        |
| Dec. 21, 1976                      | 9.91        | June 23, 1970                      | 12.63       | Feb. 1, 1971                  | 9.65        |
| Jan. 19, 1977                      | 9.21        | Sept. 23, 1970                     | 11.39       | Jan. 7, 1972                  | 10.10       |
| Feb. 17, 1977                      | 9.84        | Jan. 1971                          | 13.47       | Jan. 26, 1973                 | 11.65       |
| Mar. 23, 1977                      | 13.30       | June 21, 1971                      | 13.93       | Jan. 1974                     | 10.54       |
| Apr. 20, 1977                      | 11.48       | Oct. 28, 1971                      | 14.10       | Jan. 23, 1975                 | 9.58        |
| May 24, 1977                       | 14.10       | Jan. 7, 1972                       | 14.82       | Jan. 10, 1976                 | 6.70        |
| June 21, 1977                      | 16.81       | Mar. 24, 1972                      | 15.27       | Dec. 28, 1976                 | 8.79        |
| July 22, 1977                      | 17.09       | June 30, 1972                      | 15.86       | <b>Well JL-49-04-124</b>      |             |
| <b>Well JL-49-04-116</b>           |             | Sept. 26, 1972                     | 14.86       | Owner: Anna L. Andreas        |             |
| Owner: City of El Paso             |             | Mar. 22, 1973                      | 16.42       | Jan. 10, 1952                 | 22.9        |
| July 13, 1964                      | 25.40       | Jan. 22, 1974                      | 15.09       | Feb. 12, 1953                 | 20.2        |
| Jan. 1972                          | 10.85       | Apr. 11, 1974                      | 15.42       | Nov. 9, 1954                  | 22.6        |
| Feb. 16, 1973                      | 12.00       | June 5, 1974                       | 15.06       | Jan. 20, 1955                 | 21.8        |
| Jan. 22, 1974                      | 9.74        | Oct. 2, 1974                       | 13.90       | Jan. 16, 1956                 | 22.7        |
| Jan. 27, 1975                      | 9.14        | Jan. 27, 1975                      | 15.41       | Jan. 10, 1957                 | 23.8        |
| Jan. 22, 1976                      | 10.04       | Mar. 19, 1975                      | 15.80       | Jan. 9, 1958                  | 23.9        |
| <b>Well JL-49-04-118</b>           |             | Sept. 29, 1975                     | 10.71       | Jan. 12, 1958                 | 24.4        |
| Owner: U.S. Bureau of Prisons      |             | Jan. 1976                          | 14.08       | Jan. 13, 1959                 | 22.6        |
| June 2, 1952                       | 43.9        | Mar. 17, 1976                      | 14.07       | <b>Well JL-49-04-132</b>      |             |
| Feb. 10, 1953                      | 44.2        | June 25, 1976                      | 11.82       | Owner: U.S. Bureau of Prisons |             |
| Jan. 20, 1955                      | 44.4        | Mar. 4, 1977                       | 14.77       | Oct. 16, 1936                 | 44.30       |
| Jan. 16, 1956                      | 45.6        |                                    |             | May 27, 1937                  | 45.80       |
|                                    |             |                                    |             | Feb. 10, 1953                 | 47.10       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                     | WATER LEVEL | DATE                               | WATER LEVEL | DATE                     | WATER LEVEL |
|--------------------------|-------------|------------------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-04-138</b> |             | <b>Well JL-49-04-141—Continued</b> |             | <b>Well JL-49-04-402</b> |             |
| Owner: Emory White       |             | Nov. 9, 1954 10.0                  |             | Owner: City of El Paso   |             |
| Jan. 10, 1950            | 49.14       | Jan. 19, 1955                      | 8.5         | Feb. 14, 1957            | 0.89        |
| Jan. 10, 1958            | 54.94       | Jan. 10, 1957                      | 10.3        | Jan. 1972                | 41.05       |
| Jan. 15, 1959            | 56.24       | Jan. 9, 1958                       | 9.8         | Feb. 16, 1973            | 41.46       |
| Jan. 13, 1960            | 58.89       | Jan. 13, 1959                      | 7.3         | Jan. 22, 1974            | 46.15       |
| Jan. 9, 1961             | 59.85       | <b>Well JL-49-04-142</b>           |             | Jan. 27, 1975            | 35.98       |
| Jan. 30, 1962            | 61.05       | Owner: M. R. Hemley                |             | Jan. 22, 1976            | 50.10       |
| Dec. 28, 1962            | 74.18       | Aug. 28, 1951                      | 6.8         | Mar. 5, 1977             | 57.74       |
| Dec. 16, 1963            | 70.30       | Feb. 16, 1953                      | 6.7         | <b>Well JL-49-04-403</b> |             |
| Jan. 23, 1965            | 73.85       | Nov. 10, 1954                      | 7.0         | Owner: City of El Paso   |             |
| Jan. 14, 1966            | 82.12       | Jan. 20, 1955                      | 6.8         | Apr. 18, 1952            | 5.48        |
| Dec. 14, 1966            | 77.24       | Jan. 17, 1956                      | 7.5         | Apr. 25, 1952            | 5.55        |
| Jan. 28, 1969            | 73.79       | Aug. 17, 1956                      | 7.3         | May 5, 1952              | 5.60        |
| Jan. 27, 1970            | 73.86       | Jan. 10, 1957                      | 8.0         | May 22, 1952             | 5.60        |
| Feb. 2, 1971             | 76.52       | Jan. 9, 1958                       | 7.8         | June 2, 1952             | 5.68        |
| Jan. 7, 1972             | 71.92       | Oct. 17, 1958                      | 5.9         | June 6, 1952             | 5.61        |
| Jan. 29, 1973            | 77.76       | Jan. 13, 1959                      | 7.2         | June 9, 1952             | 5.69        |
| Jan. 1974                | 77.76       | <b>Well JL-49-04-401</b>           |             | June 13, 1952            | 5.70        |
| Jan. 23, 1975            | 73.17       | Owner: City of El Paso             |             | June 16, 1952            | 5.71        |
| Jan. 10, 1976            | 72.58       | July 15, 1958                      | 42.8        | June 26, 1952            | 5.30        |
| <b>Well JL-49-04-140</b> |             | July 25, 1958                      | 42.8        | June 30, 1952            | 5.26        |
| Owner: M. R. Hemley      |             | Aug. 28, 1958                      | 25.9        | July 8, 1952             | 5.35        |
| Aug. 28, 1951            | 16.3        | Sept. 19, 1958                     | 22.6        | July 9, 1952             | 5.37        |
| Feb. 16, 1953            | 9.3         | Sept. 28, 1958                     | 22.3        | July 10, 1952            | 5.35        |
| Nov. 9, 1954             | 15.9        | Oct. 2, 1958                       | 16.5        | July 11, 1952            | 5.43        |
| Jan. 19, 1955            | 10.1        | Oct. 16, 1958                      | 16.9        | Feb. 16, 1953            | 5.36        |
| Jan. 17, 1956            | 11.8        | Oct. 31, 1958                      | 16.4        | Nov. 10, 1954            | 7.08        |
| Jan. 10, 1957            | 11.5        | Nov. 10, 1958                      | 35.5        | Jan. 20, 1955            | 7.52        |
| Nov. 1, 1957             | 10.8        | Nov. 24, 1958                      | 40.1        | June 3, 1955             | 8.87        |
| Jan. 9, 1958             | 11.0        | Dec. 2, 1958                       | 40.5        | Jan. 26, 1957            | 23.11       |
| Jan. 13, 1959            | 9.2         | Dec. 12, 1958                      | 40.9        | Sept. 17, 1957           | 20.63       |
| <b>Well JL-49-04-141</b> |             | Dec. 22, 1958                      | 41.2        | Oct. 8, 1957             | 18.95       |
| Owner: Gus Eminger       |             | Jan. 9, 1959                       | 41.8        | Jan. 9, 1958             | 15.35       |
| Jan. 17, 1952            | 5.2         | Jan. 27, 1975                      | 40.82       | Jan. 14, 1959            | 8.31        |
| Jan. 16, 1953            | 7.6         |                                    |             | Jan. 12, 1960            | 8.80        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-403—Continued</b> |             | <b>Well JL-49-04-405—Continued</b> |             | <b>Well JL-49-04-406—Continued</b> |             |
| Jan. 8, 1961                       | 9.45        | Jan. 9, 1958                       | 10.54       | July 8, 1952                       | 5.44        |
| Jan. 30, 1962                      | 9.40        | Jan. 14, 1959                      | 4.85        | July 9, 1952                       | 65.35       |
| Dec. 28, 1962                      | 9.32        | Jan. 12, 1960                      | 5.24        | July 10, 1952                      | 65.45       |
| Dec. 16, 1963                      | 10.70       | Jan. 8, 1961                       | 5.75        | July 15, 1952                      | 8.51        |
| Dec. 8, 1964                       | 17.15       | Jan. 30, 1962                      | 5.85        | Feb. 16, 1953                      | 6.89        |
| Jan. 14, 1966                      | 16.11       | Dec. 28, 1962                      | 5.89        | Nov. 10, 1954                      | 8.08        |
| Dec. 14, 1966                      | 11.90       | Dec. 16, 1963                      | 7.19        | Jan. 20, 1955                      | 7.33        |
| Dec. 29, 1967                      | 18.18       | Dec. 8, 1964                       | 13.13       | Apr. 25, 1955                      | 8.29        |
| Jan. 21, 1969                      | 9.94        | Jan. 14, 1966                      | 11.78       | June 3, 1955                       | 8.43        |
| June 19, 1969                      | 62.63       | Dec. 13, 1966                      | 8.87        | Jan. 13, 1956                      | 9.81        |
| Jan. 22, 1970                      | 9.31        | Dec. 27, 1967                      | 14.90       | Apr. 26, 1956                      | 8.91        |
| June 23, 1970                      | 14.63       | Jan. 21, 1969                      | 8.12        | June 19, 1956                      | 11.06       |
| Jan. 25, 1971                      | 10.10       | June 19, 1969                      | 34.40       | Jan. 10, 1957                      | 15.28       |
| June 21, 1971                      | 73.02       | Jan. 22, 1970                      | 7.03        | Oct. 8, 1957                       | 12.43       |
| Jan. 1972                          | 16.23       | June 23, 1970                      | 11.84       | Jan. 9, 1958                       | 11.15       |
| Jan. 1973                          | 17.36       | Jan. 26, 1971                      | 8.39        | Jan. 14, 1959                      | 8.01        |
| Jan. 22, 1974                      | 11.70       | June 21, 1971                      | 35.57       | May 21, 1959                       | 59.77       |
| Jan. 27, 1975                      | 7.72        | Jan. 1972                          | 13.33       | Jan. 12, 1960                      | 8.46        |
| Jan. 22, 1976                      | 8.92        | Jan. 1973                          | 15.00       | Jan. 30, 1962                      | 7.95        |
| June 25, 1976                      | 11.53       | Jan. 22, 1974                      | 9.67        | Dec. 27, 1962                      | 9.20        |
| Mar. 5, 1977                       | 8.30        | Jan. 27, 1975                      | 5.76        | Dec. 16, 1963                      | 9.60        |
|                                    |             | Jan. 22, 1976                      | 7.12        | Dec. 8, 1964                       | 15.06       |
|                                    |             | June 25, 1976                      | 9.11        | Jan. 14, 1966                      | 12.45       |
| <b>Well JL-49-04-404</b>           |             | <b>Well JL-49-04-406</b>           |             | Dec. 14, 1966                      | 10.64       |
| Owner: City of El Paso             |             | Owner: City of El Paso             |             | Dec. 29, 1967                      | 13.18       |
| Aug. 24, 1964                      | 25.84       | Apr. 18, 1952                      | 5.63        | Jan. 21, 1969                      | 11.05       |
| Jan. 1972                          | 21.13       | Apr. 25, 1952                      | 6.01        | June 19, 1969                      | 63.63       |
| Feb. 19, 1973                      | 22.91       | May 5, 1952                        | 6.08        | Jan. 21, 1970                      | 8.96        |
| Jan. 22, 1974                      | 13.12       | May 22, 1952                       | 5.50        | June 23, 1970                      | 12.10       |
| Jan. 27, 1975                      | 10.59       | May 29, 1952                       | 5.71        | Jan. 26, 1971                      | 9.74        |
| Jan. 22, 1976                      | 13.77       | June 2, 1952                       | 5.98        | June 22, 1971                      | 65.67       |
| <b>Well JL-49-04-405</b>           |             | June 13, 1952                      | 5.90        | Jan. 1972                          | 11.65       |
| Owner: City of El Paso             |             | June 16, 1952                      | 5.49        | Jan. 1973                          | 14.39       |
| Jan. 13, 1956                      | 7.11        | June 26, 1952                      | 6.18        | Jan. 21, 1974                      | 10.23       |
| Jan. 26, 1957                      | 19.70       | June 30, 1952                      | 5.07        | Jan. 27, 1975                      | 8.24        |
| Sept. 17, 1957                     | 14.88       |                                    |             | Jan. 22, 1976                      | 8.84        |
| Oct. 8, 1957                       | 13.88       |                                    |             |                                    |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-406—Continued</b> |             | <b>Well JL-49-04-407—Continued</b> |             | <b>Well JL-49-04-408—Continued</b> |             |
| June 25, 1976                      | 9.81        | Jan. 22, 1976                      | 8.73        | Jan. 1973                          | 16.82       |
| Mar. 5, 1977                       | 9.14        | June 25, 1976                      | 8.38        | Jan. 22, 1974                      | 10.02       |
| <b>Well JL-49-04-407</b>           |             | Mar. 5, 1977                       | 9.56        | Jan. 27, 1975                      | 7.80        |
| Owner: City of El Paso             |             | <b>Well JL-49-04-408</b>           |             | Jan. 22, 1976                      | 8.44        |
| Jan. 13, 1956                      | 15.07       | Owner: City of El Paso             |             | June 25, 1976                      | 11.32       |
| Jan. 10, 1957                      | 18.92       | Nov. 23, 1955                      | 15.5        | Mar. 5, 1977                       | 9.55        |
| Sept. 17, 1957                     | 19.38       | Jan. 13, 1956                      | 12.09       | <b>Well JL-49-04-409</b>           |             |
| Oct. 8, 1957                       | 18.85       | Jan. 10, 1957                      | 19.29       | Owner: City of El Paso             |             |
| Oct. 9, 1958                       | 8.28        | Sept. 17, 1957                     | 19.09       | June 3, 1955                       | 10.65       |
| Oct. 16, 1958                      | 8.52        | Oct. 8, 1957                       | 18.15       | Jan. 13, 1956                      | 13.15       |
| Oct. 23, 1958                      | 8.53        | Oct. 9, 1958                       | 6.70        | Oct. 23, 1967                      | 40.38       |
| Oct. 30, 1958                      | 8.47        | Oct. 16, 1958                      | 6.85        | Dec. 29, 1967                      | 16.58       |
| Nov. 18, 1958                      | 8.76        | Oct. 23, 1958                      | 6.86        | Jan. 22, 1970                      | 8.34        |
| Jan. 14, 1959                      | 8.67        | Oct. 30, 1958                      | 6.81        | June 23, 1970                      | 31.37       |
| Feb. 19, 1959                      | 8.65        | Nov. 18, 1958                      | 7.14        | Jan. 25, 1971                      | 9.24        |
| Feb. 27, 1959                      | 8.73        | Jan. 14, 1959                      | 7.39        | June 21, 1971                      | 43.19       |
| Mar. 9, 1959                       | 8.57        | Feb. 19, 1959                      | 7.48        | Jan. 1973                          | 17.05       |
| Jan. 12, 1960                      | 7.23        | Feb. 27, 1959                      | 7.58        | Jan. 22, 1974                      | 11.00       |
| Jan. 8, 1961                       | 7.70        | Mar. 9, 1959                       | 7.50        | Jan. 27, 1975                      | 7.14        |
| Jan. 30, 1962                      | 7.79        | Apr. 17, 1959                      | 6.08        | Jan. 22, 1976                      | 8.06        |
| Dec. 28, 1962                      | 7.28        | Jan. 12, 1960                      | 7.08        | June 25, 1976                      | 8.43        |
| Dec. 16, 1963                      | 10.10       | Jan. 8, 1961                       | 7.80        | Mar. 5, 1977                       | 7.30        |
| Dec. 8, 1964                       | 15.53       | Jan. 30, 1962                      | 7.78        | <b>Well JL-49-04-410</b>           |             |
| Jan. 14, 1966                      | 14.36       | Dec. 28, 1962                      | 7.59        | Owner: City of El Paso             |             |
| Dec. 14, 1966                      | 10.64       | Dec. 6, 1963                       | 8.88        | Mar. 8, 1961                       | 12.23       |
| Dec. 29, 1967                      | 9.63        | Feb. 8, 1964                       | 15.86       | Jan. 22, 1974                      | 9.54        |
| Jan. 21, 1969                      | 10.12       | Jan. 14, 1966                      | 14.62       | Jan. 27, 1975                      | 7.00        |
| June 16, 1969                      | 10.29       | Dec. 14, 1966                      | 11.11       | Jan. 22, 1976                      | 9.38        |
| Jan. 22, 1970                      | 9.86        | Dec. 29, 1967                      | 13.80       | Mar. 5, 1977                       | 10.35       |
| June 23, 1970                      | 61.04       | Jan. 29, 1969                      | 10.26       | <b>Well JL-49-04-411</b>           |             |
| Jan. 25, 1971                      | 10.15       | June 19, 1969                      | 11.43       | Owner: City of El Paso             |             |
| June 21, 1971                      | 62.33       | Jan. 22, 1970                      | 10.46       | Dec. 6, 1955                       | 14.40       |
| Jan. 1972                          | 14.37       | June 23, 1970                      | 16.16       | Jan. 13, 1956                      | 10.71       |
| Jan. 1973                          | 16.25       | Jan. 25, 1971                      | 9.94        | Apr. 26, 1956                      | 10.86       |
| Jan. 22, 1974                      | 10.45       | June 21, 1971                      | 65.94       | Jan. 11, 1957                      | 22.77       |
| Jan. 27, 1975                      | 8.19        | Jan. 1972                          | 14.75       |                                    |             |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-411—Continued</b> |             | <b>Well JL-49-04-412—Continued</b> |             | <b>Well JL-49-04-412—Continued</b> |             |
| Oct. 8, 1957                       | 17.08       | May 5, 1952                        | 3.76        | Dec. 29, 1967                      | 13.56       |
| Oct. 9, 1958                       | 6.60        | May 22, 1952                       | 3.32        | Jan. 21, 1969                      | 10.62       |
| Oct. 16, 1958                      | 6.38        | May 29, 1952                       | 3.35        | June 19, 1969                      | 11.40       |
| Oct. 23, 1958                      | 6.18        | June 2, 1952                       | 3.67        | Jan. 21, 1970                      | 10.07       |
| Oct. 31, 1958                      | 6.00        | June 6, 1952                       | 3.60        | June 23, 1970                      | 56.97       |
| Nov. 18, 1958                      | 6.27        | June 13, 1952                      | 3.14        | Jan. 20, 1971                      | 9.80        |
| Jan. 14, 1959                      | 6.33        | June 16, 1952                      | 2.73        | June 21, 1971                      | 56.55       |
| Feb. 19, 1959                      | 6.48        | June 30, 1952                      | 2.73        | Jan. 1972                          | 15.30       |
| Feb. 27, 1959                      | 6.54        | July 8, 1952                       | 2.85        | Jan. 1973                          | 15.94       |
| Mar. 9, 1959                       | 6.54        | July 9, 1952                       | 3.95        | Jan. 21, 1974                      | 9.91        |
| Apr. 17, 1959                      | 5.70        | July 10, 1952                      | 3.92        | Jan. 27, 1975                      | 8.28        |
| May 21, 1959                       | 55.03       | Feb. 16, 1953                      | 4.15        | Jan. 22, 1976                      | 8.84        |
| Jan. 12, 1960                      | 6.60        | Nov. 10, 1954                      | 5.30        | June 25, 1976                      | 10.86       |
| Jan. 8, 1961                       | 7.35        | Jan. 20, 1955                      | 4.77        | Mar. 5, 1977                       | 9.41        |
| Jan. 30, 1962                      | 7.38        | June 3, 1955                       | 8.86        |                                    |             |
| Dec. 28, 1962                      | 7.34        | Jan. 13, 1956                      | 11.04       | <b>Well JL-49-04-413</b>           |             |
| Dec. 16, 1963                      | 8.53        | Jan. 25, 1957                      | 22.26       | Owner: City of El Paso             |             |
| Dec. 8, 1964                       | 15.40       | Oct. 8, 1957                       | 13.40       | Apr. 25, 1952                      | 2.85        |
| Jan. 14, 1966                      | 13.33       | Oct. 9, 1958                       | 9.28        | May 5, 1952                        | 2.38        |
| Dec. 13, 1966                      | 10.30       | Oct. 16, 1958                      | 8.89        | May 22, 1952                       | 2.37        |
| Dec. 29, 1967                      | 15.52       | Oct. 23, 1958                      | 9.26        | May 29, 1952                       | 2.11        |
| Jan. 21, 1969                      | 11.07       | Oct. 30, 1958                      | 9.27        | June 2, 1952                       | 2.26        |
| June 19, 1969                      | 13.39       | Nov. 18, 1958                      | 9.80        | June 6, 1952                       | 2.14        |
| Jan. 22, 1970                      | 10.05       | Jan. 14, 1959                      | 10.04       | June 9, 1952                       | 2.17        |
| June 23, 1970                      | 55.69       | Feb. 19, 1959                      | 10.12       | June 13, 1952                      | 2.26        |
| Jan. 25, 1971                      | 9.94        | Feb. 27, 1959                      | 10.20       | June 13, 1952                      | 2.13        |
| June 21, 1971                      | 56.61       | Mar. 9, 1959                       | 9.38        | June 26, 1952                      | 2.03        |
| Jan. 1972                          | 16.25       | Apr. 17, 1959                      | 8.88        | June 30, 1952                      | 1.77        |
| Jan. 1973                          | 18.08       | May 21, 1959                       | 58.23       | July 8, 1952                       | 1.66        |
| Jan. 22, 1974                      | 10.52       | Jan. 12, 1960                      | 10.08       | July 9, 1952                       | 2.49        |
| Jan. 27, 1975                      | 6.88        | Jan. 8, 1961                       | 10.40       | July 10, 1952                      | 2.53        |
| Jan. 22, 1976                      | 8.56        | Jan. 30, 1962                      | 10.67       | July 11, 1952                      | 2.76        |
| June 25, 1976                      | 12.01       | Dec. 27, 1962                      | 10.47       | Feb. 16, 1953                      | 2.73        |
|                                    |             | Dec. 16, 1963                      | 10.81       | Nov. 10, 1954                      | 4.43        |
|                                    |             | Dec. 8, 1964                       | 16.46       | Jan. 20, 1955                      | 3.74        |
|                                    |             | Nov. 14, 1966                      | 10.55       | June 3, 1955                       | 6.97        |
|                                    |             | Dec. 14, 1966                      | 7.91        | Jan. 13, 1956                      | 9.52        |
|                                    |             |                                    |             | Apr. 26, 1956                      | 10.12       |
| <b>Well JL-49-04-412</b>           |             |                                    |             |                                    |             |
| Owner: City of El Paso             |             |                                    |             |                                    |             |
| Apr. 18, 1952                      | 3.51        |                                    |             |                                    |             |
| Apr. 25, 1952                      | 3.68        |                                    |             |                                    |             |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                     | WATER LEVEL | DATE                     | WATER LEVEL |
|------------------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-04-413—Continued</b> |             |                          |             |                          |             |
| Jan. 28, 1957                      | 19.56       | Jan. 8, 1961             | 5.85        | Feb. 16, 1953            | 6.06        |
| Sept. 17, 1957                     | 14.26       | Jan. 30, 1962            | 6.08        | Nov. 10, 1954            | 6.32        |
| Oct. 8, 1957                       | 12.74       | Dec. 28, 1962            | 5.76        | June 3, 1955             | 8.60        |
| Jan. 9, 1958                       | 10.82       | Dec. 16, 1963            | 6.84        | Jan. 13, 1956            | 11.15       |
| Jan. 14, 1959                      | 6.13        | Dec. 8, 1964             | 12.25       | Jan. 25, 1957            | 22.85       |
| Jan. 12, 1960                      | 6.14        | Jan. 14, 1966            | 9.64        | Oct. 8, 1957             | 12.95       |
| Jan. 8, 1961                       | 6.80        | Dec. 14, 1966            | 7.17        | Jan. 9, 1958             | 12.36       |
| Jan. 30, 1962                      | 6.86        | Dec. 29, 1967            | 10.95       | Jan. 14, 1959            | 9.10        |
| Dec. 28, 1962                      | 6.49        | Jan. 21, 1969            | 7.61        | May 21, 1959             | 34.60       |
| Dec. 16, 1963                      | 7.10        | Jan. 22, 1970            | 7.34        | Jan. 15, 1960            | 9.17        |
| Dec. 8, 1964                       | 12.44       | Jan. 25, 1971            | 7.19        | Jan. 8, 1961             | 9.40        |
| Jan. 14, 1966                      | 10.89       | Jan. 1972                | 10.16       | Jan. 30, 1962            | 9.86        |
| Dec. 14, 1966                      | 8.63        | Jan. 22, 1974            | 7.79        | Dec. 27, 1962            | 9.67        |
| Dec. 29, 1967                      | 9.70        | Jan. 27, 1975            | 5.83        | Dec. 16, 1963            | 10.12       |
| Jan. 21, 1969                      | 7.49        | Jan. 22, 1976            | 6.56        | Dec. 8, 1964             | 15.37       |
| June 19, 1969                      | 74.05       | June 25, 1976            | 8.28        | Jan. 14, 1966            | 12.92       |
| Jan. 22, 1970                      | 7.34        | Mar. 4, 1977             | 6.67        | Dec. 14, 1966            | 11.50       |
| June 23, 1970                      | 72.33       |                          |             | Dec. 29, 1967            | 12.55       |
| Jan. 25, 1971                      | 6.69        | <b>Well JL-49-04-415</b> |             | Jan. 21, 1969            | 8.86        |
| June 21, 1971                      | 69.77       | Owner: City of El Paso   |             | June 19, 1969            | 14.76       |
| Jan. 1972                          | 10.02       | Jan. 10, 1952            | 5.80        | Jan. 21, 1970            | 8.50        |
| Jan. 1973                          | 17.18       | Feb. 28, 1952            | 5.81        | June 23, 1970            | 32.79       |
| Jan. 22, 1974                      | 6.83        | Apr. 18, 1952            | 4.99        | Jan. 25, 1971            | 6.69        |
| Jan. 27, 1975                      | 5.13        | Apr. 25, 1952            | 5.15        | June 21, 1971            | 32.18       |
| Jan. 22, 1976                      | 5.91        | May 5, 1952              | 5.30        | Jan. 1972                | 10.98       |
| June 25, 1976                      | 7.62        | May 22, 1952             | 4.88        | Jan. 1973                | 15.13       |
| Mar. 4, 1977                       | 6.70        | May 29, 1952             | 4.89        | Jan. 21, 1974            | 8.28        |
|                                    |             | June 2, 1952             | 5.20        | Jan. 27, 1975            | 6.66        |
|                                    |             | June 6, 1952             | 5.21        | Jan. 22, 1976            | 7.53        |
|                                    |             | June 9, 1952             | 5.39        | June 25, 1976            | 4.81        |
|                                    |             | June 13, 1952            | 5.16        | Mar. 4, 1977             | 7.38        |
|                                    |             | June 16, 1952            | 4.66        |                          |             |
|                                    |             | June 26, 1952            | 4.42        | <b>Well JL-49-04-416</b> |             |
|                                    |             | June 30, 1952            | 4.31        | Owner: City of El Paso   |             |
|                                    |             | July 8, 1952             | 4.70        | Sept. 12, 1957           | 19.31       |
|                                    |             | July 9, 1952             | 78.10       | Oct. 23, 1957            | 17.93       |
|                                    |             | July 10, 1952            | 78.30       | Nov. 26, 1957            | 16.95       |
|                                    |             |                          |             |                          |             |
| <b>Well JL-49-04-414</b>           |             |                          |             |                          |             |
| Owner: City of El Paso             |             |                          |             |                          |             |
| Jan. 13, 1956                      | 8.43        |                          |             |                          |             |
| Jan. 27, 1957                      | 21.95       |                          |             |                          |             |
| Oct. 8, 1957                       | 11.77       |                          |             |                          |             |
| Jan. 9, 1958                       | 10.20       |                          |             |                          |             |
| Jan. 14, 1959                      | 5.59        |                          |             |                          |             |
| May 21, 1959                       | 24.00       |                          |             |                          |             |
| Jan. 12, 1960                      | 5.63        |                          |             |                          |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                        | WATER LEVEL | DATE                        | WATER LEVEL | DATE                        | WATER LEVEL |
|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Well JL-49-04-416—Continued |             | Well JL-49-04-416—Continued |             | Well JL-49-04-416—Continued |             |
| Dec. 16, 1957               | 17.28       | Jan. 20, 1961               | 28.95       | Jan. 16, 1964               | 32.18       |
| Feb. 20, 1958               | 12.00       | Feb. 20, 1961               | 34.73       | Feb. 23, 1964               | 40.99       |
| Mar. 20, 1958               | 20.30       | Mar. 20, 1961               | 29.23       | Mar. 20, 1964               | 32.24       |
| Apr. 20, 1958               | 23.27       | Apr. 20, 1961               | 21.60       | May 20, 1964                | 42.61       |
| May 20, 1958                | 25.73       | May 20, 1961                | 37.46       | June 20, 1964               | 43.75       |
| June 20, 1958               | 25.86       | June 20, 1961               | 25.60       | July 20, 1964               | 44.77       |
| July 20, 1958               | 28.16       | July 1, 1961                | 26.35       | Aug. 20, 1964               | 40.44       |
| Aug. 20, 1958               | 30.21       | Aug. 23, 1961               | 30.26       | Sept. 20, 1964              | 41.22       |
| Sept. 20, 1958              | 16.84       | Sept. 20, 1961              | 12.00       | Oct. 20, 1964               | 37.45       |
| Oct. 20, 1958               | 12.91       | Oct. 20, 1961               | 30.78       | Nov. 20, 1964               | 33.60       |
| Nov. 18, 1958               | 23.35       | Nov. 20, 1961               | 32.51       | Dec. 20, 1964               | 30.29       |
| Dec. 23, 1958               | 26.04       | Dec. 20, 1961               | 32.22       | Jan. 20, 1965               | 32.16       |
| Jan. 20, 1959               | 25.65       | Jan. 20, 1962               | 36.93       | Feb. 20, 1965               | 35.98       |
| Feb. 20, 1959               | 27.34       | Feb. 20, 1962               | 38.97       | Mar. 20, 1965               | 38.10       |
| Mar. 20, 1959               | 25.78       | Mar. 20, 1962               | 39.24       | Apr. 20, 1965               | 26.93       |
| Apr. 20, 1959               | 24.19       | Apr. 20, 1962               | 17.59       | May 20, 1965                | 44.35       |
| May 20, 1959                | 27.69       | May 20, 1962                | 14.99       | June 20, 1965               | 28.27       |
| June 20, 1959               | 29.85       | June 20, 1962               | 21.59       | July 19, 1965               | 26.95       |
| July 20, 1959               | 31.14       | July 20, 1962               | 17.22       | Aug. 20, 1965               | 23.51       |
| Aug. 20, 1959               | 23.58       | Aug. 20, 1962               | 19.77       | Sept. 20, 1965              | 28.80       |
| Sept. 20, 1959              | 9.26        | Sept. 20, 1962              | 15.70       | Oct. 20, 1965               | 38.43       |
| Oct. 20, 1959               | 26.30       | Oct. 20, 1962               | 36.38       | Nov. 20, 1965               | 48.10       |
| Nov. 20, 1959               | 30.13       | Nov. 20, 1962               | 34.77       | Dec. 11, 1965               | 47.33       |
| Dec. 20, 1959               | 27.00       | Dec. 20, 1962               | 35.20       | Jan. 20, 1966               | 43.42       |
| Jan. 20, 1960               | 28.03       | Jan. 20, 1963               | 18.97       | Feb. 22, 1966               | 44.46       |
| Feb. 20, 1960               | 31.91       | Feb. 20, 1963               | 40.10       | Mar. 12, 1966               | 47.93       |
| Mar. 20, 1960               | 31.77       | Mar. 20, 1963               | 38.16       | Apr. 22, 1966               | 21.97       |
| Apr. 20, 1960               | 30.40       | Apr. 25, 1963               | 20.74       | May 27, 1966                | 24.25       |
| May 20, 1960                | 23.12       | May 20, 1963                | 18.87       | June 20, 1966               | 33.15       |
| June 20, 1960               | 29.20       | June 20, 1963               | 22.57       | July 20, 1966               | 33.25       |
| July 20, 1960               | 25.80       | July 14, 1963               | 31.22       | Aug. 19, 1966               | 32.16       |
| Aug. 20, 1960               | 23.46       | Aug. 22, 1963               | 18.11       | Sept. 20, 1966              | 18.08       |
| Sept. 20, 1960              | 25.11       | Sept. 20, 1963              | 30.40       | Oct. 29, 1966               | 34.87       |
| Oct. 20, 1960               | 30.52       | Oct. 20, 1963               | 34.25       | Nov. 20, 1966               | 40.82       |
| Nov. 20, 1960               | 32.73       | Nov. 20, 1963               | 37.25       | Dec. 20, 1966               | 40.57       |
| Dec. 20, 1960               | 30.69       | Dec. 20, 1963               | 29.62       | Jan. 20, 1967               | 42.56       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                        | WATER LEVEL | DATE                        | WATER LEVEL | DATE                        | WATER LEVEL |
|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Well JL-49-04-416—Continued |             | Well JL-49-04-416—Continued |             | Well JL-49-04-416—Continued |             |
| Feb. 20, 1967               | 45.25       | Feb. 25, 1970               | 25.61       | May 20, 1973                | 26.33       |
| Mar. 20, 1967               | 31.88       | Mar. 20, 1970               | 22.63       | June 20, 1973               | 35.11       |
| Apr. 20, 1967               | 24.15       | Apr. 14, 1970               | 25.00       | July 20, 1973               | 27.34       |
| May 16, 1967                | 21.03       | May 20, 1970                | 30.24       | Aug. 20, 1973               | 31.68       |
| June 20, 1967               | 21.65       | June 20, 1970               | 34.38       | Sept. 20, 1973              | 35.02       |
| July 20, 1967               | 32.92       | July 20, 1970               | 35.13       | Oct. 20, 1973               | 34.06       |
| Aug. 5, 1967                | 25.61       | Aug. 20, 1970               | 30.03       | Nov. 20, 1973               | 36.66       |
| Sept. 27, 1967              | 23.73       | Sept. 20, 1970              | 34.40       | Dec. 21, 1973               | 30.24       |
| Oct. 20, 1967               | 24.90       | Oct. 19, 1970               | 31.53       | Jan. 20, 1974               | 24.63       |
| Nov. 30, 1967               | 29.17       | Nov. 20, 1970               | 26.15       | Feb. 24, 1974               | 31.33       |
| Dec. 20, 1967               | 35.27       | Dec. 20, 1970               | 30.55       | Mar. 20, 1974               | 34.28       |
| Jan. 20, 1968               | 33.60       | Jan. 20, 1971               | 34.82       | Apr. 20, 1974               | 36.65       |
| Feb. 20, 1968               | 34.42       | Feb. 20, 1971               | 40.58       | May 20, 1974                | 39.17       |
| Mar. 20, 1968               | 37.18       | Mar. 20, 1971               | 44.72       | June 20, 1974               | 40.72       |
| Apr. 20, 1968               | 39.88       | Apr. 20, 1971               | 39.55       | July 20, 1974               | 33.66       |
| May 21, 1968                | 33.93       | May 20, 1971                | 34.10       | Aug. 23, 1974               | 30.92       |
| June 29, 1968               | 28.90       | June 20, 1971               | 36.19       | Sept. 16, 1974              | 24.47       |
| July 24, 1968               | 30.47       | July 18, 1971               | 39.95       | Oct. 20, 1974               | 27.80       |
| Aug. 20, 1968               | 18.05       | Aug. 20, 1971               | 40.90       | Nov. 19, 1974               | 24.77       |
| Sept. 20, 1968              | 17.80       | Nov. 20, 1971               | 28.11       | Dec. 20, 1974               | 20.91       |
| Oct. 20, 1968               | 19.73       | Dec. 20, 1971               | 22.25       | Jan. 20, 1975               | 19.83       |
| Nov. 20, 1968               | 18.43       | Jan. 20, 1972               | 22.80       | Feb. 17, 1975               | 23.10       |
| Dec. 20, 1968               | 25.89       | Feb. 20, 1972               | 30.95       | Mar. 20, 1975               | 28.55       |
| Jan. 20, 1969               | 26.17       | Mar. 20, 1972               | 35.00       | Apr. 20, 1975               | 31.60       |
| Feb. 20, 1969               | 27.42       | Apr. 20, 1972               | 38.11       | May 19, 1975                | 32.20       |
| Mar. 20, 1969               | 23.92       | May 20, 1972                | 36.03       | June 18, 1975               | 39.42       |
| Apr. 20, 1969               | 17.05       | June 20, 1972               | 33.69       | July 20, 1975               | 37.76       |
| May 20, 1969                | 16.00       | Aug. 20, 1972               | 30.16       | Aug. 20, 1975               | 38.57       |
| June 20, 1969               | 21.65       | Sept. 27, 1972              | 29.21       | Sept. 20, 1975              | 27.35       |
| July 20, 1969               | 25.00       | Oct. 20, 1972               | 26.57       | Oct. 20, 1975               | 36.95       |
| Aug. 20, 1969               | 24.87       | Nov. 20, 1972               | 27.05       | Nov. 20, 1975               | 33.00       |
| Sept. 20, 1969              | 18.22       | Dec. 20, 1972               | 27.60       | Dec. 20, 1975               | 30.46       |
| Oct. 20, 1969               | 23.70       | Jan. 20, 1973               | 27.72       | Jan. 20, 1976               | 31.42       |
| Nov. 22, 1969               | 23.57       | Feb. 20, 1973               | 25.40       | Feb. 20, 1976               | 28.10       |
| Dec. 20, 1969               | 24.49       | Mar. 20, 1973               | 32.93       | Mar. 20, 1976               | 39.09       |
| Jan. 20, 1970               | 24.22       | Apr. 20, 1973               | 29.22       | Apr. 20, 1976               | 34.12       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-416—Continued</b> |             | <b>Well JL-49-04-417—Continued</b> |             | <b>Well JL-49-04-417—Continued</b> |             |
| May 20, 1976                       | 37.82       | Dec. 19, 1955                      | 12.97       | Mar. 20, 1959                      | 7.49        |
| June 24, 1976                      | 41.89       | Jan. 23, 1956                      | 11.23       | Apr. 20, 1959                      | 6.90        |
| July 22, 1976                      | 35.12       | Feb. 26, 1956                      | 10.45       | May 20, 1959                       | 14.58       |
| Aug. 16, 1976                      | 38.83       | Mar. 20, 1956                      | 12.24       | June 20, 1959                      | 15.90       |
| Sept. 17, 1976                     | 29.06       | Apr. 20, 1956                      | 11.97       | July 20, 1959                      | 16.48       |
| Oct. 21, 1976                      | 32.73       | May 20, 1956                       | 13.78       | Aug. 20, 1959                      | 8.63        |
| Nov. 21, 1976                      | 34.05       | June 20, 1956                      | 16.84       | Sept. 20, 1959                     | 8.00        |
| Dec. 21, 1976                      | 33.15       | July 20, 1956                      | 17.92       | Oct. 20, 1959                      | 7.71        |
| Jan. 19, 1977                      | 32.45       | Aug. 20, 1956                      | 18.16       | Nov. 20, 1959                      | 8.08        |
| Feb. 17, 1977                      | 34.60       | Sept. 20, 1956                     | 17.62       | Dec. 20, 1959                      | 7.90        |
| Mar. 5, 1977                       | 36.84       | Oct. 10, 1956                      | 19.62       | Jan. 20, 1960                      | 7.98        |
| Apr. 20, 1977                      | 41.08       | Feb. 20, 1957                      | 18.23       | Feb. 20, 1960                      | 8.28        |
| May 24, 1977                       | 43.62       | Mar. 20, 1957                      | 22.92       | Mar. 20, 1960                      | 8.02        |
| June 21, 1977                      | 42.13       | Apr. 20, 1957                      | 21.53       | Apr. 20, 1960                      | 7.66        |
| July 22, 1977                      | 35.26       | May 20, 1957                       | 22.31       | May 20, 1960                       | 13.67       |
| <b>Well JL-49-04-417</b>           |             | June 20, 1957                      | 23.09       | June 20, 1960                      | 15.66       |
| Owner: U.S. Geological Survey      |             | July 20, 1957                      | 22.30       | July 20, 1960                      | 16.38       |
| May 29, 1954                       | 9.87        | Aug. 20, 1957                      | 15.36       | Aug. 20, 1960                      | 10.66       |
| June 20, 1954                      | 9.87        | Sept. 20, 1957                     | 19.88       | Sept. 20, 1960                     | 11.98       |
| July 20, 1954                      | 9.78        | Oct. 20, 1957                      | 13.20       | Oct. 20, 1960                      | 8.83        |
| Aug. 20, 1954                      | 9.68        | Nov. 20, 1957                      | 11.38       | Nov. 20, 1960                      | 8.79        |
| Sept. 20, 1954                     | 9.44        | Dec. 20, 1957                      | 11.33       | Dec. 20, 1960                      | 8.55        |
| Oct. 20, 1954                      | 9.11        | Jan. 20, 1958                      | 10.96       | Jan. 20, 1961                      | 8.63        |
| Nov. 20, 1954                      | 8.19        | Feb. 20, 1958                      | 10.25       | Feb. 20, 1961                      | 8.86        |
| Dec. 20, 1954                      | 7.17        | Mar. 20, 1958                      | 10.16       | Mar. 20, 1961                      | 8.77        |
| Jan. 20, 1955                      | 6.89        | Apr. 20, 1958                      | 9.80        | Apr. 20, 1961                      | 10.87       |
| Feb. 20, 1955                      | 6.84        | May 20, 1958                       | 9.53        | May 20, 1961                       | 11.93       |
| Mar. 20, 1955                      | 6.97        | June 20, 1958                      | 15.04       | June 20, 1961                      | 16.71       |
| Apr. 26, 1955                      | 6.62        | July 20, 1958                      | 16.69       | July 20, 1961                      | 12.86       |
| May 20, 1955                       | 7.06        | Aug. 20, 1958                      | 10.15       | Aug. 20, 1961                      | 12.20       |
| June 20, 1955                      | 7.56        | Sept. 20, 1958                     | 7.24        | Sept. 20, 1961                     | 7.72        |
| July 20, 1955                      | 10.53       | Oct. 20, 1958                      | 6.17        | Oct. 20, 1961                      | 8.60        |
| Aug. 20, 1955                      | 12.93       | Nov. 20, 1958                      | 7.20        | Nov. 20, 1961                      | 8.63        |
| Sept. 20, 1955                     | 11.91       | Dec. 20, 1958                      | 7.53        | Dec. 20, 1961                      | 8.58        |
| Oct. 20, 1955                      | 14.40       | Jan. 20, 1959                      | 7.56        | Jan. 20, 1962                      | 8.88        |
| Nov. 23, 1955                      | 13.96       | Feb. 20, 1959                      | 7.86        | Feb. 20, 1962                      | 9.39        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                        | WATER LEVEL | DATE                        | WATER LEVEL | DATE                        | WATER LEVEL |
|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Well JL-49-04-417—Continued |             | Well JL-49-04-417—Continued |             | Well JL-49-04-417—Continued |             |
| Mar. 20, 1962               | 8.98        | June 20, 1965               | 23.97       | July 20, 1968               | 14.51       |
| Apr. 20, 1962               | 7.34        | July 20, 1965               | 29.00       | Aug. 20, 1968               | 18.13       |
| May 20, 1962                | 15.58       | Aug. 20, 1965               | 19.74       | Sept. 20, 1968              | 14.95       |
| June 20, 1962               | 15.00       | Sept. 23, 1965              | 15.23       | Oct. 20, 1968               | 11.82       |
| July 20, 1962               | 17.14       | Oct. 20, 1965               | 15.25       | Nov. 20, 1968               | 10.09       |
| Aug. 20, 1962               | 17.44       | Nov. 20, 1965               | 21.00       | Dec. 20, 1968               | 9.58        |
| Sept. 20, 1962              | 7.90        | Jan. 16, 1966               | 14.97       | Jan. 20, 1969               | 16.24       |
| Oct. 20, 1962               | 8.91        | Feb. 25, 1966               | 15.88       | Feb. 20, 1969               | 9.97        |
| Jan. 30, 1963               | 8.72        | Mar. 20, 1966               | 24.50       | Mar. 20, 1969               | 18.84       |
| Feb. 20, 1963               | 9.43        | Apr. 20, 1966               | 10.96       | Apr. 20, 1969               | 19.33       |
| Mar. 20, 1963               | 11.77       | May 20, 1966                | 17.63       | May 20, 1969                | 19.49       |
| Apr. 25, 1963               | 18.58       | June 20, 1966               | 20.17       | June 20, 1969               | 19.86       |
| May 20, 1963                | 18.81       | July 21, 1966               | 17.48       | July 20, 1969               | 16.15       |
| June 20, 1963               | 20.38       | Aug. 12, 1966               | 19.08       | Aug. 20, 1969               | 11.20       |
| July 20, 1963               | 21.13       | Sept. 20, 1966              | 19.00       | Sept. 20, 1969              | 8.20        |
| Aug. 20, 1963               | 20.87       | Oct. 20, 1966               | 12.63       | Oct. 20, 1969               | 13.97       |
| Sept. 20, 1963              | 11.68       | Nov. 20, 1966               | 12.86       | Nov. 20, 1969               | 15.90       |
| Oct. 20, 1963               | 10.85       | Dec. 20, 1966               | 12.42       | Dec. 20, 1969               | 15.57       |
| Nov. 20, 1963               | 10.30       | Jan. 20, 1967               | 13.39       | Jan. 20, 1970               | 13.78       |
| Jan. 20, 1964               | 9.35        | Feb. 20, 1967               | 18.06       | Feb. 20, 1970               | 9.36        |
| Feb. 27, 1964               | 11.57       | Mar. 20, 1967               | 15.45       | Mar. 20, 1970               | 8.22        |
| Mar. 20, 1964               | 16.81       | Apr. 20, 1967               | 20.72       | Apr. 20, 1970               | 11.05       |
| Apr. 17, 1964               | 19.66       | May 20, 1967                | 24.16       | May 20, 1970                | 16.91       |
| May 20, 1964                | 28.05       | June 20, 1967               | 19.57       | June 18, 1970               | 22.27       |
| June 20, 1964               | 30.00       | July 23, 1967               | 25.04       | July 20, 1970               | 16.67       |
| July 22, 1964               | 29.52       | Aug. 8, 1967                | 29.86       | Aug. 20, 1970               | 26.06       |
| Aug. 28, 1964               | 25.54       | Sept. 27, 1967              | 22.77       | Sept. 20, 1970              | 14.37       |
| Sept. 20, 1964              | 19.52       | Oct. 24, 1967               | 24.46       | Oct. 20, 1970               | 18.30       |
| Oct. 20, 1964               | 21.57       | Nov. 30, 1967               | 21.31       | Nov. 20, 1970               | 11.49       |
| Nov. 20, 1964               | 15.52       | Dec. 19, 1967               | 15.03       | Dec. 5, 1970                | 10.78       |
| Dec. 20, 1964               | 16.20       | Jan. 20, 1968               | 16.24       | Feb. 9, 1971                | 10.64       |
| Jan. 20, 1965               | 14.43       | Feb. 20, 1968               | 13.12       | Mar. 20, 1971               | 13.90       |
| Feb. 20, 1965               | 14.69       | Mar. 20, 1968               | 12.52       | Apr. 20, 1971               | 20.97       |
| Mar. 20, 1965               | 16.32       | Apr. 20, 1968               | 21.90       | May 20, 1971                | 24.41       |
| Apr. 20, 1965               | 23.82       | May 20, 1968                | 24.23       | June 20, 1971               | 26.21       |
| May 20, 1965                | 20.21       | June 20, 1968               | 22.58       | July 20, 1971               | 34.51       |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-418—Continued</b> |             | <b>Well JL-49-04-418—Continued</b> |             | <b>Well JL-49-04-418—Continued</b> |             |
| Apr. 20, 1966                      | 12.56       | Apr. 20, 1969                      | 23.87       | Oct. 20, 1972                      | 22.08       |
| May 20, 1966                       | 22.59       | May 20, 1969                       | 23.64       | Nov. 20, 1972                      | 18.37       |
| June 20, 1966                      | 34.10       | June 20, 1969                      | 25.17       | Dec. 19, 1972                      | 18.05       |
| July 20, 1966                      | 25.09       | Aug. 12, 1969                      | 22.03       | Jan. 3, 1973                       | 21.99       |
| Aug. 19, 1966                      | 25.32       | Sept. 20, 1969                     | 10.20       | Feb. 18, 1973                      | 20.22       |
| Sept. 20, 1966                     | 25.75       | Oct. 20, 1969                      | 21.73       | Mar. 25, 1973                      | 18.25       |
| Oct. 20, 1966                      | 21.08       | Nov. 20, 1969                      | 21.30       | Apr. 4, 1973                       | 17.02       |
| Nov. 20, 1966                      | 21.35       | Dec. 20, 1969                      | 20.73       | May 22, 1973                       | 43.88       |
| Dec. 20, 1966                      | 21.15       | Jan. 20, 1970                      | 18.02       | July 22, 1973                      | 21.59       |
| Jan. 20, 1967                      | 23.16       | Mar. 17, 1970                      | 10.82       | Oct. 4, 1973                       | 25.34       |
| Feb. 20, 1967                      | 29.88       | Apr. 17, 1970                      | 12.81       | June 24, 1974                      | 30.55       |
| Mar. 20, 1967                      | 20.02       | May 9, 1970                        | 15.68       | July 25, 1974                      | 17.35       |
| Apr. 20, 1967                      | 23.80       | June 20, 1970                      | 28.41       | Aug. 25, 1974                      | 13.46       |
| May 20, 1967                       | 31.05       | Aug. 20, 1970                      | 33.98       | Oct. 25, 1974                      | 11.94       |
| June 20, 1967                      | 23.63       | Sept. 20, 1970                     | 16.18       | Dec. 25, 1974                      | 10.43       |
| July 20, 1967                      | 35.03       | Oct. 20, 1970                      | 22.73       | Jan. 25, 1975                      | 10.18       |
| Aug. 20, 1967                      | 29.55       | Nov. 20, 1970                      | 20.32       | June 25, 1975                      | 26.64       |
| Sept. 20, 1967                     | 34.99       | Dec. 20, 1970                      | 21.10       | Sept. 25, 1975                     | 12.32       |
| Oct. 24, 1967                      | 30.20       | Jan. 20, 1971                      | 21.19       | Oct. 25, 1975                      | 12.75       |
| Nov. 20, 1967                      | 25.56       | Feb. 5, 1971                       | 12.03       | Nov. 25, 1975                      | 12.85       |
| Dec. 20, 1967                      | 17.07       | Mar. 18, 1971                      | 22.09       | Dec. 25, 1975                      | 11.67       |
| Jan. 20, 1968                      | 16.43       | Apr. 28, 1971                      | 27.98       | Jan. 25, 1976                      | 11.80       |
| Feb. 20, 1968                      | 15.85       | May 20, 1971                       | 30.97       | Feb. 25, 1976                      | 11.61       |
| Mar. 20, 1968                      | 15.08       | June 20, 1971                      | 32.42       | Mar. 25, 1976                      | 22.74       |
| Apr. 20, 1968                      | 26.88       | July 20, 1971                      | 43.82       | Apr. 25, 1976                      | 22.55       |
| May 20, 1968                       | 31.33       | Aug. 18, 1971                      | 34.48       | May 20, 1976                       | 16.13       |
| June 20, 1968                      | 31.52       | Sept. 10, 1971                     | 52.31       | June 24, 1976                      | 28.00       |
| July 20, 1968                      | 15.95       | Nov. 11, 1971                      | 25.73       | July 22, 1976                      | 13.26       |
| Aug. 20, 1968                      | 22.30       | Dec. 20, 1971                      | 20.84       | Aug. 16, 1976                      | 17.49       |
| Sept. 20, 1968                     | 25.00       | Jan. 20, 1972                      | 23.68       | Sept. 17, 1976                     | 11.32       |
| Oct. 20, 1968                      | 14.82       | Feb. 20, 1972                      | 24.43       | Oct. 21, 1976                      | 12.15       |
| Nov. 20, 1968                      | 12.02       | Mar. 20, 1972                      | 32.85       | Nov. 21, 1976                      | 11.95       |
| Dec. 20, 1968                      | 11.27       | Apr. 20, 1972                      | 19.10       | Dec. 21, 1976                      | 12.24       |
| Jan. 20, 1969                      | 21.42       | May 20, 1972                       | 36.83       | Jan. 19, 1977                      | 10.95       |
| Feb. 17, 1969                      | 12.90       | June 20, 1972                      | 45.39       | Feb. 17, 1977                      | 22.15       |
| Mar. 27, 1969                      | 25.21       | Sept. 29, 1972                     | 34.30       | Mar. 5, 1977                       | 13.67       |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-418—Continued</b> |             | <b>Well JL-49-04-419—Continued</b> |             | <b>Well JL-49-04-419—Continued</b> |             |
| Mar. 21, 1977                      | 23.07       | June 25, 1959                      | 52.77       | July 25, 1962                      | 31.86       |
| Apr. 20, 1977                      | 29.44       | July 25, 1959                      | 56.10       | Aug. 25, 1962                      | 33.23       |
| May 24, 1977                       | 38.88       | Aug. 25, 1959                      | 28.42       | Sept. 25, 1962                     | 59.79       |
| June 21, 1977                      | 43.04       | Sept. 25, 1959                     | 16.22       | Oct. 24, 1962                      | 70.00       |
| July 22, 1977                      | 46.93       | Oct. 25, 1959                      | 56.73       | Nov. 25, 1962                      | 62.71       |
| <b>Well JL-49-04-419</b>           |             | Nov. 25, 1959                      | 57.47       | Dec. 25, 1962                      | 71.78       |
| Owner: City of El Paso             |             | Dec. 25, 1959                      | 47.05       | Jan. 25, 1963                      | 65.26       |
| Jan. 25, 1957                      | 16.88       | Jan. 25, 1960                      | 48.47       | Feb. 25, 1963                      | 76.44       |
| Feb. 25, 1957                      | 0.57        | Feb. 25, 1960                      | 60.67       | Mar. 25, 1963                      | 54.11       |
| Mar. 25, 1957                      | 1.80        | Mar. 25, 1960                      | 57.05       | Apr. 25, 1963                      | 35.88       |
| Apr. 25, 1957                      | 2.03        | Apr. 25, 1960                      | 56.40       | May 12, 1963                       | 36.35       |
| May 25, 1957                       | 1.31        | May 25, 1960                       | 45.65       | June 25, 1963                      | 42.88       |
| June 25, 1957                      | 31.45       | June 25, 1960                      | 45.65       | July 25, 1963                      | 57.31       |
| July 25, 1957                      | 35.92       | July 25, 1960                      | 40.52       | Aug. 25, 1963                      | 42.55       |
| Aug. 25, 1957                      | 36.16       | Aug. 25, 1960                      | 43.07       | Sept. 26, 1963                     | 71.59       |
| Sept. 25, 1957                     | 35.99       | Sept. 25, 1960                     | 56.78       | Oct. 25, 1963                      | 64.80       |
| Oct. 25, 1957                      | 34.02       | Oct. 25, 1960                      | 58.80       | Nov. 25, 1963                      | 57.03       |
| Nov. 25, 1957                      | 30.02       | Nov. 25, 1960                      | 60.86       | Dec. 25, 1963                      | 55.00       |
| Dec. 25, 1957                      | 30.63       | Dec. 25, 1960                      | 58.93       | Jan. 20, 1964                      | 61.20       |
| Jan. 25, 1958                      | 30.81       | Jan. 25, 1961                      | 55.84       | Feb. 27, 1964                      | 79.22       |
| Feb. 25, 1958                      | 4.19        | Feb. 25, 1961                      | 67.82       | Mar. 25, 1964                      | 48.76       |
| Mar. 24, 1958                      | 47.17       | Mar. 25, 1961                      | 54.17       | Apr. 25, 1964                      | 44.17       |
| Apr. 25, 1958                      | 48.91       | Apr. 25, 1961                      | 43.94       | May 25, 1964                       | 77.68       |
| May 25, 1958                       | 53.04       | May 25, 1961                       | 73.33       | June 25, 1964                      | 72.33       |
| June 25, 1958                      | 50.99       | June 25, 1961                      | 52.87       | July 25, 1964                      | 82.90       |
| July 25, 1958                      | 52.00       | July 25, 1961                      | 59.44       | Aug. 25, 1964                      | 73.23       |
| Aug. 25, 1958                      | 34.55       | Aug. 25, 1961                      | 55.28       | Sept. 25, 1964                     | 79.04       |
| Sept. 25, 1958                     | 24.25       | Sept. 27, 1961                     | 53.10       | Oct. 25, 1964                      | 58.00       |
| Oct. 25, 1958                      | 20.99       | Oct. 25, 1961                      | 57.32       | Nov. 25, 1964                      | 49.58       |
| Nov. 25, 1958                      | 49.50       | Nov. 25, 1961                      | 56.60       | Dec. 20, 1964                      | 46.48       |
| Dec. 25, 1958                      | 50.70       | Dec. 25, 1961                      | 60.75       | Jan. 25, 1965                      | 47.43       |
| Jan. 25, 1959                      | 51.11       | Jan. 25, 1962                      | 73.50       | Feb. 25, 1965                      | 52.58       |
| Feb. 25, 1959                      | 51.65       | Feb. 25, 1962                      | 72.56       | Mar. 25, 1965                      | 69.34       |
| Mar. 25, 1959                      | 45.55       | Mar. 23, 1962                      | 58.51       | Apr. 25, 1965                      | 49.04       |
| Apr. 25, 1959                      | 44.51       | May 25, 1962                       | 23.65       | May 21, 1965                       | 82.50       |
| May 25, 1959                       | 52.40       | June 25, 1962                      | 52.12       | June 25, 1965                      | 28.70       |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-419—Continued</b> |             | <b>Well JL-49-04-419—Continued</b> |             | <b>Well JL-49-04-419—Continued</b> |             |
| July 25, 1965                      | 31.00       | July 29, 1968                      | 52.40       | Nov. 25, 1971                      | 57.18       |
| Aug. 25, 1965                      | 28.02       | Aug. 23, 1968                      | 25.05       | Dec. 25, 1971                      | 32.67       |
| Sept. 25, 1965                     | 58.62       | Sept. 5, 1968                      | 22.63       | Jan. 25, 1972                      | 63.85       |
| Oct. 3, 1965                       | 80.25       | Oct. 25, 1968                      | 33.93       | Feb. 25, 1972                      | 60.85       |
| Nov. 21, 1965                      | 86.01       | Nov. 4, 1968                       | 35.23       | Mar. 25, 1972                      | 63.92       |
| Dec. 2, 1965                       | 85.51       | Dec. 20, 1968                      | 59.48       | Apr. 25, 1972                      | 70.67       |
| Jan. 28, 1966                      | 72.46       | Feb. 7, 1969                       | 61.20       | May 25, 1972                       | 71.57       |
| Feb. 25, 1966                      | 75.75       | Mar. 25, 1969                      | 25.98       | June 25, 1972                      | 58.48       |
| Mar. 25, 1966                      | 37.98       | Apr. 25, 1969                      | 23.24       | July 25, 1972                      | 69.39       |
| Apr. 19, 1966                      | 29.33       | May 25, 1969                       | 35.25       | Aug. 25, 1972                      | 66.75       |
| May 29, 1966                       | 49.30       | June 25, 1969                      | 44.34       | Sept. 27, 1972                     | 35.21       |
| June 4, 1966                       | 55.37       | July 25, 1969                      | 51.20       | Oct. 25, 1972                      | 54.69       |
| July 23, 1966                      | 72.22       | Aug. 25, 1969                      | 55.74       | Nov. 25, 1972                      | 50.90       |
| Aug. 19, 1966                      | 60.88       | Sept. 25, 1969                     | 36.50       | Dec. 25, 1972                      | 42.10       |
| Sept. 23, 1966                     | 34.80       | Oct. 25, 1969                      | 35.00       | Jan. 5, 1973                       | 50.82       |
| Oct. 25, 1966                      | 52.37       | Nov. 25, 1969                      | 42.88       | Feb. 25, 1973                      | 52.74       |
| Nov. 25, 1966                      | 72.57       | Dec. 25, 1969                      | 49.73       | Mar. 25, 1973                      | 55.18       |
| Dec. 25, 1966                      | 82.08       | Jan. 25, 1970                      | 52.57       | Apr. 25, 1973                      | 48.51       |
| Jan. 25, 1967                      | 72.70       | Feb. 25, 1970                      | 45.81       | May 25, 1973                       | 54.70       |
| Feb. 25, 1967                      | 80.80       | Mar. 25, 1970                      | 42.62       | June 25, 1973                      | 62.18       |
| Mar. 23, 1967                      | 47.00       | Apr. 25, 1970                      | 59.21       | July 25, 1973                      | 67.36       |
| Apr. 25, 1967                      | 28.76       | May 25, 1970                       | 51.40       | Aug. 25, 1973                      | 73.13       |
| May 25, 1967                       | 27.00       | June 25, 1970                      | 63.14       | Sept. 22, 1973                     | 56.50       |
| June 25, 1967                      | 39.60       | July 25, 1970                      | 55.58       | Oct. 25, 1973                      | 41.91       |
| July 25, 1967                      | 32.67       | Aug. 19, 1970                      | 33.03       | Nov. 10, 1973                      | 45.35       |
| Aug. 25, 1967                      | 43.75       | Dec. 12, 1970                      | 57.25       | Dec. 25, 1973                      | 65.70       |
| Sept. 25, 1967                     | 28.87       | Jan. 25, 1971                      | 61.16       | Jan. 25, 1974                      | 57.16       |
| Oct. 25, 1967                      | 43.07       | Feb. 25, 1971                      | 75.04       | Mar. 25, 1974                      | 68.49       |
| Nov. 30, 1967                      | 52.77       | Mar. 25, 1971                      | 83.66       | Apr. 25, 1974                      | 61.83       |
| Dec. 25, 1967                      | 71.01       | Apr. 25, 1971                      | 60.38       | May 21, 1974                       | 66.12       |
| Jan. 25, 1968                      | 65.79       | May 25, 1971                       | 53.49       | June 25, 1974                      | 75.54       |
| Feb. 25, 1968                      | 71.52       | June 25, 1971                      | 68.95       | July 25, 1974                      | 74.12       |
| Mar. 25, 1968                      | 60.83       | July 25, 1971                      | 51.25       | Aug. 25, 1974                      | 48.99       |
| Apr. 25, 1968                      | 85.80       | Aug. 25, 1971                      | 48.54       | Sept. 25, 1974                     | 38.33       |
| May 9, 1968                        | 79.70       | Sept. 25, 1971                     | 51.46       | Oct. 25, 1974                      | 59.80       |
| June 29, 1968                      | 52.40       | Oct. 17, 1971                      | 59.82       | Nov. 17, 1974                      | 62.75       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-419—Continued</b> |             | <b>Well JL-49-04-420—Continued</b> |             | <b>Well JL-49-04-420—Continued</b> |             |
| Dec. 25, 1974                      | 48.61       | May 5, 1952                        | 8.26        | Feb. 8, 1964                       | 19.07       |
| Jan. 25, 1975                      | 48.12       | May 22, 1952                       | 8.82        | Jan. 14, 1966                      | 19.70       |
| Feb. 25, 1975                      | 54.85       | May 29, 1952                       | 8.01        | Dec. 14, 1966                      | 16.79       |
| Mar. 25, 1975                      | 64.55       | June 2, 1952                       | 8.19        | Dec. 29, 1967                      | 18.46       |
| Apr. 12, 1975                      | 62.35       | June 6, 1952                       | 8.04        | Jan. 21, 1969                      | 15.56       |
| May 25, 1975                       | 49.25       | June 9, 1952                       | 8.06        | June 19, 1969                      | 20.24       |
| June 16, 1975                      | 74.23       | June 13, 1952                      | 6.94        | Jan. 22, 1970                      | 15.53       |
| July 25, 1975                      | 64.08       | June 16, 1952                      | 6.87        | June 23, 1970                      | 74.99       |
| Aug. 25, 1975                      | 71.65       | June 26, 1952                      | 6.92        | Jan. 25, 1971                      | 12.50       |
| Sept. 25, 1975                     | 58.24       | June 30, 1952                      | 6.24        | June 21, 1971                      | 78.63       |
| Oct. 25, 1975                      | 62.40       | July 8, 1952                       | 6.21        | Jan. 1972                          | 20.82       |
| Nov. 25, 1975                      | 62.86       | July 9, 1952                       | 6.30        | Jan. 1973                          | 21.41       |
| Dec. 25, 1975                      | 59.95       | July 10, 1952                      | 6.33        | Jan. 22, 1974                      | 12.77       |
| Jan. 25, 1976                      | 65.11       | July 11, 1952                      | 6.43        | Jan. 27, 1975                      | 9.95        |
| Feb. 20, 1976                      | 67.86       | Feb. 16, 1953                      | 6.60        | Jan. 22, 1976                      | 11.25       |
| Mar. 22, 1976                      | 74.35       | Nov. 10, 1954                      | 8.01        | June 25, 1976                      | 19.78       |
| Apr. 25, 1976                      | 66.18       | Jan. 20, 1955                      | 8.14        | Mar. 5, 1977                       | 12.26       |
| May 20, 1976                       | 73.20       | June 3, 1955                       | 15.69       |                                    |             |
| June 24, 1976                      | 77.58       | Jan. 13, 1956                      | 13.33       | <b>Well JL-49-04-421</b>           |             |
| July 22, 1976                      | 59.10       | Jan. 10, 1957                      | 24.10       | Owner: City of El Paso             |             |
| Aug. 16, 1976                      | 73.30       | Sept. 17, 1957                     | 22.82       | Sept. 26, 1961                     | 7.64        |
| Sept. 17, 1976                     | 60.18       | Oct. 8, 1957                       | 20.23       | Jan. 1972                          | 20.18       |
| Oct. 21, 1976                      | 62.48       | Oct. 9, 1958                       | 10.16       | Feb. 19, 1973                      | 19.85       |
| Nov. 21, 1976                      | 67.94       | Oct. 16, 1958                      | 10.18       | Jan. 22, 1974                      | 11.26       |
| Dec. 21, 1976                      | 63.85       | Oct. 23, 1958                      | 10.08       | Jan. 27, 1975                      | 9.73        |
| Jan. 19, 1977                      | 66.17       | Oct. 31, 1958                      | 9.94        |                                    |             |
| Feb. 17, 1977                      | 68.13       | Nov. 18, 1958                      | 10.18       | <b>Well JL-49-04-422</b>           |             |
| Mar. 5, 1977                       | 74.04       | Jan. 14, 1959                      | 9.70        | Owner: City of El Paso             |             |
| Mar. 23, 1977                      | 72.96       | Feb. 19, 1959                      | 10.85       | Mar. 6, 1963                       | 22.08       |
| Apr. 20, 1977                      | 75.72       | Feb. 27, 1959                      | 10.99       | Jan. 1972                          | 28.49       |
| May 24, 1977                       | 71.50       | Mar. 9, 1959                       | 10.68       | Feb. 14, 1973                      | 30.92       |
| June 21, 1977                      | 66.15       | Apr. 17, 1959                      | 9.91        | Jan. 21, 1974                      | 17.72       |
| July 22, 1977                      | 42.07       | Jan. 12, 1960                      | 10.90       | Jan. 27, 1975                      | 15.33       |
|                                    |             | Jan. 8, 1961                       | 11.70       | Jan. 22, 1976                      | 22.65       |
| <b>Well JL-49-04-420</b>           |             | Jan. 30, 1962                      | 12.06       |                                    |             |
| Owner: City of El Paso             |             | Dec. 28, 1962                      | 11.78       | <b>Well JL-49-04-423</b>           |             |
| Apr. 18, 1952                      | 6.50        | Dec. 16, 1963                      | 12.54       | Owner: City of El Paso             |             |
| Apr. 25, 1952                      | 8.15        |                                    |             | Oct. 21, 1964                      | 15.07       |
|                                    |             |                                    |             | Dec. 8, 1964                       | 15.20       |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                                | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|-------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-430—Continued</b> |             | <b>Well JL-49-04-431—Continued</b>  |             | <b>Well JL-49-04-436—Continued</b> |             |
| Jan. 21, 1970                      | 5.78        | June 21, 1971                       | 6.37        | Dec. 14, 1966                      | 72.47       |
| Mar. 27, 1970                      | 4.03        | Oct. 28, 1971                       | 7.37        | Dec. 28, 1967                      | 70.52       |
| June 23, 1970                      | 5.76        | Jan. 1972                           | 7.87        | Jan. 28, 1969                      | 67.64       |
| Sept. 23, 1970                     | 5.52        | Mar. 24, 1972                       | 6.21        | Feb. 2, 1971                       | 70.37       |
| Jan. 23, 1971                      | 6.07        | June 30, 1972                       | 7.01        | Jan. 7, 1972                       | 70.05       |
| June 21, 1971                      | 6.37        | Sept. 26, 1972                      | 10.81       | Jan. 29, 1973                      | 70.51       |
| Oct. 28, 1971                      | 6.17        | Mar. 22, 1973                       | 11.06       | Jan. 1974                          | 70.80       |
| Jan. 1972                          | 6.68        | Jan. 22, 1974                       | 7.42        | Jan. 23, 1975                      | 67.86       |
| Mar. 24, 1972                      | 6.08        | Apr. 11, 1974                       | 6.09        | Jan. 10, 1976                      | 69.55       |
| June 29, 1972                      | 7.60        | June 5, 1974                        | 6.37        | Feb. 17, 1977                      | 71.72       |
| Sept. 26, 1972                     | 11.35       | Oct. 2, 1974                        | 6.26        |                                    |             |
| Mar. 22, 1973                      | 11.35       | Jan. 27, 1975                       | 6.94        | <b>Well JL-49-04-438</b>           |             |
| Jan. 21, 1974                      | 6.05        | Sept. 29, 1975                      | 6.45        | Owner: E. & V. Holquin             |             |
| Apr. 11, 1974                      | 5.82        | Jan. 22, 1976                       | 6.28        | Apr. 28, 1951                      | 61.4        |
| June 5, 1974                       | 6.27        | Mar. 17, 1976                       | 5.95        | Jan. 10, 1952                      | 57.7        |
| Oct. 2, 1974                       | 7.61        | June 25, 1976                       | 5.69        | Feb. 12, 1953                      | 58.1        |
| Jan. 27, 1975                      | 5.39        | Mar. 5, 1977                        | 7.55        | Jan. 8, 1954                       | 59.0        |
| Sept. 29, 1975                     | 5.60        |                                     |             | Nov. 10, 1954                      | 60.6        |
| Jan. 22, 1976                      | 4.66        | <b>Well JL-49-04-436</b>            |             | Jan. 20, 1955                      | 60.1        |
| Mar. 17, 1976                      | 4.34        | Owner: M. Hernandez,<br>V. M. Gomez |             | Jan. 16, 1956                      | 61.7        |
| June 25, 1976                      | 4.11        | Jan. 10, 1952                       | 54.13       | Jan. 10, 1957                      | 63.1        |
| Mar. 5, 1977                       | 5.87        | Feb. 12, 1953                       | 54.53       | Jan. 10, 1958                      | 65.4        |
|                                    |             | Jan. 8, 1954                        | 55.94       | Jan. 13, 1959                      | 68.5        |
| <b>Well JL-49-04-431</b>           |             | Nov. 10, 1954                       | 62.71       | Mar. 17, 1975                      | 76.1        |
| Owner: City of El Paso             |             | Jan. 20, 1955                       | 62.03       |                                    |             |
| May 23, 1968                       | 7.18        | Jan. 16, 1956                       | 63.00       | <b>Well JL-49-04-439</b>           |             |
| July 18, 1968                      | 7.02        | Jan. 15, 1957                       | 60.00       | Owner: Donald Keily                |             |
| Oct. 28, 1968                      | 7.20        | Jan. 10, 1958                       | 61.82       | Feb. 12, 1953                      | 76.99       |
| Jan. 21, 1969                      | 7.45        | Jan. 13, 1959                       | 63.55       | Nov. 10, 1954                      | 79.73       |
| Mar. 20, 1969                      | 5.96        | Jan. 18, 1960                       | 64.74       | Jan. 20, 1955                      | 79.08       |
| June 18, 1969                      | 5.54        | Jan. 9, 1961                        | 66.04       | Apr. 25, 1955                      | 80.00       |
| Sept. 26, 1969                     | 6.41        | Jan. 30, 1962                       | 68.14       | June 6, 1955                       | 79.97       |
| Jan. 21, 1970                      | 7.18        | Dec. 28, 1962                       | 68.04       | Sept. 27, 1955                     | 82.73       |
| Mar. 27, 1970                      | 5.56        | Dec. 16, 1963                       | 67.40       | Jan. 16, 1956                      | 80.11       |
| June 23, 1970                      | 5.74        | Dec. 8, 1964                        | 70.94       | Apr. 26, 1956                      | 81.23       |
| Sept. 23, 1970                     | 6.58        | Jan. 14, 1966                       | 72.57       | June 19, 1956                      | 83.53       |
| Jan. 23, 1971                      | 7.39        |                                     |             | Jan. 10, 1957                      | 81.65       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-04-439—Continued</b> |             | <b>Well JL-49-04-445—Continued</b> |             | <b>Well JL-49-04-446—Continued</b> |             |
| Jan. 10, 1958                      | 85.21       | June 30, 1952                      | 3.0         | Sept. 30, 1952                     | 11.7        |
| Jan. 13, 1959                      | 88.07       | July 8, 1952                       | 3.2         | Feb. 16, 1953                      | 3.8         |
| June 13, 1960                      | 91.37       | July 9, 1952                       | 3.3         | Feb. 28, 1958                      | 3.6         |
| Jan. 9, 1961                       | 92.56       | July 10, 1952                      | 3.4         | <b>Well JL-49-04-447</b>           |             |
| Jan. 30, 1962                      | 95.41       | July 14, 1952                      | 3.4         | Owner: City of El Paso             |             |
| Dec. 28, 1962                      | 96.95       | July 15, 1952                      | 6.4         | May 29, 1952                       | 3.1         |
| Dec. 16, 1963                      | 95.41       | July 16, 1952                      | 6.5         | June 2, 1952                       | 3.2         |
| Dec. 8, 1964                       | 98.08       | July 18, 1952                      | 6.7         | June 6, 1952                       | 3.2         |
| Jan. 14, 1966                      | 100.84      | July 29, 1952                      | 7.4         | June 9, 1952                       | 3.3         |
| Dec. 14, 1966                      | 101.52      | July 30, 1952                      | 7.3         | June 13, 1952                      | 3.3         |
| Dec. 28, 1967                      | 98.67       | Sept. 30, 1952                     | 8.6         | June 16, 1952                      | 3.2         |
| Jan. 28, 1969                      | 95.13       | Feb. 16, 1953                      | 3.7         | June 26, 1952                      | 2.8         |
| Jan. 27, 1970                      | 95.92       | Apr. 21, 1953                      | 3.8         | June 30, 1952                      | 2.8         |
| Feb. 2, 1971                       | 99.19       | June 11, 1953                      | 5.5         | July 8, 1952                       | 3.1         |
| Jan. 7, 1972                       | 97.92       | June 30, 1953                      | 6.5         | July 9, 1952                       | 3.1         |
| Jan. 29, 1973                      | 98.95       | Jan. 8, 1954                       | 10.7        | July 10, 1952                      | 3.1         |
| Jan. 1974                          | 100.20      | Jan. 23, 1954                      | 11.7        | July 11, 1952                      | 3.1         |
| Jan. 23, 1975                      | 97.80       | Nov. 10, 1954                      | 6.1         | July 14, 1952                      | 3.1         |
| Mar. 17, 1975                      | 99.40       | Jan. 20, 1955                      | 5.6         | July 15, 1952                      | 3.0         |
| Jan. 10, 1976                      | 99.03       | Apr. 25, 1955                      | 6.8         | July 16, 1952                      | 2.9         |
| Dec. 28, 1976                      | 101.62      | June 3, 1955                       | 6.1         | July 18, 1952                      | 2.9         |
| <b>Well JL-49-04-445</b>           |             | Jan. 13, 1956                      | 9.7         | July 29, 1952                      | 2.8         |
| Owner: City of El Paso             |             | Apr. 26, 1956                      | 11.0        | July 31, 1952                      | 2.8         |
| Feb. 28, 1952                      | 3.5         | Jan. 11, 1957                      | 21.3        | Feb. 16, 1953                      | 2.7         |
| Mar. 12, 1952                      | 4.1         | Jan. 10, 1958                      | 11.1        | Nov. 10, 1954                      | 4.5         |
| Apr. 18, 1952                      | 3.1         | Apr. 21, 1958                      | 9.2         | Jan. 20, 1955                      | 3.8         |
| Apr. 25, 1952                      | 3.3         | Oct. 9, 1958                       | 5.3         | June 3, 1955                       | 2.6         |
| May 1, 1952                        | 3.7         | Oct. 16, 1958                      | 5.1         | <b>Well JL-49-04-448</b>           |             |
| May 5, 1952                        | 3.5         | Oct. 23, 1958                      | 4.9         | Owner: Sam B. Gillette, Jr.        |             |
| May 22, 1952                       | 3.8         | Oct. 31, 1958                      | 4.7         | Jan. 10, 1952                      | 7.8         |
| May 29, 1952                       | 3.3         | Nov. 18, 1958                      | 5.0         | Oct. 3, 1952                       | 9.8         |
| June 2, 1952                       | 3.5         | <b>Well JL-49-04-446</b>           |             | Feb. 16, 1953                      | 7.9         |
| June 6, 1952                       | 3.4         | Owner: City of El Paso             |             | Jan. 20, 1955                      | 10.8        |
| June 9, 1952                       | 3.4         | Feb. 28, 1952                      | 3.2         | Jan. 18, 1956                      | 12.8        |
| June 13, 1952                      | 3.6         | May 29, 1952                       | 3.6         | Jan. 15, 1957                      | 21.6        |
| June 26, 1952                      | 3.5         | July 31, 1952                      | 10.4        | Nov. 1, 1957                       | 17.3        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                     | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-04-448—Continued</b> |             | <b>Well JL-49-04-704—Continued</b> |             | <b>Well JL-49-04-718</b> |             |
| Jan. 9, 1958                       | 15.4        | Mar. 27, 1970                      | 3.48        | Owner: Indar Singh       |             |
| Jan. 14, 1959                      | 8.1         | June 23, 1970                      | 3.30        | Mar. 26, 1952            | 7.48        |
| <b>Well JL-49-04-450</b>           |             | Sept. 23, 1970                     | 4.11        | Jan. 16, 1953            | 7.37        |
| Owner: — Dunlap                    |             | Jan. 1971                          | 5.11        | Nov. 11, 1954            | 8.49        |
| Jan. 18, 1956                      | 11.1        | June 21, 1971                      | 3.75        | Jan. 21, 1955            | 8.42        |
| Jan. 15, 1957                      | 19.6        | Oct. 28, 1971                      | 4.77        | Jan. 18, 1956            | 9.86        |
| Feb. 5, 1958                       | 11.7        | Jan. 1972                          | 4.40        | Jan. 11, 1957            | 10.68       |
| Jan. 14, 1959                      | 6.9         | Mar. 22, 1973                      | 3.75        | Jan. 10, 1958            | 9.00        |
| <b>Well JL-49-04-452</b>           |             | Jan. 22, 1974                      | 5.30        | Oct. 23, 1958            | 5.97        |
| Owner: McKee Construction Company  |             | Apr. 11, 1974                      | 3.34        | Oct. 30, 1958            | 6.25        |
| Jan. 10, 1958                      | 112.6       | June 5, 1974                       | 3.50        | Nov. 24, 1958            | 6.64        |
| June 12, 1958                      | 114.4       | Oct. 2, 1974                       | 4.28        | Jan. 13, 1959            | 6.97        |
| Jan. 15, 1959                      | 112.0       | Jan. 27, 1975                      | 4.90        | Feb. 19, 1959            | 7.14        |
| Nov. 1959                          | 112.6       | Mar. 18, 1975                      | 3.73        | Jan. 15, 1960            | 6.99        |
| <b>Well JL-49-04-702</b>           |             | Sept. 29, 1975                     | 3.95        | Dec. 27, 1962            | 7.28        |
| Owner: Barry Hagedorn              |             | Jan. 22, 1976                      | 3.25        | Dec. 28, 1967            | 7.74        |
| Jan. 16, 1953                      | 4.3         | Mar. 17, 1976                      | 3.62        | Jan. 28, 1969            | 6.92        |
| Nov. 11, 1954                      | 5.2         | June 25, 1976                      | 3.14        | Jan. 26, 1970            | 6.77        |
| Jan. 21, 1955                      | 5.2         | <b>Well JL-49-04-711</b>           |             | Feb. 2, 1971             | 6.57        |
| Jan. 18, 1956                      | 6.2         | Owner: Steve Cone                  |             | Jan. 6, 1972             | 6.70        |
| Jan. 11, 1957                      | 7.0         | Aug. 31, 1951                      | 5.66        | Jan. 26, 1973            | 6.83        |
| Jan. 10, 1958                      | 5.5         | Oct. 22, 1974                      | 6.11        | Jan. 1974                | 7.50        |
| Jan. 13, 1959                      | 3.7         | Mar. 18, 1975                      | 7.06        | Jan. 21, 1975            | 5.69        |
| Mar. 18, 1975                      | 3.3         | <b>Well JL-49-04-712</b>           |             | Mar. 18, 1975            | 5.50        |
| <b>Well JL-49-04-704</b>           |             | Owner: El Dorado Farm              |             | Jan. 14, 1976            | 5.76        |
| Owner: City of El Paso             |             | June 11, 1952                      | 8.7         | <b>Well JL-49-04-722</b> |             |
| May 16, 1958                       | 4.48        | Feb. 18, 1953                      | 8.7         | Owner: J. Brewington     |             |
| July 18, 1958                      | 4.84        | Nov. 11, 1954                      | 9.2         | Apr. 28, 1951            | 31.2        |
| Oct. 28, 1958                      | 5.47        | Jan. 21, 1955                      | 8.9         | Mar. 12, 1953            | 30.6        |
| Jan. 22, 1969                      | 5.45        | Jan. 18, 1956                      | 9.8         | Nov. 11, 1954            | 31.1        |
| Mar. 20, 1969                      | 3.88        | Jan. 11, 1957                      | 11.5        | Jan. 21, 1955            | 31.1        |
| June 18, 1969                      | 3.77        | Jan. 10, 1958                      | 10.0        | Apr. 25, 1955            | 31.4        |
| Sept. 20, 1969                     | 4.40        | Jan. 13, 1959                      | 6.8         | June 6, 1955             | 31.7        |
| Jan. 21, 1970                      | 5.24        | Mar. 18, 1975                      | 5.9         | Sept. 28, 1955           | 31.2        |
|                                    |             |                                    |             | Jan. 16, 1956            | 32.0        |
|                                    |             |                                    |             | Apr. 26, 1956            | 31.4        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                     | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-04-722—Continued</b> |             | <b>Well JL-49-05-204—Continued</b> |             | <b>Well JL-49-05-306</b> |             |
| June 19, 1956                      | 32.1        | Jan. 20, 1970                      | 350.72      | Owner: City of El Paso   |             |
| Jan. 11, 1957                      | 32.8        | Jan. 1971                          | 351.43      | Aug. 5, 1965             | 364.02      |
| Jan. 26, 1957                      | 32.6        | Jan. 1972                          | 353.18      | Jan. 3, 1967             | 356.02      |
| Jan. 10, 1958                      | 32.7        | Jan. 1973                          | 354.62      | Jan. 16, 1968            | 355.84      |
| June 12, 1958                      | 30.1        | Jan. 16, 1974                      | 356.81      | Jan. 17, 1969            | 358.68      |
| <b>Well JL-49-04-724</b>           |             | Jan. 7, 1975                       | 357.48      | Jan. 20, 1970            | 359.72      |
| Owner: Jose Roque                  |             | Jan. 21, 1976                      | 358.58      | Jan. 1971                | 360.13      |
| Feb. 18, 1953                      | 7.5         | Feb. 2, 1977                       | 357.20      | Jan. 1972                | 361.98      |
| Jan. 8, 1954                       | 7.9         | <b>Well JL-49-05-205</b>           |             | Jan. 1973                | 365.88      |
| Nov. 11, 1954                      | 15.7        | Owner: City of El Paso             |             | Jan. 14, 1974            | 367.57      |
| Jan. 21, 1955                      | 10.7        | May 27, 1940                       | 317.17      | Jan. 6, 1975             | 366.75      |
| June 6, 1955                       | 15.7        | Jan. 1961                          | 322.64      | Jan. 19, 1976            | 364.90      |
| Jan. 11, 1957                      | 13.6        | Jan. 1970                          | 340.75      | Feb. 8, 1977             | 364.97      |
| Jan. 10, 1958                      | 11.1        | Jan. 6, 1975                       | 340.50      | <b>Well JL-49-05-309</b> |             |
| Jan. 13, 1959                      | 6.1         | Jan. 15, 1976                      | 346.37      | Owner: City of El Paso   |             |
| Mar. 18, 1975                      | 6.5         | <b>Well JL-49-05-301</b>           |             | Jan. 1960                | 348.03      |
| <b>Well JL-49-05-202</b>           |             | Owner: City of El Paso             |             | Jan. 1961                | 348.27      |
| Owner: City of El Paso             |             | June 13, 1960                      | 316.40      | Jan. 1966                | 312.89      |
| Jan. 19, 1958                      | 333.98      | Jan. 8, 1962                       | 317.06      | Feb. 1, 1973             | 350.45      |
| Jan. 1970                          | 358.0       | Jan. 3, 1963                       | 319.57      | Jan. 1974                | 350.88      |
| Jan. 1974                          | 363.1       | Jan. 3, 1964                       | 323.42      | <b>Well JL-49-05-501</b> |             |
| <b>Well JL-49-05-204</b>           |             | Jan. 4, 1965                       | 325.84      | Owner: City of El Paso   |             |
| Owner: City of El Paso             |             | Dec. 29, 1965                      | 331.52      | Jan. 22, 1956            | 320.0       |
| Jan. 5, 1960                       | 331.58      | Jan. 3, 1967                       | 330.26      | Jan. 1961                | 323.03      |
| Jan. 26, 1962                      | 333.70      | Jan. 16, 1968                      | 329.76      | Jan. 1972                | 351.03      |
| Nov. 1, 1962                       | 336.80      | Jan. 17, 1969                      | 330.57      | Feb. 1, 1973             | 349.74      |
| Nov. 2, 1962                       | 336.83      | Jan. 20, 1970                      | 332.36      | Jan. 16, 1974            | 357.54      |
| Nov. 7, 1962                       | 336.96      | Jan. 1971                          | 332.93      | Jan. 7, 1975             | 359.88      |
| Jan. 3, 1963                       | 336.08      | Jan. 1972                          | 334.65      | <b>Well JL-49-05-502</b> |             |
| Jan. 3, 1964                       | 339.10      | Jan. 1973                          | 337.74      | Owner: Price's Dairy     |             |
| Jan. 4, 1965                       | 341.50      | Jan. 14, 1974                      | 339.97      | Apr. 23, 1940            | 335.60      |
| Dec. 29, 1965                      | 343.84      | Jan. 7, 1975                       | 340.29      | Jan. 26, 1955            | 340.73      |
| Jan. 3, 1967                       | 345.74      | Jan. 21, 1976                      | 340.22      | June 15, 1955            | 341.35      |
| Jan. 16, 1968                      | 347.40      | Feb. 2, 1977                       | 341.21      | Sept. 21, 1955           | 341.50      |
| Jan. 21, 1969                      | 348.88      |                                    |             | Jan. 23, 1956            | 342.28      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-05-502—Continued</b> |             | <b>Well JL-49-05-503—Continued</b> |             | <b>Well JL-49-05-601—Continued</b> |             |
| Apr. 30, 1956                      | 342.85      | Dec. 29, 1965                      | 356.05      | Jan. 9, 1962                       | 306.20      |
| June 21, 1956                      | 343.24      | Jan. 3, 1967                       | 356.44      | Nov. 1, 1962                       | 310.10      |
| Sept. 20, 1956                     | 343.87      | Jan. 16, 1968                      | 357.33      | Nov. 2, 1962                       | 310.10      |
| Jan. 8, 1957                       | 344.20      | Jan. 20, 1970                      | 359.65      | Nov. 7, 1962                       | 310.02      |
| Jan. 24, 1958                      | 346.50      | Jan. 1971                          | 360.05      | Jan. 3, 1963                       | 308.45      |
| Jan. 6, 1959                       | 347.75      | Jan. 1972                          | 363.56      | Jan. 3, 1964                       | 311.75      |
| June 15, 1959                      | 350.10      | Jan. 1973                          | 366.70      | Jan. 4, 1965                       | 315.13      |
| Jan. 4, 1960                       | 354.47      | Jan. 16, 1974                      | 370.64      | Dec. 29, 1965                      | 319.10      |
| Feb. 2, 1960                       | 351.34      | Jan. 7, 1975                       | 370.95      | Jan. 3, 1967                       | 318.77      |
| July 21, 1960                      | 354.03      | Jan. 21, 1976                      | 374.74      | Jan. 16, 1968                      | 318.85      |
| Jan. 4, 1961                       | 352.75      | Feb. 2, 1977                       | 374.13      | Jan. 17, 1969                      | 318.11      |
| July 5, 1961                       | 355.05      |                                    |             | Jan. 19, 1970                      | 320.37      |
| Jan. 9, 1962                       | 356.50      | <b>Well JL-49-05-504</b>           |             | Jan. 1971                          | 320.74      |
| July 3, 1962                       | 357.88      | Owner: City of El Paso             |             | Jan. 1972                          | 322.80      |
| Jan. 3, 1963                       | 357.05      | Jan. 20, 1970                      | 470.17      | Jan. 14, 1974                      | 328.88      |
| July 1, 1963                       | 361.13      | Jan. 1971                          | 474.60      | Jan. 8, 1975                       | 328.74      |
| Jan. 3, 1964                       | 362.13      | Jan. 1972                          | 477.96      | Jan. 19, 1976                      | 330.44      |
| July 1, 1964                       | 365.36      | Jan. 1973                          | 482.69      |                                    |             |
| Jan. 4, 1965                       | 366.50      | Jan. 16, 1974                      | 484.48      | <b>Well JL-49-05-602</b>           |             |
| July 5, 1965                       | 368.04      | Jan. 8, 1975                       | 491.04      | Owner: City of El Paso             |             |
| Dec. 29, 1965                      | 370.30      | Feb. 4, 1977                       | 489.55      | May 2, 1958                        | 308.51      |
| July 7, 1966                       | 369.75      |                                    |             | Jan. 6, 1959                       | 309.03      |
| Jan. 3, 1967                       | 367.75      | <b>Well JL-49-05-507</b>           |             | Jan. 5, 1960                       | 312.84      |
| July 5, 1967                       | 371.28      | Owner: U.S. Geological Survey      |             | Jan. 4, 1961                       | 314.04      |
| Jan. 2, 1968                       | 367.92      | Jan. 1954                          | 423.08      | Jan. 9, 1962                       | 315.40      |
| July 12, 1968                      | 371.08      | Jan. 1960                          | 433.55      | Jan. 3, 1963                       | 317.18      |
| Sept. 4, 1970                      | 376.39      | Jan. 1961                          | 435.34      | Jan. 3, 1964                       | 320.34      |
| Jan. 1971                          | 370.08      | Jan. 1963                          | 439.40      | Jan. 4, 1965                       | 322.88      |
| Jan. 20, 1972                      | 372.65      | Jan. 1964                          | 441.46      | Jan. 10, 1967                      | 325.50      |
| Jan. 1973                          | 376.07      | Jan. 1965                          | 446.43      | Jan. 16, 1968                      | 325.07      |
| Jan. 16, 1974                      | 378.09      | Jan. 1966                          | 448.27      | Dec. 29, 1968                      | 327.08      |
| Jan. 7, 1975                       | 378.16      |                                    |             | Jan. 17, 1969                      | 325.27      |
| Jan. 21, 1976                      | 379.65      | <b>Well JL-49-05-601</b>           |             | Jan. 19, 1970                      | 327.06      |
| Feb. 2, 1977                       | 381.17      | Owner: City of El Paso             |             | Jan. 1971                          | 327.68      |
|                                    |             | July 7, 1958                       | 298.96      | Jan. 1972                          | 329.15      |
| <b>Well JL-49-05-503</b>           |             | Jan. 6, 1959                       | 299.43      | Jan. 1973                          | 332.71      |
| Owner: City of El Paso             |             | July 16, 1969                      | 374.85      | Jan. 14, 1974                      | 335.16      |
| Dec. 6, 1963                       | 349.15      | Feb. 2, 1960                       | 302.85      | Jan. 20, 1975                      | 335.50      |
| Jan. 4, 1965                       | 353.16      | Jan. 4, 1961                       | 304.58      |                                    |             |



**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                     | WATER LEVEL                        | DATE                     | WATER LEVEL   |                                    |  |  |
|------------------------------------|-------------|--------------------------|------------------------------------|--------------------------|---------------|------------------------------------|--|--|
| <b>Well JL-49-05-602—Continued</b> |             |                          | <b>Well JL-49-05-604—Continued</b> |                          |               | <b>Well JL-49-05-606—Continued</b> |  |  |
| Jan. 1976                          | 335.98      | Jan. 16, 1968            | 295.60                             | Jan. 5, 1960             | 268.92        |                                    |  |  |
| Feb. 8, 1977                       | 338.30      | Jan. 17, 1969            | 298.94                             | Jan. 4, 1961             | 271.22        |                                    |  |  |
| <b>Well JL-49-05-603</b>           |             |                          | Jan. 19, 1970                      | 300.27                   | Jan. 9, 1962  | 273.43                             |  |  |
| Owner: City of El Paso             |             |                          | Jan. 1971                          | 300.69                   | Jan. 3, 1963  | 276.54                             |  |  |
| Nov. 15, 1957                      | 289.73      | Jan. 1972                | 303.18                             | Jan. 3, 1964             | 278.92        |                                    |  |  |
| Jan. 6, 1959                       | 291.49      | Feb. 1, 1973             | 307.08                             | Jan. 4, 1965             | 282.75        |                                    |  |  |
| July 16, 1959                      | 334.60      | Jan. 14, 1974            | 310.69                             | Dec. 29, 1965            | 283.40        |                                    |  |  |
| Jan. 4, 1960                       | 296.13      | Jan. 20, 1975            | 311.08                             | Jan. 10, 1967            | 284.04        |                                    |  |  |
| Jan. 4, 1961                       | 297.01      | Jan. 19, 1976            | 312.46                             | Jan. 16, 1968            | 284.85        |                                    |  |  |
| Jan. 9, 1962                       | 299.15      | Feb. 8, 1977             | 313.82                             | Jan. 17, 1968            | 286.19        |                                    |  |  |
| Jan. 3, 1963                       | 300.48      | <b>Well JL-49-05-605</b> |                                    |                          | Jan. 19, 1970 | 287.88                             |  |  |
| Jan. 3, 1964                       | 302.85      | Owner: City of El Paso   |                                    |                          | Jan. 1971     | 288.46                             |  |  |
| Dec. 28, 1965                      | 304.71      | Aug. 12, 1960            | 300.65                             | Jan. 8, 1975             | 301.61        |                                    |  |  |
| Jan. 17, 1969                      | 338.71      | Jan. 26, 1962            | 295.70                             | Feb. 2, 1977             | 301.65        |                                    |  |  |
| Jan. 19, 1970                      | 340.31      | Nov. 29, 1962            | 337.08                             | <b>Well JL-40-05-607</b> |               |                                    |  |  |
| Jan. 1971                          | 310.45      | Nov. 30, 1962            | 336.65                             | Owner: City of El Paso   |               |                                    |  |  |
| Jan. 1972                          | 313.92      | Dec. 2, 1962             | 336.20                             | Nov. 17, 1959            | 244.20        |                                    |  |  |
| Jan. 1973                          | 318.23      | Jan. 3, 1963             | 298.00                             | Jan. 3, 1963             | 249.55        |                                    |  |  |
| Jan. 8, 1975                       | 321.43      | Jan. 3, 1964             | 301.08                             | Jan. 4, 1965             | 255.60        |                                    |  |  |
| Feb. 1, 1977                       | 358.79      | Jan. 5, 1965             | 302.70                             | Dec. 29, 1965            | 256.84        |                                    |  |  |
| <b>Well JL-49-05-604</b>           |             |                          | Dec. 29, 1965                      | 305.42                   | Jan. 10, 1967 | 258.07                             |  |  |
| Owner: City of El Paso             |             |                          | Jan. 10, 1967                      | 305.38                   | Jan. 16, 1968 | 258.59                             |  |  |
| Feb. 13, 1958                      | 276.21      | Jan. 16, 1968            | 305.66                             | Jan. 20, 1970            | 261.47        |                                    |  |  |
| Jan. 6, 1959                       | 280.86      | Jan. 17, 1969            | 306.29                             | Jan. 1971                | 262.52        |                                    |  |  |
| Apr. 28, 1959                      | 332.85      | Jan. 20, 1970            | 307.79                             | Jan. 1972                | 266.81        |                                    |  |  |
| May 26, 1959                       | 279.18      | Jan. 1971                | 308.74                             | Jan. 5, 1974             | 272.71        |                                    |  |  |
| May 27, 1959                       | 281.20      | Jan. 1972                | 311.12                             | Jan. 21, 1976            | 277.11        |                                    |  |  |
| Jan. 5, 1960                       | 281.39      | Jan. 1973                | 314.05                             | Feb. 8, 1977             | 277.20        |                                    |  |  |
| Jan. 4, 1961                       | 283.19      | Jan. 16, 1974            | 316.50                             | <b>Well JL-49-05-608</b> |               |                                    |  |  |
| Jan. 9, 1962                       | 285.30      | Jan. 20, 1975            | 317.98                             | Owner: City of El Paso   |               |                                    |  |  |
| Jan. 3, 1963                       | 287.40      | Jan. 19, 1976            | 318.73                             | June 2, 1966             | 330.13        |                                    |  |  |
| Jan. 3, 1964                       | 290.90      | Feb. 8, 1977             | 319.72                             | June 2, 1966             | 330.05        |                                    |  |  |
| Jan. 4, 1965                       | 293.59      | <b>Well JL-49-05-606</b> |                                    |                          | July 7, 1966  | 328.58                             |  |  |
| Dec. 29, 1965                      | 296.34      | Owner: City of El Paso   |                                    |                          | July 7, 1966  | 328.03                             |  |  |
| Jan. 10, 1967                      | 296.29      | May 10, 1956             | 271.50                             | Jan. 10, 1967            | 316.50        |                                    |  |  |
|                                    |             | Jan. 6, 1959             | 265.57                             |                          |               |                                    |  |  |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-05-608—Continued</b> |             | <b>Well JL-49-05-610—Continued</b> |             | <b>Well JL-49-05-610—Continued</b> |             |
| Jan. 10, 1967                      | 316.20      | July 25, 1957                      | 284.81      | July 25, 1960                      | 289.27      |
| July 5, 1967                       | 331.77      | Aug. 25, 1957                      | 284.80      | Aug. 25, 1960                      | 289.52      |
| July 5, 1967                       | 331.35      | Sept. 25, 1957                     | 284.81      | Sept. 25, 1960                     | 289.96      |
| Jan. 2, 1968                       | 317.93      | Oct. 25, 1957                      | 284.45      | Oct. 25, 1960                      | 289.35      |
| Jan. 2, 1968                       | 317.93      | Nov. 25, 1957                      | 284.20      | Nov. 25, 1960                      | 289.14      |
| July 12, 1968                      | 331.25      | Dec. 25, 1957                      | 284.12      | Dec. 25, 1960                      | 289.02      |
| July 12, 1968                      | 331.25      | Jan. 25, 1958                      | 282.55      | Jan. 25, 1961                      | 288.85      |
| Jan. 17, 1969                      | 319.98      | Feb. 25, 1958                      | 282.58      | Feb. 25, 1961                      | 288.63      |
| Jan. 17, 1969                      | 319.94      | Mar. 25, 1958                      | 282.70      | Mar. 25, 1961                      | 288.62      |
| June 18, 1969                      | 333.15      | Apr. 25, 1958                      | 282.96      | Apr. 14, 1961                      | 288.80      |
| June 18, 1969                      | 333.09      | May 25, 1958                       | 284.40      | May 25, 1961                       | 290.21      |
| Jan. 20, 1970                      | 321.73      | June 25, 1958                      | 285.50      | June 25, 1961                      | 290.58      |
| Jan. 20, 1970                      | 321.70      | July 25, 1958                      | 285.50      | July 9, 1961                       | 290.76      |
| June 23, 1970                      | 333.00      | Aug. 25, 1958                      | 284.89      | Aug. 25, 1961                      | 291.39      |
| June 23, 1970                      | 332.96      | Sept. 25, 1958                     | 284.75      | Sept. 25, 1961                     | 291.74      |
| Jan. 1971                          | 332.08      | Oct. 25, 1958                      | 284.41      | Oct. 25, 1961                      | 291.93      |
| Jan. 1971                          | 332.06      | Nov. 25, 1958                      | 284.14      | Nov. 25, 1961                      | 291.58      |
| June 22, 1971                      | 335.04      | Dec. 25, 1958                      | 283.93      | Dec. 25, 1961                      | 291.23      |
| June 22, 1971                      | 335.05      | Jan. 25, 1959                      | 283.89      | Jan. 25, 1962                      | 290.85      |
| Jan. 1973                          | 328.14      | Feb. 25, 1959                      | 283.90      | Feb. 20, 1962                      | 290.80      |
| Jan. 1973                          | 328.11      | Mar. 25, 1959                      | 283.94      | Mar. 25, 1962                      | 291.71      |
| Jan. 14, 1974                      | 331.32      | Apr. 25, 1959                      | 284.61      | Apr. 25, 1962                      | 291.59      |
| June 4, 1974                       | 340.16      | May 25, 1959                       | 285.92      | May 25, 1962                       | 291.92      |
| Jan. 20, 1975                      | 330.88      | June 25, 1959                      | 286.46      | June 25, 1962                      | 292.47      |
| June 27, 1975                      | 331.44      | July 25, 1959                      | 287.05      | July 25, 1962                      | 292.58      |
| <b>Well JL-49-05-610</b>           |             | Aug. 25, 1959                      | 286.58      | Aug. 25, 1962                      | 292.93      |
| Owner: City of El Paso             |             | Sept. 25, 1959                     | 287.37      | Sept. 25, 1962                     | 292.82      |
| May 31, 1956                       | 319.23      | Oct. 25, 1959                      | 287.35      | Oct. 25, 1962                      | 293.13      |
| Nov. 25, 1956                      | 281.96      | Nov. 25, 1959                      | 286.45      | Nov. 25, 1962                      | 293.40      |
| Dec. 25, 1956                      | 281.58      | Dec. 25, 1959                      | 286.12      | Dec. 25, 1962                      | 292.84      |
| Jan. 25, 1957                      | 281.50      | Jan. 25, 1960                      | 286.29      | Jan. 25, 1963                      | 293.20      |
| Feb. 25, 1957                      | 281.66      | Feb. 25, 1960                      | 286.58      | Feb. 25, 1963                      | 293.23      |
| Mar. 25, 1967                      | 282.37      | Mar. 25, 1960                      | 286.99      | Mar. 25, 1963                      | 293.78      |
| Apr. 25, 1957                      | 283.27      | Apr. 25, 1960                      | 287.81      | Apr. 25, 1963                      | 294.28      |
| May 25, 1957                       | 284.82      | May 25, 1960                       | 288.50      | May 25, 1963                       | 294.79      |
| June 25, 1957                      | 285.21      | June 25, 1960                      | 288.89      | June 25, 1963                      | 295.78      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-05-610—Continued</b> |             | <b>Well JL-49-05-610—Continued</b> |             | <b>Well JL-49-05-610—Continued</b> |             |
| July 25, 1963                      | 296.16      | July 25, 1966                      | 301.39      | Aug. 25, 1969                      | 306.22      |
| Aug. 25, 1963                      | 296.38      | Aug. 25, 1966                      | 301.66      | Sept. 25, 1969                     | 306.30      |
| Sept. 25, 1963                     | 296.44      | Sept. 25, 1966                     | 301.63      | Oct. 25, 1969                      | 306.30      |
| Oct. 25, 1963                      | 296.18      | Oct. 25, 1966                      | 301.92      | Nov. 23, 1969                      | 306.14      |
| Nov. 25, 1963                      | 295.79      | Nov. 25, 1966                      | 301.22      | Dec. 25, 1969                      | 305.90      |
| Dec. 25, 1963                      | 295.65      | Dec. 25, 1966                      | 301.04      | Jan. 25, 1970                      | 305.80      |
| Jan. 25, 1964                      | 295.60      | Jan. 25, 1967                      | 300.78      | Feb. 25, 1970                      | 305.88      |
| Feb. 25, 1964                      | 295.27      | Feb. 25, 1967                      | 301.04      | Mar. 25, 1970                      | 305.60      |
| Mar. 25, 1964                      | 295.43      | Mar. 25, 1967                      | 301.18      | Apr. 25, 1970                      | 306.18      |
| Apr. 25, 1964                      | 295.79      | Apr. 23, 1967                      | 301.78      | May 25, 1970                       | 306.70      |
| May 25, 1964                       | 296.85      | June 25, 1967                      | 302.69      | June 25, 1970                      | 307.31      |
| June 25, 1964                      | 297.39      | July 25, 1967                      | 303.08      | July 25, 1970                      | 307.38      |
| July 25, 1964                      | 297.72      | Aug. 25, 1967                      | 303.30      | Aug. 25, 1970                      | 307.81      |
| Aug. 25, 1964                      | 298.13      | Sept. 26, 1967                     | 303.17      | Sept. 25, 1970                     | 307.72      |
| Sept. 25, 1964                     | 298.30      | Oct. 25, 1967                      | 303.29      | Oct. 25, 1970                      | 307.40      |
| Oct. 25, 1964                      | 298.37      | Nov. 25, 1967                      | 302.99      | Nov. 25, 1970                      | 307.18      |
| Nov. 25, 1964                      | 298.59      | Dec. 25, 1967                      | 303.07      | Dec. 25, 1970                      | 307.24      |
| Dec. 25, 1964                      | 298.50      | Jan. 25, 1968                      | 302.43      | Jan. 25, 1971                      | 307.39      |
| Jan. 25, 1965                      | 298.48      | Feb. 25, 1968                      | 302.69      | Feb. 25, 1971                      | 307.47      |
| Feb. 25, 1965                      | 298.50      | Mar. 25, 1968                      | 302.64      | Mar. 25, 1971                      | 307.89      |
| Mar. 25, 1965                      | 298.03      | Apr. 25, 1968                      | 302.98      | Apr. 25, 1971                      | 307.97      |
| Apr. 25, 1965                      | 298.34      | May 25, 1968                       | 303.75      | May 25, 1971                       | 308.56      |
| May 25, 1965                       | 298.57      | June 25, 1968                      | 303.96      | June 25, 1971                      | 308.96      |
| June 25, 1965                      | 299.07      | July 25, 1968                      | 304.22      | July 25, 1971                      | 309.10      |
| July 25, 1965                      | 299.56      | Aug. 25, 1968                      | 304.55      | Aug. 25, 1971                      | 309.45      |
| Aug. 25, 1965                      | 300.05      | Sept. 25, 1968                     | 305.00      | Sept. 25, 1971                     | 309.72      |
| Sept. 25, 1965                     | 300.27      | Oct. 25, 1968                      | 304.85      | Oct. 25, 1971                      | 309.79      |
| Oct. 25, 1965                      | 300.31      | Nov. 25, 1968                      | 304.37      | Nov. 25, 1971                      | 310.32      |
| Nov. 25, 1965                      | 299.53      | Dec. 25, 1968                      | 304.05      | Dec. 25, 1971                      | 310.38      |
| Dec. 25, 1965                      | 299.72      | Jan. 25, 1969                      | 304.10      | Jan. 25, 1972                      | 310.87      |
| Jan. 25, 1966                      | 299.40      | Feb. 25, 1969                      | 303.93      | Feb. 25, 1972                      | 310.79      |
| Feb. 25, 1966                      | 299.36      | Mar. 25, 1969                      | 304.26      | Mar. 25, 1972                      | 310.90      |
| Mar. 25, 1966                      | 299.88      | Apr. 25, 1969                      | 304.45      | Apr. 25, 1972                      | 311.24      |
| Apr. 25, 1966                      | 300.41      | May 25, 1969                       | 305.18      | May 25, 1972                       | 311.68      |
| May 25, 1966                       | 300.83      | June 25, 1969                      | 305.48      | June 25, 1972                      | 311.98      |
| June 25, 1966                      | 301.19      | July 25, 1969                      | 306.05      | July 25, 1972                      | 312.45      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                     | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-05-610—Continued</b> |             | <b>Well JL-49-05-610—Continued</b> |             | <b>Well JL-49-05-802</b> |             |
| Aug. 25, 1972                      | 312.63      | Aug. 25, 1975                      | 321.96      | Owner: City of El Paso   |             |
| Sept. 25, 1972                     | 312.83      | Sept. 25, 1975                     | 322.21      | Mar. 25, 1953            | 288.0       |
| Oct. 25, 1972                      | 312.96      | Oct. 25, 1975                      | 322.37      | Jan. 31, 1973            | 320.26      |
| Nov. 25, 1972                      | 313.13      | Nov. 25, 1975                      | 322.70      | Jan. 16, 1974            | 375.39      |
| Dec. 25, 1972                      | 313.32      | Dec. 25, 1975                      | 322.48      | <b>Well JL-49-05-803</b> |             |
| Jan. 25, 1973                      | 313.25      | Jan. 25, 1976                      | 322.75      | Owner: City of El Paso   |             |
| Feb. 25, 1973                      | 313.43      | Feb. 25, 1976                      | 323.66      | Jan. 15, 1953            | 258.54      |
| Mar. 25, 1973                      | 313.45      | Mar. 25, 1976                      | 324.39      | Jan. 1964                | 283.70      |
| Apr. 25, 1973                      | 313.90      | Apr. 20, 1976                      | 323.32      | Jan. 4, 1965             | 287.47      |
| May 25, 1973                       | 314.19      | May 20, 1976                       | 324.03      | Dec. 27, 1965            | 286.50      |
| June 25, 1973                      | 314.93      | June 21, 1976                      | 325.81      | Jan. 10, 1967            | 288.62      |
| July 25, 1973                      | 315.19      | July 20, 1976                      | 324.77      | Dec. 28, 1967            | 289.96      |
| Aug. 25, 1973                      | 315.38      | Aug. 20, 1976                      | 325.49      | Jan. 17, 1969            | 290.44      |
| Sept. 25, 1973                     | 315.47      | Sept. 20, 1976                     | 325.75      | Jan. 1970                | 304.49      |
| Oct. 25, 1973                      | 315.81      | Oct. 21, 1976                      | 324.36      | Jan. 16, 1970            | 292.52      |
| Nov. 25, 1973                      | 315.72      | Nov. 21, 1976                      | 324.00      | Jan. 1971                | 332.74      |
| Dec. 25, 1973                      | 315.94      | Dec. 20, 1976                      | 323.35      | Jan. 1973                | 304.49      |
| Jan. 25, 1974                      | 316.02      | Jan. 19, 1977                      | 323.13      | Jan. 14, 1974            | 346.52      |
| Feb. 25, 1974                      | 317.00      | Feb. 18, 1977                      | 323.30      | Feb. 1, 1977             | 312.66      |
| Mar. 25, 1974                      | 317.08      | Mar. 21, 1977                      | 325.66      | <b>Well JL-49-05-901</b> |             |
| Apr. 25, 1974                      | 317.80      | Apr. 20, 1977                      | 324.44      | Owner: City of El Paso   |             |
| May 20, 1974                       | 318.31      | May 21, 1977                       | 325.00      | July 30, 1956            | 256.65      |
| June 25, 1974                      | 318.67      | June 20, 1977                      | 327.34      | Sept. 18, 1956           | 267.34      |
| July 25, 1974                      | 318.51      | <b>Well JL-49-05-801</b>           |             | Mar. 30, 1958            | 256.94      |
| Aug. 25, 1974                      | 318.27      | Owner: City of El Paso             |             | Dec. 15, 1958            | 258.47      |
| Sept. 25, 1974                     | 318.37      | Jan. 6, 1959                       | 402.90      | Jan. 6, 1969             | 257.60      |
| Oct. 25, 1974                      | 318.72      | Jan. 14, 1959                      | 404.59      | Jan. 5, 1960             | 260.46      |
| Nov. 25, 1974                      | 318.99      | Jan. 5, 1960                       | 404.16      | Jan. 4, 1961             | 263.55      |
| Dec. 25, 1974                      | 318.96      | Jan. 4, 1961                       | 405.67      | Jan. 9, 1962             | 265.93      |
| Jan. 25, 1975                      | 319.31      | Jan. 9, 1962                       | 407.39      | Jan. 3, 1963             | 269.24      |
| Feb. 25, 1975                      | 319.50      | Jan. 3, 1967                       | 432.09      | Jan. 3, 1964             | 269.45      |
| Mar. 25, 1975                      | 319.75      | Jan. 17, 1969                      | 423.18      | Feb. 4, 1965             | 271.23      |
| Apr. 25, 1975                      | 320.41      | Jan. 1972                          | 446.54      | Dec. 29, 1965            | 272.52      |
| May 25, 1975                       | 320.42      | Jan. 6, 1974                       | 453.13      | Jan. 10, 1967            | 273.91      |
| June 25, 1975                      | 321.54      | Jan. 26, 1976                      | 463.85      | Dec. 28, 1967            | 275.25      |
| July 25, 1975                      | 321.69      |                                    |             |                          |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-05-901—Continued</b> |             | <b>Well JL-49-05-903—Continued</b> |             | <b>Well JL-49-05-905—Continued</b> |             |
| Jan. 17, 1969                      | 277.25      | Jan. 1971                          | 248.78      | Aug. 25, 1958                      | 264.94      |
| Jan. 16, 1970                      | 278.95      | Jan. 1972                          | 255.61      | Sept. 25, 1958                     | 264.55      |
| Jan. 1971                          | 281.38      | Jan. 1973                          | 259.62      | Oct. 24, 1958                      | 263.82      |
| Jan. 1973                          | 289.88      | Jan. 15, 1974                      | 286.04      | Nov. 25, 1958                      | 263.55      |
| Jan. 8, 1975                       | 297.83      | Jan. 28, 1975                      | 263.94      | Dec. 24, 1958                      | 263.26      |
| Feb. 1, 1977                       | 296.04      | Jan. 21, 1976                      | 266.29      | Jan. 23, 1959                      | 263.00      |
|                                    |             | Feb. 8, 1977                       | 264.11      | Feb. 25, 1959                      | 263.27      |
| <b>Well JL-49-05-902</b>           |             | <b>Well JL-49-05-905</b>           |             | Mar. 25, 1959                      | 263.58      |
| Owner: City of El Paso             |             | Owner: City of El Paso             |             | Apr. 24, 1959                      | 265.10      |
| Nov. 14, 1955                      | 248.78      | July 1936                          | 244.45      | May 25, 1959                       | 265.47      |
| Aug. 6, 1956                       | 255.29      | Mar. 19, 1956                      | 259.62      | Aug. 25, 1959                      | 267.16      |
| Sept. 18, 1956                     | 256.38      | Apr. 23, 1956                      | 259.44      | Sept. 25, 1959                     | 268.80      |
| Dec. 11, 1958                      | 253.76      | May 23, 1956                       | 259.96      | Oct. 26, 1959                      | 267.80      |
| Jan. 6, 1959                       | 253.17      | June 21, 1956                      | 260.05      | Nov. 26, 1959                      | 266.13      |
| Jan. 5, 1960                       | 256.48      | July 20, 1956                      | 260.67      | Dec. 24, 1959                      | 265.60      |
| Jan. 4, 1961                       | 260.40      | Aug. 21, 1956                      | 260.49      | Jan. 25, 1960                      | 265.62      |
| Jan. 9, 1963                       | 264.94      | Sept. 21, 1956                     | 260.37      | Feb. 26, 1960                      | 266.80      |
| Dec. 31, 1963                      | 263.50      | Oct. 23, 1956                      | 260.55      | Mar. 25, 1960                      | 266.84      |
| Jan. 4, 1965                       | 267.59      | Nov. 23, 1956                      | 260.45      | Apr. 25, 1960                      | 269.25      |
| Dec. 27, 1965                      | 266.20      | Dec. 21, 1956                      | 259.77      | May 25, 1960                       | 269.60      |
| Jan. 25, 1967                      | 267.68      | Jan. 23, 1957                      | 259.69      | June 24, 1960                      | 270.59      |
| Jan. 17, 1969                      | 269.75      | Feb. 21, 1957                      | 259.90      | July 28, 1960                      | 270.95      |
| Dec. 28, 1969                      | 269.31      | Mar. 26, 1957                      | 260.60      | Aug. 25, 1960                      | 270.67      |
| Jan. 16, 1970                      | 271.50      | Apr. 23, 1957                      | 262.44      | Sept. 26, 1960                     | 271.19      |
| Jan. 1971                          | 276.25      | May 23, 1957                       | 263.64      | Oct. 25, 1960                      | 268.82      |
| Jan. 14, 1974                      | 290.03      | June 24, 1957                      | 265.04      | Nov. 25, 1960                      | 268.45      |
| Feb. 1, 1977                       | 290.13      | July 23, 1957                      | 264.94      | Dec. 23, 1960                      | 268.32      |
|                                    |             | Aug. 23, 1957                      | 263.93      | Jan. 25, 1961                      | 267.93      |
| <b>Well JL-49-05-903</b>           |             | Sept. 25, 1957                     | 264.56      | Feb. 24, 1961                      | 267.73      |
| Owner: City of El Paso             |             | Oct. 25, 1957                      | 262.52      | Mar. 24, 1961                      | 267.97      |
| July 1, 1963                       | 248.29      | Nov. 25, 1957                      | 262.18      | Apr. 26, 1961                      | 270.82      |
| Jan. 4, 1965                       | 242.02      | Dec. 24, 1957                      | 262.07      | May 25, 1961                       | 272.10      |
| Dec. 29, 1965                      | 242.42      | Jan. 24, 1958                      | 261.71      | June 23, 1961                      | 271.42      |
| Jan. 10, 1967                      | 243.49      | Feb. 25, 1958                      | 262.18      | July 25, 1961                      | 272.40      |
| Dec. 28, 1967                      | 244.93      | Mar. 25, 1958                      | 261.87      | Aug. 25, 1961                      | 273.00      |
| Jan. 17, 1969                      | 245.54      |                                    |             | Sept. 25, 1961                     | 272.52      |
| Jan. 20, 1970                      | 247.30      |                                    |             |                                    |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                        | WATER LEVEL | DATE                        | WATER LEVEL | DATE                        | WATER LEVEL |
|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Well JL-49-05-905—Continued |             | Well JL-49-05-905—Continued |             | Well JL-49-05-905—Continued |             |
| Oct. 25, 1961               | 272.38      | Oct. 23, 1964               | 277.77      | Oct. 25, 1967               | 281.23      |
| Nov. 24, 1961               | 270.64      | Nov. 25, 1964               | 278.75      | Nov. 22, 1967               | 280.85      |
| Dec. 26, 1961               | 270.12      | Dec. 24, 1964               | 278.07      | Dec. 22, 1967               | 279.95      |
| Jan. 25, 1962               | 270.44      | Jan. 25, 1965               | 277.37      | Jan. 25, 1968               | 280.08      |
| Feb. 23, 1962               | 270.22      | Feb. 25, 1965               | 276.14      | Feb. 20, 1968               | 279.65      |
| Apr. 2, 1962                | 272.59      | Mar. 25, 1965               | 275.94      | Mar. 22, 1968               | 280.03      |
| Apr. 24, 1962               | 271.00      | Apr. 26, 1965               | 276.55      | Apr. 22, 1968               | 280.97      |
| May 25, 1962                | 272.00      | May 25, 1965                | 276.77      | May 21, 1968                | 282.32      |
| June 25, 1962               | 273.05      | June 25, 1965               | 277.75      | June 20, 1968               | 282.96      |
| July 25, 1962               | 271.78      | July 25, 1965               | 279.12      | July 9, 1968                | 283.13      |
| Aug. 24, 1962               | 272.94      | Aug. 25, 1965               | 279.60      | Aug. 21, 1968               | 282.87      |
| Sept. 25, 1962              | 272.08      | Sept. 24, 1965              | 279.74      | Sept. 19, 1968              | 283.09      |
| Oct. 25, 1962               | 273.86      | Oct. 25, 1965               | 281.22      | Oct. 21, 1968               | 282.86      |
| Nov. 24, 1962               | 273.95      | Nov. 24, 1965               | 277.14      | Nov. 19, 1968               | 281.98      |
| Dec. 26, 1962               | 272.18      | Dec. 23, 1965               | 276.73      | Dec. 20, 1968               | 281.34      |
| Jan. 25, 1963               | 273.54      | Jan. 25, 1966               | 276.57      | Jan. 20, 1969               | 281.09      |
| Feb. 25, 1963               | 272.17      | Feb. 25, 1966               | 277.09      | Feb. 24, 1969               | 281.25      |
| Mar. 25, 1963               | 273.64      | Mar. 25, 1966               | 278.30      | Mar. 20, 1969               | 281.39      |
| Apr. 25, 1963               | 275.27      | Apr. 25, 1966               | 279.55      | Apr. 23, 1969               | 283.95      |
| May 24, 1963                | 274.81      | May 25, 1966                | 280.21      | May 20, 1969                | 283.55      |
| June 25, 1963               | 276.74      | June 28, 1966               | 279.55      | June 20, 1969               | 286.42      |
| July 25, 1963               | 277.00      | July 25, 1966               | 280.83      | July 24, 1969               | 285.22      |
| Aug. 26, 1963               | 276.88      | Aug. 25, 1966               | 279.82      | Aug. 20, 1969               | 286.34      |
| Sept. 24, 1963              | 276.87      | Sept. 23, 1966              | 279.97      | Sept. 22, 1969              | 285.60      |
| Oct. 25, 1963               | 275.34      | Oct. 25, 1966               | 279.47      | Oct. 22, 1969               | 284.62      |
| Nov. 26, 1963               | 274.17      | Nov. 25, 1966               | 278.72      | Nov. 20, 1969               | 283.62      |
| Dec. 24, 1963               | 273.95      | Dec. 23, 1966               | 278.37      | Dec. 19, 1969               | 283.29      |
| Jan. 25, 1964               | 273.39      | Jan. 25, 1967               | 278.16      | Jan. 20, 1970               | 282.66      |
| Feb. 25, 1964               | 273.38      | Feb. 24, 1967               | 278.76      | Feb. 20, 1970               | 282.79      |
| Mar. 25, 1964               | 273.63      | Mar. 24, 1967               | 279.70      | Mar. 23, 1970               | 282.95      |
| Apr. 24, 1964               | 274.77      | Apr. 25, 1967               | 280.06      | Apr. 20, 1970               | 284.15      |
| May 25, 1964                | 277.29      | May 25, 1967                | 280.78      | May 20, 1970                | 285.35      |
| June 25, 1964               | 277.30      | June 26, 1967               | 281.18      | June 20, 1970               | 286.35      |
| July 27, 1964               | 277.94      | July 25, 1967               | 282.22      | July 21, 1970               | 286.59      |
| Aug. 28, 1964               | 277.29      | Aug. 25, 1967               | 282.43      | Aug. 21, 1970               | 287.00      |
| Sept. 25, 1964              | 278.43      | Sept. 25, 1967              | 281.57      | Sept. 21, 1970              | 286.25      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                     | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|--------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-05-905—Continued</b> |             | <b>Well JL-49-05-906</b> |             | <b>Well JL-49-06-102—Continued</b> |             |
| Oct. 21, 1970                      | 285.19      | Owner: City of El Paso   |             | Jan. 2, 1968                       | 338.98      |
| Nov. 20, 1970                      | 284.65      | Mar. 16, 1966            | 252.34      | July 12, 1968                      | 339.50      |
| Dec. 18, 1970                      | 284.73      | Dec. 28, 1967            | 250.56      | Mar. 20, 1969                      | 339.91      |
| Mar. 19, 1971                      | 286.45      | Jan. 17, 1969            | 252.66      | Aug. 21, 1969                      | 340.27      |
| Apr. 20, 1971                      | 286.26      | Jan. 20, 1970            | 254.27      | Jan. 28, 1970                      | 340.20      |
| May 21, 1971                       | 287.45      | Jan. 1971                | 255.46      | Aug. 21, 1970                      | 340.80      |
| June 21, 1971                      | 288.20      | Jan. 1972                | 259.40      | Feb. 5, 1971                       | 341.33      |
| July 20, 1971                      | 288.93      | Jan. 1973                | 261.55      | Feb. 20, 1972                      | 341.50      |
| Aug. 20, 1971                      | 287.66      | Jan. 15, 1974            | 265.23      | Feb. 23, 1973                      | 342.31      |
| Sept. 23, 1971                     | 288.29      | Jan. 6, 1975             | 266.80      | Jan. 1974                          | 343.07      |
| Oct. 21, 1971                      | 288.36      | Jan. 21, 1976            | 269.08      | Jan. 6, 1975                       | 343.64      |
| Nov. 19, 1971                      | 288.97      | Feb. 8, 1977             | 268.46      | Jan. 20, 1976                      | 344.22      |
| Dec. 17, 1971                      | 289.00      | <b>Well JL-49-06-102</b> |             | Jan. 3, 1977                       | 344.10      |
| Jan. 21, 1972                      | 289.90      | Owner: Price's Dairy     |             | <b>Well JL-49-06-401</b>           |             |
| Feb. 22, 1972                      | 289.85      | May 17, 1953             | 334.00      | Owner: City of El Paso             |             |
| Jan. 30, 1973                      | 290.67      | Jan. 7, 1954             | 331.13      | May 11, 1965                       | 311.11      |
| Jan. 1974                          | 296.32      | Jan. 24, 1955            | 331.24      | Dec. 29, 1965                      | 308.36      |
| Jan. 20, 1975                      | 297.42      | Jan. 21, 1956            | 331.07      | Jan. 10, 1967                      | 310.76      |
| Jan. 20, 1976                      | 301.54      | Jan. 8, 1957             | 331.70      | Jan. 16, 1968                      | 309.30      |
| Feb. 20, 1976                      | 301.39      | Jan. 17, 1958            | 332.56      | Jan. 22, 1969                      | 310.28      |
| Mar. 19, 1976                      | 301.91      | Jan. 6, 1959             | 332.94      | Jan. 20, 1970                      | 311.14      |
| Apr. 20, 1976                      | 300.94      | Jan. 5, 1960             | 333.60      | Jan. 1971                          | 312.45      |
| May 20, 1976                       | 301.11      | Jan. 3, 1961             | 334.28      | Jan. 1972                          | 313.36      |
| June 21, 1976                      | 302.39      | Jan. 8, 1962             | 334.79      | Feb. 1, 1973                       | 310.96      |
| July 20, 1976                      | 301.68      | July 3, 1962             | 335.18      | Jan. 15, 1974                      | 316.75      |
| Aug. 20, 1976                      | 302.43      | Jan. 2, 1963             | 336.21      | Jan. 6, 1975                       | 317.40      |
| Sept. 20, 1976                     | 301.98      | July 2, 1963             | 336.76      | Jan. 21, 1976                      | 318.22      |
| Oct. 21, 1976                      | 301.19      | Jan. 3, 1964             | 336.58      | Feb. 8, 1977                       | 319.20      |
| Nov. 21, 1976                      | 301.02      | July 7, 1964             | 336.72      | <b>Well JL-49-06-402</b>           |             |
| Dec. 20, 1976                      | 300.44      | Dec. 29, 1964            | 337.53      | Owner: City of El Paso             |             |
| Jan. 19, 1977                      | 301.93      | July 20, 1965            | 337.43      | Oct. 30, 1963                      | 326.49      |
| Feb. 18, 1977                      | 299.46      | Dec. 29, 1965            | 337.81      | Jan. 4, 1965                       | 329.89      |
| Apr. 27, 1977                      | 301.35      | July 18, 1966            | 338.42      | Dec. 29, 1965                      | 333.36      |
| May 22, 1977                       | 301.62      | Jan. 12, 1967            | 338.40      | Jan. 10, 1967                      | 332.97      |
| June 20, 1977                      | 302.96      | July 5, 1967             | 339.03      | Jan. 16, 1968                      | 332.55      |
| July 20, 1977                      | 303.14      |                          |             |                                    |             |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-06-402—Continued</b> |             | <b>Well JL-49-06-501—Continued</b> |             | <b>Well JL-49-06-601—Continued</b> |             |
| Jan. 17, 1969                      | 333.64      | Jan. 16, 1967                      | 273.94      | Jan. 3, 1964                       | 310.44      |
| Jan. 1971                          | 335.94      | July 5, 1967                       | 274.77      | July 7, 1964                       | 310.81      |
| Jan. 1972                          | 337.43      | Jan. 3, 1968                       | 274.58      | Dec. 29, 1964                      | 310.75      |
| Feb. 1, 1973                       | 339.90      | July 12, 1968                      | 275.23      | July 20, 1965                      | 311.47      |
| Jan. 14, 1974                      | 342.39      | Mar. 21, 1969                      | 275.42      | Dec. 30, 1965                      | 311.84      |
| Jan. 20, 1975                      | 342.33      | Aug. 21, 1969                      | 276.08      | July 18, 1966                      | 311.63      |
| Jan. 19, 1976                      | 342.63      | Jan. 28, 1970                      | 275.75      | Jan. 16, 1967                      | 311.66      |
| Feb. 8, 1977                       | 343.59      | July 15, 1970                      | 276.67      | July 5, 1967                       | 312.58      |
|                                    |             | Feb. 8, 1971                       | 276.30      | Jan. 3, 1968                       | 313.19      |
|                                    |             | Jan. 20, 1972                      | 277.13      | July 12, 1968                      | 313.68      |
|                                    |             | Jan. 22, 1973                      | 277.41      | Mar. 21, 1969                      | 314.75      |
|                                    |             | Jan. 1974                          | 278.16      | Aug. 21, 1969                      | 315.08      |
|                                    |             | Jan. 14, 1975                      | 278.30      | Jan. 28, 1970                      | 315.79      |
|                                    |             | May 1, 1975                        | 280.30      | July 15, 1970                      | 318.58      |
|                                    |             | Jan. 20, 1976                      | 278.50      | Feb. 17, 1971                      | 319.47      |
|                                    |             | Jan. 4, 1977                       | 278.34      |                                    |             |
|                                    |             |                                    |             | <b>Well JL-49-06-702</b>           |             |
|                                    |             |                                    |             | Owner: U.S. Army                   |             |
|                                    |             | <b>Well JL-49-06-601</b>           |             | Feb. 4, 1952                       | 273.38      |
|                                    |             | Owner: U.S. Army                   |             | Jan. 25, 1955                      | 273.29      |
|                                    |             | (U.S. Geological Survey)           |             | Apr. 19, 1955                      | 275.19      |
| Dec. 13, 1953                      | 266.88      | June 1, 1953                       | 319.40      | June 15, 1955                      | 275.51      |
| Jan. 6, 1954                       | 266.81      | Jan. 6, 1954                       | 308.88      | Sept. 21, 1955                     | 275.43      |
| Jan. 24, 1955                      | 267.01      | Apr. 9, 1954                       | 308.45      | Jan. 20, 1956                      | 275.49      |
| Jan. 23, 1956                      | 267.10      | Jan. 25, 1955                      | 308.47      | June 18, 1956                      | 276.12      |
| June 21, 1956                      | 267.40      | Jan. 21, 1956                      | 308.24      | Sept. 20, 1956                     | 276.41      |
| Jan. 7, 1957                       | 267.67      | Jan. 7, 1957                       | 308.60      | Jan. 15, 1957                      | 276.43      |
| June 25, 1957                      | 268.15      | Jan. 20, 1958                      | 308.68      | June 25, 1957                      | 277.14      |
| Jan. 17, 1958                      | 268.23      | Jan. 7, 1959                       | 308.99      | Jan. 22, 1958                      | 277.11      |
| June 24, 1958                      | 268.35      | June 16, 1959                      | 309.15      | June 24, 1958                      | 277.73      |
| Jan. 7, 1959                       | 268.57      | Jan. 6, 1960                       | 309.33      | Jan. 7, 1959                       | 278.23      |
| June 15, 1959                      | 269.04      | July 20, 1960                      | 309.54      | June 15, 1959                      | 278.88      |
| Jan. 6, 1960                       | 269.23      | Jan. 3, 1961                       | 309.59      | Jan. 6, 1960                       | 279.44      |
| July 20, 1960                      | 269.85      | July 3, 1961                       | 309.78      | July 20, 1960                      | 280.15      |
| Jan. 3, 1961                       | 269.84      | Jan. 8, 1962                       | 309.74      | Jan. 3, 1961                       | 280.60      |
| July 3, 1961                       | 270.43      | July 5, 1962                       | 310.04      | July 3, 1961                       | 281.43      |
| Jan. 8, 1962                       | 270.60      | Jan. 2, 1963                       | 310.19      |                                    |             |
| July 5, 1962                       | 271.00      | July 2, 1963                       | 310.49      |                                    |             |
| Jan. 2, 1963                       | 271.32      |                                    |             |                                    |             |
| July 2, 1963                       | 271.88      |                                    |             |                                    |             |
| Jan. 3, 1964                       | 271.78      |                                    |             |                                    |             |
| July 7, 1964                       | 272.59      |                                    |             |                                    |             |
| Dec. 29, 1964                      | 272.41      |                                    |             |                                    |             |
| July 20, 1965                      | 273.42      |                                    |             |                                    |             |
| Dec. 30, 1965                      | 273.35      |                                    |             |                                    |             |
| July 18, 1966                      | 274.08      |                                    |             |                                    |             |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                     | WATER LEVEL                        | DATE                     | WATER LEVEL              |                                    |  |  |
|------------------------------------|-------------|--------------------------|------------------------------------|--------------------------|--------------------------|------------------------------------|--|--|
| <b>Well JL-49-06-702—Continued</b> |             |                          | <b>Well JL-49-06-703—Continued</b> |                          |                          | <b>Well JL-49-12-102—Continued</b> |  |  |
| Jan. 8, 1962                       | 276.27      | Jan. 22, 1958            | 277.03                             | Jan. 10, 1958            | 8.0                      |                                    |  |  |
| July 5, 1962                       | 282.32      | June 24, 1958            | 278.13                             | Jan. 13, 1959            | 6.3                      |                                    |  |  |
| Jan. 2, 1963                       | 282.91      | Jan. 7, 1959             | 277.86                             | Mar. 24, 1975            | 6.6                      |                                    |  |  |
| July 2, 1963                       | 284.03      | June 15, 1959            | 280.25                             | <b>Well JL-49-12-103</b> |                          |                                    |  |  |
| Jan. 3, 1964                       | 283.90      | Jan. 6, 1960             | 279.33                             | Owner: Indar Singh       |                          |                                    |  |  |
| July 7, 1964                       | 285.29      | Jan. 3, 1961             | 280.64                             | Jan. 16, 1953            | 7.29                     |                                    |  |  |
| Dec. 29, 1964                      | 285.43      | Jan. 8, 1962             | 281.18                             | Nov. 11, 1954            | 7.15                     |                                    |  |  |
| July 20, 1965                      | 286.63      | July 5, 1962             | 283.85                             | Jan. 21, 1955            | 7.11                     |                                    |  |  |
| Dec. 30, 1965                      | 286.85      | Jan. 2, 1963             | 283.10                             | Jan. 18, 1956            | 6.33                     |                                    |  |  |
| July 18, 1966                      | 287.89      | July 2, 1963             | 286.12                             | Jan. 14, 1957            | 7.17                     |                                    |  |  |
| Jan. 16, 1967                      | 287.87      | Jan. 3, 1964             | 284.60                             | Jan. 10, 1958            | 6.79                     |                                    |  |  |
| July 5, 1967                       | 288.85      | July 7, 1964             | 287.27                             | Jan. 14, 1959            | 5.77                     |                                    |  |  |
| Jan. 3, 1968                       | 289.11      | Dec. 29, 1964            | 285.69                             | Jan. 15, 1960            | 6.33                     |                                    |  |  |
| July 12, 1968                      | 289.92      | July 20, 1965            | 288.85                             | Dec. 28, 1962            | 7.31                     |                                    |  |  |
| Mar. 21, 1969                      | 290.33      | Dec. 30, 1965            | 287.14                             | Dec. 29, 1967            | 7.40                     |                                    |  |  |
| Aug. 21, 1969                      | 289.72      | July 18, 1966            | 289.30                             | Jan. 23, 1969            | 7.25                     |                                    |  |  |
| Jan. 28, 1970                      | 288.38      | Jan. 16, 1967            | 287.86                             | Jan. 26, 1970            | 7.01                     |                                    |  |  |
| Sept. 1, 1970                      | 291.85      | July 5, 1967             | 288.73                             | Feb. 3, 1971             | 6.98                     |                                    |  |  |
| Feb. 17, 1971                      | 292.09      | Jan. 3, 1968             | 289.02                             | Jan. 7, 1972             | 6.89                     |                                    |  |  |
| Jan. 20, 1972                      | 293.43      | July 12, 1968            | 288.66                             | Jan. 26, 1973            | 6.72                     |                                    |  |  |
| Jan. 20, 1973                      | 294.65      | Mar. 21, 1969            | 290.14                             | Jan. 1974                | 5.75                     |                                    |  |  |
| Jan. 1974                          | 295.99      | Jan. 28, 1970            | 290.92                             | Jan. 22, 1975            | 5.32                     |                                    |  |  |
| May 1, 1975                        | 284.45      | Sept. 1, 1970            | 293.75                             | Mar. 27, 1975            | 5.0                      |                                    |  |  |
| Jan. 20, 1976                      | 298.60      | Feb. 17, 1971            | 292.24                             | Jan. 16, 1976            | 5.45                     |                                    |  |  |
| Feb. 4, 1977                       | 299.24      | Jan. 20, 1973            | 293.50                             | Dec. 28, 1976            | 5.33                     |                                    |  |  |
| <b>Well JL-49-06-703</b>           |             |                          | Jan. 24, 1973                      | 294.86                   | <b>Well JL-49-12-104</b> |                                    |  |  |
| Owner: U.S. Army                   |             |                          | Jan. 1974                          | 295.84                   | Owner: City of El Paso   |                                    |  |  |
| Feb. 29, 1952                      | 273.43      | May 1, 1975              | 284.40                             | May 16, 1968             | 10.09                    |                                    |  |  |
| Jan. 25, 1955                      | 274.94      | <b>Well JL-49-12-102</b> |                                    |                          | July 18, 1968            | 8.78                               |  |  |
| Apr. 19, 1955                      | 275.02      | Owner: Erich Brandes     |                                    |                          | Oct. 28, 1968            | 9.25                               |  |  |
| June 15, 1955                      | 275.58      | Jan. 10, 1952            | 6.9                                | Jan. 22, 1969            | 8.61                     |                                    |  |  |
| Sept. 21, 1955                     | 275.50      | Jan. 16, 1953            | 7.4                                | Mar. 20, 1969            | 8.75                     |                                    |  |  |
| Jan. 20, 1956                      | 275.62      | Nov. 11, 1954            | 9.9                                | June 18, 1969            | 8.18                     |                                    |  |  |
| June 18, 1956                      | 276.24      | Jan. 21, 1955            | 8.2                                | Sept. 26, 1969           | 7.31                     |                                    |  |  |
| Sept. 20, 1956                     | 276.62      | Jan. 18, 1956            | 8.7                                | Jan. 21, 1970            | 8.30                     |                                    |  |  |
| Jan. 15, 1957                      | 276.29      | Jan. 14, 1957            | 9.2                                |                          |                          |                                    |  |  |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-12-104—Continued</b> |             | <b>Well JL-49-12-105—Continued</b> |             | <b>Well JL-49-12-107—Continued</b> |             |
| Mar. 27, 1970                      | 8.00        | Oct. 28, 1971                      | 6.07        | Jan. 6, 1972                       | 5.58        |
| June 23, 1970                      | 7.67        | Jan. 1972                          | 6.32        | Jan. 26, 1973                      | 6.43        |
| Sept. 23, 1970                     | 7.54        | Mar. 24, 1972                      | 6.34        | Jan. 1974                          | 5.40        |
| Jan. 1971                          | 8.37        | June 30, 1972                      | 6.54        | Jan. 22, 1975                      | 5.16        |
| June 21, 1971                      | 8.14        | Sept. 26, 1972                     | 5.70        | Mar. 19, 1975                      | 4.95        |
| Oct. 27, 1971                      | 8.69        | Mar. 22, 1973                      | 7.01        | Jan. 16, 1976                      | 5.27        |
| Jan. 1972                          | 9.04        | Jan. 22, 1974                      | 5.93        | Dec. 28, 1976                      | 5.25        |
| Mar. 24, 1972                      | 9.85        | Apr. 11, 1974                      | 5.34        |                                    |             |
| June 29, 1972                      | 8.84        | June 5, 1974                       | 5.70        | <b>Well JL-49-12-108</b>           |             |
| Sept. 26, 1972                     | 8.84        | Oct. 2, 1974                       | 4.89        | Owner: Willard Deerman             |             |
| Mar. 22, 1973                      | 7.66        | Jan. 27, 1975                      | 5.48        | Apr. 28, 1951                      | 7.6         |
| Jan. 22, 1974                      | 8.44        | Mar. 27, 1975                      | 5.80        | Feb. 19, 1953                      | 7.6         |
| Apr. 11, 1974                      | 7.82        | Mar. 17, 1976                      | 5.40        | Jan. 8, 1954                       | 8.5         |
| June 5, 1974                       | 8.16        | June 25, 1976                      | 5.52        | Nov. 11, 1954                      | 9.6         |
| Oct. 2, 1974                       | 7.77        |                                    |             | Jan. 21, 1955                      | 9.3         |
| Jan. 27, 1975                      | 8.53        | <b>Well JL-49-12-107</b>           |             | Jan. 18, 1956                      | 8.4         |
| Mar. 26, 1975                      | 7.89        | Owner: Thomas & Martin             |             | Jan. 14, 1957                      | 8.4         |
| Sept. 29, 1975                     | 7.34        | Apr. 28, 1951                      | 5.48        | Jan. 10, 1958                      | 7.7         |
| Jan. 22, 1976                      | 8.40        | Jan. 16, 1953                      | 6.05        | June 12, 1958                      | 7.7         |
| Mar. 17, 1976                      | 7.67        | Nov. 11, 1954                      | 7.30        | Jan. 13, 1959                      | 6.1         |
| June 25, 1976                      | 7.54        | Jan. 21, 1955                      | 7.44        | Jan. 21, 1973                      | 6.3         |
|                                    |             | Jan. 18, 1956                      | 8.85        | Mar. 24, 1975                      | 6.8         |
|                                    |             | Jan. 11, 1957                      | 9.23        |                                    |             |
| <b>Well JL-49-12-105</b>           |             | Jan. 10, 1958                      | 8.00        | <b>Well JL-49-12-109</b>           |             |
| Owner: City of El Paso             |             | Jan. 13, 1959                      | 5.75        | Owner: M. M. Friedman              |             |
| May 20, 1968                       | 6.84        | Jan. 15, 1960                      | 5.43        | Jan. 16, 1953                      | 7.5         |
| July 18, 1968                      | 6.54        | Jan. 9, 1961                       | 5.65        | Nov. 11, 1954                      | 7.2         |
| Oct. 29, 1968                      | 6.90        | Jan. 30, 1962                      | 5.65        | Jan. 21, 1955                      | 6.8         |
| Jan. 22, 1969                      | 6.77        | Dec. 27, 1962                      | 5.65        | Jan. 18, 1956                      | 8.1         |
| Mar. 20, 1969                      | 6.85        | Dec. 16, 1963                      | 5.34        | Jan. 14, 1957                      | 7.2         |
| June 18, 1969                      | 6.88        | Dec. 8, 1964                       | 8.55        | Jan. 10, 1958                      | 6.4         |
| Sept. 26, 1969                     | 6.40        | Jan. 14, 1966                      | 5.96        | Jan. 13, 1959                      | 5.3         |
| Jan. 22, 1970                      | 6.51        | Dec. 13, 1966                      | 5.43        |                                    |             |
| Mar. 27, 1970                      | 6.27        | Dec. 28, 1967                      | 5.55        | <b>Well JL-49-12-113</b>           |             |
| June 23, 1970                      | 6.54        | Jan. 28, 1969                      | 5.63        | Owner: L. T. Cox                   |             |
| Sept. 23, 1970                     | 6.45        | Jan. 26, 1970                      | 5.53        | Mar. 14, 1952                      | 8.3         |
| Jan. 23, 1971                      | 6.55        | Feb. 2, 1971                       | 5.50        | Jan. 15, 1953                      | 7.7         |
| June 21, 1971                      | 6.54        |                                    |             | Nov. 12, 1954                      | 8.2         |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                     | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-12-113—Continued</b> |             | <b>Well JL-49-12-201—Continued</b> |             | <b>Well JL-49-12-601</b> |             |
| Jan. 21, 1955                      | 8.0         | June 21, 1971                      | 10.03       | Owner: City of El Paso   |             |
| Jan. 18, 1956                      | 9.1         | Oct. 27, 1971                      | 10.35       | May 6, 1968              | 2.11        |
| Jan. 15, 1957                      | 9.2         | Jan. 1972                          | 10.51       | July 16, 1968            | 2.69        |
| Jan. 10, 1958                      | 8.3         | Mar. 24, 1972                      | 10.41       | Oct. 28, 1968            | 3.03        |
| Jan. 13, 1959                      | 6.9         | June 29, 1972                      | 10.42       | Jan. 14, 1969            | 2.88        |
| <b>Well JL-49-12-116</b>           |             | Sept. 26, 1972                     | 10.14       | Mar. 20, 1969            | 0.96        |
| Owner: J. H. Padgett               |             | Mar. 22, 1973                      | 10.23       | June 18, 1969            | 0.94        |
| Mar. 14, 1952                      | 9.5         | Jan. 22, 1974                      | 9.92        | Sept. 26, 1969           | 2.24        |
| Jan. 16, 1953                      | 8.7         | Apr. 11, 1974                      | 9.15        | Jan. 21, 1970            | 2.98        |
| Jan. 8, 1954                       | 8.5         | June 5, 1974                       | 8.92        | Mar. 27, 1970            | 1.45        |
| Nov. 12, 1954                      | 8.8         | Oct. 2, 1974                       | 8.18        | June 23, 1970            | 0.69        |
| Jan. 18, 1956                      | 8.1         | Jan. 27, 1975                      | 8.81        | Sept. 23, 1970           | 2.18        |
| <b>Well JL-49-12-118</b>           |             | Sept. 29, 1975                     | 8.01        | Jan. 1971                | 3.07        |
| Owner: El Paso Country Club        |             | Jan. 22, 1976                      | 9.13        | June 21, 1971            | 1.29        |
| Jan. 15, 1953                      | 10.4        | Mar. 17, 1976                      | 9.06        | Oct. 27, 1971            | 2.03        |
| Nov. 12, 1954                      | 11.4        | June 25, 1976                      | 8.09        | Jan. 1972                | 3.21        |
| Jan. 21, 1955                      | 11.1        | <b>Well JL-49-12-510</b>           |             | Mar. 24, 1972            | 1.35        |
| Jan. 18, 1956                      | 11.5        | Owner: L. D. McComas               |             | June 29, 1972            | 2.37        |
| Jan. 14, 1957                      | 10.9        | June 10, 1952                      | 7.75        | Sept. 26, 1972           | 3.41        |
| Jan. 10, 1958                      | 10.5        | Jan. 14, 1957                      | 10.06       | Mar. 22, 1973            | 1.15        |
| Jan. 22, 1959                      | 9.4         | Jan. 10, 1958                      | 8.42        | <b>Well JL-49-13-203</b> |             |
| <b>Well JL-49-12-201</b>           |             | Jan. 13, 1959                      | 7.50        | Owner: City of El Paso   |             |
| Owner: City of El Paso             |             | Jan. 15, 1960                      | 7.28        | June 25, 1941            | 50.07       |
| May 6, 1958                        | 10.28       | Jan. 9, 1961                       | 7.36        | Jan. 28, 1955            | 213.54      |
| July 18, 1968                      | 10.04       | Jan. 30, 1962                      | 7.68        | Jan. 30, 1956            | 218.68      |
| Oct. 28, 1968                      | 10.45       | Dec. 27, 1962                      | 7.49        | Jan. 23, 1957            | 220.84      |
| Jan. 22, 1969                      | 11.76       | Dec. 16, 1963                      | 7.53        | Jan. 16, 1958            | 221.74      |
| Mar. 20, 1969                      | 10.59       | Dec. 8, 1964                       | 8.87        | Jan. 7, 1959             | 222.12      |
| June 18, 1969                      | 10.39       | Jan. 14, 1966                      | 7.34        | May 29, 1959             | 250.66      |
| Sept. 26, 1969                     | 9.74        | Dec. 13, 1966                      | 6.75        | Jan. 4, 1960             | 223.08      |
| Jan. 21, 1970                      | 10.45       | Dec. 28, 1967                      | 6.48        | July 21, 1960            | 249.35      |
| Mar. 27, 1970                      | 10.20       | Jan. 28, 1969                      | 5.79        | Jan. 5, 1961             | 248.11      |
| June 23, 1970                      | 9.73        | Jan. 26, 1970                      | 6.09        | July 5, 1961             | 231.89      |
| Sept. 23, 1970                     | 9.05        | Feb. 3, 1971                       | 5.90        | Jan. 9, 1962             | 226.03      |
| Jan. 1971                          | 10.02       | Jan. 7, 1972                       | 6.22        | Dec. 31, 1962            | 226.88      |
|                                    |             | Jan. 29, 1973                      | 6.68        | Dec. 31, 1963            | 228.51      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-203—Continued</b> |             | <b>Well JL-49-13-206—Continued</b> |             | <b>Well JL-49-13-206—Continued</b> |             |
| Jan. 4, 1965                       | 229.08      | Feb. 23, 1940                      | 192.83      | June 18, 1943                      | 197.94      |
| Dec. 27, 1965                      | 231.57      | Mar. 19, 1940                      | 192.88      | July 21, 1943                      | 197.99      |
| Jan. 11, 1967                      | 236.26      | Apr. 17, 1940                      | 192.85      | Aug. 23, 1943                      | 198.10      |
| <b>Well JL-49-13-204</b>           |             | May 28, 1940                       | 193.01      | Sept. 28, 1943                     | 198.31      |
| Owner: City of El Paso             |             | June 27, 1940                      | 193.04      | Oct. 22, 1943                      | 198.28      |
| Jan. 7, 1954                       | 211.00      | July 20, 1940                      | 193.21      | Nov. 24, 1943                      | 198.64      |
| Jan. 28, 1955                      | 212.88      | Aug. 19, 1940                      | 193.35      | Feb. 15, 1944                      | 198.70      |
| June 10, 1955                      | 271.01      | Sept. 20, 1940                     | 193.18      | Mar. 28, 1944                      | 199.09      |
| Jan. 17, 1957                      | 217.67      | Oct. 19, 1940                      | 193.42      | Apr. 25, 1944                      | 199.12      |
| Jan. 22, 1958                      | 221.58      | Nov. 22, 1940                      | 193.08      | May 25, 1944                       | 199.23      |
| Jan. 7, 1959                       | 219.51      | Dec. 16, 1940                      | 193.32      | June 23, 1944                      | 199.63      |
| May 28, 1959                       | 271.52      | Jan. 10, 1941                      | 193.55      | July 27, 1944                      | 199.63      |
| Feb. 1, 1960                       | 232.31      | Feb. 13, 1941                      | 193.31      | Aug. 23, 1944                      | 199.74      |
| Feb. 2, 1960                       | 226.40      | Mar. 18, 1941                      | 193.50      | Sept. 27, 1944                     | 199.78      |
| Jan. 5, 1961                       | 223.64      | Apr. 24, 1941                      | 193.62      | Oct. 25, 1944                      | 199.97      |
| Jan. 9, 1962                       | 227.70      | June 18, 1941                      | 193.54      | Nov. 20, 1944                      | 199.92      |
| Jan. 3, 1963                       | 225.73      | July 15, 1941                      | 193.82      | Dec. 21, 1944                      | 200.07      |
| Dec. 27, 1965                      | 232.22      | Aug. 20, 1941                      | 193.85      | Jan. 24, 1945                      | 200.09      |
| Jan. 11, 1967                      | 235.02      | Sept. 25, 1941                     | 193.82      | Feb. 22, 1945                      | 200.21      |
| Dec. 28, 1967                      | 232.92      | Oct. 15, 1941                      | 193.99      | Mar. 27, 1945                      | 200.18      |
| Jan. 14, 1969                      | 235.80      | Nov. 19, 1941                      | 193.76      | Apr. 24, 1945                      | 200.25      |
| Jan. 16, 1970                      | 235.82      | Jan. 23, 1942                      | 193.94      | May 25, 1945                       | 200.40      |
| Jan. 1971                          | 308.72      | Mar. 11, 1942                      | 194.93      | June 22, 1945                      | 200.54      |
| Jan. 1972                          | 236.28      | Apr. 16, 1942                      | 195.40      | July 26, 1945                      | 200.68      |
| Jan. 1973                          | 238.34      | May 20, 1942                       | 195.90      | Aug. 28, 1945                      | 200.79      |
| Jan. 20, 1975                      | 241.22      | June 23, 1942                      | 195.98      | Sept. 26, 1945                     | 200.90      |
| Jan. 19, 1976                      | 242.77      | July 27, 1942                      | 196.36      | Oct. 22, 1945                      | 200.99      |
| <b>Well JL-49-13-206</b>           |             | Aug. 26, 1942                      | 196.19      | Nov. 27, 1945                      | 201.10      |
| Owner: City of El Paso             |             | Sept. 23, 1942                     | 196.43      | Jan. 25, 1946                      | 201.24      |
| June 20, 1939                      | 192.63      | Oct. 26, 1942                      | 195.67      | Feb. 27, 1946                      | 201.25      |
| July 21, 1939                      | 192.85      | Nov. 23, 1942                      | 197.83      | May 29, 1946                       | 201.58      |
| Aug. 17, 1939                      | 192.73      | Dec. 22, 1942                      | 196.32      | June 26, 1946                      | 201.64      |
| Nov. 21, 1939                      | 192.89      | Jan. 20, 1943                      | 196.13      | July 30, 1946                      | 201.79      |
| Dec. 30, 1939                      | 192.90      | Mar. 22, 1943                      | 197.18      | Aug. 29, 1946                      | 201.99      |
| Feb. 5, 1940                       | 192.61      | Apr. 26, 1943                      | 197.40      | Sept. 25, 1946                     | 201.97      |
|                                    |             | May 20, 1943                       | 198.61      | Oct. 27, 1946                      | 202.04      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-206—Continued</b> |             | <b>Well JL-49-13-206—Continued</b> |             | <b>Well JL-49-13-206—Continued</b> |             |
| Nov. 25, 1946                      | 199.11      | Aug. 22, 1951                      | 207.99      | July 1, 1964                       | 228.70      |
| Dec. 17, 1946                      | 203.22      | Oct. 22, 1951                      | 207.72      | Jan. 4, 1965                       | 228.56      |
| Jan. 13, 1947                      | 202.04      | Jan. 22, 1952                      | 208.05      | July 5, 1965                       | 231.52      |
| Feb. 25, 1947                      | 202.36      | Mar. 24, 1952                      | 206.48      | Dec. 27, 1965                      | 230.12      |
| Mar. 24, 1947                      | 202.51      | June 3, 1952                       | 207.96      | July 6, 1966                       | 229.78      |
| Apr. 29, 1947                      | 202.48      | Aug. 26, 1952                      | 209.43      | Jan. 11, 1967                      | 231.02      |
| June 23, 1947                      | 202.70      | Sept. 22, 1952                     | 208.84      | July 5, 1967                       | 231.03      |
| July 28, 1947                      | 202.88      | Oct. 6, 1952                       | 209.24      | Jan. 2, 1968                       | 231.27      |
| Aug. 26, 1947                      | 202.92      | Nov. 21, 1952                      | 208.87      | July 12, 1968                      | 233.16      |
| Sept. 29, 1947                     | 203.07      | Jan. 8, 1953                       | 209.21      | Jan. 14, 1969                      | 233.68      |
| Dec. 15, 1947                      | 202.47      | June 10, 1953                      | 210.12      | June 18, 1969                      | 237.65      |
| Jan. 13, 1948                      | 202.83      | Jan. 7, 1954                       | 209.74      | Jan. 16, 1970                      | 236.46      |
| Mar. 24, 1948                      | 202.34      | June 28, 1954                      | 210.79      | June 23, 1970                      | 235.65      |
| June 14, 1948                      | 203.18      | Jan. 28, 1955                      | 211.50      | Jan. 1971                          | 235.29      |
| Aug. 31, 1948                      | 203.55      | Apr. 15, 1956                      | 211.50      | June 22, 1971                      | 237.63      |
| Sept. 27, 1948                     | 203.55      | June 15, 1956                      | 212.26      | Jan. 1972                          | 235.98      |
| Oct. 26, 1948                      | 203.65      | Sept. 22, 1956                     | 211.54      | Jan. 1973                          | 231.90      |
| Dec. 28, 1948                      | 203.10      | Jan. 30, 1956                      | 213.16      | Jan. 11, 1974                      | 240.39      |
| June 30, 1949                      | 204.03      | Apr. 30, 1956                      | 213.30      | June 4, 1974                       | 245.14      |
| Aug. 23, 1949                      | 204.14      | June 21, 1956                      | 213.80      | Jan. 20, 1975                      | 248.15      |
| Sept. 2, 1949                      | 204.14      | Sept. 18, 1956                     | 214.86      | June 26, 1975                      | 244.15      |
| Sept. 20, 1949                     | 204.23      | Jan. 23, 1957                      | 215.49      | Jan. 19, 1976                      | 236.50      |
| Oct. 21, 1949                      | 204.34      | June 25, 1957                      | 216.27      | June 23, 1976                      | 236.90      |
| Nov. 19, 1949                      | 204.49      | Jan. 16, 1958                      | 217.71      | Feb. 1, 1977                       | 235.62      |
| Dec. 19, 1949                      | 204.42      | June 25, 1958                      | 219.16      |                                    |             |
| Jan. 23, 1950                      | 204.39      | Jan. 7, 1959                       | 219.89      | <b>Well JL-49-13-301</b>           |             |
| Feb. 20, 1950                      | 204.54      | June 16, 1959                      | 221.55      | Owner: City of El Paso             |             |
| Apr. 22, 1950                      | 204.70      | Jan. 4, 1960                       | 222.35      | Oct. 20, 1964                      | 231.90      |
| June 4, 1950                       | 204.82      | July 21, 1960                      | 223.13      | Nov. 20, 1964                      | 231.24      |
| July 20, 1950                      | 205.02      | Jan. 5, 1961                       | 224.37      | Dec. 20, 1964                      | 229.40      |
| Sept. 18, 1950                     | 205.28      | July 5, 1961                       | 225.20      | Jan. 20, 1965                      | 229.34      |
| Oct. 27, 1950                      | 205.16      | Jan. 9, 1962                       | 225.34      | Feb. 20, 1965                      | 228.95      |
| Nov. 22, 1950                      | 205.18      | July 2, 1962                       | 226.70      | Mar. 20, 1965                      | 224.02      |
| Jan. 4, 1951                       | 205.25      | Dec. 31, 1962                      | 226.17      | Apr. 20, 1965                      | 230.83      |
| Apr. 23, 1951                      | 208.63      | July 1, 1963                       | 227.84      | May 20, 1965                       | 230.83      |
| July 25, 1951                      | 207.53      | Dec. 31, 1963                      | 229.80      | June 20, 1965                      | 232.37      |
|                                    |             |                                    |             | July 20, 1965                      | 232.85      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                        | WATER LEVEL | DATE                        | WATER LEVEL | DATE                        | WATER LEVEL |
|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Well JL-49-13-301—Continued |             | Well JL-49-13-301—Continued |             | Well JL-49-13-301—Continued |             |
| Aug. 20, 1965               | 232.94      | Sept. 20, 1968              | 237.72      | Oct. 20, 1971               | 241.28      |
| Sept. 20, 1965              | 232.58      | Oct. 20, 1968               | 238.02      | Nov. 20, 1971               | 241.44      |
| Oct. 20, 1965               | 230.42      | Nov. 20, 1968               | 236.90      | Dec. 20, 1971               | 241.29      |
| Nov. 20, 1965               | 229.60      | Dec. 20, 1968               | 234.67      | Jan. 20, 1972               | 241.17      |
| Dec. 20, 1965               | 229.00      | Jan. 20, 1969               | 235.05      | Feb. 20, 1972               | 239.03      |
| Jan. 20, 1966               | 231.36      | Feb. 20, 1969               | 234.58      | Mar. 20, 1972               | 238.83      |
| Feb. 20, 1966               | 230.25      | Mar. 20, 1969               | 236.12      | Apr. 20, 1972               | 238.75      |
| Mar. 20, 1966               | 233.02      | Apr. 20, 1969               | 236.37      | May 20, 1972                | 240.47      |
| Apr. 20, 1966               | 234.28      | May 20, 1969                | 239.12      | June 6, 1972                | 242.58      |
| May 12, 1966                | 234.60      | June 20, 1969               | 239.82      | Dec. 21, 1973               | 247.28      |
| June 20, 1966               | 234.55      | July 20, 1969               | 238.78      | June 20, 1974               | 250.55      |
| July 20, 1966               | 234.90      | Aug. 20, 1969               | 238.42      | July 20, 1974               | 247.83      |
| Aug. 20, 1966               | 236.39      | Sept. 20, 1969              | 238.70      | Aug. 20, 1974               | 250.35      |
| Sept. 20, 1966              | 234.70      | Oct. 20, 1969               | 236.70      | Oct. 24, 1974               | 249.20      |
| Oct. 20, 1966               | 234.47      | Nov. 20, 1969               | 236.40      | Nov. 22, 1974               | 249.47      |
| Nov. 20, 1966               | 234.32      | Dec. 20, 1969               | 236.04      | Dec. 20, 1974               | 246.85      |
| Dec. 20, 1966               | 233.98      | Jan. 20, 1970               | 235.98      | Jan. 20, 1975               | 246.73      |
| Jan. 20, 1967               | 234.13      | Feb. 20, 1970               | 236.30      | Feb. 20, 1975               | 246.15      |
| Feb. 20, 1967               | 235.37      | Mar. 20, 1970               | 235.23      | Mar. 20, 1975               | 246.39      |
| Mar. 20, 1967               | 232.28      | Apr. 20, 1970               | 237.32      | Apr. 20, 1975               | 248.01      |
| Apr. 20, 1967               | 234.12      | May 20, 1970                | 238.75      | May 20, 1975                | 249.12      |
| May 18, 1967                | 235.70      | June 20, 1970               | 239.21      | June 20, 1975               | 250.87      |
| June 20, 1967               | 234.70      | July 20, 1970               | 240.35      | July 20, 1975               | 250.95      |
| July 20, 1967               | 234.41      | Aug. 20, 1970               | 240.56      | Aug. 15, 1975               | 251.30      |
| Aug. 20, 1967               | 235.45      | Sept. 20, 1970              | 239.71      | Sept. 20, 1975              | 250.71      |
| Sept. 20, 1967              | 235.87      | Oct. 20, 1970               | 239.18      | Oct. 21, 1975               | 250.68      |
| Oct. 20, 1967               | 235.85      | Nov. 20, 1970               | 238.76      | Nov. 20, 1975               | 248.66      |
| Nov. 20, 1967               | 235.18      | Dec. 20, 1970               | 237.24      | Dec. 20, 1975               | 248.33      |
| Dec. 20, 1967               | 232.82      | Jan. 20, 1971               | 237.50      | Jan. 20, 1976               | 247.97      |
| Jan. 20, 1968               | 235.83      | Feb. 20, 1971               | 237.90      | Feb. 20, 1976               | 247.19      |
| Feb. 20, 1968               | 234.68      | Mar. 20, 1971               | 236.86      | Mar. 20, 1976               | 246.11      |
| Mar. 20, 1968               | 232.25      | Apr. 20, 1971               | 237.27      | Apr. 20, 1976               | 248.14      |
| Apr. 20, 1968               | 234.96      | May 20, 1971                | 238.02      | May 21, 1976                | 247.99      |
| May 20, 1968                | 237.72      | June 20, 1971               | 239.69      | June 21, 1976               | 250.29      |
| June 20, 1968               | 238.76      | July 9, 1971                | 241.10      | July 20, 1976               | 249.42      |
| July 20, 1968               | 238.70      | Aug. 26, 1971               | 239.86      | Aug. 20, 1976               | 249.85      |
| Aug. 20, 1968               | 236.68      | Sept. 20, 1971              | 240.11      | Sept. 20, 1976              | 249.64      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-301—Continued</b> |             | <b>Well JL-49-13-506—Continued</b> |             | <b>Well JL-49-13-512—Continued</b> |             |
| Oct. 21, 1976                      | 249.03      | July 13, 1961                      | 232.76      | Sept. 22, 1955                     | 220.63      |
| Nov. 24, 1976                      | 251.05      | Jan. 7, 1962                       | 234.94      | Nov. 9, 1958                       | 217.97      |
| Dec. 20, 1976                      | 251.55      | July 2, 1962                       | 236.34      | Sept. 30, 1959                     | 224.35      |
| Jan. 19, 1977                      | 251.51      | July 5, 1962                       | 236.38      | Oct. 1, 1959                       | 226.77      |
| Feb. 18, 1977                      | 251.93      | Jan. 3, 1963                       | 237.86      | Oct. 1, 1959                       | 226.45      |
| Mar. 21, 1977                      | 250.76      | July 1, 1963                       | 238.77      | Jan. 7, 1960                       | 220.82      |
| Apr. 20, 1977                      | 249.32      | Dec. 31, 1963                      | 240.55      | Jan. 26, 1962                      | 229.76      |
| May 22, 1977                       | 250.05      | July 1, 1964                       | 241.20      | Dec. 31, 1962                      | 222.55      |
| June 20, 1977                      | 252.90      | Dec. 29, 1964                      | 243.35      | Jan. 1973                          | 233.09      |
| July 20, 1977                      | 253.45      | July 20, 1965                      | 245.29      |                                    |             |
|                                    |             | Dec. 27, 1965                      | 246.32      | <b>Well JL-49-13-601</b>           |             |
|                                    |             | July 8, 1966                       | 246.70      | Owner: City of El Paso             |             |
| <b>Well JL-49-13-502</b>           |             | Jan. 10, 1967                      | 247.60      | Jan. 28, 1955                      | 224.45      |
| Owner: City of El Paso             |             | July 5, 1967                       | 248.30      | Apr. 18, 1955                      | 236.05      |
| Aug. 8, 1939                       | 205.51      | Jan. 3, 1968                       | 249.67      | June 10, 1955                      | 246.70      |
| Jan. 23, 1952                      | 214.82      | July 16, 1968                      | 250.39      | Jan. 23, 1957                      | 225.34      |
| Mar. 24, 1952                      | 216.00      | Jan. 29, 1970                      | 253.60      | Jan. 22, 1958                      | 228.56      |
| June 6, 1952                       | 228.02      | Feb. 19, 1971                      | 253.44      | Jan. 9, 1959                       | 229.90      |
| Jan. 2, 1963                       | 227.29      | Jan. 20, 1972                      | 257.31      | Feb. 9, 1960                       | 236.19      |
| Jan. 1973                          | 242.62      | Jan. 1974                          | 262.35      | Jan. 5, 1961                       | 230.45      |
|                                    |             | Jan. 20, 1975                      | 257.30      | Jan. 26, 1962                      | 236.36      |
| <b>Well JL-49-13-506</b>           |             | Jan. 11, 1976                      | 167.31      | Sept. 27, 1962                     | 240.70      |
| Owner: U.S. Geological Survey      |             | Jan. 4, 1977                       | 178.29      | Jan. 9, 1963                       | 237.45      |
| Apr. 15, 1953                      | 229.59      |                                    |             | Jan. 4, 1965                       | 246.91      |
| Jan. 5, 1954                       | 232.34      | <b>Well JL-49-13-511</b>           |             | Dec. 28, 1967                      | 300.99      |
| Jan. 27, 1955                      | 232.28      | Owner: City of El Paso             |             | Jan. 14, 1969                      | 250.99      |
| June 10, 1955                      | 232.25      | Oct. 1, 1959                       | 233.62      | Jan. 16, 1970                      | 250.85      |
| Sept. 19, 1955                     | 232.82      | Jan. 16, 1970                      | 342.94      | Jan. 1971                          | 247.16      |
| Jan. 27, 1956                      | 233.74      | Jan. 1971                          | 235.26      | Jan. 1972                          | 247.97      |
| Apr. 30, 1956                      | 233.41      | Jan. 1972                          | 234.94      | Jan. 1973                          | 296.94      |
| June 22, 1956                      | 233.23      | Jan. 1973                          | 241.62      | Jan. 20, 1975                      | 253.31      |
| Sept. 19, 1956                     | 233.54      | Jan. 11, 1974                      | 243.10      | Jan. 19, 1976                      | 256.19      |
| Jan. 16, 1957                      | 234.57      | Jan. 20, 1975                      | 293.11      |                                    |             |
| Jan. 16, 1958                      | 235.77      | Jan. 19, 1976                      | 242.38      | <b>Well JL-49-13-608</b>           |             |
| Jan. 6, 1959                       | 231.56      |                                    |             | Owner: City of El Paso             |             |
| Jan. 5, 1960                       | 231.78      | <b>Well JL-49-13-512</b>           |             | Apr. 2, 1959                       | 254.86      |
| Aug. 18, 1960                      | 233.50      | Owner: City of El Paso             |             | June 26, 1959                      | 260.80      |
| Jan. 5, 1961                       | 233.75      | Feb. 25, 1931                      | 190.00      | Jan. 6, 1960                       | 252.00      |
|                                    |             | Jan. 28, 1965                      | 212.99      |                                    |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-608—Continued</b> |             | <b>Well JL-49-13-610—Continued</b> |             | <b>Well JL-49-13-611—Continued</b> |             |
| Jan. 23, 1962                      | 258.85      | Jan. 17, 1957                      | 266.22      | June 24, 1957                      | 265.87      |
| Jan. 9, 1963                       | 259.42      | Jan. 15, 1958                      | 269.66      | July 23, 1957                      | 265.30      |
| Jan. 2, 1964                       | 261.72      | Dec. 17, 1958                      | 267.44      | Aug. 23, 1957                      | 264.94      |
| Jan. 4, 1965                       | 265.64      | Jan. 2, 1959                       | 266.52      | Sept. 25, 1957                     | 261.68      |
| Jan. 25, 1976                      | 264.44      | Jan. 6, 1960                       | 268.92      | Oct. 25, 1957                      | 259.87      |
| Jan. 16, 1968                      | 265.40      | Jan. 6, 1961                       | 279.66      | Nov. 25, 1957                      | 260.16      |
| Jan. 6, 1969                       | 268.58      | June 22, 1964                      | 285.21      | Dec. 20, 1957                      | 259.52      |
| Jan. 16, 1970                      | 271.24      | Feb. 2, 1965                       | 282.44      | Jan. 23, 1958                      | 259.46      |
| Jan. 1971                          | 270.39      | Jan. 25, 1967                      | 279.88      | Feb. 25, 1958                      | 261.42      |
| Jan. 1972                          | 272.19      | Dec. 28, 1967                      | 281.02      | Mar. 25, 1958                      | 259.62      |
| Jan. 1973                          | 274.53      | Jan. 19, 1969                      | 283.06      | Apr. 25, 1958                      | 263.29      |
| Jan. 10, 1974                      | 274.65      | Jan. 15, 1970                      | 284.53      | May 23, 1958                       | 263.94      |
| Jan. 16, 1975                      | 276.40      | Jan. 1971                          | 284.25      | June 25, 1958                      | 265.74      |
| Jan. 1976                          | 278.46      | Jan. 1973                          | 292.52      | July 25, 1958                      | 267.42      |
| Dec. 8, 1976                       | 287.21      | Jan. 10, 1974                      | 292.43      | Aug. 25, 1958                      | 264.00      |
| <b>Well JL-49-13-609</b>           |             | Jan. 15, 1976                      | 295.39      | Sept. 25, 1958                     | 264.51      |
| Owner: City of El Paso             |             | Dec. 8, 1976                       | 298.09      | Oct. 24, 1958                      | 263.89      |
| Mar. 27, 1958                      | 260.28      | <b>Well JL-49-13-611</b>           |             | Nov. 25, 1958                      | 264.23      |
| Dec. 18, 1958                      | 259.50      | Owner: U.S. Army                   |             | Dec. 24, 1958                      | 262.56      |
| Jan. 12, 1959                      | 336.80      | July 16, 1936                      | 244.12      | Jan. 23, 1959                      | 261.57      |
| Feb. 13, 1959                      | 258.17      | Feb. 21, 1956                      | 258.91      | Feb. 25, 1959                      | 263.93      |
| Jan. 6, 1960                       | 260.53      | Mar. 19, 1956                      | 259.91      | Mar. 25, 1959                      | 264.45      |
| Jan. 2, 1963                       | 265.17      | Apr. 23, 1956                      | 260.17      | Apr. 24, 1959                      | 265.77      |
| Dec. 31, 1963                      | 267.33      | May 23, 1956                       | 263.30      | May 25, 1959                       | 266.39      |
| Feb. 2, 1965                       | 273.48      | June 21, 1956                      | 263.52      | June 25, 1959                      | 267.22      |
| Dec. 29, 1965                      | 272.03      | July 20, 1956                      | 263.70      | July 24, 1959                      | 268.42      |
| Jan. 25, 1967                      | 270.22      | Aug. 21, 1956                      | 262.42      | Aug. 25, 1959                      | 264.74      |
| Jan. 15, 1968                      | 271.00      | Sept. 21, 1956                     | 264.70      | Sept. 25, 1959                     | 265.68      |
| Jan. 6, 1969                       | 274.16      | Oct. 23, 1956                      | 264.46      | Oct. 26, 1959                      | 266.38      |
| Jan. 15, 1970                      | 277.09      | Nov. 23, 1956                      | 262.23      | Nov. 25, 1959                      | 266.56      |
| Jan. 1971                          | 275.93      | Dec. 21, 1956                      | 261.26      | Dec. 28, 1959                      | 265.00      |
| <b>Well JL-49-13-610</b>           |             | Jan. 23, 1957                      | 258.43      | Jan. 25, 1960                      | 265.95      |
| Owner: City of El Paso             |             | Feb. 25, 1957                      | 260.91      | Feb. 26, 1960                      | 264.58      |
| Mar. 6, 1954                       | 267.44      | Mar. 25, 1957                      | 258.86      | Mar. 25, 1960                      | 267.75      |
| June 10, 1955                      | 310.35      | Apr. 23, 1957                      | 261.58      | Apr. 25, 1960                      | 266.67      |
| Jan. 27, 1956                      | 262.38      | May 23, 1957                       | 264.10      | May 25, 1960                       | 267.08      |
|                                    |             |                                    |             | June 24, 1960                      | 268.68      |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-611—Continued</b> |             | <b>Well JL-49-13-611—Continued</b> |             | <b>Well JL-49-13-611—Continued</b> |             |
| July 28, 1960                      | 269.72      | July 25, 1963                      | 275.41      | July 25, 1966                      | 282.65      |
| Aug. 25, 1960                      | 270.10      | Aug. 26, 1963                      | 273.55      | Aug. 25, 1966                      | 281.39      |
| Sept. 26, 1960                     | 270.13      | Sept. 24, 1963                     | 273.64      | Sept. 23, 1966                     | 280.70      |
| Oct. 25, 1960                      | 265.43      | Oct. 25, 1963                      | 271.41      | Oct. 25, 1966                      | 279.33      |
| Nov. 25, 1960                      | 264.34      | Nov. 26, 1963                      | 270.40      | Nov. 25, 1966                      | 279.25      |
| Dec. 23, 1960                      | 261.29      | Dec. 24, 1963                      | 270.90      | Dec. 23, 1966                      | 277.60      |
| Jan. 25, 1961                      | 264.78      | Jan. 25, 1964                      | 270.60      | Jan. 25, 1967                      | 272.15      |
| Feb. 24, 1961                      | 265.00      | Feb. 25, 1964                      | 270.50      | Feb. 24, 1967                      | 273.17      |
| Mar. 24, 1961                      | 268.82      | Mar. 25, 1964                      | 270.38      | Mar. 24, 1967                      | 275.34      |
| Apr. 26, 1961                      | 268.20      | Apr. 24, 1964                      | 272.15      | Apr. 25, 1967                      | 281.62      |
| May 25, 1961                       | 268.30      | May 25, 1964                       | 273.07      | May 25, 1967                       | 283.82      |
| June 23, 1961                      | 269.98      | June 25, 1964                      | 274.70      | June 26, 1967                      | 284.44      |
| July 25, 1961                      | 270.40      | July 25, 1964                      | 275.09      | July 25, 1967                      | 285.67      |
| Aug. 25, 1961                      | 271.04      | Aug. 28, 1964                      | 275.74      | Aug. 25, 1967                      | 285.28      |
| Sept. 25, 1961                     | 269.50      | Sept. 25, 1964                     | 273.22      | Sept. 25, 1967                     | 286.18      |
| Oct. 25, 1961                      | 268.38      | Oct. 23, 1964                      | 272.91      | Oct. 25, 1967                      | 284.55      |
| Nov. 24, 1961                      | 267.20      | Nov. 25, 1964                      | 271.44      | Nov. 22, 1967                      | 277.85      |
| Dec. 26, 1961                      | 263.92      | Dec. 24, 1964                      | 270.70      | Dec. 22, 1967                      | 275.67      |
| Jan. 25, 1962                      | 264.83      | Jan. 25, 1965                      | 270.30      | Jan. 20, 1968                      | 277.32      |
| Feb. 23, 1962                      | 264.67      | Feb. 25, 1965                      | 270.93      | Jan. 25, 1968                      | 274.87      |
| Apr. 2, 1962                       | 270.47      | Mar. 25, 1965                      | 271.83      | Feb. 20, 1968                      | 276.70      |
| Apr. 24, 1962                      | 268.87      | Apr. 26, 1965                      | 273.70      | Feb. 24, 1968                      | 277.23      |
| May 25, 1962                       | 271.14      | May 25, 1965                       | 274.97      | Mar. 20, 1968                      | 277.77      |
| June 25, 1962                      | 272.32      | June 25, 1965                      | 276.37      | Mar. 22, 1968                      | 276.01      |
| July 25, 1962                      | 272.25      | July 23, 1965                      | 278.18      | Apr. 22, 1968                      | 281.17      |
| Aug. 24, 1962                      | 274.74      | Aug. 25, 1965                      | 277.40      | Apr. 23, 1968                      | 284.83      |
| Sept. 25, 1962                     | 269.59      | Sept. 24, 1965                     | 275.94      | May 21, 1968                       | 285.03      |
| Oct. 25, 1962                      | 269.10      | Oct. 24, 1965                      | 279.21      | June 20, 1968                      | 285.89      |
| Nov. 24, 1962                      | 268.19      | Nov. 24, 1965                      | 277.85      | July 19, 1968                      | 286.22      |
| Dec. 26, 1962                      | 267.93      | Dec. 23, 1965                      | 272.03      | Aug. 21, 1968                      | 287.83      |
| Jan. 25, 1963                      | 267.43      | Jan. 25, 1966                      | 271.33      | Sept. 19, 1968                     | 286.33      |
| Feb. 25, 1963                      | 267.95      | Feb. 25, 1966                      | 274.03      | Oct. 21, 1968                      | 285.88      |
| Mar. 25, 1963                      | 269.29      | Mar. 25, 1966                      | 277.25      | Nov. 21, 1968                      | 283.57      |
| Apr. 25, 1963                      | 270.58      | Apr. 25, 1966                      | 279.49      | Dec. 20, 1968                      | 277.53      |
| May 24, 1963                       | 269.61      | May 25, 1966                       | 281.14      | Jan. 20, 1969                      | 277.32      |
| June 25, 1963                      | 273.20      | June 28, 1966                      | 278.42      |                                    |             |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-611—Continued</b> |             | <b>Well JL-49-13-611—Continued</b> |             | <b>Well JL-49-13-613—Continued</b> |             |
| Feb. 24, 1969                      | 277.23      | Mar. 21, 1972                      | 289.98      | May 23, 1956                       | 275.99      |
| Mar. 20, 1969                      | 277.77      | Apr. 21, 1972                      | 289.27      | June 21, 1956                      | 276.07      |
| Apr. 23, 1969                      | 284.83      | May 19, 1972                       | 292.69      | July 20, 1956                      | 276.59      |
| May 20, 1969                       | 286.97      | June 20, 1972                      | 292.25      | Aug. 21, 1956                      | 276.88      |
| June 20, 1969                      | 288.77      | July 21, 1972                      | 291.05      | Sept. 21, 1956                     | 276.81      |
| July 28, 1969                      | 289.20      | Aug. 21, 1972                      | 294.37      | Oct. 23, 1956                      | 277.13      |
| Aug. 20, 1969                      | 289.27      | Sept. 20, 1972                     | 290.25      | Nov. 23, 1956                      | 277.46      |
| Sept. 22, 1969                     | 284.67      | Oct. 20, 1972                      | 292.55      | Dec. 21, 1956                      | 277.25      |
| Oct. 21, 1969                      | 282.77      | Nov. 20, 1972                      | 290.35      | Jan. 23, 1957                      | 277.32      |
| Nov. 20, 1969                      | 280.16      | Dec. 21, 1972                      | 290.26      | Feb. 21, 1957                      | 277.30      |
| Dec. 19, 1969                      | 280.81      | Jan. 22, 1973                      | 288.22      | Mar. 25, 1957                      | 277.60      |
| Jan. 20, 1970                      | 281.60      | Mar. 1, 1973                       | 288.57      | Apr. 23, 1957                      | 277.78      |
| Feb. 20, 1970                      | 278.40      | Mar. 22, 1973                      | 289.88      | May 23, 1957                       | 277.93      |
| Mar. 23, 1970                      | 278.35      | Jan. 1974                          | 294.44      | June 24, 1957                      | 278.54      |
| Apr. 20, 1970                      | 279.88      | Jan. 20, 1975                      | 293.94      | July 23, 1957                      | 278.77      |
| May 20, 1970                       | 281.13      | Jan. 20, 1976                      | 295.46      | Aug. 23, 1957                      | 278.98      |
| June 19, 1970                      | 287.22      | Feb. 20, 1976                      | 296.95      | Sept. 24, 1957                     | 279.25      |
| July 21, 1970                      | 288.55      | Mar. 19, 1976                      | 296.88      | Oct. 24, 1957                      | 279.29      |
| Aug. 21, 1970                      | 288.55      | Apr. 20, 1976                      | 301.62      | Nov. 25, 1957                      | 279.68      |
| Sept. 21, 1970                     | 283.26      | May 20, 1976                       | 299.26      | Dec. 20, 1957                      | 279.68      |
| Oct. 21, 1970                      | 282.43      | June 21, 1976                      | 303.23      | Jan. 23, 1958                      | 279.42      |
| Nov. 20, 1970                      | 282.29      | July 20, 1976                      | 303.57      | Feb. 25, 1958                      | 279.65      |
| Dec. 18, 1970                      | 281.14      | Aug. 20, 1976                      | 305.31      | Mar. 25, 1958                      | 279.85      |
| Jan. 20, 1971                      | 280.62      | Sept. 20, 1976                     | 304.89      | Apr. 25, 1958                      | 280.01      |
| Feb. 19, 1971                      | 284.32      | Oct. 21, 1976                      | 303.77      | May 23, 1958                       | 280.26      |
| Mar. 19, 1971                      | 287.06      | Nov. 24, 1976                      | 302.00      | June 25, 1958                      | 280.45      |
| Apr. 20, 1971                      | 287.47      | Dec. 20, 1976                      | 301.84      | July 25, 1958                      | 280.89      |
| May 21, 1971                       | 289.38      | Jan. 19, 1977                      | 303.34      | Aug. 25, 1958                      | 281.35      |
| June 21, 1971                      | 291.86      | Feb. 18, 1977                      | 303.14      | Sept. 25, 1958                     | 281.39      |
| July 20, 1971                      | 293.15      | Mar. 21, 1977                      | 302.91      | Oct. 24, 1958                      | 281.46      |
| Aug. 20, 1971                      | 292.27      | Apr. 20, 1977                      | 303.32      | Nov. 25, 1958                      | 281.39      |
| Sept. 23, 1971                     | 293.13      | May 22, 1977                       | 305.74      | Dec. 23, 1958                      | 281.22      |
| Oct. 21, 1971                      | 291.13      | June 20, 1977                      | 309.47      | Jan. 22, 1959                      | 281.31      |
| Nov. 19, 1971                      | 289.17      | July 20, 1977                      | 308.46      | Feb. 25, 1959                      | 281.19      |
| Dec. 17, 1971                      | 288.33      |                                    |             | Mar. 25, 1959                      | 281.15      |
| Jan. 21, 1972                      | 282.42      |                                    |             | Apr. 23, 1959                      | 281.95      |
| Feb. 22, 1972                      | 286.77      |                                    |             | May 25, 1959                       | 281.78      |
|                                    |             |                                    |             | June 25, 1959                      | 281.89      |
|                                    |             | <b>Well JL-49-13-613</b>           |             |                                    |             |
|                                    |             | Owner: City of El Paso             |             |                                    |             |
|                                    |             | Mar. 19, 1956                      | 275.75      |                                    |             |
|                                    |             | Apr. 23, 1956                      | 275.82      |                                    |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                        | WATER LEVEL | DATE                        | WATER LEVEL | DATE                        | WATER LEVEL |
|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Well JL-49-13-613—Continued |             | Well JL-49-13-613—Continued |             | Well JL-49-13-613—Continued |             |
| July 24, 1959               | 282.38      | Feb. 25, 1963               | 290.13      | Mar. 25, 1966               | 297.08      |
| Aug. 25, 1959               | 282.59      | Mar. 25, 1963               | 290.91      | Apr. 25, 1966               | 299.04      |
| Sept. 25, 1959              | 282.71      | Apr. 24, 1963               | 292.30      | May 25, 1966                | 300.53      |
| Oct. 26, 1959               | 283.66      | May 24, 1963                | 293.00      | June 28, 1966               | 300.50      |
| Nov. 25, 1959               | 283.22      | June 24, 1963               | 294.97      | July 25, 1966               | 303.02      |
| Dec. 24, 1959               | 283.30      | July 25, 1963               | 295.61      | Aug. 25, 1966               | 300.18      |
| Jan. 25, 1960               | 283.64      | Aug. 26, 1963               | 294.76      | Sept. 23, 1966              | 300.56      |
| Feb. 26, 1960               | 282.65      | Sept. 24, 1963              | 293.61      | Oct. 25, 1966               | 299.06      |
| Mar. 25, 1960               | 283.00      | Oct. 25, 1963               | 292.56      | Nov. 25, 1966               | 298.07      |
| Apr. 7, 1960                | 283.00      | Nov. 26, 1963               | 292.40      | Dec. 23, 1966               | 299.00      |
| Apr. 25, 1960               | 283.05      | Dec. 24, 1963               | 292.20      | Jan. 25, 1967               | 298.54      |
| May 25, 1960                | 283.46      | Jan. 24, 1964               | 291.87      | Feb. 24, 1967               | 299.54      |
| June 24, 1960               | 283.50      | Feb. 25, 1964               | 291.90      | Mar. 24, 1967               | 300.42      |
| July 28, 1960               | 284.10      | Mar. 25, 1964               | 292.35      | Apr. 25, 1967               | 301.36      |
| Aug. 25, 1960               | 268.32      | Apr. 24, 1964               | 294.10      | May 28, 1967                | 302.27      |
| Sept. 26, 1960              | 268.84      | May 25, 1964                | 296.64      | June 26, 1967               | 302.54      |
| Oct. 25, 1960               | 269.13      | June 25, 1964               | 297.44      | July 25, 1967               | 303.12      |
| Nov. 25, 1960               | 269.37      | July 27, 1964               | 297.71      | Aug. 25, 1967               | 303.26      |
| Aug. 18, 1961               | 289.44      | Aug. 28, 1964               | 297.83      | Sept. 25, 1967              | 302.37      |
| Aug. 25, 1961               | 290.14      | Sept. 25, 1964              | 295.87      | Oct. 25, 1967               | 302.71      |
| Sept. 25, 1961              | 289.78      | Oct. 23, 1964               | 295.57      | Nov. 22, 1967               | 302.60      |
| Oct. 25, 1961               | 289.77      | Nov. 25, 1964               | 294.98      | Dec. 22, 1967               | 300.50      |
| Nov. 24, 1961               | 288.75      | Dec. 24, 1964               | 294.25      | Jan. 25, 1968               | 300.25      |
| Dec. 26, 1961               | 288.75      | Jan. 25, 1965               | 296.75      | Feb. 20, 1968               | 301.09      |
| Jan. 26, 1962               | 288.65      | Feb. 25, 1965               | 294.90      | Mar. 22, 1968               | 300.64      |
| Feb. 23, 1962               | 288.32      | Mar. 25, 1965               | 296.15      | Apr. 22, 1968               | 302.28      |
| Apr. 2, 1962                | 289.34      | Apr. 26, 1965               | 296.76      | May 22, 1968                | 307.58      |
| Apr. 24, 1962               | 290.38      | May 25, 1965                | 298.43      | June 20, 1968               | 312.11      |
| May 25, 1962                | 292.35      | June 25, 1965               | 299.56      | July 19, 1968               | 311.03      |
| June 25, 1962               | 293.50      | July 23, 1965               | 302.07      | Aug. 21, 1968               | 311.02      |
| July 25, 1962               | 292.90      | Aug. 25, 1965               | 299.67      | Sept. 19, 1968              | 306.58      |
| Aug. 24, 1962               | 294.01      | Sept. 24, 1965              | 298.67      | Oct. 21, 1968               | 304.65      |
| Sept. 25, 1962              | 292.02      | Oct. 25, 1965               | 297.88      | Nov. 20, 1968               | 303.71      |
| Oct. 25, 1962               | 291.47      | Nov. 24, 1965               | 297.10      | Dec. 20, 1968               | 304.10      |
| Nov. 24, 1962               | 290.66      | Dec. 23, 1965               | 295.97      | Jan. 20, 1969               | 307.01      |
| Dec. 26, 1962               | 290.13      | Jan. 25, 1966               | 296.75      | Feb. 24, 1969               | 307.67      |
| Jan. 25, 1963               | 291.28      | Feb. 25, 1966               | 296.83      | Mar. 20, 1969               | 308.51      |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                            | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|---------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-613—Continued</b> |             | <b>Well JL-49-13-622</b>        |             | <b>Well JL-49-13-702—Continued</b> |             |
| Apr. 28, 1969                      | 311.85      | Owner: City of El Paso          |             | May 28, 1946                       | 43.70       |
| May 20, 1969                       | 313.53      | Jan. 1973                       | 296.96      | June 26, 1946                      | 44.60       |
| June 20, 1969                      | 316.35      | Jan. 10, 1974                   | 300.81      | July 29, 1946                      | 37.20       |
| July 28, 1969                      | 315.89      | Dec. 16, 1976                   | 328.49      | Aug. 29, 1946                      | 41.60       |
| Aug. 20, 1969                      | 318.33      |                                 |             | Oct. 30, 1946                      | 33.20       |
| Sept. 22, 1969                     | 313.47      | <b>Well JL-49-13-623</b>        |             | Dec. 17, 1946                      | 32.30       |
| Oct. 22, 1969                      | 311.37      | Owner: City of El Paso          |             | Aug. 28, 1947                      | 34.50       |
| Nov. 20, 1969                      | 310.23      | Jan. 1973                       | 292.06      | Sept. 30, 1947                     | 32.90       |
| Dec. 19, 1969                      | 308.69      | Jan. 10, 1974                   | 296.00      | Dec. 17, 1947                      | 29.50       |
| Jan. 20, 1970                      | 307.41      | Jan. 15, 1976                   | 307.90      | Jan. 30, 1948                      | 32.60       |
| Feb. 20, 1970                      | 309.44      |                                 |             | June 16, 1948                      | 34.80       |
| Mar. 23, 1970                      | 309.10      | <b>Well JL-49-13-701</b>        |             | Aug. 31, 1948                      | 35.70       |
| Apr. 20, 1970                      | 309.93      | Owner: El Paso Electric Company |             | Oct. 26, 1948                      | 30.40       |
| May 20, 1970                       | 316.70      | Dec. 30, 1964                   | 42.82       | Dec. 29, 1948                      | 28.40       |
| June 19, 1970                      | 315.94      | Dec. 27, 1965                   | 40.94       | Apr. 27, 1950                      | 35.60       |
| July 21, 1970                      | 319.88      | Jan. 10, 1967                   | 39.14       | Oct. 26, 1950                      | 31.20       |
| Dec. 21, 1972                      | 313.65      | Jan. 3, 1968                    | 39.94       | Jan. 4, 1951                       | 27.20       |
| Jan. 10, 1974                      | 315.16      | Apr. 30, 1968                   | 37.73       | July 26, 1951                      | 41.40       |
| June 26, 1975                      | 325.47      |                                 |             | Oct. 23, 1951                      | 33.90       |
| Jan. 15, 1976                      | 319.27      | <b>Well JL-49-13-702</b>        |             | Jan. 14, 1952                      | 30.30       |
| Dec. 8, 1976                       | 319.58      | Owner: City of El Paso          |             | June 3, 1952                       | 40.80       |
| Jan. 5, 1977                       | 318.81      | Feb. 2, 1939                    | 36.70       | Jan. 6, 1953                       | 29.60       |
|                                    |             | June 16, 1939                   | 37.50       | June 3, 1953                       | 42.20       |
| <b>Well JL-49-13-617</b>           |             | Nov. 18, 1939                   | 32.67       | Jan. 5, 1954                       | 31.10       |
| Owner: City of El Paso             |             | Nov. 20, 1939                   | 28.50       | June 14, 1954                      | 47.20       |
| May 21, 1968                       | 314.20      | May 24, 1940                    | 36.20       | Sept. 19, 1955                     | 48.38       |
| Jan. 6, 1969                       | 305.58      | June 25, 1940                   | 36.40       | Jan. 26, 1956                      | 53.03       |
| Jan. 15, 1970                      | 310.19      | Aug. 24, 1942                   | 37.50       | Apr. 27, 1956                      | 49.30       |
| Jan. 1971                          | 306.90      | Nov. 23, 1943                   | 32.10       | Jan. 17, 1957                      | 54.71       |
| Jan. 1972                          | 308.54      | Feb. 11, 1944                   | 40.10       | Jan. 15, 1958                      | 61.24       |
| Jan. 1973                          | 312.10      | Apr. 24, 1944                   | 35.90       | Jan. 9, 1959                       | 50.48       |
| Jan. 10, 1974                      | 318.50      | July 19, 1944                   | 37.80       | Jan. 8, 1960                       | 42.10       |
| Jan. 17, 1975                      | 321.56      | Sept. 25, 1944                  | 36.40       | July 22, 1960                      | 47.31       |
| Jan. 15, 1976                      | 323.65      | Jan. 22, 1945                   | 39.00       | Jan. 5, 1961                       | 42.08       |
| Dec. 8, 1976                       | 323.74      | Oct. 23, 1945                   | 29.60       | July 5, 1961                       | 49.63       |
|                                    |             | Nov. 26, 1945                   | 29.40       |                                    |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                                     | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|--|-------------|
| <b>Well JL-49-13-702—Continued</b> |             | <b>Well JL-49-13-704—Continued</b> |             | <b>Well JL-49-13-704—Continued</b>       |             |
| Jan. 23, 1962                      | 41.97       | Oct. 15, 1940                      | 36.30       | Feb. 21, 1950                            | 61.38       |
| July 2, 1962                       | 50.60       | Nov. 18, 1940                      | 35.50       | June 22, 1950                            | 65.72       |
| Jan. 4, 1963                       | 43.22       | Dec. 11, 1940                      | 34.50       | Oct. 26, 1950                            | 28.70       |
| July 1, 1963                       | 54.25       | Jan. 11, 1941                      | 34.40       | Jan. 4, 1951                             | 23.20       |
| Dec. 31, 1963                      | 48.28       | Feb. 11, 1941                      | 36.00       | July 26, 1951                            | 40.20       |
| July 2, 1964                       | 62.22       | Oct. 21, 1941                      | 34.80       | Oct. 23, 1951                            | 31.70       |
| Dec. 30, 1964                      | 55.20       | Nov. 17, 1941                      | 34.30       | Jan. 14, 1952                            | 27.10       |
| July 24, 1965                      | 64.29       | Jan. 21, 1942                      | 34.60       | June 3, 1952                             | 39.40       |
| Dec. 27, 1965                      | 52.24       | Aug. 24, 1942                      | 35.00       | Jan. 6, 1953                             | 26.60       |
| July 8, 1966                       | 56.54       | Sept. 22, 1942                     | 34.10       | June 3, 1953                             | 61.87       |
| Jan. 12, 1967                      | 50.56       | Dec. 23, 1942                      | 29.50       | Jan. 5, 1954                             | 28.20       |
| July 6, 1967                       | 56.86       | May 22, 1943                       | 37.80       | Dec. 30, 1964                            | 53.94       |
| Dec. 27, 1967                      | 99.35       | Apr. 24, 1944                      | 32.80       | Dec. 27, 1965                            | 50.46       |
| Jan. 22, 1969                      | 93.66       | July 25, 1944                      | 32.80       | Jan. 10, 1967                            | 48.90       |
| June 19, 1969                      | 102.95      | Sept. 26, 1944                     | 32.80       | Jan. 3, 1968                             | 66.03       |
| Jan. 21, 1970                      | 100.36      | Nov. 20, 1944                      | 29.60       | Jan. 22, 1969                            | 65.51       |
| June 23, 1970                      | 69.95       | Dec. 27, 1944                      | 31.80       | Dec. 9, 1969                             | 65.56       |
| Jan. 1971                          | 102.35      | Jan. 22, 1945                      | 36.90       | Jan. 1971                                | 73.29       |
| June 18, 1971                      | 73.83       | Oct. 23, 1945                      | 26.70       | Jan. 1972                                | 79.79       |
| Jan. 17, 1974                      | 107.52      | Nov. 26, 1945                      | 29.00       | Jan. 17, 1973                            | 85.10       |
| June 4, 1974                       | 89.12       | May 1946                           | 59.82       | Jan. 18, 1974                            | 89.95       |
| Dec. 15, 1975                      | 97.25       | June 1946                          | 40.84       | Jan. 16, 1975                            | 89.63       |
| <b>Well JL-49-13-704</b>           |             | July 29, 1946                      | 36.50       | Dec. 15, 1975                            | 83.88       |
| Owner: City of El Paso             |             | Aug. 29, 1946                      | 39.70       | Dec. 14, 1976                            | 89.07       |
| July 7, 1937                       | 30.10       | Oct. 30, 1946                      | 30.70       | <b>Well JL-49-13-705</b>                 |             |
| Sept. 8, 1938                      | 32.50       | Dec. 17, 1946                      | 28.70       | Owner: Southern Pacific Railroad Company |             |
| May 16, 1939                       | 35.40       | Mar. 15, 1947                      | 31.50       | — 1941                                   | 44.00       |
| Nov. 20, 1939                      | 25.80       | June 24, 1947                      | 37.50       | Oct. 25, 1965                            | 57.89       |
| Dec. 7, 1939                       | 27.50       | Aug. 26, 1947                      | 31.90       | Dec. 27, 1967                            | 106.01      |
| Jan. 29, 1940                      | 25.10       | Sept. 30, 1947                     | 31.30       | June 23, 1976                            | 101.60      |
| Feb. 21, 1940                      | 29.40       | Dec. 17, 1947                      | 25.80       | <b>Well JL-49-13-708</b>                 |             |
| Mar. 14, 1940                      | 31.40       | Jan. 30, 1948                      | 28.70       | Owner: City of El Paso                   |             |
| Apr. 16, 1940                      | 34.30       | June 16, 1948                      | 34.10       | Apr. 23, 1933                            | 8.00        |
| May 22, 1940                       | 40.00       | Oct. 26, 1948                      | 27.20       | Feb. 2, 1938                             | 9.77        |
| June 20, 1940                      | 41.80       | Dec. 29, 1948                      | 24.70       | Apr. 16, 1938                            | 9.60        |
| Aug. 12, 1940                      | 36.20       | July 11, 1949                      | 66.53       |  |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-708—Continued</b> |             | <b>Well JL-49-13-708—Continued</b> |             | <b>Well JL-49-13-708—Continued</b> |             |
| May 20, 1938                       | 9.30        | Jan. 21, 1942                      | 10.10       | Aug. 27, 1945                      | 17.70       |
| July 17, 1938                      | 12.40       | Mar. 12, 1942                      | 11.00       | Sept. 27, 1945                     | 16.00       |
| Aug. 17, 1938                      | 11.10       | Apr. 13, 1942                      | 12.60       | Nov. 27, 1945                      | 14.50       |
| Sept. 15, 1938                     | 10.20       | May 19, 1942                       | 10.80       | Jan. 16, 1946                      | 13.90       |
| Oct. 24, 1938                      | 9.80        | June 16, 1942                      | 12.20       | Feb. 1946                          | 25.25       |
| Nov. 18, 1938                      | 9.80        | July 21, 1942                      | 11.00       | May 28, 1946                       | 16.70       |
| Jan. 24, 1939                      | 24.90       | Aug. 24, 1942                      | 10.60       | June 26, 1946                      | 15.80       |
| Feb. 20, 1939                      | 10.30       | Sept. 21, 1942                     | 10.40       | July 29, 1946                      | 17.90       |
| Mar. 21, 1939                      | 11.70       | Oct. 20, 1942                      | 10.40       | Nov. 26, 1946                      | 17.40       |
| June 16, 1939                      | 12.30       | Nov. 20, 1942                      | 10.50       | Jan. 15, 1947                      | 16.60       |
| July 15, 1939                      | 11.20       | Dec. 23, 1942                      | 11.00       | Feb. 26, 1947                      | 15.40       |
| Aug. 16, 1939                      | 10.80       | Jan. 18, 1943                      | 10.80       | Mar. 25, 1947                      | 17.00       |
| Oct. 11, 1939                      | 10.00       | Mar. 25, 1943                      | 12.50       | Apr. 25, 1947                      | 18.00       |
| Nov. 20, 1939                      | 10.00       | Apr. 27, 1943                      | 12.70       | June 24, 1947                      | 20.60       |
| Dec. 11, 1939                      | 10.00       | May 19, 1943                       | 12.10       | Sept. 30, 1947                     | 19.90       |
| Jan. 29, 1940                      | 10.00       | June 15, 1943                      | 11.70       | Dec. 1947                          | 24.35       |
| Feb. 21, 1940                      | 9.90        | July 27, 1943                      | 14.30       | Jan. 30, 1948                      | 20.40       |
| Mar. 17, 1940                      | 11.90       | Aug. 20, 1943                      | 15.30       | June 29, 1948                      | 20.90       |
| Apr. 15, 1940                      | 12.20       | Sept. 27, 1943                     | 14.50       | Aug. 31, 1948                      | 21.20       |
| May 25, 1940                       | 12.20       | Oct. 18, 1943                      | 13.50       | Jan. 24, 1952                      | 17.12       |
| June 14, 1940                      | 15.00       | Feb. 12, 1944                      | 13.20       | Jan. 6, 1953                       | 15.67       |
| June 26, 1940                      | 14.93       | Mar. 28, 1944                      | 14.30       | Jan. 5, 1954                       | 18.17       |
| July 16, 1940                      | 12.60       | Apr. 24, 1944                      | 13.80       | Jan. 27, 1955                      | 26.31       |
| Aug. 8, 1940                       | 11.80       | May 24, 1944                       | 15.90       | June 8, 1955                       | 33.67       |
| Sept. 17, 1940                     | 11.30       | June 21, 1944                      | 17.90       | Sept. 19, 1955                     | 30.97       |
| Oct. 15, 1940                      | 11.30       | July 21, 1944                      | 17.90       | Jan. 26, 1956                      | 31.77       |
| Nov. 18, 1940                      | 11.40       | Aug. 23, 1944                      | 16.40       | Apr. 27, 1956                      | 32.87       |
| Dec. 11, 1940                      | 11.90       | Sept. 23, 1944                     | 14.90       | June 25, 1956                      | 34.61       |
| Jan. 11, 1941                      | 11.20       | Oct. 23, 1944                      | 14.50       | Jan. 18, 1957                      | 39.15       |
| Feb. 11, 1941                      | 11.00       | Nov. 20, 1944                      | 14.20       | Jan. 16, 1958                      | 42.14       |
| Mar. 13, 1941                      | 11.60       | Dec. 27, 1944                      | 13.70       | Jan. 23, 1959                      | 30.73       |
| June 16, 1941                      | 10.20       | Jan. 27, 1945                      | 14.00       | Jan. 8, 1960                       | 26.18       |
| July 11, 1941                      | 10.20       | Feb. 26, 1945                      | 16.00       | Jan. 5, 1961                       | 24.85       |
| Aug. 20, 1941                      | 10.60       | Apr. 23, 1945                      | 14.80       | Jan. 23, 1962                      | 25.61       |
| Sept. 17, 1941                     | 10.10       | May 22, 1945                       | 16.20       | Jan. 4, 1963                       | 23.79       |
| Oct. 21, 1941                      | 9.80        | June 25, 1945                      | 17.90       | Apr. 8, 1963                       | 25.54       |
| Nov. 17, 1941                      | 9.80        | July 23, 1945                      | 17.50       | Dec. 31, 1963                      | 24.17       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|------------------------------------|-------------|--|-------------|--|-------------|
| <b>Well JL-49-13-708—Continued</b> |             | <b>Well JL-49-13-711—Continued</b>                 |             | <b>Well JL-49-13-713—Continued</b>                 |             |
| Dec. 30, 1964                      | 30.48       | June 3, 1974                                       | 87.35       | Oct. 22, 1970                                      | 38.79       |
| Dec. 27, 1965                      | 29.80       | June 23, 1976                                      | 103.28      | Feb. 3, 1971                                       | 43.11       |
| Jan. 10, 1967                      | 30.19       |  |             | Apr. 9, 1971                                       | 43.75       |
| July 17, 1967                      | 33.10       | <b>Well JL-49-13-712</b>                           |             | July 1, 1971                                       | 42.25       |
| Nov. 2, 1967                       | 25.08       | Owner: International Boundary and Water Commission |             | Oct. 13, 1971                                      | 42.44       |
| Dec. 28, 1967                      | 25.93       | July 20, 1967                                      | 18.96       | <b>Well JL-49-13-714</b>                           |             |
| <b>Well JL-49-13-710</b>           |             | July 22, 1967                                      | 17.50       | Owner: International Boundary and Water Commission |             |
| Owner: City of El Paso             |             | Aug. 18, 1967                                      | 17.23       | July 19, 1967                                      | 26.21       |
| Apr. 9, 1968                       | 43.20       | Sept. 13, 1967                                     | 17.20       | July 21, 1967                                      | 25.09       |
| Apr. 30, 1968                      | 43.12       | Sept. 19, 1967                                     | 17.00       | Aug. 22, 1967                                      | 24.94       |
| Jan. 22, 1969                      | 134.43      | Sept. 22, 1967                                     | 17.00       | Sept. 13, 1967                                     | 24.81       |
| Jan. 21, 1970                      | 104.89      | Oct. 16, 1967                                      | 17.58       | Oct. 16, 1967                                      | 25.09       |
| Jan. 1971                          | 152.50      | Nov. 17, 1967                                      | 17.78       | Nov. 17, 1967                                      | 25.31       |
| Jan. 1973                          | 159.92      | Dec. 26, 1967                                      | 17.56       | Dec. 26, 1967                                      | 25.39       |
| Dec. 13, 1976                      | 119.36      | Mar. 5, 1968                                       | 17.77       | Mar. 5, 1968                                       | 25.88       |
| <b>Well JL-49-13-711</b>           |             | July 18, 1968                                      | 17.36       | July 18, 1968                                      | 26.38       |
| Owner: City of El Paso             |             | <b>Well JL-49-13-713</b>                           |             | Oct. 18, 1968                                      | 25.79       |
| Jan. 27, 1955                      | 35.37       | Owner: International Boundary and Water Commission |             | Feb. 5, 1969                                       | 27.55       |
| Jan. 26, 1956                      | 42.02       | July 20, 1967                                      | 26.99       | Apr. 1, 1969                                       | 28.99       |
| July 1, 1963                       | 34.61       | July 22, 1967                                      | 25.93       | July 9, 1969                                       | 31.65       |
| Dec. 31, 1963                      | 36.17       | Aug. 21, 1967                                      | 25.34       | Oct. 28, 1969                                      | 33.37       |
| July 2, 1964                       | 41.13       | Sept. 13, 1967                                     | 25.11       | Jan. 26, 1970                                      | 38.69       |
| Dec. 30, 1964                      | 41.83       | Oct. 16, 1967                                      | 25.58       | Apr. 9, 1970                                       | 37.75       |
| July 24, 1965                      | 42.05       | Nov. 17, 1967                                      | 26.10       | <b>Well JL-49-13-715</b>                           |             |
| Dec. 27, 1965                      | 40.56       | Dec. 26, 1967                                      | 26.57       | Owner: International Boundary and Water Commission |             |
| July 8, 1966                       | 36.35       | Mar. 5, 1968                                       | 28.06       | July 19, 1967                                      | 29.08       |
| Mar. 5, 1968                       | 36.00       | July 18, 1968                                      | 25.65       | July 22, 1967                                      | 21.37       |
| Apr. 30, 1968                      | 35.40       | Oct. 18, 1968                                      | 25.70       | July 24, 1967                                      | 21.34       |
| Jan. 22, 1969                      | 160.69      | Feb. 5, 1969                                       | 29.86       | Aug. 18, 1967                                      | 21.31       |
| June 19, 1969                      | 155.27      | Apr. 1, 1969                                       | 32.20       | Sept. 13, 1967                                     | 21.21       |
| Jan. 21, 1970                      | 157.50      | July 9, 1969                                       | 33.44       | Oct. 16, 1967                                      | 21.28       |
| June 23, 1970                      | 52.70       | Oct. 28, 1969                                      | 33.86       | Nov. 17, 1967                                      | 21.34       |
| Jan. 1971                          | 169.86      | Jan. 26, 1970                                      | 38.31       | Dec. 26, 1967                                      | 21.37       |
| June 17, 1971                      | 60.87       | Apr. 9, 1970                                       | 40.81       | Mar. 5, 1968                                       | 21.59       |
| Jan. 18, 1974                      | 180.59      | July 14, 1970                                      | 39.33       |  |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-715—Continued</b> |             | <b>Well JL-49-13-801—Continued</b> |             | <b>Well JL-49-13-801—Continued</b> |             |
| July 18, 1968                      | 21.65       | Nov. 9, 1936                       | 24.40       | Sept. 21, 1942                     | 33.40       |
| Oct. 18, 1968                      | 21.39       | Dec. 14, 1936                      | 23.30       | Oct. 20, 1942                      | 32.40       |
| Feb. 5, 1969                       | 22.36       | Jan. 18, 1937                      | 23.30       | Dec. 23, 1942                      | 28.10       |
| Apr. 1, 1969                       | 22.69       | Feb. 22, 1937                      | 25.00       | Jan. 18, 1943                      | 29.80       |
| July 9, 1969                       | 23.80       | Mar. 16, 1937                      | 25.20       | Sept. 27, 1943                     | 37.00       |
| Oct. 28, 1969                      | 24.57       | Aug. 23, 1937                      | 36.30       | Oct. 18, 1943                      | 40.00       |
| Jan. 26, 1970                      | 25.76       | Sept. 15, 1937                     | 33.70       | Nov. 22, 1943                      | 29.50       |
| Apr. 9, 1970                       | 27.46       | Oct. 13, 1937                      | 31.90       | Apr. 24, 1944                      | 31.40       |
| July 14, 1970                      | 27.58       | Nov. 16, 1937                      | 31.00       | July 19, 1944                      | 35.50       |
| Oct. 22, 1970                      | 28.43       | Dec. 20, 1937                      | 31.00       | Sept. 27, 1944                     | 30.20       |
| Feb. 3, 1971                       | 29.77       | Jan. 14, 1938                      | 30.10       | Nov. 20, 1944                      | 30.00       |
| Apr. 9, 1971                       | 30.66       | Feb. 14, 1938                      | 30.30       | Dec. 26, 1944                      | 28.60       |
| July 12, 1971                      | 31.47       | Mar. 15, 1938                      | 28.80       | Mar. 29, 1945                      | 30.50       |
| Jan. 21, 1972                      | 33.70       | Apr. 15, 1938                      | 32.00       | Oct. 23, 1945                      | 26.20       |
| Apr. 28, 1972                      | 35.13       | May 16, 1938                       | 34.30       | Nov. 26, 1945                      | 24.40       |
| June 29, 1972                      | 36.10       | July 13, 1938                      | 33.60       | Aug. 29, 1946                      | 40.60       |
| Sept. 14, 1972                     | 37.14       | Dec. 14, 1938                      | 30.30       | Oct. 30, 1946                      | 30.50       |
| Jan. 25, 1973                      | 38.62       | Jan. 24, 1939                      | 30.20       | Dec. 17, 1946                      | 27.90       |
| Jan. 1974                          | 41.55       | Feb. 1, 1939                       | 35.20       | Mar. 25, 1947                      | 29.80       |
| Oct. 1, 1974                       | 43.21       | Mar. 14, 1939                      | 28.40       | Apr. 25, 1947                      | 30.40       |
| Dec. 9, 1974                       | 43.48       | July 17, 1939                      | 38.60       | Aug. 26, 1947                      | 31.70       |
| July 2, 1975                       | 44.23       | Aug. 14, 1939                      | 37.60       | Sept. 30, 1947                     | 30.20       |
| <b>Well JL-49-13-801</b>           |             | Oct. 11, 1939                      | 35.90       | Dec. 17, 1947                      | 24.50       |
| Owner: City of El Paso             |             | Nov. 20, 1939                      | 28.20       | Jan. 19, 1948                      | 34.00       |
| — 1932                             | 25.00       | Dec. 30, 1939                      | 25.90       | Oct. 26, 1948                      | 26.00       |
| Dec. 22, 1934                      | 21.10       | Jan. 29, 1940                      | 25.40       | Dec. 29, 1948                      | 23.20       |
| Sept. 11, 1935                     | 24.90       | Feb. 21, 1940                      | 28.60       | Apr. 27, 1950                      | 34.40       |
| Nov. 6, 1935                       | 23.90       | Mar. 14, 1940                      | 31.10       | Oct. 26, 1950                      | 28.80       |
| Dec. 11, 1935                      | 23.60       | Apr. 15, 1940                      | 34.20       | Jan. 4, 1951                       | 22.60       |
| Jan. 13, 1936                      | 24.00       | June 17, 1940                      | 45.30       | July 26, 1951                      | 42.70       |
| Feb. 13, 1936                      | 24.40       | July 23, 1940                      | 37.30       | Oct. 23, 1951                      | 34.40       |
| Mar. 16, 1936                      | 25.90       | Aug. 14, 1940                      | 35.60       | Jan. 14, 1952                      | 27.00       |
| Apr. 8, 1936                       | 24.60       | Apr. 13, 1942                      | 33.10       | June 3, 1952                       | 39.80       |
| Aug. 17, 1936                      | 25.40       | June 16, 1942                      | 38.30       | Jan. 6, 1953                       | 35.80       |
| Sept. 14, 1936                     | 22.80       | July 21, 1942                      | 44.20       | June 3, 1953                       | 14.15       |
| Oct. 19, 1936                      | 22.70       | Aug. 24, 1942                      | 35.00       | Jan. 5, 1954                       | 28.23       |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                     | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|--------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-801—Continued</b> |             | <b>Well JL-49-13-804</b> |             | <b>Well JL-49-13-804—Continued</b> |             |
| June 8, 1955                       | 74.00       | Owner: City of El Paso   |             | Mar. 28, 1944                      | 73.60       |
| Jan. 17, 1957                      | 46.15       | Jan. 18, 1924            | 82.00       | Apr. 24, 1944                      | 72.80       |
| Jan. 16, 1958                      | 57.71       | Nov. 19, 1934            | 80.80       | May 24, 1944                       | 74.90       |
| Jan. 17, 1958                      | 53.89       | Aug. 19, 1935            | 81.20       | June 21, 1944                      | 80.60       |
| Jan. 9, 1959                       | 42.93       | May 6, 1937              | 84.40       | July 21, 1944                      | 79.40       |
| Jan. 8, 1960                       | 38.55       | Oct. 13, 1937            | 78.50       | Aug. 31, 1944                      | 75.50       |
| July 22, 1960                      | 46.53       | Sept. 21, 1938           | 77.90       | Sept. 26, 1944                     | 71.90       |
| Jan. 5, 1961                       | 38.87       | Nov. 21, 1938            | 70.00       | Oct. 23, 1944                      | 76.90       |
| July 5, 1961                       | 50.98       | Mar. 14, 1939            | 73.00       | Nov. 20, 1944                      | 71.00       |
| Jan. 23, 1962                      | 39.03       | Apr. 18, 1939            | 76.80       | Dec. 20, 1944                      | 71.00       |
| July 2, 1962                       | 51.34       | Sept. 26, 1939           | 78.00       | Jan. 23, 1945                      | 73.90       |
| Dec. 31, 1962                      | 42.22       | Oct. 14, 1939            | 75.10       | Feb. 26, 1945                      | 75.40       |
| July 1, 1963                       | 56.33       | Nov. 21, 1939            | 69.40       | Mar. 29, 1945                      | 71.40       |
| Dec. 31, 1963                      | 46.93       | Dec. 15, 1939            | 75.40       | Apr. 24, 1945                      | 72.40       |
| July 2, 1964                       | 65.83       | Nov. 19, 1940            | 73.60       | Aug. 27, 1945                      | 82.80       |
| July 24, 1965                      | 68.22       | Dec. 11, 1940            | 72.50       | Sept. 29, 1945                     | 84.00       |
| Dec. 28, 1965                      | 51.64       | Jan. 14, 1941            | 73.30       | Oct. 23, 1945                      | 71.60       |
| July 8, 1966                       | 57.77       | Feb. 10, 1941            | 73.70       | Nov. 27, 1945                      | 68.20       |
| Jan. 10, 1967                      | 50.38       | Mar. 10, 1941            | 78.90       | Dec. 26, 1945                      | 72.10       |
| July 6, 1967                       | 58.33       | Sept. 17, 1941           | 80.40       | Jan. 24, 1946                      | 75.40       |
| Dec. 27, 1967                      | 62.35       | Oct. 22, 1941            | 74.30       | Feb. 26, 1946                      | 76.30       |
| July 16, 1968                      | 72.40       | Nov. 18, 1941            | 73.30       | Nov. 25, 1946                      | 73.30       |
| Jan. 22, 1969                      | 63.59       | Jan. 21, 1942            | 73.20       | Dec. 17, 1946                      | 71.60       |
| June 19, 1969                      | 76.41       | Mar. 12, 1942            | 71.70       | Jan. 13, 1947                      | 72.80       |
| Dec. 9, 1969                       | 67.08       | Apr. 14, 1942            | 72.80       | Feb. 25, 1947                      | 75.60       |
| June 23, 1970                      | 72.20       | Sept. 22, 1942           | 74.90       | Mar. 24, 1947                      | 71.30       |
| Jan. 1971                          | 72.08       | Oct. 20, 1942            | 72.50       | Dec. 17, 1947                      | 69.20       |
| June 18, 1971                      | 74.89       | Nov. 21, 1972            | 71.70       | Jan. 9, 1948                       | 71.80       |
| Jan. 1972                          | 78.31       | Dec. 23, 1942            | 70.80       | Mar. 18, 1948                      | 69.30       |
| Jan. 1973                          | 83.46       | Jan. 19, 1943            | 70.50       | Nov. 3, 1948                       | 70.70       |
| Jan. 18, 1974                      | 88.70       | Mar. 23, 1943            | 76.10       | Dec. 20, 1948                      | 69.80       |
| June 4, 1974                       | 89.86       | Sept. 27, 1943           | 78.90       | Oct. 26, 1950                      | 74.50       |
| Jan. 16, 1975                      | 88.54       | Oct. 20, 1943            | 76.10       | Feb. 22, 1951                      | 71.80       |
| June 23, 1976                      | 98.70       | Nov. 23, 1943            | 71.60       | Jan. 14, 1952                      | 72.50       |
| Dec. 14, 1976                      | 99.78       | Feb. 23, 1944            | 73.90       | Mar. 12, 1952                      | 70.70       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-804—Continued</b> |             | <b>Well JL-49-13-804—Continued</b> |             | <b>Well JL-49-13-806—Continued</b> |             |
| Dec. 17, 1952                      | 49.50       | Jan. 17, 1973                      | 120.60      | Nov. 20, 1942                      | 28.10       |
| Jan. 28, 1953                      | 33.10       | Jan. 18, 1974                      | 124.61      | Dec. 23, 1942                      | 27.40       |
| Feb. 11, 1953                      | 29.30       | May 4, 1974                        | 133.32      | Jan. 17, 1943                      | 26.90       |
| Mar. 2, 1953                       | 26.70       | Jan. 16, 1975                      | 125.38      | Mar. 23, 1943                      | 31.80       |
| Jan. 5, 1954                       | 74.80       | Dec. 15, 1975                      | 130.99      | Sept. 27, 1943                     | 34.30       |
| Jan. 27, 1955                      | 89.43       | June 24, 1976                      | 138.98      | Oct. 18, 1943                      | 33.50       |
| June 8, 1955                       | 151.80      | Dec. 14, 1976                      | 135.34      | Nov. 22, 1943                      | 28.60       |
| Jan. 27, 1956                      | 93.23       |                                    |             | Feb. 11, 1944                      | 33.00       |
| Jan. 16, 1957                      | 88.15       | <b>Well JL-49-13-806</b>           |             | Mar. 22, 1944                      | 30.40       |
| Jan. 9, 1959                       | 87.04       | Owner: City of El Paso             |             | Apr. 24, 1944                      | 31.40       |
| Jan. 20, 1959                      | 97.68       | Feb. 28, 1940                      | 32.20       | May 24, 1944                       | 35.00       |
| June 16, 1959                      | 144.23      | Mar. 1, 1940                       | 47.30       | July 19, 1944                      | 32.90       |
| Jan. 7, 1960                       | 85.30       | Apr. 10, 1940                      | 37.30       | Sept. 26, 1944                     | 27.60       |
| July 19, 1960                      | 97.40       | May 24, 1940                       | 36.30       | Oct. 23, 1944                      | 32.90       |
| Jan. 6, 1961                       | 85.20       | June 25, 1940                      | 36.40       | Dec. 20, 1944                      | 25.90       |
| July 5, 1961                       | 147.85      | July 16, 1940                      | 38.10       | Jan. 22, 1945                      | 31.40       |
| Jan. 26, 1962                      | 86.55       | Aug. 14, 1940                      | 36.10       | Feb. 26, 1945                      | 32.00       |
| July 2, 1962                       | 147.87      | Sept. 11, 1940                     | 39.30       | Mar. 29, 1945                      | 28.50       |
| Dec. 31, 1962                      | 89.28       | Oct. 16, 1940                      | 34.50       | Apr. 23, 1945                      | 30.20       |
| July 1, 1963                       | 148.60      | Nov. 18, 1940                      | 30.60       | May 24, 1945                       | 38.60       |
| Dec. 31, 1963                      | 93.48       | Dec. 11, 1940                      | 29.40       | June 23, 1945                      | 39.90       |
| Mar. 27, 1964                      | 96.42       | Jan. 22, 1941                      | 29.70       | Aug. 25, 1945                      | 36.60       |
| July 2, 1964                       | 148.72      | Feb. 10, 1941                      | 30.50       | Oct. 23, 1945                      | 26.20       |
| July 27, 1965                      | 146.88      | Mar. 11, 1941                      | 33.40       | Nov. 26, 1945                      | 23.80       |
| Dec. 20, 1965                      | 98.33       | Apr. 16, 1941                      | 36.40       | Dec. 27, 1945                      | 29.70       |
| July 8, 1966                       | 107.10      | Aug. 18, 1941                      | 39.90       | Jan. 16, 1946                      | 33.40       |
| Jan. 10, 1967                      | 96.90       | Sept. 17, 1941                     | 35.20       | Feb. 26, 1946                      | 34.70       |
| July 6, 1967                       | 107.80      | Oct. 21, 1941                      | 30.40       | May 28, 1946                       | 35.40       |
| Dec. 27, 1967                      | 104.40      | Nov. 17, 1941                      | 29.80       | July 29, 1946                      | 39.10       |
| July 16, 1968                      | 116.82      | Jan. 21, 1942                      | 29.90       | Aug. 29, 1946                      | 41.30       |
| Jan. 16, 1969                      | 104.84      | Mar. 12, 1942                      | 28.10       | Sept. 25, 1946                     | 39.20       |
| June 19, 1969                      | 119.64      | Apr. 13, 1942                      | 29.40       | Oct. 30, 1946                      | 33.50       |
| Jan. 21, 1970                      | 112.18      | June 16, 1942                      | 41.90       | Nov. 26, 1946                      | 31.70       |
| June 23, 1970                      | 119.38      | July 21, 1942                      | 40.80       | Dec. 17, 1946                      | 27.80       |
| Jan. 1971                          | 110.17      | Aug. 24, 1942                      | 34.40       | Jan. 14, 1947                      | 31.20       |
| June 18, 1971                      | 120.41      | Sept. 22, 1942                     | 30.60       | Feb. 26, 1947                      | 33.40       |
| Jan. 1972                          | 116.44      | Oct. 20, 1942                      | 28.70       | Mar. 25, 1947                      | 28.30       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-806—Continued</b> |             | <b>Well JL-49-13-806—Continued</b> |             | <b>Well JL-49-13-807—Continued</b> |             |
| June 24, 1947                      | 35.60       | Dec. 31, 1962                      | 43.24       | May 13, 1937                       | 152.70      |
| July 28, 1947                      | 38.60       | Dec. 31, 1963                      | 46.92       | June 14, 1937                      | 154.00      |
| Aug. 26, 1947                      | 34.20       | Dec. 30, 1964                      | 58.80       | July 6, 1937                       | 145.40      |
| Sept. 30, 1947                     | 31.20       | Mar. 16, 1965                      | 63.02       | Aug. 12, 1937                      | 156.60      |
| Dec. 17, 1947                      | 25.20       | Dec. 20, 1965                      | 52.30       | Sept. 15, 1937                     | 145.80      |
| Jan. 9, 1948                       | 28.10       | Jan. 10, 1967                      | 51.20       | Oct. 15, 1937                      | 140.70      |
| Mar. 18, 1948                      | 25.10       | Jan. 17, 1968                      | 59.02       | Nov. 15, 1937                      | 142.70      |
| Oct. 26, 1948                      | 26.80       | Jan. 16, 1969                      | 59.99       | Dec. 23, 1937                      | 139.40      |
| Dec. 20, 1948                      | 25.80       | Jan. 21, 1970                      | 67.46       | Jan. 14, 1938                      | 138.20      |
| May 24, 1949                       | 24.60       | Jan. 1971                          | 66.40       | Feb. 14, 1938                      | 141.40      |
| Feb. 10, 1950                      | 37.80       | Jan. 1972                          | 72.93       | Mar. 15, 1938                      | 139.20      |
| Apr. 27, 1950                      | 35.80       | Jan. 17, 1973                      | 77.22       | Apr. 16, 1938                      | 143.20      |
| Oct. 31, 1950                      | 28.50       | Jan. 18, 1974                      | 81.30       | May 16, 1938                       | 154.50      |
| Nov. 22, 1950                      | 26.80       | Jan. 16, 1975                      | 81.67       | June 14, 1938                      | 149.80      |
| Apr. 23, 1951                      | 36.40       | Dec. 15, 1975                      | 87.57       | July 13, 1938                      | 145.20      |
| Oct. 23, 1951                      | 35.01       | Dec. 9, 1976                       | 92.26       | Aug. 16, 1938                      | 147.10      |
| Jan. 11, 1952                      | 27.89       |                                    |             | Sept. 21, 1938                     | 140.50      |
| Jan. 12, 1952                      | 27.88       | <b>Well JL-49-13-807</b>           |             | Oct. 19, 1938                      | 141.00      |
| Jan. 13, 1952                      | 28.04       | Owner: Loretto College             |             | Nov. 21, 1938                      | 135.90      |
| Jan. 17, 1952                      | 28.30       | Nov. 11, 1935                      | 145.80      | Dec. 14, 1938                      | 137.70      |
| Mar. 11, 1952                      | 25.87       | Dec. 12, 1935                      | 145.40      | Jan. 25, 1939                      | 137.90      |
| Mar. 12, 1952                      | 26.14       | Jan. 14, 1936                      | 145.70      | Feb. 20, 1939                      | 138.60      |
| Mar. 13, 1952                      | 26.34       | Feb. 13, 1936                      | 146.40      | Mar. 14, 1939                      | 137.20      |
| Mar. 19, 1952                      | 29.31       | Mar. 16, 1936                      | 147.70      | Apr. 18, 1939                      | 139.90      |
| June 3, 1952                       | 39.28       | Apr. 18, 1936                      | 147.00      | May 16, 1939                       | 144.70      |
| June 23, 1952                      | 33.40       | May 14, 1936                       | 148.40      | June 19, 1939                      | 147.80      |
| Jan. 5, 1953                       | 25.80       | June 12, 1936                      | 150.20      | July 17, 1939                      | 148.80      |
| Jan. 6, 1953                       | 25.79       | July 14, 1936                      | 146.90      | Aug. 15, 1939                      | 147.10      |
| Jan. 5, 1954                       | 29.87       | Aug. 17, 1936                      | 150.00      | Oct. 14, 1939                      | 138.70      |
| June 8, 1955                       | 74.90       | Sept. 14, 1936                     | 147.30      | Nov. 21, 1939                      | 134.40      |
| Jan. 27, 1956                      | 47.93       | Oct. 20, 1936                      | 146.90      | Dec. 30, 1939                      | 136.30      |
| Jan. 17, 1957                      | 44.22       | Nov. 9, 1936                       | 137.50      | Jan. 30, 1940                      | 137.20      |
| Jan. 15, 1958                      | 52.61       | Dec. 19, 1936                      | 135.20      | Feb. 23, 1940                      | 139.40      |
| Jan. 9, 1959                       | 42.76       | Jan. 19, 1937                      | 145.20      | Mar. 18, 1940                      | 143.30      |
| Jan. 8, 1960                       | 41.14       | Feb. 22, 1937                      | 147.00      | Apr. 16, 1940                      | 146.30      |
| Jan. 5, 1961                       | 40.00       | Mar. 16, 1937                      | 146.70      | May 22, 1940                       | 146.40      |
| Jan. 23, 1962                      | 41.07       | Apr. 15, 1937                      | 147.30      | June 24, 1940                      | 148.50      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                        | WATER LEVEL | DATE                        | WATER LEVEL | DATE                        | WATER LEVEL |
|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Well JL-49-13-807—Continued |             | Well JL-49-13-807—Continued |             | Well JL-49-13-807—Continued |             |
| July 17, 1940               | 148.70      | Mar. 28, 1944               | 138.90      | Jan. 9, 1948                | 135.30      |
| Aug. 20, 1940               | 147.30      | Apr. 24, 1944               | 139.70      | Feb. 6, 1948                | 134.60      |
| Sept. 17, 1940              | 148.10      | May 24, 1944                | 140.50      | Mar. 18, 1948               | 133.30      |
| Oct. 17, 1940               | 141.90      | June 22, 1944               | 145.80      | June 28, 1948               | 148.70      |
| Nov. 19, 1940               | 137.10      | July 19, 1944               | 145.70      | Aug. 27, 1948               | 147.60      |
| Dec. 16, 1940               | 135.70      | Aug. 30, 1944               | 140.30      | Sept. 27, 1948              | 142.80      |
| Jan. 14, 1941               | 136.50      | Sept. 26, 1944              | 137.20      | Oct. 26, 1948               | 136.10      |
| Feb. 10, 1941               | 137.40      | Oct. 23, 1944               | 141.40      | Dec. 29, 1948               | 131.50      |
| Mar. 10, 1941               | 142.60      | Nov. 20, 1944               | 136.80      | Mar. 25, 1949               | 136.40      |
| Apr. 16, 1941               | 147.00      | Dec. 21, 1944               | 135.80      | Apr. 3, 1949                | 136.30      |
| June 18, 1941               | 152.10      | Jan. 23, 1945               | 138.20      | June 30, 1949               | 149.70      |
| July 10, 1941               | 148.10      | Feb. 26, 1945               | 139.60      | July 1, 1949                | 151.90      |
| Aug. 18, 1941               | 148.10      | Mar. 28, 1945               | 136.40      | June 22, 1950               | 150.60      |
| Sept. 17, 1941              | 144.20      | Apr. 24, 1945               | 137.90      | Sept. 19, 1950              | 146.20      |
| Oct. 22, 1941               | 139.70      | May 31, 1945                | 150.60      | Oct. 31, 1950               | 138.50      |
| Nov. 18, 1941               | 138.40      | June 23, 1945               | 151.50      | Nov. 30, 1950               | 134.10      |
| Jan. 21, 1942               | 138.00      | July 27, 1945               | 151.60      | Dec. 31, 1950               | 131.40      |
| Mar. 12, 1942               | 137.00      | Sept. 29, 1945              | 147.60      | Jan. 18, 1951               | 130.80      |
| Apr. 14, 1942               | 139.90      | Oct. 23, 1945               | 147.00      | Feb. 5, 1951                | 131.20      |
| May 19, 1942                | 143.80      | Nov. 27, 1945               | 134.00      | Mar. 1, 1951                | 133.90      |
| June 17, 1942               | 152.30      | Jan. 24, 1946               | 138.60      | Apr. 2, 1951                | 142.80      |
| July 22, 1942               | 151.40      | Feb. 1946                   | 143.31      | May 1, 1951                 | 145.30      |
| Aug. 24, 1942               | 144.50      | May 28, 1946                | 143.40      | July 29, 1951               | 151.60      |
| Sept. 22, 1942              | 140.40      | June 27, 1946               | 150.90      | Jan. 9, 1952                | 133.80      |
| Oct. 20, 1942               | 138.50      | July 29, 1946               | 148.10      | Mar. 14, 1952               | 135.30      |
| Nov. 21, 1942               | 138.80      | Aug. 29, 1946               | 150.70      | Apr. 28, 1952               | 144.30      |
| Dec. 23, 1942               | 137.90      | Sept. 26, 1946              | 149.20      | May 1, 1952                 | 146.00      |
| Jan. 19, 1943               | 137.10      | Oct. 29, 1946               | 145.30      | June 4, 1952                | 148.20      |
| Mar. 23, 1943               | 141.70      | Nov. 25, 1946               | 137.60      | July 13, 1952               | 149.50      |
| Apr. 26, 1943               | 150.20      | Dec. 17, 1946               | 136.40      | Aug. 1, 1952                | 152.20      |
| June 17, 1943               | 152.70      | Jan. 13, 1947               | 136.80      | Sept. 27, 1952              | 149.40      |
| July 21, 1943               | 152.30      | Feb. 25, 1947               | 139.30      | Oct. 31, 1952               | 145.30      |
| Aug. 26, 1943               | 152.70      | Mar. 25, 1947               | 135.80      | Nov. 30, 1952               | 139.30      |
| Sept. 27, 1943              | 144.80      | June 23, 1947               | 143.60      | Dec. 31, 1952               | 135.40      |
| Oct. 20, 1943               | 141.80      | Aug. 29, 1947               | 146.30      | Jan. 5, 1953                | 134.50      |
| Nov. 23, 1943               | 138.50      | Sept. 29, 1947              | 141.70      | Feb. 5, 1953                | 134.90      |
| Feb. 23, 1944               | 138.20      | Dec. 17, 1947               | 132.80      | Mar. 5, 1953                | 134.40      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-807—Continued</b> |             | <b>Well JL-49-13-807—Continued</b> |             | <b>Well JL-49-13-808—Continued</b> |             |
| Apr. 1, 1953                       | 138.80      | July 27, 1965                      | 181.35      | Sept. 22, 1942                     | 22.00       |
| May 8, 1953                        | 142.40      | Dec. 27, 1965                      | 159.10      | Oct. 20, 1942                      | 20.70       |
| June 1, 1953                       | 150.70      | July 8, 1966                       | 169.52      | Nov. 20, 1942                      | 20.32       |
| July 1, 1953                       | 155.90      | Jan. 10, 1967                      | 158.95      | Dec. 23, 1942                      | 19.87       |
| Aug. 23, 1953                      | 153.80      | July 6, 1967                       | 170.46      | Jan. 18, 1943                      | 19.41       |
| Sept. 25, 1953                     | 146.60      | Jan. 3, 1968                       | 162.80      | Mar. 23, 1943                      | 22.50       |
| Oct. 31, 1953                      | 142.00      | July 16, 1968                      | 177.17      | Apr. 27, 1943                      | 27.55       |
| Nov. 30, 1953                      | 140.20      | Jan. 29, 1970                      | 172.61      | May 19, 1943                       | 28.93       |
| Dec. 14, 1953                      | 139.60      | Feb. 18, 1971                      | 173.43      | June 16, 1943                      | 29.38       |
| Jan. 25, 1954                      | 139.00      | Jan. 20, 1972                      | 176.26      | July 26, 1943                      | 28.87       |
| Jan. 28, 1954                      | 137.40      | Jan. 20, 1975                      | 182.42      | Aug. 19, 1943                      | 29.24       |
| Feb. 1, 1954                       | 142.90      | Dec. 22, 1975                      | 187.58      | Sept. 27, 1943                     | 24.45       |
| Mar. 1, 1954                       | 152.10      | Jan. 5, 1977                       | 192.65      | Oct. 18, 1943                      | 23.87       |
| Apr. 26, 1954                      | 153.40      |                                    |             | Nov. 22, 1943                      | 20.05       |
| May 27, 1954                       | 151.80      | <b>Well JL-49-13-808</b>           |             | Feb. 11, 1944                      | 22.75       |
| June 1, 1954                       | 152.30      | Owner: City of El Paso             |             | Mar. 22, 1944                      | 22.15       |
| July 26, 1954                      | 153.90      | Sept. 20, 1940                     | 27.16       | Apr. 24, 1944                      | 20.50       |
| Aug. 29, 1954                      | 153.80      | Nov. 18, 1940                      | 22.87       | May 24, 1944                       | 22.53       |
| Sept. 7, 1954                      | 153.30      | Dec. 11, 1940                      | 22.07       | June 22, 1944                      | 24.74       |
| Oct. 16, 1954                      | 151.60      | Jan. 14, 1941                      | 22.48       | July 19, 1944                      | 24.01       |
| Nov. 15, 1954                      | 153.82      | Jan. 22, 1941                      | 22.34       | Aug. 31, 1944                      | 22.76       |
| Dec. 20, 1954                      | 150.90      | Feb. 10, 1941                      | 22.94       | Sept. 26, 1944                     | 20.09       |
| Jan. 28, 1955                      | 150.14      | Mar. 11, 1941                      | 24.48       | Oct. 23, 1944                      | 23.60       |
| Jan. 16, 1957                      | 150.65      | Apr. 16, 1941                      | 25.91       | Nov. 20, 1944                      | 19.72       |
| Jan. 20, 1958                      | 158.03      | June 19, 1941                      | 30.18       | Dec. 20, 1944                      | 19.73       |
| Jan. 9, 1959                       | 152.32      | July 10, 1941                      | 20.40       | Jan. 22, 1945                      | 21.86       |
| June 22, 1959                      | 163.00      | Aug. 18, 1941                      | 29.17       | Feb. 26, 1945                      | 23.25       |
| Jan. 8, 1960                       | 148.25      | Sept. 17, 1941                     | 25.34       | Mar. 29, 1945                      | 20.22       |
| Jan. 5, 1961                       | 149.80      | Oct. 21, 1941                      | 22.22       | Apr. 23, 1945                      | 21.00       |
| July 5, 1961                       | 167.98      | Nov. 17, 1941                      | 21.79       | May 24, 1945                       | 25.59       |
| Jan. 23, 1962                      | 152.24      | Jan. 21, 1942                      | 21.75       | June 23, 1945                      | 27.24       |
| July 5, 1962                       | 170.64      | Mar. 12, 1942                      | 20.30       | July 26, 1945                      | 28.17       |
| Jan. 4, 1963                       | 151.70      | Apr. 13, 1942                      | 21.34       | Aug. 25, 1945                      | 26.40       |
| July 1, 1963                       | 172.13      | May 18, 1942                       | 24.90       | Sept. 27, 1945                     | 26.50       |
| Dec. 31, 1963                      | 155.13      | June 16, 1942                      | 28.30       | Oct. 23, 1945                      | 19.70       |
| July 7, 1964                       | 178.25      | July 21, 1942                      | 27.92       | Nov. 26, 1945                      | 18.30       |
| Dec. 30, 1964                      | 166.13      | Aug. 24, 1942                      | 23.90       | Dec. 27, 1945                      | 21.40       |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-808—Continued</b> |             | <b>Well JL-49-13-808—Continued</b> |             | <b>Well JL-49-13-808—Continued</b> |             |
| Jan. 16, 1946                      | 22.80       | Oct. 21, 1949                      | 22.66       | Oct. 25, 1952                      | 26.37       |
| Feb. 16, 1946                      | 23.76       | Nov. 21, 1949                      | 26.89       | Nov. 21, 1952                      | 23.27       |
| May 28, 1946                       | 24.31       | Dec. 19, 1949                      | 25.18       | Dec. 20, 1952                      | 21.89       |
| June 26, 1946                      | 27.82       | Jan. 20, 1950                      | 24.53       | Jan. 6, 1953                       | 20.79       |
| July 29, 1946                      | 24.81       | Feb. 20, 1950                      | 27.54       | Jan. 24, 1953                      | 20.89       |
| Aug. 29, 1946                      | 27.50       | Mar. 21, 1950                      | 30.27       | Feb. 25, 1953                      | 20.77       |
| Sept. 25, 1946                     | 26.66       | Apr. 22, 1950                      | 25.33       | Mar. 23, 1953                      | 21.59       |
| Oct. 30, 1946                      | 22.66       | May 18, 1950                       | 25.61       | Apr. 22, 1953                      | 24.00       |
| Nov. 26, 1946                      | 22.21       | June 20, 1950                      | 29.86       | May 23, 1953                       | 27.00       |
| Dec. 17, 1946                      | 21.02       | July 21, 1950                      | 25.36       | June 23, 1953                      | 32.20       |
| Jan. 14, 1947                      | 22.27       | Aug. 18, 1950                      | 28.32       | July 24, 1953                      | 32.16       |
| Feb. 26, 1947                      | 24.00       | Sept. 18, 1950                     | 25.61       | Aug. 23, 1953                      | 32.04       |
| Mar. 25, 1947                      | 21.00       | Oct. 20, 1950                      | 22.72       | Sept. 23, 1953                     | 26.79       |
| Apr. 25, 1947                      | 21.19       | Nov. 21, 1950                      | 19.75       | Oct. 23, 1953                      | 25.15       |
| June 24, 1947                      | 25.00       | Dec. 22, 1950                      | 18.20       | Nov. 23, 1953                      | 23.50       |
| July 28, 1947                      | 25.80       | Jan. 22, 1951                      | 17.63       | Dec. 23, 1953                      | 23.44       |
| Aug. 26, 1947                      | 23.17       | Feb. 23, 1951                      | 18.00       | Jan. 5, 1954                       | 23.20       |
| Sept. 29, 1947                     | 22.65       | Mar. 23, 1951                      | 24.10       | Jan. 21, 1954                      | 23.28       |
| Dec. 17, 1947                      | 18.75       | Apr. 23, 1951                      | 25.40       | Feb. 23, 1954                      | 31.34       |
| Jan. 9, 1948                       | 29.70       | May 23, 1951                       | 30.37       | Mar. 23, 1954                      | 33.72       |
| Mar. 18, 1948                      | 18.88       | June 23, 1951                      | 32.17       | Apr. 19, 1954                      | 32.03       |
| June 28, 1948                      | 27.60       | July 23, 1951                      | 31.49       | May 21, 1954                       | 31.00       |
| July 27, 1948                      | 26.13       | Aug. 22, 1951                      | 30.51       | June 22, 1954                      | 34.71       |
| Aug. 26, 1948                      | 24.84       | Sept. 9, 1951                      | 26.44       | July 21, 1954                      | 33.61       |
| Sept. 27, 1948                     | 22.46       | Oct. 22, 1951                      | 24.91       | Aug. 19, 1954                      | 34.23       |
| Oct. 26, 1948                      | 20.00       | Nov. 23, 1951                      | 24.52       | Sept. 21, 1954                     | 36.00       |
| Nov. 29, 1948                      | 19.36       | Dec. 17, 1951                      | 22.56       | Oct. 21, 1954                      | 32.75       |
| Dec. 28, 1948                      | 18.00       | Jan. 14, 1952                      | 21.40       | Nov. 19, 1954                      | 36.41       |
| Jan. 31, 1949                      | 24.12       | Jan. 22, 1952                      | 20.79       | Dec. 20, 1954                      | 35.34       |
| Feb. 25, 1949                      | 20.10       | Feb. 21, 1952                      | 20.12       | Jan. 22, 1955                      | 34.28       |
| Mar. 26, 1949                      | 20.14       | Mar. 24, 1952                      | 23.75       | Feb. 21, 1955                      | 35.64       |
| Apr. 20, 1949                      | 20.50       | Apr. 22, 1952                      | 27.36       | Mar. 21, 1955                      | 38.58       |
| May 24, 1949                       | 23.30       | May 22, 1952                       | 31.09       | Apr. 20, 1955                      | 37.96       |
| June 26, 1949                      | 29.44       | June 23, 1952                      | 32.08       | May 20, 1955                       | 39.84       |
| July 21, 1949                      | 28.82       | July 19, 1952                      | 28.62       | June 20, 1955                      | 42.91       |
| Aug. 22, 1949                      | 28.00       | Aug. 23, 1952                      | 29.72       | July 25, 1955                      | 39.04       |
| Sept. 21, 1949                     | 21.39       | Sept. 22, 1952                     | 30.66       | Aug. 20, 1955                      | 41.64       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                        | WATER LEVEL | DATE                        | WATER LEVEL | DATE                        | WATER LEVEL |
|-----------------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| Well JL-49-13-808—Continued |             | Well JL-49-13-808—Continued |             | Well JL-49-13-808—Continued |             |
| Sept. 20, 1955              | 39.44       | Oct. 24, 1958               | 35.78       | Nov. 24, 1961               | 33.85       |
| Oct. 20, 1955               | 35.11       | Nov. 25, 1958               | 35.22       | Dec. 26, 1961               | 32.63       |
| Nov. 21, 1955               | 36.96       | Dec. 23, 1958               | 35.15       | Jan. 25, 1962               | 32.66       |
| Dec. 20, 1955               | 38.74       | Jan. 23, 1959               | 34.57       | Feb. 23, 1962               | 32.38       |
| Jan. 20, 1956               | 38.50       | Feb. 25, 1959               | 35.80       | Apr. 2, 1962                | 35.09       |
| Feb. 21, 1956               | 29.37       | Mar. 25, 1959               | 36.14       | Apr. 24, 1962               | 37.04       |
| Mar. 19, 1956               | 39.95       | Apr. 23, 1959               | 36.96       | May 25, 1962                | 42.14       |
| Apr. 23, 1956               | 36.09       | May 25, 1959                | 37.50       | June 25, 1962               | 44.18       |
| May 23, 1956                | 43.95       | June 25, 1959               | 40.99       | July 25, 1962               | 43.50       |
| June 21, 1956               | 47.06       | July 24, 1959               | 42.98       | Aug. 24, 1962               | 44.74       |
| July 20, 1956               | 48.68       | Aug. 25, 1959               | 40.67       | Sept. 25, 1962              | 39.87       |
| Aug. 21, 1956               | 45.22       | Sept. 25, 1959              | 39.62       | Oct. 25, 1962               | 37.96       |
| Sept. 21, 1956              | 46.73       | Oct. 26, 1959               | 35.60       | Nov. 24, 1962               | 35.26       |
| Oct. 21, 1956               | 43.06       | Nov. 25, 1959               | 34.59       | Dec. 26, 1962               | 35.76       |
| Nov. 23, 1956               | 39.64       | Dec. 28, 1959               | 32.46       | Jan. 25, 1963               | 37.00       |
| Dec. 21, 1956               | 37.79       | Jan. 25, 1960               | 31.75       | Feb. 25, 1963               | 34.55       |
| Jan. 23, 1957               | 37.07       | Feb. 26, 1960               | 32.54       | Mar. 25, 1963               | 36.13       |
| Feb. 21, 1957               | 36.80       | Mar. 25, 1960               | 33.55       | Apr. 25, 1963               | 38.90       |
| Mar. 25, 1957               | 40.13       | Apr. 26, 1960               | 33.50       | May 24, 1963                | 43.00       |
| Apr. 23, 1957               | 43.37       | May 25, 1960                | 38.95       | June 25, 1963               | 48.70       |
| May 23, 1957                | 44.28       | June 27, 1960               | 44.20       | July 25, 1963               | 49.94       |
| June 24, 1957               | 48.02       | July 25, 1960               | 40.35       | Aug. 26, 1963               | 43.40       |
| July 23, 1957               | 46.06       | Aug. 25, 1960               | 41.97       | Sept. 24, 1963              | 48.00       |
| Aug. 23, 1957               | 42.59       | Sept. 26, 1960              | 40.45       | Oct. 25, 1963               | 44.53       |
| Sept. 24, 1957              | 41.00       | Oct. 25, 1960               | 37.14       | Nov. 26, 1963               | 41.29       |
| Oct. 25, 1957               | 40.89       | Nov. 25, 1960               | 33.53       | Dec. 24, 1963               | 38.27       |
| Nov. 25, 1957               | 38.37       | Dec. 23, 1960               | 32.32       | Jan. 25, 1964               | 38.19       |
| Dec. 20, 1957               | 41.20       | Jan. 25, 1961               | 31.54       | Feb. 25, 1964               | 38.25       |
| Jan. 24, 1958               | 41.38       | Feb. 24, 1961               | 33.26       | Mar. 25, 1964               | 41.70       |
| Feb. 25, 1958               | 45.28       | Mar. 24, 1961               | 36.25       | Apr. 24, 1964               | 46.55       |
| Mar. 25, 1958               | 40.90       | Apr. 26, 1961               | 39.15       | May 25, 1964                | 54.39       |
| Apr. 25, 1958               | 38.91       | May 25, 1961                | 43.33       | June 25, 1964               | 58.00       |
| May 23, 1958                | 39.55       | June 23, 1961               | 44.53       | July 27, 1964               | 57.52       |
| June 25, 1958               | 47.80       | July 25, 1961               | 45.15       | Aug. 27, 1964               | 55.38       |
| July 25, 1958               | 48.09       | Aug. 25, 1961               | 42.58       | Sept. 25, 1964              | 50.25       |
| Aug. 25, 1958               | 41.83       | Sept. 25, 1961              | 41.78       | Oct. 23, 1964               | 50.14       |
| Sept. 25, 1958              | 38.32       | Oct. 25, 1961               | 40.51       | Nov. 25, 1964               | 39.43       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-808—Continued</b> |             | <b>Well JL-49-13-808—Continued</b> |             | <b>Well JL-49-13-808—Continued</b> |             |
| Dec. 24, 1964                      | 47.37       | Jan. 25, 1968                      | 30.28       | Feb. 19, 1971                      | 43.67       |
| Jan. 25, 1965                      | 47.35       | Feb. 20, 1968                      | 30.20       | Mar. 19, 1971                      | 42.44       |
| Feb. 25, 1965                      | 46.42       | Mar. 22, 1968                      | 31.14       | Apr. 20, 1971                      | 43.33       |
| Mar. 25, 1965                      | 47.75       | Apr. 22, 1968                      | 31.78       | May 21, 1971                       | 44.69       |
| Apr. 26, 1965                      | 50.66       | May 22, 1968                       | 33.43       | June 21, 1971                      | 46.97       |
| May 25, 1965                       | 57.28       | June 20, 1968                      | 34.62       | July 20, 1971                      | 51.46       |
| June 25, 1965                      | 58.96       | July 19, 1968                      | 33.98       | Aug. 20, 1971                      | 52.82       |
| July 23, 1965                      | 61.47       | Aug. 21, 1968                      | 32.00       | Sept. 23, 1971                     | 56.12       |
| Aug. 25, 1965                      | 56.64       | Sept. 19, 1968                     | 29.40       | Oct. 21, 1971                      | 54.12       |
| Sept. 24, 1965                     | 51.28       | Oct. 21, 1968                      | 30.27       | Nov. 19, 1971                      | 53.27       |
| Oct. 24, 1965                      | 47.17       | Nov. 20, 1968                      | 30.33       | Dec. 17, 1971                      | 51.53       |
| Nov. 24, 1965                      | 45.66       | Dec. 20, 1968                      | 30.20       | Jan. 21, 1972                      | 51.59       |
| Dec. 23, 1965                      | 44.91       | Jan. 20, 1969                      | 30.95       | Feb. 23, 1972                      | 54.29       |
| Jan. 25, 1966                      | 44.29       | Feb. 24, 1969                      | 31.98       | Mar. 21, 1972                      | 59.08       |
| Feb. 25, 1966                      | 44.78       | Mar. 20, 1969                      | 31.65       | Apr. 21, 1972                      | 63.33       |
| Mar. 25, 1966                      | 48.73       | Apr. 23, 1969                      | 35.04       | May 19, 1972                       | 68.11       |
| Apr. 25, 1966                      | 50.42       | May 20, 1969                       | 36.22       | June 20, 1972                      | 66.87       |
| May 25, 1966                       | 52.16       | June 20, 1969                      | 38.18       | July 21, 1972                      | 74.90       |
| June 28, 1966                      | 52.66       | July 28, 1969                      | 37.20       | Aug. 21, 1972                      | 75.85       |
| July 25, 1966                      | 52.98       | Aug. 20, 1969                      | 37.72       | Sept. 20, 1972                     | 71.88       |
| Aug. 25, 1966                      | 47.85       | Sept. 22, 1969                     | 36.19       | Oct. 24, 1972                      | 75.33       |
| Sept. 25, 1966                     | 41.32       | Oct. 21, 1969                      | 39.18       | Nov. 20, 1972                      | 71.05       |
| Oct. 25, 1966                      | 39.53       | Nov. 20, 1969                      | 38.70       | Dec. 21, 1972                      | 72.00       |
| Nov. 25, 1966                      | 38.14       | Dec. 19, 1969                      | 38.89       | Jan. 22, 1973                      | 64.25       |
| Dec. 23, 1966                      | 37.11       | Jan. 20, 1970                      | 37.21       | Mar. 1, 1973                       | 72.02       |
| Jan. 25, 1967                      | 35.83       | Feb. 20, 1970                      | 38.65       | Mar. 22, 1973                      | 74.50       |
| Feb. 24, 1967                      | 36.85       | Mar. 23, 1970                      | 39.20       | Jan. 1974                          | 44.32       |
| Mar. 24, 1967                      | 36.74       | Apr. 20, 1970                      | 39.93       | Oct. 1, 1974                       | 41.20       |
| Apr. 25, 1967                      | 36.73       | May 20, 1970                       | 40.85       | Jan. 20, 1975                      | 44.19       |
| May 25, 1967                       | 38.71       | June 14, 1970                      | 45.28       | Jan. 20, 1976                      | 46.95       |
| June 26, 1967                      | 38.53       | July 21, 1970                      | 49.13       | Feb. 20, 1976                      | 47.46       |
| July 25, 1967                      | 36.09       | Aug. 21, 1970                      | 43.00       | Mar. 19, 1976                      | 48.60       |
| Aug. 25, 1967                      | 35.95       | Sept. 21, 1970                     | 42.80       | Apr. 20, 1976                      | 49.48       |
| Sept. 25, 1967                     | 33.80       | Oct. 21, 1970                      | 42.65       | May 20, 1976                       | 49.64       |
| Oct. 25, 1967                      | 34.02       | Nov. 20, 1970                      | 43.43       | June 21, 1976                      | 48.98       |
| Nov. 22, 1967                      | 32.02       | Dec. 18, 1970                      | 42.44       | July 20, 1976                      | 48.45       |
| Dec. 22, 1967                      | 30.35       | Jan. 20, 1971                      | 41.73       | Aug. 20, 1976                      | 50.54       |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE   | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|--|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-808—Continued</b> |             | <b>Well JL-49-13-811</b>                           |             | <b>Well JL-49-13-812—Continued</b> |             |
| Sept. 20, 1976                     | 48.41       | Owner: City of El Paso                             |             | Sept. 25, 1967                     | 15.86       |
| Oct. 21, 1976                      | 48.57       | Mar. 21, 1968                                      | 18.97       | Oct. 16, 1967                      | 15.98       |
| Nov. 24, 1976                      | 48.67       | July 18, 1968                                      | 18.45       | Oct. 25, 1967                      | 16.04       |
| Dec. 20, 1976                      | 48.98       | Oct. 28, 1968                                      | 18.35       | Nov. 22, 1967                      | 16.77       |
| Jan. 19, 1977                      | 49.32       | Jan. 14, 1969                                      | 18.45       | Dec. 22, 1967                      | 17.55       |
| Feb. 18, 1977                      | 49.94       | Mar. 20, 1969                                      | 18.75       | Jan. 25, 1968                      | 17.70       |
| Mar. 21, 1977                      | 52.00       | June 19, 1969                                      | 19.42       | Mar. 5, 1968                       | 17.92       |
| Apr. 20, 1977                      | 50.87       | Sept. 26, 1969                                     | 19.82       | Mar. 22, 1968                      | 16.83       |
| May 22, 1977                       | 52.03       | Dec. 2, 1969                                       | 20.00       | Apr. 22, 1968                      | 16.93       |
| June 20, 1977                      | 52.87       | Dec. 9, 1969                                       | 20.02       | May 22, 1968                       | 17.50       |
| July 20, 1977                      | 54.15       | Mar. 23, 1970                                      | 20.68       | July 19, 1968                      | 15.72       |
| <b>Well JL-49-13-810</b>           |             | June 22, 1970                                      | 21.28       | Oct. 21, 1968                      | 15.14       |
| Owner: City of El Paso             |             | Sept. 22, 1970                                     | 21.47       | Feb. 5, 1969                       | 18.58       |
| Mar. 30, 1964                      | 135.28      | Jan. 1971  | 22.84       | June 28, 1972                      | 24.90       |
| July 2, 1964                       | 227.04      | June 17, 1971                                      | 22.90       | Sept. 14, 1972                     | 30.74       |
| July 27, 1965                      | 228.69      | Oct. 28, 1971                                      | 23.52       | Jan. 25, 1973                      | 34.71       |
| Dec. 27, 1965                      | 136.46      | Jan. 1972  | 24.10       | Jan. 1974                          | 35.15       |
| July 8, 1966                       | 148.07      | Mar. 19, 1973                                      | 28.11       | Jan. 20, 1975                      | 36.74       |
| Jan. 10, 1967                      | 136.40      | Sept. 11, 1973                                     | 29.73       | Sept. 21, 1975                     | 38.08       |
| July 6, 1967                       | 147.38      | Jan. 17, 1974                                      | 30.43       | Jan. 1976                          | 39.17       |
| Dec. 27, 1967                      | 140.16      | Apr. 9, 1974                                       | 30.90       | Feb. 1976                          | 39.47       |
| July 16, 1968                      | 156.57      | June 3, 1974                                       | 31.25       | Mar. 1976                          | 39.80       |
| Jan. 16, 1969                      | 143.89      | Sept. 6, 1974                                      | 31.29       | Apr. 1976                          | 40.15       |
| June 19, 1969                      | 167.44      | Jan. 27, 1975                                      | 31.57       | June 1976                          | 40.24       |
| Jan. 21, 1970                      | 150.77      | Sept. 29, 1975                                     | 32.05       | July 20, 1976                      | 40.35       |
| June 23, 1970                      | 160.12      | Jan. 15, 1976                                      | 33.05       | Aug. 20, 1976                      | 40.25       |
| Jan. 1971                          | 147.40      | June 18, 1976                                      | 31.84       | Sept. 20, 1976                     | 40.20       |
| June 18, 1971                      | 160.46      | Dec. 9, 1976                                       | 39.47       | Oct. 21, 1976                      | 40.25       |
| Jan. 1972                          | 153.69      | <b>Well JL-49-13-812</b>                           |             | Nov. 24, 1976                      | 40.51       |
| Jan. 17, 1973                      | 156.88      | Owner: International Boundary and Water Commission |             | Dec. 20, 1976                      | 40.70       |
| Jan. 18, 1974                      | 161.32      | July 17, 1967                                      | 17.66       | Jan. 19, 1977                      | 40.94       |
| June 4, 1974                       | 172.00      | July 22, 1967                                      | 16.35       | Feb. 18, 1977                      | 41.18       |
| Jan. 16, 1975                      | 161.56      | July 25, 1967                                      | 16.14       | Mar. 21, 1977                      | 41.56       |
| Dec. 15, 1975                      | 166.48      | Aug. 21, 1967                                      | 15.67       | Apr. 20, 1977                      | 41.86       |
| June 24, 1976                      | 176.89      | Sept. 13, 1967                                     | 15.54       | May 22, 1977                       | 42.23       |
| Dec. 14, 1976                      | 170.83      |  |             | June 20, 1977                      | 42.69       |
|                                    |             |  |             | July 20, 1977                      | 43.07       |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE   | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|--|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-13-813</b>                           |             | <b>Well JL-49-13-821—Continued</b> |             | <b>Well JL-49-13-825—Continued</b> |             |
| Owner: International Boundary and Water Commission |             | Sept. 13, 1967                     | 24.50       | Jan. 1974                          | 43.77       |
| July 18, 1967                                      | 24.23       | Oct. 16, 1967                      | 23.89       | Dec. 9, 1974                       | 43.97       |
| July 22, 1967                                      | 23.65       | Nov. 17, 1967                      | 24.27       | Dec. 20, 1975                      | 46.39       |
| Aug. 21, 1967                                      | 23.37       | Dec. 26, 1967                      | 24.32       | Apr. 1976                          | 46.39       |
| Sept. 13, 1967                                     | 23.25       | Mar. 5, 1968                       | 24.65       | Sept. 20, 1976                     | 48.27       |
| Oct. 16, 1967                                      | 23.28       | July 18, 1968                      | 24.49       | Dec. 20, 1976                      | 47.88       |
| Nov. 17, 1967                                      | 23.54       | Oct. 18, 1968                      | 24.24       | Mar. 21, 1977                      | 49.58       |
| Dec. 26, 1967                                      | 23.52       | Feb. 5, 1969                       | 24.62       | June 20, 1977                      | 50.28       |
| Mar. 5, 1968                                       | 23.80       | <b>Well JL-49-13-823</b>           |             | <b>Well JL-49-13-832</b>           |             |
| July 18, 1968                                      | 23.65       | Owner: City of El Paso             |             | Owner: City of El Paso             |             |
| Oct. 18, 1968                                      | 23.49       | Apr. 30, 1956                      | 32.75       | Mar. 21, 1976                      | 48.99       |
| Feb. 5, 1969                                       | 23.47       | Jan. 22, 1959                      | 29.29       | June 3, 1976                       | 47.67       |
| Apr. 1, 1969                                       | 23.94       | Jan. 8, 1960                       | 26.02       | June 7, 1976                       | 47.32       |
| July 9, 1969                                       | 24.62       | Jan. 6, 1961                       | 25.35       | June 21, 1976                      | 47.31       |
| Oct. 28, 1969                                      | 25.07       | Jan. 23, 1962                      | 25.93       | July 20, 1976                      | 47.10       |
| Jan. 26, 1970                                      | 25.73       | Jan. 4, 1963                       | 28.15       | Sept. 20, 1976                     | 47.54       |
| Apr. 9, 1970                                       | 26.47       | Dec. 30, 1963                      | 31.15       | Dec. 20, 1976                      | 48.10       |
| July 14, 1970                                      | 27.25       | Feb. 11, 1964                      | 30.32       | <b>Well JL-49-13-902</b>           |             |
| Oct. 22, 1970                                      | 27.90       | Dec. 27, 1965                      | 35.93       | Owner: City of El Paso             |             |
| Feb. 3, 1971                                       | 28.69       | Jan. 10, 1967                      | 34.65       | Oct. 1953                          | 104.25      |
| Apr. 9, 1971                                       | 29.67       | Dec. 27, 1967                      | 38.33       | Jan. 19, 1959                      | 112.70      |
| July 1, 1971                                       | 30.65       | Jan. 8, 1969                       | 39.77       | Jan. 7, 1960                       | 110.85      |
| Oct. 13, 1971                                      | 31.07       | Jan. 14, 1970                      | 83.84       | Jan. 9, 1961                       | 112.83      |
| Jan. 21, 1972                                      | 31.90       | Jan. 1971                          | 45.14       | Jan. 25, 1962                      | 114.87      |
| Apr. 28, 1972                                      | 33.37       | Jan. 1973                          | 92.29       | Dec. 31, 1962                      | 115.15      |
| June 29, 1972                                      | 34.68       | Jan. 6, 1974                       | 92.29       | Jan. 8, 1964                       | 118.43      |
| Sept. 14, 1972                                     | 35.19       | Jan. 24, 1975                      | 62.60       | Mar. 27, 1964                      | 121.51      |
| Jan. 25, 1973                                      | 36.53       | <b>Well JL-49-13-824</b>           |             | Dec. 27, 1965                      | 122.41      |
| Jan. 1974  | 36.90       | Owner: City of El Paso             |             | Jan. 10, 1967                      | 123.07      |
| Oct. 1, 1974                                       | 41.38       | Mar. 30, 1967                      | 17.34       | Dec. 27, 1967                      | 123.63      |
| Dec. 9, 1974                                       | 41.60       | Dec. 27, 1967                      | 17.91       | Jan. 8, 1969                       | 130.82      |
| Feb. 28, 1975                                      | 41.99       | Jan. 14, 1970                      | 19.00       | Jan. 14, 1970                      | 190.20      |
| <b>Well JL-49-13-821</b>                           |             | <b>Well JL-49-13-825</b>           |             | Jan. 1971                          | 131.67      |
| Owner: International Boundary and Water Commission |             | Owner: U.S. Geological Survey      |             | Jan. 1972                          | 139.55      |
| July 16, 1967                                      | 24.31       | June 28, 1972                      | 35.79       | Jan. 29, 1973                      | 142.11      |
| July 22, 1967                                      | 24.14       | Sept. 14, 1972                     | 36.78       | Jan. 22, 1974                      | 146.20      |
| Aug. 18, 1967                                      | 23.89       | Jan. 25, 1973                      | 38.19       |                                    |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                     | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------------------------|-------------|--|-------------|--|-------------|
| <b>Well JL-49-13-912</b> |             | <b>Well JL-49-13-922</b>                           |             | <b>Well JL-49-13-933—Continued</b>                 |             |
| Owner: City of El Paso   |             | Owner: City of El Paso                             |             | Sept. 13, 1967                                     | 18.68       |
| Oct. 1953                | 25.90       | May 2, 1968  | 23.80       | Oct. 16, 1967                                      | 18.78       |
| Jan. 8, 1959             | 34.52       | July 18, 1968                                      | 24.54       | Nov. 17, 1967                                      | 19.18       |
| Jan. 8, 1960             | 30.07       | Oct. 28, 1968                                      | 24.24       | Dec. 26, 1967                                      | 19.34       |
| Jan. 6, 1961             | 30.57       | Jan. 14, 1969                                      | 24.10       | Mar. 5, 1968                                       | 19.93       |
| Feb. 19, 1962            | 32.96       | Mar. 20, 1969                                      | 24.32       | July 18, 1968                                      | 18.02       |
| Jan. 4, 1963             | 33.75       | June 19, 1969                                      | 24.56       | Oct. 18, 1968                                      | 18.48       |
| Dec. 30, 1963            | 35.75       | June 29, 1969                                      | 24.42       | Feb. 5, 1969                                       | 18.90       |
| Feb. 11, 1964            | 35.52       | Dec. 8, 1969                                       | 24.67       | Apr. 1, 1969                                       | 19.26       |
| Dec. 30, 1964            | 42.14       | Mar. 27, 1970                                      | 25.17       | July 9, 1969                                       | 18.96       |
| Dec. 28, 1965            | 42.16       | June 22, 1970                                      | 25.30       | Oct. 28, 1969                                      | 19.26       |
| Jan. 10, 1967            | 42.99       | Sept. 23, 1970                                     | 24.92       | Jan. 26, 1970                                      | 20.03       |
| Dec. 27, 1967            | 43.56       | Jan. 1971  | 25.20       |  |             |
| Jan. 8, 1969             | 50.27       | June 17, 1971                                      | 25.61       | <b>Well JL-49-13-934</b>                           |             |
| Jan. 14, 1970            | 52.44       | Oct. 27, 1971                                      | 26.09       | Owner: International Boundary and Water Commission |             |
| Jan. 1971                | 48.01       | Jan. 1972  | 26.25       | July 17, 1967                                      | 14.35       |
| Jan. 1972                | 50.28       | Mar. 22, 1972                                      | 26.58       | July 22, 1967                                      | 14.37       |
| Jan. 1973                | 52.41       | June 27, 1972                                      | 27.26       | Aug. 18, 1967                                      | 13.99       |
| Jan. 23, 1975            | 55.52       | Sept. 25, 1972                                     | 28.00       | Sept. 13, 1967                                     | 13.69       |
| Nov. 17, 1975            | 58.44       | Mar. 19, 1973                                      | 29.00       | Oct. 16, 1967                                      | 14.51       |
| Dec. 9, 1976             | 58.21       | Sept. 11, 1973                                     | 29.59       | Nov. 17, 1967                                      | 15.15       |
| <b>Well JL-49-13-914</b> |             | Jan. 7, 1974                                       | 30.13       | Dec. 26, 1967                                      | 16.43       |
| Owner: City of El Paso   |             | Apr. 9, 1974                                       | 30.53       | Mar. 5, 1968                                       | 17.94       |
| June 23, 1961            | 289.37      | June 3, 1974                                       | 30.71       | July 18, 1968                                      | 14.80       |
| Jan. 3, 1963             | 279.98      | Sept. 6, 1974                                      | 30.76       | Oct. 18, 1968                                      | 14.03       |
| Dec. 30, 1963            | 283.00      | Jan. 23, 1975                                      | 30.02       | Feb. 5, 1969                                       | 16.34       |
| Dec. 30, 1964            | 287.61      | Sept. 29, 1975                                     | 30.36       | Apr. 1, 1969                                       | 15.23       |
| Dec. 28, 1966            | 286.89      | Jan. 14, 1976                                      | 31.08       | July 9, 1969                                       | 15.24       |
| Dec. 26, 1967            | 292.81      | Mar. 16, 1976                                      | 31.38       | Oct. 28, 1969                                      | 15.28       |
| Jan. 8, 1969             | 357.24      | June 18, 1976                                      | 31.70       | Jan. 26, 1970                                      | 15.84       |
| Jan. 15, 1970            | 360.10      | Dec. 9, 1976                                       | 31.86       | Apr. 9, 1970                                       | 15.50       |
| Jan. 1971                | 297.32      | <b>Well JL-49-13-933</b>                           |             | July 14, 1970                                      | 15.14       |
| Jan. 1973                | 365.63      | Owner: International Boundary and Water Commission |             | Oct. 22, 1970                                      | 15.22       |
| Jan. 8, 1974             | 306.03      | July 16, 1967                                      | 19.19       | Feb. 3, 1971                                       | 16.28       |
| Jan. 15, 1975            | 305.48      | July 22, 1967                                      | 18.77       | Apr. 9, 1971                                       | 16.53       |
| Dec. 15, 1975            | 304.14      | Aug. 18, 1967                                      | 18.52       | July 1, 1971                                       | 16.80       |
| Dec. 14, 1976            | 303.78      |  |             | Oct. 13, 1971                                      | 17.37       |

Table 6.--Water-Level Measurements From Observation Wells--Continued

| DATE                                | WATER LEVEL | DATE                                | WATER LEVEL | DATE                                | WATER LEVEL |
|-------------------------------------|-------------|-------------------------------------|-------------|-------------------------------------|-------------|
| <b>Well JL-49-13-934--Continued</b> |             | <b>Well JL-49-14-102--Continued</b> |             | <b>Well JL-49-14-301--Continued</b> |             |
| Jan. 21, 1972                       | 21.22       | Sept. 3, 1970                       | 272.69      | Jan. 13, 1975                       | 322.43      |
| Jan. 25, 1973                       | 28.46       | Feb. 18, 1971                       | 273.07      | Jan. 20, 1976                       | 323.17      |
| Oct. 1, 1974                        | 19.57       | Jan. 20, 1972                       | 274.03      | Jan. 5, 1977                        | 282.87      |
| Dec. 9, 1974                        | 20.82       | Jan. 24, 1973                       | 275.79      |                                     |             |
|                                     |             | Jan. 1974                           | 276.18      | <b>Well JL-49-14-401</b>            |             |
| <b>Well JL-49-14-102</b>            |             | Jan. 16, 1975                       | 280.20      | Owner: City of El Paso              |             |
| Owner: U.S. Army                    |             | Jan. 20, 1976                       | 280.96      | Nov. 28, 1960                       | 292.94      |
| Jan. 18, 1955                       | 254.45      | Jan. 5, 1977                        | 282.87      | Jan. 23, 1962                       | 294.60      |
| June 17, 1955                       | 254.71      |                                     |             | Jan. 28, 1962                       | 296.90      |
| Sept. 21, 1955                      | 254.93      | <b>Well JL-49-14-301</b>            |             | Dec. 31, 1962                       | 298.04      |
| Jan. 20, 1956                       | 254.98      | Owner: U.S. Army                    |             | Dec. 30, 1963                       | 299.32      |
| Apr. 30, 1956                       | 255.37      | Apr. 2, 1953                        | 314.36      | Dec. 30, 1964                       | 302.52      |
| June 18, 1956                       | 255.69      | June 2, 1953                        | 314.11      | Dec. 28, 1965                       | 304.36      |
| Sept. 19, 1956                      | 255.90      | Jan. 6, 1954                        | 314.24      | Dec. 13, 1966                       | 308.87      |
| Jan. 16, 1957                       | 256.02      | Jan. 29, 1955                       | 314.24      | Dec. 26, 1967                       | 309.10      |
| June 25, 1957                       | 256.75      | Jan. 20, 1956                       | 314.16      | Jan. 6, 1969                        | 391.60      |
| Jan. 22, 1958                       | 256.66      | Jan. 16, 1957                       | 314.49      | Dec. 15, 1969                       | 403.89      |
| June 24, 1958                       | 257.49      | Jan. 20, 1958                       | 316.68      | Jan. 1971                           | 407.55      |
| Jan. 7, 1959                        | 257.91      | Jan. 8, 1959                        | 314.99      | Jan. 10, 1974                       | 405.40      |
| June 15, 1959                       | 258.57      | Jan. 7, 1960                        | 315.37      | Dec. 7, 1976                        | 332.89      |
| Jan. 7, 1960                        | 259.22      | Jan. 3, 1961                        | 315.52      |                                     |             |
| July 21, 1960                       | 259.78      | Jan. 8, 1962                        | 315.95      | <b>Well JL-49-14-402</b>            |             |
| Jan. 3, 1961                        | 260.19      | Jan. 3, 1963                        | 316.32      | Owner: City of El Paso              |             |
| July 9, 1961                        | 260.90      | Jan. 2, 1964                        | 316.73      | Nov. 18, 1960                       | 281.00      |
| Jan. 8, 1962                        | 260.80      | Dec. 29, 1964                       | 316.88      | Jan. 23, 1962                       | 280.60      |
| July 5, 1962                        | 262.07      | July 20, 1965                       | 317.30      | Jan. 9, 1963                        | 286.00      |
| Jan. 2, 1963                        | 262.28      | Dec. 30, 1965                       | 317.62      | Dec. 30, 1963                       | 285.60      |
| July 2, 1963                        | 263.60      | Jan. 17, 1967                       | 317.90      | Dec. 30, 1964                       | 288.34      |
| Jan. 2, 1964                        | 263.48      | July 6, 1967                        | 318.19      | Dec. 13, 1966                       | 295.47      |
| July 7, 1964                        | 264.60      | Jan. 3, 1968                        | 318.37      | Dec. 26, 1967                       | 361.28      |
| Dec. 30, 1964                       | 264.74      | July 15, 1968                       | 318.62      | Jan. 6, 1969                        | 363.03      |
| July 20, 1965                       | 265.90      | Mar. 8, 1970                        | 318.69      | Dec. 15, 1969                       | 365.98      |
| Dec. 30, 1965                       | 265.03      | Sept. 3, 1970                       | 319.90      | Jan. 1971                           | 375.94      |
| Jan. 17, 1967                       | 267.07      | Feb. 18, 1971                       | 319.98      | Jan. 1972                           | 304.64      |
| July 6, 1967                        | 268.37      | Jan. 20, 1972                       | 320.54      | Jan. 1973                           | 310.61      |
| Jan. 3, 1968                        | 267.59      | Jan. 25, 1973                       | 321.07      | Jan. 8, 1974                        | 370.75      |
| Mar. 12, 1970                       | 271.36      | Jan. 1974                           | 321.99      | Jan. 15, 1976                       | 319.94      |
|                                     |             |                                     |             | Dec. 7, 1976                        | 316.10      |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                     | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|--------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-14-403</b> |             | <b>Well JL-49-14-404—Continued</b> |             | <b>Well JL-49-14-405—Continued</b> |             |
| Owner: City of El Paso   |             | Jan. 3, 1963                       | 284.32      | Dec. 29, 1964                      | 286.05      |
| Nov. 15, 1960            | 300.73      | July 1, 1963                       | 284.60      | Dec. 30, 1965                      | 287.20      |
| Jan. 6, 1961             | 301.48      | Jan. 2, 1964                       | 284.12      | Jan. 11, 1967                      | 289.70      |
| July 3, 1961             | 304.00      | July 1, 1964                       | 296.32      | Jan. 3, 1968                       | 290.53      |
| Jan. 23, 1962            | 302.72      | Dec. 29, 1964                      | 287.22      | Mar. 21, 1969                      | 291.62      |
| July 2, 1962             | 308.47      | Dec. 30, 1965                      | 289.34      | Feb. 13, 1970                      | 293.38      |
| Dec. 31, 1962            | 307.57      | Jan. 11, 1967                      | 289.50      | Sept. 1, 1970                      | 294.59      |
| July 1, 1963             | 312.48      | July 6, 1967                       | 302.24      | Feb. 18, 1971                      | 294.72      |
| Dec. 30, 1963            | 305.65      | Jan. 3, 1968                       | 291.27      | Jan. 20, 1972                      | 297.57      |
| July 2, 1964             | 312.12      | July 16, 1968                      | 303.68      | Jan. 25, 1973                      | 300.16      |
| Dec. 30, 1964            | 307.57      | Mar. 21, 1969                      | 297.49      | Jan. 1974                          | 303.32      |
| July 20, 1965            | 314.33      | Feb. 13, 1970                      | 299.32      | Jan. 14, 1975                      | 310.12      |
| Dec. 30, 1965            | 310.95      | Sept. 1, 1970                      | 312.28      | Jan. 11, 1976                      | 310.24      |
| July 8, 1966             | 313.00      | Feb. 18, 1971                      | 302.24      | <b>Well JL-49-14-406</b>           |             |
| Jan. 26, 1967            | 314.13      | Jan. 20, 1972                      | 301.52      | Owner: City of El Paso             |             |
| July 6, 1967             | 314.86      | Jan. 25, 1973                      | 304.37      | Jan. 23, 1967                      | 303.26      |
| Jan. 3, 1968             | 314.82      | Jan. 1974                          | 310.95      | Dec. 26, 1967                      | 304.89      |
| July 15, 1968            | 317.27      | <b>Well JL-49-14-405</b>           |             | Jan. 6, 1969                       | 311.33      |
| Dec. 15, 1969            | 318.23      | Owner: International Airport       |             | Dec. 15, 1969                      | 397.04      |
| Jan. 1971                | 325.59      | Jan. 20, 1956                      | 273.17      | Jan. 1971                          | 400.65      |
| Jan. 1972                | 319.63      | June 18, 1956                      | 275.12      | Jan. 1972                          | 313.17      |
| <b>Well JL-49-14-404</b> |             | Jan. 16, 1957                      | 274.97      | Jan. 1973                          | 399.78      |
| Owner: U.S. Army         |             | June 25, 1957                      | 275.60      | Jan. 10, 1974                      | 326.89      |
| Jan. 20, 1956            | 275.03      | Jan. 22, 1958                      | 275.39      | Dec. 7, 1976                       | 325.81      |
| June 18, 1956            | 279.23      | June 24, 1958                      | 276.20      | <b>Well JL-49-14-413</b>           |             |
| Jan. 16, 1957            | 273.99      | Jan. 8, 1959                       | 277.08      | Owner: City of El Paso             |             |
| June 25, 1957            | 281.07      | Jan. 7, 1960                       | 278.40      | Jan. 1973                          | 322.40      |
| Jan. 22, 1958            | 276.73      | July 21, 1960                      | 279.75      | Jan. 8, 1974                       | 327.50      |
| June 24, 1958            | 281.47      | Jan. 4, 1961                       | 279.90      | Jan. 8, 1975                       | 333.28      |
| Jan. 8, 1959             | 275.94      | July 3, 1961                       | 289.17      | Jan. 15, 1976                      | 332.44      |
| Jan. 7, 1960             | 277.63      | Jan. 8, 1962                       | 281.00      | Dec. 7, 1976                       | 332.49      |
| July 21, 1960            | 285.68      | July 5, 1962                       | 281.10      | <b>Well JL-49-14-414</b>           |             |
| Jan. 4, 1961             | 279.59      | Jan. 2, 1963                       | 282.94      | Owner: City of El Paso             |             |
| July 5, 1961             | 280.35      | July 1, 1963                       | 282.77      | Jan. 1973                          | 307.28      |
| Jan. 8, 1962             | 280.44      | Jan. 2, 1964                       | 284.75      | Jan. 8, 1974                       | 311.35      |
| July 5, 1962             | 291.27      | July 1, 1964                       | 284.55      |                                    |             |

Table 6.--Water-Level Measurements From Observation Wells--Continued

| DATE                                | WATER LEVEL | DATE                                | WATER LEVEL | DATE                                | WATER LEVEL |
|-------------------------------------|-------------|-------------------------------------|-------------|-------------------------------------|-------------|
| <b>Well JL-49-14-414--Continued</b> |             | <b>Well JL-49-14-702--Continued</b> |             | <b>Well JL-49-14-704--Continued</b> |             |
| Jan. 8, 1975                        | 317.70      | Jan. 1973                           | 333.50      | Jan. 1972                           | 186.82      |
| Jan. 15, 1976                       | 316.14      | Jan. 10, 1974                       | 336.61      | Jan. 1973                           | 187.42      |
| Dec. 7, 1976                        | 315.78      | Jan. 15, 1975                       | 339.14      | Jan. 16, 1974                       | 195.85      |
| <b>Well JL-49-14-415</b>            |             | Dec. 8, 1976                        | 340.48      | <b>Well JL-49-14-705</b>            |             |
| Owner: City of El Paso              |             | <b>Well JL-49-14-703</b>            |             | Owner: City of El Paso              |             |
| Jan. 1973                           | 303.34      | Owner: City of El Paso              |             | Nov. 23, 1956                       | 318.75      |
| Jan. 10, 1974                       | 307.01      | May 15, 1956                        | 213.00      | Jan. 12, 1959                       | 306.85      |
| Jan. 15, 1976                       | 319.13      | Jan. 8, 1959                        | 210.10      | Jan. 1973                           | 337.77      |
| <b>Well JL-49-14-701</b>            |             | Jan. 23, 1962                       | 212.47      | <b>Well JL-49-14-706</b>            |             |
| Owner: City of El Paso              |             | Jan. 4, 1963                        | 211.50      | Owner: City of El Paso              |             |
| May 14, 1959                        | 295.80      | Dec. 30, 1963                       | 215.05      | Jan. 23, 1961                       | 281.36      |
| Jan. 7, 1960                        | 293.80      | Jan. 5, 1965                        | 219.10      | July 23, 1962                       | 281.10      |
| Jan. 3, 1963                        | 301.77      | Dec. 28, 1965                       | 211.80      | Jan. 3, 1963                        | 285.90      |
| Jan. 2, 1964                        | 304.68      | Jan. 10, 1967                       | 217.19      | Dec. 30, 1963                       | 286.35      |
| Dec. 28, 1965                       | 309.83      | Dec. 27, 1967                       | 221.51      | Dec. 30, 1964                       | 289.17      |
| Dec. 26, 1967                       | 366.41      | Jan. 6, 1969                        | 225.08      | Dec. 28, 1965                       | 291.88      |
| Jan. 6, 1969                        | 370.34      | Jan. 1971                           | 249.13      | Dec. 26, 1967                       | 296.28      |
| Jan. 15, 1970                       | 323.80      | Jan. 1973                           | 249.69      | Jan. 6, 1969                        | 297.97      |
| Jan. 1971                           | 390.21      | Jan. 22, 1974                       | 233.17      | Jan. 13, 1970                       | 300.97      |
| Jan. 1972                           | 324.11      | Jan. 23, 1975                       | 233.12      | Jan. 1971                           | 303.98      |
| Jan. 1973                           | 327.37      | Dec. 15, 1975                       | 240.52      | Jan. 1973                           | 302.97      |
| Dec. 15, 1976                       | 332.51      | Dec. 14, 1976                       | 234.88      | Jan. 28, 1975                       | 316.18      |
| <b>Well JL-49-14-702</b>            |             | <b>Well JL-49-14-704</b>            |             | Jan. 15, 1976                       | 315.06      |
| Owner: City of El Paso              |             | Owner: City of El Paso              |             | Dec. 7, 1976                        | 311.19      |
| May 30, 1956                        | 310.25      | Feb. 15, 1958                       | 173.00      | <b>Well JL-49-14-707</b>            |             |
| Jan. 3, 1963                        | 311.98      | Jan. 19, 1959                       | 170.10      | Owner: City of El Paso              |             |
| Jan. 6, 1964                        | 315.45      | Jan. 7, 1960                        | 168.20      | June 19, 1961                       | 291.10      |
| Dec. 30, 1964                       | 317.60      | Jan. 4, 1963                        | 171.05      | Jan. 3, 1963                        | 281.90      |
| Dec. 28, 1965                       | 320.78      | Dec. 30, 1963                       | 173.42      | Dec. 30, 1963                       | 286.09      |
| Jan. 11, 1967                       | 321.73      | Dec. 30, 1964                       | 176.94      | Dec. 30, 1964                       | 290.34      |
| Dec. 27, 1967                       | 324.07      | Dec. 28, 1965                       | 176.19      | Dec. 28, 1965                       | 290.05      |
| Jan. 8, 1969                        | 352.22      | Jan. 10, 1967                       | 180.05      | Dec. 26, 1967                       | 361.45      |
| Dec. 15, 1969                       | 332.00      | Dec. 27, 1967                       | 201.63      | Jan. 8, 1969                        | 366.46      |
| Jan. 1971                           | 328.28      | Jan. 8, 1969                        | 184.34      | Jan. 15, 1970                       | 369.52      |
| Jan. 1972                           | 328.60      | Jan. 14, 1970                       | 186.03      | Jan. 1971                           | 302.48      |
|                                     |             | Jan. 1971                           | 185.12      |                                     |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-14-707—Continued</b> |             | <b>Well JL-49-14-711—Continued</b> |             | <b>Well JL-49-14-716—Continued</b> |             |
| Jan. 1972                          | 304.44      | Jan. 23, 1962                      | 101.80      | Jan. 7, 1974                       | 317.13      |
| Jan. 1973                          | 310.66      | Jan. 4, 1963                       | 100.88      | Jan. 15, 1975                      | 321.86      |
| Jan. 8, 1974                       | 310.91      | Dec. 30, 1963                      | 101.28      | <b>Well JL-49-14-717</b>           |             |
| Jan. 15, 1975                      | 304.92      | Dec. 28, 1965                      | 103.35      | Owner: City of El Paso             |             |
| Dec. 15, 1975                      | 308.91      | Jan. 10, 1967                      | 106.08      | Jan. 1971                          | 309.37      |
| Dec. 14, 1976                      | 306.73      | Dec. 27, 1967                      | 105.68      | Jan. 1972                          | 308.33      |
| <b>Well JL-49-14-709</b>           |             | Jan. 8, 1969                       | 105.56      | Jan. 1973                          | 311.10      |
| Owner: City of El Paso             |             | Jan. 15, 1970                      | 107.26      | Jan. 7, 1974                       | 312.20      |
| Oct. 17, 1967                      | 320.40      | Jan. 1971                          | 107.42      | Jan. 15, 1975                      | 317.62      |
| Dec. 27, 1967                      | 324.86      | Jan. 1972                          | 109.92      | Jan. 6, 1976                       | 319.90      |
| Jan. 6, 1969                       | 322.89      | Jan. 1973                          | 111.48      | Dec. 7, 1976                       | 318.75      |
| Jan. 15, 1970                      | 327.77      | Jan. 16, 1974                      | 142.62      | <b>Well JL-49-14-718</b>           |             |
| Jan. 1971                          | 324.87      | <b>Well JL-49-14-714</b>           |             | Owner: City of El Paso             |             |
| Jan. 1972                          | 323.04      | Owner: City of El Paso             |             | Jan. 1971                          | 233.96      |
| Jan. 1973                          | 330.91      | Sept. 11, 1967                     | 278.30      | Jan. 1972                          | 234.98      |
| Jan. 8, 1974                       | 391.35      | Dec. 27, 1967                      | 278.27      | Jan. 1973                          | 237.83      |
| Jan. 15, 1976                      | 339.87      | Jan. 6, 1969                       | 275.76      | Jan. 7, 1974                       | 240.40      |
| Dec. 15, 1976                      | 334.73      | Dec. 11, 1969                      | 278.07      | <b>Well JL-49-21-101</b>           |             |
| <b>Well JL-49-14-710</b>           |             | Jan. 1971                          | 279.07      | Owner: City of El Paso             |             |
| Owner: City of El Paso             |             | Jan. 1972                          | 279.66      | Mar. 26, 1968                      | 29.59       |
| Jan. 1956                          | 167.00      | Jan. 1973                          | 282.60      | Apr. 20, 1968                      | 29.14       |
| Jan. 9, 1963                       | 176.78      | Jan. 7, 1974                       | 286.31      | May 20, 1968                       | 29.02       |
| Dec. 30, 1963                      | 176.28      | <b>Well JL-49-14-715</b>           |             | June 20, 1968                      | 27.49       |
| Feb. 1, 1964                       | 177.16      | Owner: City of El Paso             |             | July 20, 1968                      | 25.88       |
| Dec. 28, 1965                      | 175.77      | Mar. 7, 1969                       | 293.09      | Aug. 20, 1968                      | 25.27       |
| Dec. 27, 1967                      | 182.98      | Jan. 1971                          | 291.97      | Sept. 20, 1968                     | 25.25       |
| Jan. 15, 1970                      | 184.17      | Jan. 1972                          | 292.67      | Oct. 20, 1968                      | 28.11       |
| Jan. 1971                          | 186.86      | Jan. 1973                          | 295.37      | Nov. 20, 1968                      | 28.46       |
| Jan. 1972                          | 185.93      | Jan. 7, 1974                       | 297.18      | Dec. 20, 1968                      | 30.52       |
| <b>Well JL-49-14-711</b>           |             | <b>Well JL-49-14-716</b>           |             | Jan. 20, 1969                      | 31.91       |
| Owner: City of El Paso             |             | Owner: City of El Paso             |             | Feb. 20, 1969                      | 33.70       |
| Oct. 1953                          | 86.50       | Nov. 5, 1969                       | 315.45      | Mar. 20, 1969                      | 34.89       |
| Jan. 22, 1959                      | 100.07      | Jan. 1971                          | 311.06      | Apr. 20, 1969                      | 36.01       |
| Feb. 3, 1960                       | 98.35       | Jan. 1972                          | 311.48      | May 20, 1969                       | 36.43       |
| Jan. 6, 1961                       | 99.28       | Jan. 1973                          | 314.02      | June 20, 1969                      | 36.50       |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE   | WATER LEVEL | DATE                               | WATER LEVEL | DATE                     | WATER LEVEL |
|--|-------------|------------------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-21-101—Continued</b>                 |             | <b>Well JL-49-21-102—Continued</b> |             | <b>Well JL-49-21-303</b> |             |
| July 20, 1969                                      | 34.90       | Aug. 18, 1967                      | 34.13       | Owner: City of El Paso   |             |
| Aug. 20, 1969                                      | 34.23       | Sept. 13, 1967                     | 34.22       | Mar. 21, 1968            | 9.25        |
| Sept. 26, 1969                                     | 34.93       | Oct. 16, 1967                      | 34.64       | July 18, 1968            | 7.48        |
| Oct. 28, 1969                                      | 37.32       | Nov. 17, 1967                      | 35.04       | Oct. 28, 1968            | 7.79        |
| Nov. 20, 1969                                      | 38.83       | Dec. 26, 1967                      | 35.98       | Jan. 14, 1969            | 8.12        |
| Dec. 20, 1969                                      | 42.37       | Mar. 5, 1968                       | 37.38       | Mar. 20, 1969            | 7.80        |
| Jan. 1, 1970                                       | 43.00       | July 18, 1968                      | 34.85       | June 19, 1969            | 7.08        |
| Jan. 20, 1970                                      | 44.04       | Oct. 18, 1968                      | 34.16       | Sept. 26, 1969           | 7.26        |
| Feb. 20, 1970                                      | 46.06       | Feb. 5, 1969                       | 42.00       | Dec. 9, 1969             | 7.81        |
| Mar. 20, 1970                                      | 47.20       | Apr. 1, 1969                       | 46.36       | Mar. 23, 1970            | 7.55        |
| Apr. 20, 1970                                      | 47.14       | July 9, 1969                       | 49.39       | June 22, 1970            | 7.44        |
| May 20, 1970                                       | 46.26       | Oct. 28, 1969                      | 51.36       | Sept. 22, 1970           | 7.00        |
| June 20, 1970                                      | 45.23       | Jan. 26, 1970                      | 51.36       | Jan. 1971                | 8.25        |
| July 18, 1970                                      | 44.19       | July 29, 1972                      | 81.60       | June 17, 1971            | 7.85        |
| Aug. 20, 1970                                      | 43.51       | Sept. 14, 1972                     | 85.04       | Oct. 27, 1971            | 8.37        |
| Sept. 20, 1970                                     | 43.25       | Jan. 25, 1973                      | 88.80       | Jan. 1972                | 10.58       |
| Oct. 20, 1970                                      | 44.49       | Jan. 1974                          | 89.33       | Mar. 19, 1973            | 14.80       |
| Nov. 20, 1970                                      | 46.56       | <b>Well JL-49-21-301</b>           |             | Sept. 6, 1973            | 8.21        |
| Dec. 20, 1970                                      | 47.90       | Owner: City of El Paso             |             | Sept. 11, 1973           | 8.30        |
| Jan. 20, 1971                                      | 48.74       | Sept. 20, 1957                     | 30.26       | Jan. 17, 1974            | 9.98        |
| Feb. 20, 1971                                      | 49.69       | Jan. 8, 1959                       | 24.36       | Apr. 11, 1974            | 9.34        |
| Mar. 20, 1971                                      | 50.40       | Jan. 8, 1960                       | 22.00       | June 3, 1974             | 9.01        |
| Apr. 20, 1971                                      | 50.83       | Jan. 6, 1961                       | 28.68       | Sept. 6, 1974            | 8.33        |
| May 20, 1971                                       | 48.46       | Jan. 23, 1962                      | 20.87       | Jan. 24, 1975            | 9.11        |
| June 20, 1971                                      | 49.17       | Jan. 4, 1963                       | 22.10       | Sept. 29, 1975           | 8.84        |
| July 20, 1971                                      | 48.33       | Dec. 30, 1963                      | 31.78       | <b>Well JL-49-21-304</b> |             |
| Aug. 20, 1971                                      | 48.24       | Dec. 30, 1964                      | 31.00       | Owner: City of El Paso   |             |
| Sept. 20, 1971                                     | 49.13       | Dec. 27, 1965                      | 29.41       | Mar. 21, 1968            | 12.03       |
| Oct. 20, 1971                                      | 49.52       | Jan. 10, 1967                      | 29.60       | July 18, 1968            | 10.72       |
| Nov. 20, 1971                                      | 50.80       | Dec. 27, 1967                      | 30.80       | Oct. 28, 1968            | 10.88       |
| Dec. 20, 1971                                      | 51.21       | Jan. 8, 1969                       | 29.95       | Jan. 14, 1969            | 11.10       |
| <b>Well JL-49-21-102</b>                           |             | Dec. 9, 1969                       | 36.36       | Mar. 20, 1969            | 11.39       |
| Owner: International Boundary and Water Commission |             | Jan. 1971                          | 33.09       | June 19, 1969            | 11.24       |
| July 20, 1967                                      | 34.89       | Jan. 1972                          | 39.77       | Sept. 26, 1969           | 10.90       |
| July 22, 1967                                      | 34.67       | Jan. 1973                          | 42.01       | Dec. 9, 1969             | 11.24       |
| July 24, 1967                                      | 34.64       | Jan. 17, 1974                      | 44.60       | Mar. 23, 1970            | 11.66       |
|  |             | Dec. 15, 1975                      | 55.15       | June 22, 1970            | 11.73       |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                     | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-21-304—Continued</b> |             | <b>Well JL-49-21-306—Continued</b> |             | <b>Well JL-49-22-103</b> |             |
| Sept. 22, 1970                     | 11.10       | July 14, 1970                      | 7.12        | Owner: City of El Paso   |             |
| Jan. 1971                          | 11.49       | Oct. 22, 1970                      | 7.78        | Oct. 1953                | 50.00       |
| June 17, 1971                      | 11.97       | Feb. 3, 1971                       | 9.21        | Jan. 19, 1959            | 56.70       |
| Oct. 27, 1971                      | 11.61       | Apr. 9, 1971                       | 8.60        | Jan. 8, 1960             | 56.15       |
| Jan. 1972                          | 12.73       | July 1, 1971                       | 8.42        | Jan. 6, 1961             | 56.65       |
| Mar. 19, 1973                      | 16.02       | Oct. 13, 1971                      | 9.15        | Jan. 25, 1962            | 56.93       |
| Sept. 6, 1973                      | 14.15       | Jan. 21, 1972                      | 12.63       | Jan. 4, 1963             | 56.69       |
| Sept. 11, 1973                     | 14.14       | Jan. 25, 1973                      | 18.21       | Dec. 30, 1964            | 60.12       |
| Jan. 17, 1974                      | 14.51       | Jan. 1974                          | 11.08       | Dec. 28, 1965            | 59.91       |
| Apr. 11, 1974                      | 14.79       | Oct. 1, 1974                       | 8.11        | Jan. 10, 1967            | 60.01       |
| June 3, 1974                       | 14.60       | Feb. 1976                          | 13.53       | Dec. 27, 1967            | 60.19       |
| Sept. 6, 1974                      | 13.86       | Apr. 1976                          | 15.66       | Jan. 6, 1969             | 59.70       |
| Jan. 24, 1975                      | 13.43       | Sept. 20, 1976                     | 10.45       | Nov. 26, 1969            | 60.56       |
| Sept. 29, 1975                     | 13.27       | Dec. 20, 1976                      | 11.74       | Jan. 1971                | 60.52       |
| Jan. 14, 1976                      | 14.10       | Mar. 21, 1977                      | 12.50       | Jan. 1972                | 61.11       |
| Mar. 17, 1976                      | 14.40       | June 20, 1977                      | 13.45       | Jan. 1973                | 63.09       |
| June 18, 1976                      | 14.13       |                                    |             | Sept. 5, 1973            | 65.79       |
|                                    |             | <b>Well JL-49-22-102</b>           |             | Nov. 17, 1975            | 66.13       |
|                                    |             | Owner: City of El Paso             |             | Nov. 30, 1976            | 66.76       |
|                                    |             | Jan. 1957                          | 142.00      |                          |             |
|                                    |             | Jan. 8, 1959                       | 144.20      | <b>Well JL-49-22-107</b> |             |
|                                    |             | Jan. 8, 1960                       | 144.20      | Owner: City of El Paso   |             |
|                                    |             | Jan. 25, 1962                      | 145.10      | Apr. 10, 1968            | 22.10       |
|                                    |             | Jan. 9, 1963                       | 146.44      | July 18, 1968            | 21.88       |
|                                    |             | Dec. 30, 1963                      | 146.88      | Oct. 28, 1968            | 21.57       |
|                                    |             | Dec. 30, 1964                      | 147.55      | Jan. 14, 1969            | 21.53       |
|                                    |             | Dec. 28, 1965                      | 148.55      | Mar. 19, 1969            | 21.50       |
|                                    |             | Jan. 10, 1967                      | 149.60      | June 19, 1969            | 21.77       |
|                                    |             | Dec. 27, 1967                      | 149.19      |                          |             |
|                                    |             | Jan. 6, 1969                       | 146.16      | <b>Well JL-49-22-108</b> |             |
|                                    |             | Jan. 15, 1970                      | 147.42      | Owner: City of El Paso   |             |
|                                    |             | Jan. 1971                          | 147.97      | May 2, 1968              | 7.45        |
|                                    |             | Jan. 1972                          | 149.62      | July 18, 1968            | 6.43        |
|                                    |             | Jan. 1973                          | 150.70      | July 28, 1968            | 6.89        |
|                                    |             | Jan. 16, 1974                      | 154.98      | Jan. 14, 1969            | 7.51        |
|                                    |             | Dec. 13, 1976                      | 163.17      | Mar. 20, 1969            | 7.27        |
|                                    |             |                                    |             | June 19, 1969            | 6.35        |
|                                    |             |                                    |             | Sept. 26, 1969           | 6.42        |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                     | WATER LEVEL | DATE                                      | WATER LEVEL |
|------------------------------------|-------------|--------------------------|-------------|---|-------------|
| <b>Well JL-49-22-108—Continued</b> |             | <b>Well JL-49-22-201</b> |             | <b>Well JL-49-22-203—Continued</b>        |             |
| Dec. 9, 1969                       | 7.03        | Owner: City of El Paso   |             | Mar. 23, 1972                             | 10.97       |
| Mar. 23, 1970                      | 6.97        | June 5, 1947             | 52.00       | June 27, 1972                             | 12.33       |
| June 22, 1970                      | 6.36        | Oct. 1953                | 52.00       | <b>Well JL-49-22-401</b>                  |             |
| Sept. 22, 1970                     | 5.97        | July 3, 1956             | 63.00       | Owner: City of El Paso                    |             |
| Jan. 1971                          | 7.10        | Jan. 8, 1959             | 60.70       | Dec. 3, 1957                              | 9.72        |
| June 17, 1971                      | 6.59        | Jan. 8, 1960             | 59.75       | Dec. 5, 1958                              | 7.05        |
| Oct. 27, 1971                      | 7.11        | Jan. 6, 1961             | 59.08       | Dec. 14, 1959                             | 7.17        |
| Jan. 1972                          | 8.94        | Jan. 25, 1962            | 58.58       | Dec. 5, 1960                              | 7.78        |
| Mar. 19, 1973                      | 11.85       | Jan. 4, 1963             | 58.18       | Jan. 29, 1962                             | 7.50        |
| Sept. 6, 1973                      | 8.98        | Dec. 30, 1963            | 58.08       | Dec. 14, 1962                             | 6.97        |
| Sept. 11, 1973                     | 6.61        | Dec. 30, 1964            | 59.57       | Apr. 6, 1963                              | 10.94       |
| Jan. 17, 1974                      | 8.03        | Dec. 28, 1965            | 58.77       | Dec. 10, 1963                             | 7.63        |
| Apr. 11, 1974                      | 11.75       | Jan. 10, 1967            | 58.18       | Dec. 7, 1964                              | 9.35        |
| June 3, 1974                       | 6.94        | Dec. 27, 1967            | 72.40       | Dec. 28, 1965                             | 8.65        |
| Sept. 6, 1974                      | 6.73        | Jan. 6, 1969             | 73.66       | Dec. 29, 1966                             | 8.09        |
| Jan. 24, 1975                      | 10.82       | Jan. 14, 1970            | 71.45       | Dec. 26, 1967                             | 7.82        |
| Sept. 29, 1975                     | 6.01        | Jan. 1971                | 65.02       | Jan. 27, 1969                             | 7.89        |
| Jan. 14, 1976                      | 7.92        | Jan. 14, 1976            | 35.31       | Jan. 31, 1970                             | 7.97        |
| Mar. 16, 1976                      | 7.23        | <b>Well JL-49-22-203</b> |             | Feb. 2, 1971                              | 8.05        |
| June 18, 1976                      | 6.64        | Owner: City of El Paso   |             | Jan. 11, 1972                             | 8.20        |
| Dec. 9, 1976                       | 7.37        | Apr. 10, 1968            | 10.86       | Jan. 29, 1973                             | 9.37        |
| <b>Well JL-49-22-117</b>           |             | July 16, 1968            | 10.52       | Jan. 24, 1975                             | 7.35        |
| Owner: Sidney M. Metzger           |             | Oct. 28, 1968            | 10.57       | Jan. 16, 1976                             | 7.86        |
| June 21, 1966                      | 18.76       | Jan. 14, 1969            | 11.44       | Jan. 16, 1977                             | 7.93        |
| Dec. 28, 1965                      | 17.22       | Mar. 19, 1969            | 10.88       | <b>Well JL-49-22-402</b>                  |             |
| Mar. 8, 1966                       | 17.22       | June 20, 1969            | 10.47       | Owner: Ysleta Independent School District |             |
| Dec. 26, 1967                      | 17.27       | Sept. 26, 1969           | 9.82        | July 13, 1956                             | 10.65       |
| Jan. 26, 1975                      | 18.10       | Dec. 8, 1969             | 10.29       | Nov. 16, 1956                             | 10.39       |
| Jan. 16, 1976                      | 19.05       | Mar. 27, 1970            | 10.46       | Dec. 3, 1957                              | 8.12        |
| <b>Well JL-49-22-122</b>           |             | June 22, 1970            | 10.08       | Dec. 5, 1958                              | 5.70        |
| Owner: City of El Paso             |             | Sept. 23, 1970           | 8.83        | Dec. 14, 1959                             | 5.88        |
| Nov. 15, 1971                      | 25.00       | Jan. 1971                | 9.72        | Dec. 5, 1960                              | 6.50        |
| Jan. 1973                          | 22.95       | June 16, 1971            | 10.02       | Jan. 29, 1962                             | 6.13        |
| Nov. 30, 1976                      | 26.21       | Oct. 27, 1971            | 10.59       | Dec. 14, 1962                             | 5.65        |
|                                    |             | Jan. 1972                | 10.74       |   |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                     | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|--------------------------|-------------|
| <b>Well JL-49-22-402—Continued</b> |             | <b>Well JL-49-22-402—Continued</b> |             | <b>Well JL-49-22-501</b> |             |
| Dec. 10, 1963                      | 5.99        | Feb. 25, 1975                      | 5.06        | Owner: City of El Paso   |             |
| Dec. 7, 1964                       | 8.50        | Mar. 11, 1975                      | 5.20        | Apr. 10, 1968            | 8.94        |
| Dec. 28, 1965                      | 7.72        | Mar. 25, 1975                      | 5.22        | July 16, 1968            | 7.96        |
| Dec. 29, 1966                      | 6.65        | Apr. 8, 1975                       | 4.41        | Oct. 28, 1968            | 8.16        |
| Dec. 26, 1967                      | 6.02        | Apr. 22, 1975                      | 4.87        | Jan. 14, 1969            | 8.70        |
| Jan. 27, 1969                      | 5.45        | May 6, 1975                        | 5.16        | Mar. 19, 1969            | 8.84        |
| Feb. 4, 1970                       | 6.00        | May 21, 1975                       | 4.82        | June 20, 1969            | 8.43        |
| Feb. 2, 1971                       | 5.69        | June 3, 1975                       | 4.90        | Sept. 26, 1969           | 7.73        |
| Jan. 12, 1972                      | 6.39        | June 16, 1975                      | 5.10        | Dec. 8, 1969             | 8.29        |
| Jan. 30, 1973                      | 8.98        | June 30, 1975                      | 4.92        | Mar. 23, 1970            | 8.42        |
| Sept. 5, 1973                      | 4.94        | July 15, 1975                      | 5.07        | June 22, 1970            | 7.91        |
| Jan. 21, 1974                      | 5.91        | July 29, 1975                      | 5.11        | Sept. 23, 1970           | 7.33        |
| Jan. 28, 1974                      | 6.10        | Aug. 12, 1975                      | 5.12        | Jan. 1971                | 8.05        |
| Feb. 4, 1974                       | 6.16        | Sept. 9, 1975                      | 4.68        | June 16, 1971            | 8.74        |
| Feb. 11, 1974                      | 6.30        | Sept. 22, 1975                     | 4.80        | Oct. 27, 1971            | 8.74        |
| Mar. 1, 1974                       | 6.82        | Oct. 7, 1975                       | 5.06        | Jan. 1972                | 8.90        |
| Mar. 8, 1974                       | 6.80        | Oct. 21, 1975                      | 5.32        | Mar. 22, 1972            | 9.35        |
| Mar. 15, 1974                      | 6.73        | Nov. 4, 1975                       | 5.51        | June 27, 1972            | 9.75        |
| Mar. 25, 1974                      | 5.66        | Nov. 18, 1975                      | 5.57        | Sept. 25, 1972           | 10.08       |
| Apr. 22, 1974                      | 6.00        | Dec. 2, 1975                       | 5.64        | Mar. 19, 1973            | 10.39       |
| May 13, 1974                       | 4.65        | Dec. 16, 1975                      | 5.68        | Sept. 6, 1974            | 8.67        |
| May 29, 1974                       | 4.70        | Jan. 16, 1976                      | 5.77        | Jan. 24, 1975            | 8.13        |
| June 14, 1974                      | 5.10        | Feb. 11, 1976                      | 5.81        | Sept. 29, 1975           | 7.95        |
| June 21, 1974                      | 4.90        | Mar. 12, 1976                      | 5.85        | Jan. 14, 1976            | 8.60        |
| July 9, 1974                       | 4.75        | Apr. 27, 1976                      | 5.32        | Mar. 16, 1976            | 8.82        |
| July 23, 1974                      | 6.65        | May 26, 1976                       | 5.58        | June 18, 1976            | 8.82        |
| Aug. 5, 1974                       | 4.56        | June 15, 1976                      | 5.65        | Dec. 15, 1976            | 8.83        |
| Sept. 4, 1974                      | 4.80        | July 12, 1976                      | 5.53        |                          |             |
| Oct. 2, 1974                       | 3.94        | Aug. 30, 1976                      | 5.93        | <b>Well JL-49-22-502</b> |             |
| Oct. 24, 1974                      | 4.62        | Sept. 22, 1976                     | 5.77        | Owner: City of El Paso   |             |
| Nov. 7, 1974                       | 4.85        | Nov. 1, 1976                       | 5.89        | May 2, 1968              | 10.12       |
| Nov. 20, 1974                      | 4.96        | Jan. 3, 1977                       | 6.00        | July 16, 1968            | 7.85        |
| Dec. 4, 1974                       | 5.04        | Jan. 6, 1977                       | 5.96        | Oct. 28, 1968            | 9.41        |
| Dec. 18, 1974                      | 5.15        | Feb. 9, 1977                       | 6.06        | Jan. 14, 1969            | 10.07       |
| Jan. 3, 1975                       | 6.20        | Mar. 15, 1977                      | 6.09        | Mar. 19, 1969            | 9.36        |
| Jan. 13, 1975                      | 5.30        | Apr. 11, 1977                      | 6.02        | June 20, 1969            | 8.79        |
| Feb. 7, 1975                       | 5.11        | May 10, 1977                       | 5.97        | Sept. 26, 1969           | 9.07        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                         | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-22-502—Continued</b> |             | <b>Well JL-49-22-531</b>     |             | <b>Well JL-49-22-536—Continued</b> |             |
| Dec. 8, 1969                       | 9.86        | Owner: A. J. Apodaca         |             | Dec. 27, 1967                      | 10.80       |
| Mar. 23, 1970                      | 9.76        | July 13, 1956                | 22.24       | Jan. 24, 1969                      | 11.23       |
| June 22, 1970                      | 9.16        | Jan. 21, 1959                | 13.44       | Jan. 30, 1970                      | 11.05       |
| Sept. 23, 1970                     | 8.57        | Dec. 14, 1959                | 9.38        | Feb. 1, 1971                       | 11.00       |
| Jan. 1971                          | 9.70        | Dec. 5, 1960                 | 9.46        | Jan. 11, 1972                      | 11.46       |
| June 16, 1971                      | 8.52        | Jan. 29, 1962                | 10.78       | Oct. 9, 1973                       | 8.90        |
| Oct. 27, 1971                      | 9.32        | Dec. 14, 1962                | 9.28        | Jan. 24, 1975                      | 9.63        |
| Jan. 1972                          | 9.84        | Dec. 10, 1963                | 9.33        | Jan. 16, 1976                      | 10.20       |
| Mar. 23, 1972                      | 8.32        | Dec. 7, 1964                 | 12.98       | Jan. 6, 1977                       | 10.21       |
| June 29, 1972                      | 9.90        | Jan. 13, 1966                | 11.27       | <b>Well JL-49-22-601</b>           |             |
| Sept. 25, 1972                     | 10.27       | Dec. 15, 1966                | 9.82        | Owner: City of El Paso             |             |
| Mar. 23, 1973                      | 10.14       | Dec. 26, 1967                | 9.47        | May 2, 1968                        | 9.25        |
| <b>Well JL-49-22-515</b>           |             | Jan. 24, 1969                | 9.60        | July 16, 1968                      | 8.61        |
| Owner: George B. Spence            |             | Jan. 3, 1970                 | 9.63        | Oct. 28, 1968                      | 9.98        |
| Nov. 16, 1956                      | 16.29       | Feb. 1, 1971                 | 9.90        | Jan. 14, 1969                      | 9.07        |
| Nov. 29, 1957                      | 15.08       | Jan. 11, 1972                | 9.66        | Mar. 19, 1969                      | 8.33        |
| Dec. 4, 1958                       | 11.81       | Jan. 29, 1973                | 10.09       | June 20, 1969                      | 8.09        |
| Dec. 7, 1959                       | 9.25        | Oct. 5, 1973                 | 7.43        | Sept. 26, 1969                     | 8.24        |
| Dec. 5, 1960                       | 8.55        | Jan. 24, 1975                | 6.93        | Dec. 8, 1969                       | 9.22        |
| Jan. 29, 1962                      | 9.27        | Jan. 16, 1976                | 7.97        | Mar. 27, 1970                      | 8.85        |
| Dec. 18, 1962                      | 8.57        | Jan. 6, 1977                 | 7.94        | June 22, 1970                      | 8.66        |
| Dec. 10, 1963                      | 8.87        | <b>Well JL-49-22-536</b>     |             | Sept. 23, 1970                     | 5.51        |
| Dec. 7, 1964                       | 11.37       | Owner: Hosmer W. Hill Estate |             | Jan. 1971                          | 9.08        |
| Jan. 13, 1966                      | 10.80       | July 11, 1956                | 25.45       | June 16, 1971                      | 10.09       |
| Dec. 15, 1966                      | 9.52        | Nov. 16, 1956                | 17.68       | Oct. 27, 1971                      | 9.44        |
| Dec. 26, 1967                      | 10.44       | Dec. 3, 1957                 | 15.38       | Jan. 1972                          | 10.05       |
| Jan. 27, 1969                      | 9.32        | Dec. 5, 1958                 | 11.29       | Mar. 23, 1972                      | 12.05       |
| Feb. 4, 1970                       | 9.32        | Dec. 14, 1959                | 9.88        | June 29, 1972                      | 11.61       |
| Feb. 1, 1971                       | 9.40        | Dec. 5, 1960                 | 10.67       | Sept. 25, 1972                     | 10.30       |
| Jan. 12, 1972                      | 9.43        | Jan. 29, 1962                | 11.19       | Mar. 22, 1973                      | 9.57        |
| Jan. 30, 1973                      | 10.47       | Dec. 14, 1962                | 10.09       | Sept. 17, 1973                     | 8.43        |
| Oct. 10, 1973                      | 8.00        | Dec. 10, 1963                | 10.20       | Jan. 17, 1974                      | 9.94        |
| Jan. 24, 1975                      | 7.82        | Dec. 7, 1964                 | 14.55       | Apr. 9, 1974                       | 9.49        |
| Jan. 16, 1976                      | 8.36        | Jan. 13, 1966                | 12.00       | June 3, 1974                       | 9.95        |
| Jan. 6, 1977                       | 7.39        | Dec. 15, 1966                | 10.60       | Oct. 2, 1974                       | 7.99        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-22-601—Continued</b> |             | <b>Well JL-49-22-803—Continued</b> |             | <b>Well JL-49-22-803—Continued</b> |             |
| Jan. 24, 1975                      | 9.26        | Mar. 23, 1970                      | 6.55        | Dec. 18, 1974                      | 6.80        |
| Sept. 29, 1975                     | 9.17        | June 22, 1970                      | 5.83        | Jan. 3, 1975                       | 6.95        |
| Jan. 14, 1976                      | 9.48        | Sept. 23, 1970                     | 6.51        | Jan. 13, 1975                      | 6.97        |
| Mar. 16, 1976                      | 8.59        | Jan. 1971                          | 7.93        | Feb. 7, 1975                       | 6.90        |
| June 18, 1976                      | 9.48        | June 16, 1971                      | 6.72        | Feb. 25, 1975                      | 7.12        |
| Dec. 15, 1976                      | 9.47        | Oct. 27, 1971                      | 7.74        | Mar. 11, 1975                      | 6.85        |
| <b>Well JL-49-22-612</b>           |             | Jan. 1972                          | 8.53        | Mar. 25, 1975                      | 6.40        |
| Owner: Eleanor Coldwell Estate     |             | Mar. 23, 1972                      | 7.51        | Apr. 8, 1975                       | 6.40        |
| Nov. 16, 1956                      | 17.51       | June 29, 1972                      | 8.22        | Apr. 22, 1975                      | 6.25        |
| Nov. 29, 1957                      | 14.81       | Sept. 25, 1972                     | 7.67        | May 6, 1975                        | 6.70        |
| Dec. 4, 1958                       | 9.54        | Mar. 22, 1973                      | 8.53        | May 21, 1975                       | 6.44        |
| Dec. 7, 1959                       | 7.72        | Sept. 17, 1973                     | 6.07        | June 3, 1975                       | 6.23        |
| Dec. 5, 1960                       | 7.73        | Jan. 21, 1974                      | 7.41        | June 16, 1975                      | 6.45        |
| Jan. 29, 1962                      | 7.90        | Jan. 28, 1974                      | 7.46        | June 30, 1975                      | 6.40        |
| Dec. 18, 1962                      | 7.10        | Feb. 9, 1974                       | 7.50        | July 15, 1975                      | 6.58        |
| Dec. 10, 1963                      | 7.82        | Feb. 11, 1974                      | 7.64        | July 29, 1975                      | 6.75        |
| Dec. 7, 1964                       | 9.44        | Feb. 11, 1974                      | 7.74        | Aug. 12, 1975                      | 5.74        |
| Jan. 13, 1966                      | 9.00        | Feb. 19, 1974                      | 7.74        | Sept. 9, 1975                      | 5.75        |
| Dec. 15, 1966                      | 7.32        | Mar. 1, 1974                       | 7.63        | Sept. 22, 1975                     | 5.74        |
| Dec. 26, 1967                      | 7.40        | Mar. 8, 1974                       | 6.93        | Oct. 7, 1975                       | 6.57        |
| Feb. 1, 1971                       | 7.76        | Mar. 15, 1974                      | 6.87        | Oct. 21, 1975                      | 7.11        |
| Jan. 12, 1972                      | 7.60        | Mar. 25, 1974                      | 6.76        | Nov. 4, 1975                       | 7.07        |
| Jan. 30, 1973                      | 8.21        | Apr. 9, 1974                       | 6.55        | Nov. 18, 1975                      | 7.14        |
| Oct. 10, 1973                      | 5.12        | Apr. 22, 1974                      | 7.68        | Dec. 2, 1975                       | 7.42        |
| Jan. 25, 1975                      | 6.63        | May 13, 1974                       | 6.40        | Dec. 16, 1975                      | 7.59        |
| Jan. 16, 1976                      | 6.73        | May 29, 1974                       | 6.30        | Jan. 14, 1976                      | 7.79        |
| <b>Well JL-49-22-803</b>           |             | June 14, 1974                      | 5.82        | Feb. 11, 1976                      | 7.70        |
| Owner: City of El Paso             |             | June 21, 1974                      | 5.30        | Mar. 12, 1976                      | 7.15        |
| May 2, 1968                        | 7.08        | July 9, 1974                       | 5.30        | Apr. 27, 1976                      | 6.22        |
| July 16, 1968                      | 5.74        | July 23, 1974                      | 5.60        | May 26, 1976                       | 5.58        |
| Oct. 28, 1968                      | 6.94        | Aug. 5, 1974                       | 4.50        | June 15, 1976                      | 6.17        |
| Jan. 14, 1969                      | 7.54        | Sept. 4, 1974                      | 5.78        | July 12, 1976                      | 5.89        |
| Mar. 19, 1969                      | 6.54        | Oct. 2, 1974                       | 5.47        | Aug. 30, 1976                      | 5.95        |
| June 20, 1969                      | 6.51        | Oct. 24, 1974                      | 5.86        | Sept. 22, 1976                     | 6.40        |
| Sept. 26, 1969                     | 5.82        | Nov. 7, 1974                       | 7.04        | Nov. 1, 1976                       | 7.00        |
| Dec. 8, 1969                       | 6.54        | Nov. 20, 1974                      | 6.30        | Dec. 15, 1976                      | 7.36        |
|                                    |             | Dec. 4, 1974                       | 6.54        | Jan. 3, 1977                       | 6.82        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE   | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|--|-------------|
| <b>Well JL-49-22-803—Continued</b> |             | <b>Well JL-49-22-826—Continued</b> |             | <b>Well JL-49-22-909—Continued</b>                   |             |
| Feb. 9, 1977                       | 7.66        | Feb. 1, 1971                       | 8.95        | Feb. 4, 1970   | 8.75        |
| Mar. 15, 1977                      | 6.74        | Jan. 11, 1972                      | 6.50        | Feb. 1, 1971   | 8.50        |
| Apr. 11, 1977                      | 6.84        | July 26, 1973                      | 8.62        | Jan. 12, 1972  | 8.76        |
| May 10, 1977                       | 6.78        |                                    |             | Jan. 30, 1973  | 8.85        |
|                                    |             | <b>Well JL-49-22-834</b>           |             | July 27, 1973  | 7.73        |
|                                    |             | Owner: City of El Paso             |             | Jan. 26, 1975  | 6.55        |
|                                    |             | July 6, 1956                       | 23.62       | Jan. 16, 1976  | 6.51        |
|                                    |             | Nov. 15, 1956                      | 21.13       | Jan. 6, 1977   | 7.02        |
|                                    |             | Dec. 3, 1957                       | 17.48       |  |             |
|                                    |             | Dec. 2, 1958                       | 8.74        | <b>Well JL-49-22-922</b>                             |             |
|                                    |             | Dec. 10, 1959                      | 7.05        | Owner: H. L. and H. J. Pederson,<br>and D. R. Cramer |             |
|                                    |             | Dec. 5, 1960                       | 6.54        | Nov. 15, 1956  | 20.53       |
|                                    |             | Jan. 29, 1962                      | 8.01        | Dec. 4, 1958   | 16.70       |
|                                    |             | Dec. 14, 1962                      | 7.95        | Dec. 7, 1959   | 9.54        |
|                                    |             | Dec. 10, 1963                      | 8.75        | Dec. 5, 1960   | 9.95        |
|                                    |             | Dec. 7, 1964                       | 12.77       | Jan. 29, 1962  | 11.23       |
|                                    |             | Jan. 13, 1966                      | 9.64        | Dec. 14, 1962  | 10.07       |
|                                    |             | Dec. 27, 1967                      | 4.42        | Dec. 10, 1963  | 9.57        |
|                                    |             | Jan. 24, 1969                      | 6.40        | Dec. 7, 1964   | 13.08       |
|                                    |             | Jan. 31, 1970                      | 6.91        | Jan. 13, 1966  | 11.40       |
|                                    |             | Feb. 2, 1971                       | 7.40        | Dec. 15, 1966  | 8.56        |
|                                    |             | Jan. 11, 1972                      | 7.95        | Dec. 26, 1967  | 8.72        |
|                                    |             | Jan. 29, 1973                      | 8.70        | Jan. 24, 1969  | 9.29        |
|                                    |             | July 25, 1973                      | 6.75        | Jan. 29, 1970  | 9.18        |
|                                    |             | Jan. 26, 1975                      | 6.75        | Feb. 1, 1971   | 8.88        |
|                                    |             | Jan. 16, 1976                      | 7.03        | Jan. 11, 1972  | 9.51        |
|                                    |             | Jan. 6, 1977                       | 6.80        | Jan. 30, 1973  | 10.09       |
|                                    |             |                                    |             | Jan. 26, 1975  | 8.73        |
|                                    |             | <b>Well JL-49-22-909</b>           |             | Jan. 16, 1976  | 9.16        |
|                                    |             | Owner: Louis Burrus                |             | Jan. 6, 1977   | 9.91        |
|                                    |             | July 2, 1956                       | 14.00       |  |             |
|                                    |             | Nov. 14, 1956                      | 14.00       | <b>Well JL-49-22-937</b>                             |             |
|                                    |             | Dec. 2, 1957                       | 13.08       | Owner: S. O. Roberts,<br>Jr., et al.                 |             |
|                                    |             | Dec. 4, 1958                       | 9.07        | Nov. 15, 1956  | 21.19       |
|                                    |             | Dec. 7, 1959                       | 6.50        | Dec. 3, 1957   | 20.10       |
|                                    |             | Dec. 18, 1962                      | 5.66        | Dec. 4, 1958   | 15.31       |
|                                    |             | Dec. 22, 1967                      | 8.30        | Dec. 7, 1959   | 12.40       |
|                                    |             | Jan. 24, 1969                      | 8.05        |  |             |
|                                    |             |                                    |             |  |             |
| <b>Well JL-49-22-809</b>           |             |                                    |             |  |             |
| Owner: City of El Paso             |             |                                    |             |  |             |
| Nov. 16, 1956                      | 14.79       |                                    |             |  |             |
| Dec. 4, 1957                       | 11.07       |                                    |             |  |             |
| Dec. 2, 1958                       | 7.30        |                                    |             |  |             |
| Dec. 11, 1959                      | 7.15        |                                    |             |  |             |
| Dec. 5, 1960                       | 7.93        |                                    |             |  |             |
| Jan. 29, 1962                      | 8.02        |                                    |             |  |             |
| Dec. 14, 1962                      | 7.43        |                                    |             |  |             |
| Dec. 10, 1963                      | 7.75        |                                    |             |  |             |
| Dec. 7, 1964                       | 9.84        |                                    |             |  |             |
| Jan. 13, 1966                      | 8.47        |                                    |             |  |             |
| Dec. 13, 1966                      | 7.37        |                                    |             |  |             |
| Dec. 27, 1967                      | 7.30        |                                    |             |  |             |
| Jan. 24, 1969                      | 8.14        |                                    |             |  |             |
| Jan. 31, 1970                      | 8.08        |                                    |             |  |             |
| Feb. 1, 1971                       | 7.73        |                                    |             |  |             |
| Jan. 11, 1972                      | 7.95        |                                    |             |  |             |
| Jan. 29, 1973                      | 8.09        |                                    |             |  |             |
| July 25, 1973                      | 6.92        |                                    |             |  |             |
| Jan. 24, 1975                      | 6.09        |                                    |             |  |             |
| Jan. 16, 1976                      | 6.95        |                                    |             |  |             |
| Jan. 6, 1977                       | 7.02        |                                    |             |  |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                                 | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|--------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-22-937—Continued</b>   |             | <b>Well JL-49-23-702—Continued</b> |             | <b>Well JL-49-30-202—Continued</b> |             |
| Dec. 5, 1960                         | 12.22       | Feb. 5, 1962                       | 120.57      | Dec. 10, 1959                      | 7.54        |
| Jan. 29, 1962                        | 12.59       | Dec. 13, 1962                      | 120.39      | Dec. 14, 1962                      | 7.52        |
| Dec. 18, 1962                        | 11.80       | Dec. 11, 1963                      | 120.44      | Dec. 27, 1967                      | 7.07        |
| Dec. 10, 1963                        | 11.95       | Dec. 14, 1964                      | 120.44      | Jan. 24, 1969                      | 7.58        |
| Dec. 7, 1964                         | 14.25       | Feb. 3, 1966                       | 120.35      | Jan. 31, 1970                      | 6.94        |
| Jan. 13, 1966                        | 13.15       | Dec. 28, 1966                      | 120.54      | Feb. 2, 1971                       | 6.90        |
| Dec. 15, 1966                        | 11.76       | Dec. 26, 1967                      | 120.19      | Jan. 11, 1972                      | 8.60        |
| Dec. 26, 1967                        | 12.10       | Jan. 27, 1969                      | 120.28      | Jan. 29, 1973                      | 7.96        |
| Jan. 24, 1969                        | 11.50       | Feb. 4, 1970                       | 120.22      | July 23, 1973                      | 5.90        |
| Jan. 29, 1970                        | 11.67       | Nov. 20, 1973                      | 124.59      | Oct. 17, 1973                      | 7.76        |
| Feb. 1, 1971                         | 11.76       |                                    |             | Jan. 15, 1974                      | 8.75        |
| Jan. 11, 1972                        | 11.76       | <b>Well JL-49-23-704</b>           |             | Jan. 21, 1974                      | 9.06        |
| Jan. 29, 1973                        | 14.09       | Owner: Columbus P. Brown           |             | Jan. 28, 1974                      | 8.78        |
| Aug. 6, 1973                         | 10.94       | Nov. 14, 1956                      | 14.24       | Feb. 4, 1974                       | 8.85        |
| Jan. 26, 1975                        | 10.66       | Dec. 2, 1957                       | 14.35       | Feb. 11, 1974                      | 8.86        |
| Jan. 16, 1976                        | 10.73       | Dec. 4, 1958                       | 11.79       | Feb. 19, 1974                      | 9.55        |
| Jan. 6, 1977                         | 10.60       | Dec. 7, 1959                       | 9.68        | Mar. 1, 1974                       | 9.96        |
|                                      |             | Dec. 5, 1960                       | 9.04        | Mar. 25, 1974                      | 8.30        |
| <b>Well JL-49-23-701</b>             |             | Jan. 29, 1962                      | 9.33        | Apr. 8, 1974                       | 9.24        |
| Owner: City of El Paso               |             | Dec. 18, 1962                      | 8.74        | Apr. 22, 1974                      | 9.56        |
| June 7, 1968                         | 8.44        | Dec. 10, 1963                      | 9.64        | May 13, 1974                       | 8.10        |
| July 16, 1968                        | 6.74        | Dec. 7, 1964                       | 10.52       | May 29, 1974                       | 8.27        |
| Oct. 28, 1968                        | 8.08        | Jan. 13, 1966                      | 9.87        | June 14, 1974                      | 8.03        |
| Jan. 14, 1969                        | 8.38        | Dec. 15, 1966                      | 9.02        | June 21, 1974                      | 7.90        |
| Mar. 19, 1969                        | 8.16        | Dec. 26, 1967                      | 9.30        | July 9, 1974                       | 8.00        |
| June 20, 1969                        | 7.39        | Jan. 17, 1969                      | 8.70        | July 23, 1974                      | 7.99        |
| Sept. 26, 1969                       | 6.10        | Feb. 4, 1970                       | 9.57        | Aug. 5, 1974                       | 7.11        |
| Dec. 8, 1969                         | 9.89        | Feb. 1, 1971                       | 9.50        | Sept. 4, 1974                      | 7.51        |
| Mar. 27, 1970                        | 9.60        | Jan. 12, 1972                      | 9.78        | Oct. 2, 1974                       | 6.62        |
| June 22, 1970                        | 9.28        | Jan. 29, 1973                      | 9.80        | Oct. 24, 1974                      | 6.56        |
| Sept. 23, 1970                       | 9.04        | Aug. 7, 1973                       | 9.10        | Nov. 7, 1974                       | 7.06        |
| Jan. 1971                            | 9.27        | Jan. 26, 1975                      | 8.85        | Nov. 20, 1974                      | 7.43        |
| June 16, 1971                        | 9.37        | Jan. 17, 1976                      | 8.67        | Dec. 4, 1974                       | 7.64        |
| Oct. 27, 1971                        | 9.54        |                                    |             | Dec. 18, 1974                      | 7.79        |
| <b>Well JL-49-23-702</b>             |             | <b>Well JL-49-30-202</b>           |             | Jan. 3, 1975                       | 8.93        |
| Owner: Union "76"<br>Service Station |             | Owner: Ruth K. Brennand            |             | Jan. 13, 1975                      | 9.15        |
| Sept. 2, 1960                        | 120.90      | Nov. 14, 1956                      | 17.53       | Feb. 7, 1975                       | 7.52        |
| Dec. 20, 1960                        | 120.90      | Dec. 3, 1957                       | 13.34       | Feb. 25, 1975                      | 8.35        |
|                                      |             | Dec. 2, 1958                       | 7.28        |                                    |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                      | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|---------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-30-202—Continued</b> |             | <b>Well JL-49-30-203</b>  |             | <b>Well JL-49-30-203—Continued</b> |             |
| Mar. 11, 1975                      | 8.91        | Owner: Lawrence Dindinger |             | Nov. 7, 1974                       | 6.71        |
| Mar. 25, 1975                      | 7.40        | July 6, 1956              | 15.65       | Nov. 20, 1974                      | 6.54        |
| Apr. 8, 1975                       | 7.62        | Nov. 14, 1956             | 13.91       | Dec. 4, 1974                       | 6.94        |
| Apr. 22, 1975                      | 7.78        | Dec. 3, 1957              | 10.44       | Dec. 18, 1974                      | 7.10        |
| May 6, 1975                        | 7.79        | Dec. 2, 1958              | 6.38        | Jan. 3, 1975                       | 7.25        |
| May 21, 1975                       | 8.00        | Dec. 10, 1959             | 6.80        | Jan. 13, 1975                      | 7.32        |
| June 3, 1975                       | 8.10        | Dec. 14, 1962             | 7.55        | Feb. 12, 1975                      | 7.25        |
| June 16, 1975                      | 8.31        | Dec. 27, 1967             | 6.87        | Feb. 25, 1975                      | 7.37        |
| June 30, 1975                      | 8.65        | Jan. 24, 1969             | 8.02        | Mar. 11, 1975                      | 7.36        |
| July 15, 1975                      | 8.03        | Jan. 31, 1970             | 7.40        | Mar. 25, 1975                      | 6.80        |
| July 29, 1975                      | 8.15        | Feb. 1, 1971              | 7.77        | Apr. 8, 1975                       | 7.10        |
| Aug. 12, 1975                      | 8.43        | Jan. 11, 1972             | 8.43        | Apr. 22, 1975                      | 7.14        |
| Sept. 9, 1975                      | 7.34        | Jan. 29, 1973             | 8.55        | May 6, 1975                        | 7.16        |
| Sept. 22, 1975                     | 7.86        | July 23, 1973             | 7.70        | May 21, 1975                       | 7.30        |
| Oct. 7, 1975                       | 7.60        | Oct. 17, 1973             | 7.46        | June 3, 1975                       | 7.25        |
| Oct. 21, 1975                      | 8.00        | Jan. 15, 1974             | 8.16        | June 16, 1975                      | 7.78        |
| Nov. 4, 1975                       | 7.84        | Jan. 21, 1974             | 8.33        | June 30, 1975                      | 7.28        |
| Nov. 18, 1975                      | 8.22        | Jan. 28, 1974             | 8.35        | July 15, 1975                      | 7.63        |
| Dec. 2, 1975                       | 8.18        | Feb. 4, 1974              | 8.32        | July 29, 1975                      | 8.08        |
| Dec. 16, 1975                      | 8.40        | Feb. 11, 1974             | 8.34        |                                    |             |
| Jan. 17, 1976                      | 8.53        | Feb. 19, 1974             | 8.90        | <b>Well JL-49-30-303</b>           |             |
| Feb. 11, 1976                      | 8.28        | Mar. 1, 1974              | 8.83        | Owner: City of El Paso             |             |
| Mar. 12, 1976                      | 8.29        | Mar. 8, 1974              | 7.72        | June 7, 1968                       | 7.37        |
| Apr. 27, 1976                      | 7.06        | Mar. 15, 1974             | 7.23        | July 16, 1968                      | 6.50        |
| May 26, 1976                       | 6.50        | Mar. 25, 1974             | 7.85        | Oct. 28, 1968                      | 7.55        |
| June 15, 1976                      | 6.94        | Apr. 8, 1974              | 9.33        | Jan. 14, 1969                      | 8.34        |
| July 12, 1976                      | 6.99        | Apr. 22, 1974             | 9.24        | Mar. 19, 1969                      | 6.57        |
| Aug. 30, 1976                      | 6.23        | May 13, 1974              | 8.35        | June 20, 1969                      | 6.41        |
| Sept. 22, 1976                     | 5.96        | May 29, 1974              | 8.08        | Sept. 26, 1969                     | 6.54        |
| Nov. 1, 1976                       | 7.92        | June 14, 1974             | 8.10        | Dec. 8, 1969                       | 6.56        |
| Jan. 3, 1977                       | 8.61        | June 21, 1974             | 8.13        | Mar. 23, 1970                      | 6.48        |
| Jan. 11, 1977                      | 8.55        | July 9, 1974              | 7.00        | June 22, 1970                      | 5.25        |
| Feb. 9, 1977                       | 8.78        | July 23, 1974             | 7.40        | Sept. 23, 1970                     | 6.19        |
| Mar. 15, 1977                      | 8.36        | Aug. 5, 1974              | 8.20        | Jan. 1971                          | 6.88        |
| Apr. 11, 1977                      | 7.92        | Sept. 4, 1974             | 7.51        | June 16, 1971                      | 6.18        |
| May 10, 1977                       | 8.09        | Oct. 2, 1974              | 6.07        | Oct. 27, 1971                      | 7.39        |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE           | WATER LEVEL                        | DATE                                      | WATER LEVEL |                          |       |  |
|------------------------------------|-------------|----------------|------------------------------------|---|-------------|--------------------------|-------|--|
| <b>Well JL-49-30-303—Continued</b> |             |                | <b>Well JL-49-30-303—Continued</b> |   |             | <b>Well JL-49-30-311</b> |       |  |
| Jan. 1972                          | 8.34        | Mar. 11, 1975  | 6.60                               | Owner: American Finance & Investment Inc. |             | July 6, 1956             | 14.60 |  |
| Mar. 23, 1972                      | 6.80        | Mar. 25, 1975  | 6.02                               | Dec. 27, 1967                             | 11.17       |                          |       |  |
| June 29, 1972                      | 8.02        | Apr. 8, 1975   | 6.64                               | Feb. 1, 1971                              | 10.08       |                          |       |  |
| Sept. 25, 1972                     | 8.23        | Apr. 22, 1975  | 6.55                               | Jan. 11, 1972                             | 11.22       |                          |       |  |
| Mar. 22, 1973                      | 8.79        | May 6, 1975    | 6.50                               | Jan. 29, 1973                             | 14.38       |                          |       |  |
| Sept. 17, 1973                     | 6.33        | May 21, 1975   | 6.31                               | July 24, 1973                             | 8.55        |                          |       |  |
| Jan. 17, 1974                      | 9.61        | June 3, 1975   | 6.28                               | Jan. 26, 1975                             | 8.56        |                          |       |  |
| Jan. 21, 1974                      | 9.64        | June 16, 1975  | 6.40                               | Jan. 17, 1976                             | 8.79        |                          |       |  |
| Jan. 28, 1974                      | 9.76        | June 30, 1975  | 6.27                               | <b>Well JL-49-30-321</b>                  |             |                          |       |  |
| Feb. 4, 1974                       | 9.86        | July 15, 1975  | 6.10                               | Owner: D. Hernandez                       |             |                          |       |  |
| Feb. 11, 1974                      | 9.97        | July 29, 1975  | 6.50                               | June 22, 1956                             | 13.15       |                          |       |  |
| Feb. 19, 1974                      | 10.02       | Aug. 12, 1975  | 6.21                               | Nov. 14, 1956                             | 12.31       |                          |       |  |
| Mar. 1, 1974                       | 10.10       | Sept. 9, 1975  | 5.95                               | Dec. 2, 1957                              | 12.58       |                          |       |  |
| Mar. 8, 1974                       | 8.87        | Sept. 22, 1975 | 5.96                               | Dec. 4, 1958                              | 7.53        |                          |       |  |
| Mar. 15, 1974                      | 7.34        | Oct. 7, 1975   | 6.39                               | Dec. 11, 1959                             | 6.55        |                          |       |  |
| Mar. 25, 1974                      | 7.12        | Oct. 21, 1975  | 7.03                               | Dec. 5, 1960                              | 7.36        |                          |       |  |
| Apr. 8, 1974                       | 8.43        | Nov. 4, 1975   | 7.03                               | Jan. 29, 1962                             | 8.06        |                          |       |  |
| Apr. 9, 1974                       | 7.13        | Nov. 18, 1975  | 6.74                               | Dec. 14, 1962                             | 8.30        |                          |       |  |
| Apr. 22, 1974                      | 9.18        | Dec. 2, 1975   | 7.15                               | Dec. 10, 1963                             | 7.98        |                          |       |  |
| May 13, 1974                       | 7.04        | Dec. 16, 1975  | 7.23                               | Dec. 7, 1964                              | 9.68        |                          |       |  |
| May 29, 1974                       | 7.00        | Jan. 14, 1976  | 7.51                               | Jan. 13, 1966                             | 7.95        |                          |       |  |
| June 14, 1974                      | 6.30        | Feb. 11, 1976  | 6.98                               | Dec. 15, 1966                             | 5.68        |                          |       |  |
| June 21, 1974                      | 5.60        | Mar. 12, 1976  | 7.52                               | Dec. 27, 1967                             | 7.70        |                          |       |  |
| July 9, 1974                       | 4.87        | Apr. 27, 1976  | 6.15                               | Jan. 24, 1969                             | 7.77        |                          |       |  |
| July 23, 1974                      | 6.39        | May 26, 1976   | 5.76                               | Jan. 31, 1970                             | 7.25        |                          |       |  |
| Aug. 6, 1974                       | 5.40        | June 15, 1976  | 6.31                               | Feb. 1, 1971                              | 7.59        |                          |       |  |
| Sept. 4, 1974                      | 6.59        | July 12, 1976  | 6.09                               | Jan. 11, 1972                             | 7.70        |                          |       |  |
| Oct. 2, 1974                       | 6.05        | Aug. 30, 1976  | 5.85                               | Jan. 30, 1973                             | 8.72        |                          |       |  |
| Oct. 24, 1974                      | 6.41        | Sept. 22, 1976 | 6.14                               | July 24, 1973                             | 6.20        |                          |       |  |
| Nov. 7, 1974                       | 6.35        | Nov. 1, 1976   | 5.63                               | Jan. 26, 1975                             | 6.05        |                          |       |  |
| Nov. 20, 1974                      | 6.05        | Dec. 15, 1976  | 6.76                               | Jan. 17, 1976                             | 6.37        |                          |       |  |
| Dec. 4, 1974                       | 6.30        | Jan. 3, 1977   | 6.70                               | Jan. 11, 1977                             | 6.03        |                          |       |  |
| Dec. 18, 1974                      | 6.48        | Feb. 9, 1977   | 7.28                               | <b>Well JL-49-30-326</b>                  |             |                          |       |  |
| Jan. 3, 1975                       | 6.43        | Mar. 15, 1977  | 6.48                               | Owner: Ralph's Farms Inc.                 |             |                          |       |  |
| Jan. 13, 1975                      | 6.52        | Apr. 11, 1977  | 7.29                               | Nov. 14, 1956                             | 14.97       |                          |       |  |
| Feb. 12, 1975                      | 6.81        | May 10, 1977   | 6.64                               | Dec. 3, 1957                              | 11.61       |                          |       |  |
| Feb. 25, 1975                      | 6.98        |                |                                    |   |             |                          |       |  |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE           | WATER LEVEL | DATE                      | WATER LEVEL |
|------------------------------------|-------------|----------------|-------------|---------------------------|-------------|
| <b>Well JL-49-30-326—Continued</b> |             |                |             |                           |             |
| Dec. 2, 1958                       | 5.14        | Dec. 4, 1974   | 8.96        | Jan. 11, 1977             | 6.33        |
| Dec. 10, 1959                      | 5.60        | Dec. 18, 1974  | 6.98        | Feb. 9, 1977              | 7.17        |
| Dec. 14, 1962                      | 6.43        | Jan. 3, 1975   | 7.02        | Mar. 15, 1977             | 7.51        |
| Dec. 10, 1963                      | 6.32        | Jan. 13, 1975  | 7.00        | Apr. 11, 1977             | 7.23        |
| Dec. 7, 1964                       | 10.23       | Feb. 12, 1975  | 7.20        | May 10, 1977              | 6.59        |
| Jan. 13, 1966                      | 6.94        | Feb. 25, 1975  | 7.19        |                           |             |
| Dec. 15, 1966                      | 6.14        | Mar. 11, 1975  | 7.18        | <b>Well JL-49-30-606</b>  |             |
| Dec. 27, 1967                      | 6.14        | Mar. 25, 1975  | 6.66        | Owner: Ralph's Farms Inc. |             |
| Jan. 24, 1969                      | 6.53        | Apr. 8, 1975   | 6.61        | Nov. 19, 1956             | 21.50       |
| Jan. 31, 1970                      | 5.83        | Apr. 22, 1975  | 6.65        | Dec. 4, 1957              | 17.58       |
| Feb. 1, 1971                       | 6.30        | May 6, 1975    | 6.76        | Dec. 2, 1958              | 10.35       |
| Jan. 11, 1972                      | 6.55        | May 21, 1975   | 7.07        | Dec. 10, 1959             | 8.86        |
| Jan. 29, 1973                      | 7.03        | June 3, 1975   | 6.98        | Dec. 5, 1960              | 8.18        |
| Jan. 15, 1974                      | 7.91        | June 16, 1975  | 7.07        | Jan. 29, 1962             | 9.84        |
| Jan. 21, 1974                      | 7.83        | June 30, 1975  | 7.03        | Dec. 14, 1962             | 9.04        |
| Jan. 28, 1974                      | 7.95        | July 15, 1975  | 6.60        | Dec. 10, 1963             | 9.52        |
| Feb. 4, 1974                       | 7.99        | July 29, 1975  | 7.30        | Dec. 7, 1964              | 14.66       |
| Feb. 11, 1974                      | 8.15        | Aug. 12, 1975  | 7.38        | Jan. 13, 1966             | 11.77       |
| Feb. 19, 1974                      | 7.98        | Sept. 9, 1975  | 6.52        | Dec. 15, 1966             | 10.79       |
| Mar. 1, 1974                       | 8.22        | Sept. 22, 1975 | 6.46        | Dec. 27, 1967             | 12.03       |
| Mar. 8, 1974                       | 8.91        | Oct. 7, 1975   | 6.70        | Jan. 24, 1969             | 9.88        |
| Mar. 15, 1974                      | 8.08        | Oct. 21, 1975  | 7.34        | Jan. 29, 1970             | 9.57        |
| Mar. 25, 1974                      | 7.33        | Nov. 4, 1975   | 7.55        | Feb. 1, 1971              | 8.95        |
| Apr. 8, 1974                       | 8.40        | Nov. 18, 1975  | 7.57        | Jan. 11, 1972             | 10.06       |
| Apr. 22, 1974                      | 8.61        | Dec. 2, 1975   | 7.78        | Jan. 29, 1973             | 12.32       |
| May 13, 1974                       | 7.46        | Dec. 16, 1975  | 7.83        | July 16, 1973             | 9.82        |
| May 29, 1974                       | 8.31        | Jan. 17, 1976  | 7.08        | Jan. 26, 1975             | 9.08        |
| June 14, 1974                      | 8.36        | Feb. 11, 1976  | 7.53        | Jan. 17, 1976             | 9.23        |
| June 21, 1974                      | 7.28        | Mar. 12, 1976  | 7.70        | <b>Well JL-49-30-613</b>  |             |
| July 9, 1974                       | 7.10        | Apr. 27, 1976  | 6.68        | Owner: Guillermo Parada   |             |
| July 23, 1974                      | 8.90        | May 26, 1976   | 6.01        | Nov. 19, 1956             | 16.30       |
| Aug. 5, 1974                       | 7.70        | June 15, 1976  | 6.15        | Dec. 4, 1957              | 15.50       |
| Sept. 4, 1974                      | 8.60        | July 12, 1976  | 6.25        | Jan. 15, 1974             | 7.66        |
| Oct. 2, 1974                       | 5.66        | Aug. 30, 1976  | 6.64        | Jan. 21, 1974             | 7.67        |
| Oct. 24, 1974                      | 6.53        | Sept. 22, 1976 | 6.43        | Jan. 28, 1974             | 6.93        |
| Nov. 7, 1974                       | 6.25        | Nov. 1, 1976   | 7.04        | Feb. 4, 1974              | 7.82        |
| Nov. 20, 1974                      | 8.66        | Jan. 3, 1977   | 7.12        | Feb. 11, 1974             | 7.90        |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                                   | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|--|-------------|------------------------------------|-------------|
| <b>Well JL-49-30-613—Continued</b> |             | <b>Well JL-49-30-613—Continued</b>     |             | <b>Well JL-49-30-616—Continued</b> |             |
| Feb. 19, 1974                      | 8.66        | Sept. 9, 1975                          | 5.09        | Jan. 28, 1970                      | 6.39        |
| Mar. 1, 1974                       | 7.90        | Sept. 22, 1975                         | 5.08        | Feb. 1, 1971                       | 6.74        |
| Mar. 8, 1974                       | 7.63        | Oct. 7, 1975                           | 6.03        | Jan. 11, 1972                      | 6.53        |
| Mar. 15, 1974                      | 7.69        | Oct. 21, 1975                          | 6.64        | Jan. 30, 1973                      | 6.82        |
| Mar. 25, 1974                      | 7.90        | Nov. 18, 1975                          | 6.69        | July 16, 1973                      | 3.90        |
| Apr. 8, 1974                       | 7.94        | Dec. 2, 1975                           | 6.88        | Jan. 15, 1974                      | 6.64        |
| Apr. 22, 1974                      | 8.09        | Dec. 16, 1975                          | 6.93        | Jan. 21, 1974                      | 6.97        |
| May 13, 1974                       | 7.28        | Feb. 11, 1976                          | 7.06        | Jan. 28, 1974                      | 7.42        |
| May 29, 1974                       | 7.20        | Mar. 12, 1976                          | 7.29        | Feb. 4, 1974                       | 7.20        |
| June 14, 1974                      | 7.02        | Apr. 27, 1976                          | 6.25        | Feb. 11, 1974                      | 6.65        |
| June 21, 1974                      | 6.55        | June 15, 1976                          | 5.61        | Feb. 19, 1974                      | 6.64        |
| July 9, 1974                       | 5.19        | July 12, 1976                          | 5.78        | Mar. 1, 1974                       | 6.80        |
| July 23, 1974                      | 6.00        | Aug. 30, 1976                          | 5.83        | Mar. 8, 1974                       | 6.40        |
| Aug. 6, 1974                       | 6.26        | Sept. 22, 1976                         | 5.97        | Mar. 15, 1974                      | 6.19        |
| Sept. 4, 1974                      | 6.18        | Nov. 1, 1976                           | 6.78        | Mar. 25, 1974                      | 5.77        |
| Oct. 2, 1974                       | 4.30        | Jan. 3, 1977                           | 6.43        | Apr. 8, 1974                       | 7.23        |
| Oct. 24, 1974                      | 4.95        | Feb. 9, 1977                           | 6.94        | Apr. 22, 1974                      | 7.44        |
| Nov. 7, 1974                       | 5.26        | Mar. 15, 1977                          | 6.97        | May 13, 1974                       | 6.46        |
| Nov. 20, 1974                      | 5.75        | Apr. 11, 1977                          | 6.75        | May 29, 1974                       | 6.48        |
| Dec. 4, 1974                       | 6.22        | May 10, 1977                           | 6.95        | June 14, 1974                      | 6.85        |
| Dec. 18, 1974                      | 6.50        |  |             | June 21, 1974                      | 5.73        |
| Jan. 3, 1975                       | 6.59        | <b>Well JL-49-30-616</b>               |             | July 9, 1974                       | 4.65        |
| Jan. 13, 1975                      | 6.68        | Owner: Quintana and<br>Cordova Sanchez |             | July 23, 1974                      | 5.70        |
| Feb. 12, 1975                      | 6.70        | June 26, 1956                          | 11.27       | Aug. 6, 1974                       | 6.30        |
| Feb. 25, 1975                      | 6.90        | Nov. 19, 1956                          | 11.56       | Sept. 4, 1974                      | 6.08        |
| Mar. 11, 1975                      | 6.78        | Dec. 4, 1957                           | 10.21       | Oct. 2, 1974                       | 3.95        |
| Mar. 25, 1975                      | 6.33        | Dec. 2, 1958                           | 5.43        | Oct. 24, 1974                      | 4.23        |
| Apr. 8, 1975                       | 6.28        | Dec. 10, 1959                          | 5.30        | Nov. 7, 1974                       | 4.93        |
| Apr. 22, 1975                      | 6.25        | Dec. 5, 1960                           | 6.04        | Nov. 20, 1974                      | 5.00        |
| May 6, 1975                        | 6.30        | Jan. 29, 1962                          | 5.42        | Dec. 4, 1974                       | 5.22        |
| May 21, 1975                       | 6.37        | Dec. 14, 1962                          | 5.60        | Dec. 18, 1974                      | 5.53        |
| June 3, 1975                       | 6.25        | Dec. 10, 1963                          | 5.67        | Jan. 3, 1975                       | 5.64        |
| June 16, 1975                      | 6.20        | Dec. 7, 1964                           | 9.70        | Jan. 13, 1975                      | 5.73        |
| June 30, 1975                      | 6.02        | Jan. 13, 1966                          | 6.80        | Feb. 12, 1975                      | 5.85        |
| July 15, 1975                      | 5.89        | Dec. 15, 1966                          | 6.38        | Feb. 25, 1975                      | 5.83        |
| July 29, 1975                      | 6.08        | Dec. 27, 1967                          | 6.77        | Mar. 11, 1975                      | 5.84        |
| Aug. 12, 1975                      | 6.40        | Jan. 24, 1969                          | 6.50        | Mar. 25, 1975                      | 4.96        |

Table 6.--Water-Level Measurements From Observation Wells--Continued

| DATE                                | WATER LEVEL | DATE                                | WATER LEVEL | DATE                                | WATER LEVEL |
|-------------------------------------|-------------|-------------------------------------|-------------|-------------------------------------|-------------|
| <b>Well JL-49-30-616--Continued</b> |             | <b>Well JL-49-31-101--Continued</b> |             | <b>Well JL-49-31-101--Continued</b> |             |
| Apr. 8, 1975                        | 4.98        | Oct. 28, 1968                       | 7.88        | Apr. 9, 1974                        | 7.53        |
| Apr. 22, 1975                       | 5.34        | Jan. 14, 1969                       | 8.58        | Apr. 22, 1974                       | 8.58        |
| May 6, 1975                         | 5.69        | Mar. 19, 1969                       | 6.82        | May 13, 1974                        | 7.50        |
| May 21, 1975                        | 5.80        | June 20, 1969                       | 6.84        | June 14, 1974                       | 7.20        |
| June 3, 1975                        | 5.27        | Sept. 26, 1969                      | 6.93        | June 21, 1974                       | 6.86        |
| June 16, 1975                       | 5.86        | Dec. 8, 1969                        | 8.22        | July 9, 1974                        | 6.64        |
| June 30, 1975                       | 5.36        | Mar. 23, 1970                       | 7.67        | July 23, 1974                       | 6.95        |
| July 15, 1975                       | 5.06        | June 22, 1970                       | 6.66        | Aug. 6, 1974                        | 6.67        |
| July 29, 1975                       | 5.25        | Sept. 23, 1970                      | 6.00        | Sept. 4, 1974                       | 6.47        |
| Aug. 12, 1975                       | 5.46        | Jan. 1971                           | 8.00        | Oct. 2, 1974                        | 3.85        |
| Sept. 9, 1975                       | 4.50        | June 16, 1971                       | 7.04        | Oct. 24, 1974                       | 5.28        |
| Sept. 22, 1975                      | 4.40        | Oct. 27, 1971                       | 7.85        | Nov. 7, 1974                        | 5.89        |
| Oct. 7, 1975                        | 4.99        | Jan. 1972                           | 8.72        | Nov. 20, 1974                       | 6.25        |
| Oct. 21, 1975                       | 4.93        | Mar. 23, 1972                       | 7.93        | Dec. 4, 1974                        | 6.60        |
| Nov. 4, 1975                        | 5.57        | June 29, 1972                       | 8.13        | Dec. 18, 1974                       | 6.90        |
| Nov. 18, 1975                       | 5.59        | Sept. 25, 1972                      | 9.30        | Jan. 3, 1975                        | 7.20        |
| Dec. 2, 1975                        | 5.64        | Mar. 22, 1973                       | 8.26        | Jan. 13, 1975                       | 7.30        |
| Dec. 16, 1975                       | 5.81        | Sept. 17, 1973                      | 7.28        | Feb. 12, 1975                       | 7.18        |
| Jan. 17, 1976                       | 5.70        | Oct. 1, 1973                        | 7.10        | Feb. 25, 1975                       | 7.50        |
| Feb. 11, 1976                       | 5.65        | Oct. 9, 1973                        | 6.64        | Mar. 11, 1975                       | 6.75        |
| Mar. 12, 1976                       | 5.66        | Oct. 15, 1973                       | 6.90        | Mar. 25, 1975                       | 6.91        |
| Apr. 27, 1976                       | 4.82        | Oct. 23, 1973                       | 7.15        | Apr. 8, 1975                        | 6.52        |
| May 26, 1976                        | 4.38        | Oct. 30, 1973                       | 7.32        | Apr. 22, 1975                       | 6.78        |
| June 15, 1976                       | 4.74        | Nov. 12, 1973                       | 7.62        | May 6, 1975                         | 6.69        |
| July 12, 1976                       | 4.99        | Nov. 19, 1973                       | 7.75        | May 21, 1975                        | 6.70        |
| Aug. 30, 1976                       | 5.83        | Dec. 18, 1973                       | 7.81        | June 3, 1975                        | 6.37        |
| Sept. 22, 1976                      | 4.86        | Dec. 27, 1973                       | 8.04        | June 16, 1975                       | 7.00        |
| Nov. 1, 1976                        | 6.12        | Jan. 2, 1974                        | 8.12        | June 30, 1975                       | 7.13        |
| Jan. 3, 1977                        | 6.11        | Jan. 17, 1974                       | 8.23        | July 15, 1975                       | 7.00        |
| Jan. 11, 1977                       | 6.08        | Jan. 28, 1974                       | 8.31        | July 29, 1975                       | 6.60        |
| Feb. 9, 1977                        | 6.21        | Feb. 4, 1974                        | 8.38        | Aug. 12, 1975                       | 6.84        |
| Mar. 15, 1977                       | 6.06        | Feb. 11, 1974                       | 8.44        | Sept. 9, 1975                       | 6.90        |
| Apr. 11, 1977                       | 6.55        | Feb. 19, 1974                       | 8.47        | Sept. 22, 1975                      | 6.69        |
| May 10, 1977                        | 7.17        | Mar. 1, 1974                        | 9.58        | Oct. 7, 1975                        | 6.69        |
|                                     |             | Mar. 8, 1974                        | 9.72        | Oct. 21, 1975                       | 7.19        |
|                                     |             | Mar. 15, 1974                       | 7.32        | Nov. 4, 1975                        | 7.04        |
|                                     |             | Mar. 25, 1974                       | 7.58        | Nov. 18, 1975                       | 7.48        |
|                                     |             | Apr. 8, 1974                        | 9.10        | Dec. 2, 1975                        | 7.71        |
| <b>Well JL-49-31-101</b>            |             |                                     |             |                                     |             |
| Owner: City of El Paso              |             |                                     |             |                                     |             |
| June 7, 1968                        | 7.37        |                                     |             |                                     |             |
| July 16, 1968                       | 6.57        |                                     |             |                                     |             |

**Table 6.—Water-Level Measurements From Observation Wells—Continued**

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-31-101—Continued</b> |             | <b>Well JL-49-31-119—Continued</b> |             | <b>Well JL-49-31-131—Continued</b> |             |
| Dec. 16, 1975                      | 7.80        | July 12, 1973                      | 7.30        | Dec. 10, 1963                      | 8.40        |
| Jan. 14, 1976                      | 8.09        | Jan. 26, 1975                      | 7.09        | Dec. 7, 1964                       | 11.45       |
| Feb. 11, 1976                      | 7.67        | Jan. 17, 1976                      | 6.99        | Jan. 13, 1966                      | 10.02       |
| Mar. 12, 1976                      | 7.32        | Jan. 11, 1977                      | 7.47        | Dec. 15, 1966                      | 7.15        |
| Apr. 27, 1976                      | 6.99        | <b>Well JL-49-31-124</b>           |             | Dec. 14, 1967                      | 8.49        |
| May 26, 1976                       | 6.28        | Owner: J. G. and M. D. Britton     |             | Dec. 27, 1967                      | 9.42        |
| June 15, 1976                      | 5.21        | June 26, 1956                      | 19.78       | Jan. 25, 1969                      | 8.08        |
| July 12, 1976                      | 5.55        | Nov. 16, 1956                      | 17.87       | Jan. 29, 1970                      | 9.42        |
| Aug. 30, 1976                      | 6.52        | Nov. 27, 1957                      | 17.94       | Feb. 1, 1971                       | 8.70        |
| Sept. 22, 1976                     | 6.19        | Dec. 3, 1958                       | 13.68       | Jan. 11, 1972                      | 8.98        |
| Nov. 1, 1976                       | 6.78        | Dec. 7, 1959                       | 9.43        | Jan. 29, 1973                      | 9.62        |
| Dec. 15, 1976                      | 7.53        | Dec. 18, 1962                      | 8.64        | July 12, 1973                      | 7.44        |
| Jan. 3, 1977                       | 6.52        | Dec. 26, 1967                      | 8.94        | Jan. 26, 1975                      | 6.98        |
| Feb. 9, 1977                       | 7.61        | Jan. 17, 1969                      | 8.82        | Jan. 17, 1976                      | 7.57        |
| Mar. 15, 1977                      | 7.69        | Jan. 29, 1970                      | 9.55        | Jan. 11, 1977                      | 7.68        |
| Apr. 11, 1977                      | 6.90        | Feb. 1, 1971                       | 9.19        | <b>Well JL-49-31-201</b>           |             |
| May 10, 1977                       | 7.19        | Jan. 11, 1972                      | 9.53        | Owner: H. D. Zachry                |             |
| <b>Well JL-49-31-119</b>           |             | Jan. 26, 1975                      | 8.35        | Feb. 3, 1960                       | 154.08      |
| Owner: Martin Lettunich            |             | Jan. 17, 1976                      | 8.75        | Dec. 20, 1960                      | 144.20      |
| July 20, 1956                      | 22.80       | Jan. 11, 1977                      | 8.74        | Feb. 5, 1962                       | 142.68      |
| Nov. 16, 1956                      | 19.31       | <b>Well JL-49-31-131</b>           |             | Dec. 13, 1962                      | 141.90      |
| Nov. 29, 1957                      | 16.06       | Owner: Earl Eads                   |             | Dec. 11, 1963                      | 141.65      |
| Dec. 3, 1958                       | 12.55       | June 22, 1956                      | 13.69       | Dec. 14, 1964                      | 142.35      |
| Dec. 7, 1959                       | 9.25        | July 17, 1956                      | 13.84       | Dec. 28, 1966                      | 141.73      |
| Dec. 5, 1960                       | 8.22        | July 26, 1956                      | 13.95       | Dec. 26, 1967                      | 141.92      |
| Jan. 29, 1962                      | 8.66        | Aug. 27, 1956                      | 14.16       | Jan. 27, 1969                      | 141.68      |
| Dec. 18, 1962                      | 7.80        | Sept. 27, 1956                     | 14.36       | Feb. 4, 1970                       | 141.68      |
| Dec. 10, 1963                      | 8.35        | Oct. 29, 1956                      | 14.57       | Jan. 13, 1972                      | 141.60      |
| Dec. 7, 1964                       | 9.96        | Nov. 28, 1956                      | 14.32       | Jan. 31, 1973                      | 141.44      |
| Jan. 13, 1966                      | 9.35        | Feb. 15, 1957                      | 14.28       | Jan. 26, 1975                      | 140.90      |
| Dec. 15, 1966                      | 7.71        | Nov. 19, 1957                      | 13.27       | Jan. 17, 1976                      | 141.16      |
| Dec. 26, 1967                      | 7.43        | Dec. 4, 1958                       | 8.76        | Jan. 11, 1977                      | 141.13      |
| Jan. 17, 1969                      | 7.70        | Dec. 10, 1959                      | 6.64        | <b>Well JL-49-31-409</b>           |             |
| Jan. 29, 1970                      | 7.89        | Dec. 5, 1960                       | 8.18        | Owner: T. W. Dorough               |             |
| Feb. 1, 1971                       | 8.02        | Jan. 29, 1962                      | 8.93        | June 22, 1956                      | 17.59       |
| Jan. 12, 1972                      | 7.88        |                                    |             | Jan. 21, 1959                      | 10.54       |

Table 6.--Water-Level Measurements From Observation Wells--Continued

| DATE                                | WATER LEVEL | DATE  | WATER LEVEL | DATE                       | WATER LEVEL |
|-------------------------------------|-------------|---|-------------|----------------------------|-------------|
| <b>Well JL-49-31-409--Continued</b> |             | <b>Well JL-49-31-425--Continued</b>         |             | <b>Well JL-49-31-507</b>   |             |
| Dec. 10, 1959                       | 7.10        | Dec. 14, 1962                               | 7.48        | Owner: R. Williams         |             |
| Dec. 5, 1960                        | 7.26        | Dec. 10, 1963                               | 8.18        | Aug. 1, 1956               | 15.32       |
| Jan. 29, 1962                       | 7.64        | Dec. 7, 1964                                | 11.66       | Nov. 15, 1956              | 15.54       |
| Dec. 14, 1962                       | 7.08        | Jan. 13, 1966                               | 9.65        | Nov. 27, 1957              | 17.45       |
| Dec. 10, 1963                       | 7.62        | Dec. 15, 1966                               | 7.42        | Dec. 3, 1958               | 13.84       |
| Dec. 7, 1964                        | 11.58       | Dec. 27, 1967                               | 8.62        | Dec. 7, 1959               | 10.39       |
| Jan. 13, 1966                       | 10.15       | Jan. 9, 1969                                | 7.92        | Dec. 26, 1962              | 8.55        |
| Dec. 15, 1966                       | 7.34        | Jan. 29, 1970                               | 8.07        | Dec. 26, 1967              | 8.96        |
| Dec. 27, 1967                       | 8.47        | Feb. 2, 1971                                | 7.32        | Jan. 17, 1969              | 11.26       |
| Jan. 24, 1969                       | 7.90        | Jan. 11, 1972                               | 8.09        | Jan. 29, 1970              | 11.60       |
| Jan. 29, 1970                       | 7.45        | Jan. 30, 1973                               | 8.61        | Feb. 2, 1971               | 11.05       |
| Feb. 1, 1971                        | 7.31        | Jan. 26, 1975                               | 6.58        | <b>Well JL-49-31-516</b>   |             |
| Jan. 11, 1972                       | 7.25        | Jan. 17, 1976                               | 6.41        | Owner: C. S. Wakeem et al. |             |
| Jan. 29, 1973                       | 8.36        | Jan. 11, 1977                               | 7.08        | Nov. 15, 1956              | 20.01       |
| Jan. 26, 1975                       | 5.36        | <b>Well JL-49-31-501</b>                    |             | Nov. 27, 1957              | 18.92       |
| Jan. 17, 1976                       | 5.93        | Owner: Lee & Beulah Moor<br>Children's Home |             | Dec. 3, 1958               | 16.44       |
| Jan. 11, 1977                       | 5.90        | Aug. 2, 1956                                | 23.40       | Dec. 8, 1959               | 13.95       |
| <b>Well JL-49-31-424</b>            |             | Jan. 21, 1959                               | 9.86        | Dec. 5, 1960               | 12.73       |
| Owner: Jerry Rogers Inc.            |             | Dec. 10, 1959                               | 6.95        | Jan. 29, 1962              | 13.02       |
| Aug. 1, 1956                        | 30.58       | Dec. 5, 1960                                | 7.31        | Dec. 18, 1962              | 11.75       |
| Dec. 27, 1967                       | 9.20        | Jan. 29, 1962                               | 7.92        | Dec. 10, 1963              | 11.76       |
| Jan. 17, 1969                       | 7.54        | Dec. 14, 1962                               | 7.15        | Dec. 7, 1964               | 13.75       |
| Jan. 29, 1970                       | 7.14        | Dec. 10, 1963                               | 7.04        | Jan. 13, 1966              | 14.25       |
| Feb. 2, 1971                        | 6.48        | Dec. 7, 1964                                | 9.54        | Dec. 15, 1966              | 12.44       |
| Jan. 11, 1972                       | 7.73        | Jan. 13, 1966                               | 8.66        | Dec. 26, 1967              | 12.14       |
| Jan. 31, 1973                       | 11.32       | Dec. 15, 1966                               | 6.92        | Jan. 17, 1969              | 11.60       |
| Jan. 26, 1975                       | 6.20        | Dec. 27, 1967                               | 7.64        | Jan. 29, 1970              | 11.87       |
| Jan. 17, 1976                       | 6.77        | Jan. 9, 1969                                | 7.60        | Feb. 2, 1971               | 11.65       |
| Jan. 11, 1977                       | 6.51        | Jan. 29, 1970                               | 7.88        | Jan. 12, 1972              | 11.59       |
| <b>Well JL-49-31-425</b>            |             | Feb. 2, 1971                                | 7.58        | Jan. 31, 1973              | 11.37       |
| Owner: Jerry Rogers Inc.            |             | Jan. 11, 1972                               | 7.85        | July 5, 1973               | 10.12       |
| Jan. 21, 1959                       | 11.89       | Jan. 30, 1973                               | 8.87        | Jan. 26, 1975              | 9.68        |
| Dec. 10, 1959                       | 8.05        | July 3, 1973                                | 7.01        | Jan. 26, 1976              | 9.68        |
| Dec. 5, 1960                        | 7.34        | Jan. 26, 1975                               | 7.11        | Jan. 11, 1977              | 7.38        |
| Jan. 29, 1962                       | 8.34        | Jan. 17, 1976                               | 6.99        |                            |             |
|                                     |             | Jan. 11, 1977                               | 7.38        |                            |             |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE  | WATER LEVEL | DATE  | WATER LEVEL | DATE                               | WATER LEVEL |
|---|-------------|---|-------------|------------------------------------|-------------|
| <b>Well JL-49-31-601</b>                    |             | <b>Well JL-49-31-715</b>                    |             | <b>Well JL-49-31-717—Continued</b> |             |
| Owner: Strain Brothers                      |             | Owner: Lee & Beulah Moor<br>Children's Home |             | Apr. 8, 1974                       | 10.49       |
| Sept. 2, 1960                               | 184.01      | Aug. 2, 1956                                | 24.49       | Apr. 22, 1974                      | 9.72        |
| Dec. 20, 1960                               | 183.85      | Jan. 21, 1959                               | 16.65       | May 13, 1974                       | 9.38        |
| Feb. 5, 1962                                | 183.23      | Feb. 3, 1960                                | 10.80       | May 29, 1974                       | 9.54        |
| Dec. 13, 1962                               | 182.95      | Dec. 14, 1962                               | 10.35       | June 14, 1974                      | 9.62        |
| Dec. 11, 1963                               | 182.70      | Dec. 26, 1967                               | 11.78       | June 21, 1974                      | 9.20        |
| Dec. 14, 1964                               | 182.80      | Jan. 17, 1969                               | 10.34       | July 9, 1974                       | 8.30        |
| Dec. 28, 1966                               | 183.40      | Jan. 29, 1970                               | 10.28       | July 23, 1974                      | 8.60        |
| Dec. 27, 1967                               | 183.10      | Feb. 2, 1971                                | 8.50        | Aug. 6, 1974                       | 8.60        |
| Feb. 10, 1975                               | 181.66      | Jan. 11, 1972                               | 8.12        | Sept. 4, 1974                      | 8.95        |
| Jan. 17, 1976                               | 181.46      | Jan. 31, 1973                               | 10.60       | Oct. 2, 1974                       | 8.10        |
| Jan. 11, 1977                               | 181.21      |   |             | Oct. 24, 1974                      | 8.49        |
| <b>Well JL-49-31-710</b>                    |             | <b>Well JL-49-31-717</b>                    |             | Nov. 7, 1974                       | 8.77        |
| Owner: Lee & Beulah Moor<br>Children's Home |             | Owner: Sam Orr                              |             | Nov. 20, 1974                      | 8.94        |
| Nov. 12, 1956                               | 29.99       | Aug. 10, 1956                               | 22.79       | Dec. 4, 1974                       | 9.09        |
| Nov. 26, 1957                               | 24.08       | Nov. 12, 1956                               | 19.43       | Dec. 18, 1974                      | 9.22        |
| Dec. 1, 1958                                | 12.86       | Nov. 26, 1957                               | 19.63       | Jan. 3, 1975                       | 9.25        |
| Dec. 10, 1959                               | 9.89        | Dec. 1, 1958                                | 10.20       | Jan. 13, 1975                      | 9.28        |
| Dec. 5, 1960                                | 9.15        | Dec. 9, 1959                                | 9.23        | Feb. 12, 1975                      | 9.27        |
| Jan. 29, 1962                               | 10.53       | Dec. 26, 1962                               | 10.14       | Feb. 25, 1975                      | 9.30        |
| Dec. 13, 1962                               | 10.20       | Dec. 27, 1967                               | 10.12       | Mar. 11, 1975                      | 8.56        |
| Dec. 10, 1963                               | 12.66       | Jan. 9, 1969                                | 8.74        | Mar. 25, 1975                      | 9.02        |
| Dec. 7, 1964                                | 23.42       | Jan. 29, 1970                               | 7.69        | Apr. 8, 1975                       | 9.09        |
| Jan. 13, 1966                               | 16.00       | Feb. 2, 1971                                | 7.10        | Apr. 22, 1975                      | 9.22        |
| Dec. 15, 1966                               | 8.69        | Jan. 11, 1972                               | 7.59        | May 6, 1975                        | 9.27        |
| Dec. 27, 1967                               | 14.63       | Jan. 31, 1973                               | 9.86        | May 21, 1975                       | 9.37        |
| Jan. 9, 1969                                | 9.92        | Jan. 15, 1974                               | 9.79        | June 3, 1975                       | 9.18        |
| Jan. 29, 1970                               | 9.80        | Jan. 21, 1974                               | 9.76        | June 16, 1975                      | 9.60        |
| Feb. 2, 1971                                | 9.32        | Jan. 28, 1974                               | 9.80        | June 30, 1975                      | 9.44        |
| Jan. 11, 1972                               | 11.55       | Feb. 4, 1974                                | 9.77        | July 15, 1975                      | 9.52        |
| Jan. 30, 1973                               | 13.88       | Feb. 11, 1974                               | 9.80        | July 29, 1975                      | 9.09        |
| June 13, 1973                               | 9.74        | Feb. 19, 1974                               | 9.94        | Aug. 12, 1975                      | 9.20        |
| Jan. 27, 1975                               | 9.74        | Mar. 1, 1974                                | 9.83        | Sept. 9, 1975                      | 8.67        |
| Jan. 17, 1976                               | 9.72        | Mar. 8, 1974                                | 9.94        | Sept. 22, 1975                     | 8.62        |
| Jan. 11, 1977                               | 9.42        | Mar. 15, 1974                               | 9.57        | Oct. 7, 1975                       | 8.92        |
|   |             | Mar. 25, 1974                               | 9.40        | Oct. 21, 1975                      | 9.13        |

**Table 6.--Water-Level Measurements From Observation Wells--Continued**

| DATE  | WATER LEVEL | DATE                           | WATER LEVEL | DATE                                | WATER LEVEL |
|---|-------------|--------------------------------|-------------|-------------------------------------|-------------|
| <b>Well JL-49-31-717--Continued</b>           |             | <b>Well JL-49-31-814</b>       |             | <b>Well JL-49-31-903--Continued</b> |             |
| Nov. 4, 1975                                  | 9.25        | Owner: Hiram Whitaker          |             | Dec. 3, 1958                        | 17.99       |
| Nov. 18, 1975                                 | 9.28        | Jan. 21, 1959                  | 13.06       | Dec. 8, 1959                        | 15.68       |
| Dec. 2, 1975                                  | 9.37        | Feb. 3, 1960                   | 7.98        | Dec. 5, 1960                        | 13.17       |
| Dec. 16, 1975                                 | 9.37        | Dec. 5, 1960                   | 6.78        | Jan. 29, 1962                       | 13.27       |
| Jan. 17, 1976                                 | 9.45        | Jan. 29, 1962                  | 7.50        | Dec. 18, 1962                       | 12.40       |
| Feb. 11, 1976                                 | 9.33        | Dec. 14, 1962                  | 6.50        | Dec. 10, 1963                       | 12.60       |
| Mar. 12, 1976                                 | 9.48        | Dec. 10, 1963                  | 6.52        | Dec. 7, 1964                        | 16.50       |
| Apr. 27, 1976                                 | 9.11        | Dec. 7, 1964                   | 12.47       | Jan. 13, 1966                       | 16.72       |
| May 26, 1976                                  | 9.91        | Jan. 13, 1966                  | 11.64       | Dec. 15, 1966                       | 14.05       |
| June 15, 1976                                 | 8.80        | Dec. 15, 1966                  | 7.40        | Dec. 26, 1967                       | 14.15       |
| July 12, 1976                                 | 9.30        | Dec. 27, 1967                  | 7.90        | Jan. 17, 1969                       | 13.55       |
| Aug. 30, 1976                                 | 9.30        | Jan. 9, 1969                   | 7.02        | Jan. 29, 1970                       | 12.92       |
| Sept. 22, 1976                                | 9.18        | Jan. 29, 1970                  | 6.92        | Feb. 2, 1971                        | 12.50       |
| Nov. 1, 1976                                  | 9.80        | Feb. 2, 1971                   | 7.16        | Jan. 12, 1972                       | 12.37       |
| Jan. 3, 1977                                  | 9.07        | Jan. 11, 1972                  | 8.10        | Jan. 31, 1973                       | 13.45       |
| Jan. 11, 1977                                 | 9.04        | Jan. 30, 1973                  | 10.35       | Jan. 18, 1974                       | 12.14       |
| Feb. 9, 1977                                  | 9.03        | Feb. 10, 1975                  | 6.73        | Jan. 26, 1975                       | 11.09       |
| Mar. 15, 1977                                 | 9.47        | Jan. 17, 1976                  | 6.79        | Jan. 17, 1976                       | 10.89       |
| Apr. 11, 1977                                 | 9.69        | Jan. 11, 1977                  | 6.36        | Jan. 11, 1977                       | 11.10       |
| May 10, 1977                                  | 10.46       |                                |             |                                     |             |
| <b>Well JL-49-31-808</b>                      |             | <b>Well JL-49-31-824</b>       |             | <b>Well JL-49-39-101</b>            |             |
| Owner: A. R. Miller, Jr.<br>and Martha Miller |             | Owner: Rawls Estate            |             | Owner: W. A. Rawls Ranch            |             |
| Nov. 15, 1956                                 | 21.76       | Aug. 7, 1956                   | 35.25       | Mar. 9, 1953                        | 12.41       |
| Nov. 27, 1957                                 | 21.30       | Dec. 27, 1967                  | 12.53       | Jan. 19, 1954                       | 14.48       |
| Dec. 3, 1958                                  | 16.10       | Jan. 9, 1969                   | 8.80        | Jan. 30, 1955                       | 18.67       |
| Dec. 8, 1959                                  | 10.35       | Jan. 29, 1970                  | 7.42        | Jan. 31, 1956                       | 23.24       |
| Dec. 18, 1962                                 | 8.65        | Feb. 2, 1971                   | 7.54        | Aug. 10, 1956                       | 26.10       |
| Dec. 26, 1967                                 | 10.70       | Jan. 11, 1972                  | 9.65        | Jan. 21, 1957                       | 27.28       |
| Jan. 17, 1969                                 | 9.92        | Jan. 31, 1973                  | 12.02       | Nov. 26, 1957                       | 23.70       |
| Jan. 29, 1970                                 | 10.49       | Feb. 10, 1975                  | 7.20        | Jan. 28, 1958                       | 26.94       |
| Feb. 2, 1971                                  | 9.70        | Jan. 17, 1976                  | 7.07        | Jan. 19, 1959                       | 22.79       |
| Jan. 12, 1972                                 | 10.66       | Jan. 11, 1977                  | 6.95        | Feb. 23, 1961                       | 10.18       |
| Jan. 31, 1973                                 | 12.21       |                                |             | Dec. 4, 1961                        | 13.58       |
| Jan. 26, 1975                                 | 9.82        | <b>Well JL-49-31-903</b>       |             | Feb. 12, 1962                       | 12.98       |
|   |             | Owner: J. P. Miller Farms Inc. |             | Dec. 13, 1962                       | 9.36        |
|   |             | Nov. 15, 1956                  | 19.96       | Dec. 11, 1963                       | 15.20       |
|   |             | Nov. 27, 1957                  | 20.42       |                                     |             |





Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-39-202—Continued</b> |             | <b>Well JL-49-39-204—Continued</b> |             | <b>Well JL-49-39-231—Continued</b> |             |
| Apr. 27, 1976                      | +23.10      | Jan. 31, 1973                      | 9.09        | Jan. 18, 1976                      | 6.02        |
| May 26, 1976                       | +23.10      | Oct. 25, 1973                      | 6.49        | Jan. 12, 1977                      | 5.70        |
| June 15, 1976                      | +23.10      | Jan. 27, 1975                      | 6.81        |                                    |             |
| July 12, 1976                      | +25.10      | Jan. 17, 1976                      | 6.68        | <b>Well JL-49-39-311</b>           |             |
| Aug. 30, 1976                      | +25.10      | Jan. 12, 1977                      | 6.36        | Owner: R. F. Cook                  |             |
| Sept. 22, 1976                     | +25.10      |                                    |             | Nov. 13, 1956                      | 21.82       |
| Nov. 1, 1976                       | +25.10      | <b>Well JL-49-39-218</b>           |             | Nov. 27, 1957                      | 20.65       |
| Jan. 3, 1977                       | +25.10      | Owner: Fabens Production Inc.      |             | Dec. 3, 1958                       | 14.49       |
| Feb. 9, 1977                       | +25.10      | Mar. 9, 1953                       | 13.28       | Dec. 8, 1959                       | 9.06        |
| Mar. 15, 1977                      | +25.10      | Aug. 13, 1956                      | 29.85       | Dec. 5, 1960                       | 7.43        |
| Apr. 11, 1977                      | +25.10      | Feb. 12, 1962                      | 10.91       | Jan. 29, 1962                      | 8.92        |
| May 10, 1977                       | +23.10      | Dec. 13, 1962                      | 11.89       | Dec. 13, 1962                      | 8.30        |
|                                    |             | Dec. 11, 1963                      | 8.17        | Dec. 10, 1963                      | 7.93        |
| <b>Well JL-49-39-204</b>           |             | Dec. 14, 1964                      | 17.28       | Dec. 7, 1964                       | 14.30       |
| Owner: Paul and Lillian Thomas     |             | Feb. 10, 1966                      | 19.30       | Jan. 13, 1966                      | 13.47       |
| Mar. 10, 1953                      | 9.24        | Dec. 28, 1966                      | 17.44       | Dec. 28, 1966                      | 8.54        |
| Jan. 18, 1954                      | 9.20        |                                    |             | Dec. 26, 1967                      | 7.38        |
| Jan. 30, 1955                      | 13.71       | <b>Well JL-49-39-231</b>           |             | Jan. 17, 1969                      | 7.95        |
| Jan. 31, 1956                      | 16.56       | Owner: Leisure Valley Farms        |             | Jan. 31, 1970                      | 7.53        |
| Aug. 3, 1956                       | 19.60       | Nov. 12, 1956                      | 11.02       | Feb. 2, 1971                       | 7.17        |
| Aug. 7, 1956                       | 18.58       | Nov. 27, 1956                      | 10.09       | Jan. 12, 1972                      | 8.17        |
| Aug. 27, 1956                      | 19.75       | Dec. 1, 1958                       | 6.58        | Jan. 31, 1973                      | 9.27        |
| Oct. 29, 1956                      | 18.70       | Dec. 9, 1959                       | 5.03        | Nov. 29, 1973                      | 7.78        |
| Nov. 28, 1956                      | 18.81       | Dec. 5, 1960                       | 4.48        | Jan. 27, 1975                      | 7.41        |
| Jan. 21, 1957                      | 18.85       | Jan. 29, 1962                      | 5.72        | Jan. 18, 1976                      | 7.39        |
| Nov. 19, 1957                      | 19.55       | Dec. 13, 1962                      | 5.23        | Jan. 12, 1977                      | 7.32        |
| Jan. 19, 1959                      | 13.15       | Dec. 10, 1963                      | 5.72        |                                    |             |
| Dec. 9, 1959                       | 7.20        | Dec. 7, 1964                       | 7.77        | <b>Well JL-49-39-321</b>           |             |
| Dec. 5, 1960                       | 6.35        | Jan. 13, 1966                      | 6.72        | Owner: J. R. Wadsworth Estate      |             |
| Jan. 29, 1962                      | 8.31        | Mar. 8, 1967                       | 4.88        | Aug. 17, 1956                      | 23.20       |
| Dec. 14, 1962                      | 7.40        | Dec. 26, 1967                      | 5.34        | Nov. 13, 1956                      | 21.48       |
| Dec. 10, 1963                      | 8.10        | Jan. 17, 1969                      | 5.19        | Nov. 27, 1957                      | 21.58       |
| Jan. 17, 1969                      | 8.30        | Jan. 29, 1970                      | 5.62        | Dec. 3, 1958                       | 14.47       |
| Dec. 9, 1969                       | 6.89        | Jan. 11, 1972                      | 5.73        | Dec. 8, 1959                       | 8.50        |
| Jan. 29, 1970                      | 7.16        | Jan. 31, 1973                      | 7.17        | Dec. 5, 1960                       | 7.93        |
| Feb. 2, 1971                       | 6.89        | Oct. 26, 1973                      | 3.24        | Jan. 29, 1962                      | 8.43        |
| Jan. 11, 1972                      | 7.73        | Jan. 27, 1975                      | 5.69        | Dec. 13, 1962                      | 8.15        |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-39-605—Continued</b> |             | <b>Well JL-49-39-612—Continued</b> |             | <b>Well JL-49-39-612—Continued</b> |             |
| Dec. 13, 1962                      | 6.97        | Nov. 7, 1974                       | 6.38        | Nov. 1, 1976                       | 7.37        |
| Dec. 10, 1963                      | 7.24        | Nov. 20, 1974                      | 6.72        | Jan. 3, 1977                       | 7.49        |
| Dec. 7, 1964                       | 8.76        | Dec. 4, 1974                       | 7.39        | Feb. 9, 1977                       | 7.91        |
| Jan. 13, 1966                      | 6.88        | Dec. 18, 1974                      | 6.45        | Mar. 15, 1977                      | 7.33        |
| Dec. 28, 1966                      | 5.76        | Jan. 3, 1975                       | 7.55        | Apr. 11, 1977                      | 7.44        |
| Dec. 26, 1967                      | 6.89        | Jan. 13, 1975                      | 7.65        | May 10, 1977                       | 7.41        |
| Jan. 17, 1969                      | 6.93        | Feb. 12, 1975                      | 7.35        |                                    |             |
| Jan. 31, 1970                      | 6.83        | Feb. 25, 1975                      | 7.62        | <b>Well JL-49-40-104</b>           |             |
| Jan. 11, 1972                      | 7.00        | Mar. 11, 1975                      | 7.66        | Owner: H. D. Zachry                |             |
| Jan. 31, 1973                      | 6.80        | Mar. 25, 1975                      | 7.11        | Sept. 2, 1960                      | 211.40      |
| Nov. 27, 1973                      | 5.90        | Apr. 8, 1975                       | 6.83        | Dec. 20, 1960                      | 211.40      |
| Feb. 10, 1975                      | 5.91        | Apr. 22, 1975                      | 6.99        | Dec. 13, 1962                      | 210.80      |
| Jan. 18, 1976                      | 6.21        | May 6, 1975                        | 6.56        | Dec. 11, 1963                      | 211.02      |
| Jan. 12, 1977                      | 6.23        | May 21, 1975                       | 6.58        | Dec. 14, 1964                      | 211.32      |
|                                    |             | June 3, 1975                       | 6.18        | Dec. 28, 1966                      | 211.90      |
| <b>Well JL-49-39-612</b>           |             | June 16, 1975                      | 6.78        | Dec. 27, 1967                      | 211.88      |
| Owner: J. H. Marchbanks            |             | June 30, 1975                      | 7.12        | Jan. 27, 1969                      | 211.32      |
| Nov. 27, 1973                      | 7.75        | July 15, 1975                      | 6.29        | Jan. 27, 1970                      | 211.18      |
| Jan. 15, 1974                      | 8.35        | July 29, 1975                      | 6.47        | Jan. 13, 1972                      | 211.00      |
| Jan. 21, 1974                      | 8.10        | Aug. 12, 1975                      | 6.21        | Jan. 31, 1973                      | 210.72      |
| Jan. 28, 1974                      | 8.17        | Sept. 9, 1975                      | 5.37        | Oct. 26, 1973                      | 210.78      |
| Feb. 4, 1974                       | 8.23        | Sept. 22, 1975                     | 5.80        | Jan. 27, 1975                      | 210.53      |
| Feb. 11, 1974                      | 8.27        | Oct. 7, 1975                       | 5.81        | Jan. 18, 1976                      | 210.22      |
| Feb. 19, 1974                      | 8.31        | Oct. 21, 1975                      | 6.79        | Jan. 12, 1977                      | 289.34      |
| Mar. 1, 1974                       | 8.29        | Nov. 4, 1975                       | 7.06        |                                    |             |
| Mar. 8, 1974                       | 8.43        | Nov. 18, 1975                      | 7.24        | <b>Well JL-49-40-403</b>           |             |
| Apr. 8, 1974                       | 7.92        | Dec. 2, 1975                       | 7.30        | Owner: Delphia Rhodes              |             |
| Apr. 22, 1974                      | 7.78        | Dec. 16, 1975                      | 7.56        | Nov. 12, 1956                      | 22.05       |
| May 13, 1974                       | 7.47        | Feb. 11, 1976                      | 7.90        | Nov. 27, 1957                      | 23.73       |
| May 29, 1974                       | 7.76        | Mar. 12, 1976                      | 7.37        | Dec. 1, 1958                       | 15.06       |
| June 21, 1974                      | 7.71        | Apr. 27, 1976                      | 6.96        | Dec. 9, 1959                       | 10.03       |
| July 9, 1974                       | 6.82        | May 26, 1976                       | 6.83        | Dec. 5, 1960                       | 9.78        |
| July 23, 1974                      | 6.65        | June 15, 1976                      | 6.67        | Jan. 29, 1962                      | 10.58       |
| Aug. 6, 1974                       | 6.70        | July 12, 1976                      | 6.52        | Dec. 13, 1962                      | 9.86        |
| Sept. 4, 1974                      | 6.70        | Aug. 30, 1976                      | 6.99        | Dec. 10, 1963                      | 9.82        |
| Oct. 2, 1974                       | 5.04        | Sept. 22, 1976                     | 7.11        | Dec. 7, 1964                       | 14.88       |
| Oct. 24, 1974                      | 5.85        |                                    |             | Jan. 13, 1966                      | 12.92       |



Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-40-701—Continued</b> |             | <b>Well JL-49-40-704—Continued</b> |             | <b>Well JL-49-40-704—Continued</b> |             |
| July 29, 1975                      | 7.35        | Apr. 22, 1974                      | 9.39        | Dec. 2, 1975                       | 9.17        |
| Aug. 12, 1975                      | 7.53        | May 13, 1974                       | 9.28        | Dec. 16, 1975                      | 9.14        |
| Sept. 9, 1975                      | 6.88        | May 29, 1974                       | 9.18        | Feb. 11, 1976                      | 8.67        |
| Sept. 22, 1975                     | 6.21        | June 21, 1974                      | 9.40        | Mar. 12, 1976                      | 9.04        |
| Oct. 7, 1975                       | 6.23        | July 9, 1974                       | 8.00        | Apr. 27, 1976                      | 8.43        |
| Oct. 21, 1975                      | 6.98        | July 23, 1974                      | 7.81        | May 26, 1976                       | 7.83        |
| Nov. 4, 1975                       | 7.12        | Aug. 6, 1974                       | 7.60        | June 15, 1976                      | 7.76        |
| Nov. 18, 1975                      | 7.49        | Sept. 4, 1974                      | 7.69        | July 12, 1976                      | 8.33        |
| Dec. 2, 1975                       | 7.99        | Oct. 2, 1974                       | 7.29        | Aug. 30, 1976                      | 8.24        |
| Dec. 16, 1975                      | 8.01        | Oct. 24, 1974                      | 7.96        | Sept. 22, 1976                     | 8.09        |
| Jan. 12, 1976                      | 6.36        | Nov. 7, 1974                       | 8.10        | Nov. 1, 1976                       | 8.45        |
| Jan. 18, 1976                      | 8.35        | Nov. 20, 1974                      | 8.20        | Jan. 3, 1977                       | 8.30        |
| Feb. 11, 1976                      | 8.44        | Dec. 4, 1974                       | 8.61        | Feb. 9, 1977                       | 9.06        |
| Mar. 12, 1976                      | 8.52        | Dec. 18, 1974                      | 8.94        | Mar. 15, 1977                      | 9.47        |
| Apr. 27, 1976                      | 7.80        | Jan. 3, 1975                       | 9.10        | Apr. 11, 1977                      | 8.97        |
| May 26, 1976                       | 7.28        | Jan. 13, 1975                      | 8.96        | May 10, 1977                       | 9.18        |
| June 15, 1976                      | 6.84        | Feb. 12, 1975                      | 8.60        |                                    |             |
| July 12, 1976                      | 6.36        | Feb. 25, 1975                      | 8.82        | <b>Well JL-49-40-803</b>           |             |
| Aug. 30, 1976                      | 6.59        | Mar. 11, 1975                      | 9.00        | Owner: L. R. Allison Company       |             |
| Sept. 22, 1976                     | 7.01        | Mar. 25, 1975                      | 9.00        | Dec. 28, 1966                      | 11.99       |
| Nov. 1, 1976                       | 9.58        | Apr. 8, 1975                       | 8.43        | Dec. 27, 1967                      | 13.40       |
| Jan. 3, 1977                       | 7.32        | Apr. 22, 1975                      | 8.44        | Oct. 30, 1973                      | 13.75       |
| Jan. 12, 1977                      | 8.00        | May 6, 1975                        | 8.09        | May 29, 1974                       | 13.82       |
| Feb. 9, 1977                       | 8.38        | May 21, 1975                       | 8.46        |                                    |             |
| Mar. 15, 1977                      | 8.52        | June 3, 1975                       | 8.24        | <b>Well JL-49-40-809</b>           |             |
| Apr. 11, 1977                      | 7.46        | June 16, 1975                      | 8.38        | Owner: Ben L. Ivey                 |             |
| May 10, 1977                       | 7.74        | June 30, 1975                      | 7.91        | Nov. 2, 1973                       | 12.42       |
|                                    |             | July 15, 1975                      | 7.76        | Jan. 15, 1974                      | 13.04       |
| <b>Well JL-49-40-704</b>           |             | July 29, 1975                      | 8.10        | Jan. 21, 1974                      | 13.03       |
| Owner: C. Ivey                     |             | Aug. 12, 1975                      | 8.24        | Jan. 28, 1974                      | 13.12       |
| Mar. 17, 1962                      | 7.97        | Sept. 9, 1975                      | 8.75        | Feb. 4, 1974                       | 13.20       |
| Oct. 29, 1973                      | 8.70        | Sept. 22, 1975                     | 8.44        | Feb. 11, 1974                      | 13.32       |
| Jan. 15, 1974                      | 9.30        | Oct. 7, 1975                       | 8.87        | Feb. 19, 1974                      | 13.40       |
| Jan. 21, 1974                      | 9.55        | Oct. 21, 1975                      | 8.16        | Mar. 1, 1974                       | 13.53       |
| Jan. 23, 1974                      | 7.81        | Nov. 4, 1975                       | 8.46        | Mar. 8, 1974                       | 13.55       |
| Jan. 28, 1974                      | 9.69        | Nov. 18, 1975                      | 8.78        | Mar. 15, 1974                      | 12.40       |
| Apr. 8, 1974                       | 9.18        |                                    |             | Mar. 25, 1974                      | 12.32       |

Table 6.—Water-Level Measurements From Observation Wells—Continued

| DATE                               | WATER LEVEL | DATE                               | WATER LEVEL | DATE                               | WATER LEVEL |
|------------------------------------|-------------|------------------------------------|-------------|------------------------------------|-------------|
| <b>Well JL-49-40-809—Continued</b> |             | <b>Well JL-49-40-809—Continued</b> |             | <b>Well PD-48-41-202—Continued</b> |             |
| Apr. 8, 1974                       | 13.01       | Nov. 18, 1975                      | 7.64        | Jan. 30, 1955                      | 14.00       |
| Apr. 22, 1974                      | 13.17       | Dec. 2, 1975                       | 7.37        | Jan. 31, 1956                      | 15.13       |
| May 13, 1974                       | 13.81       | Dec. 6, 1975                       | 7.91        | Jan. 21, 1957                      | 16.29       |
| June 21, 1974                      | 13.05       | Dec. 16, 1975                      | 7.91        | Jan. 28, 1958                      | 18.11       |
| July 9, 1974                       | 11.50       | Feb. 11, 1976                      | 8.21        | Jan. 19, 1959                      | 14.33       |
| July 23, 1974                      | 9.53        | Mar. 12, 1976                      | 8.59        | Jan. 29, 1960                      | 10.72       |
| Aug. 6, 1974                       | 8.89        | Apr. 27, 1976                      | 7.02        | Feb. 23, 1961                      | 9.13        |
| Sept. 4, 1974                      | 8.23        | May 26, 1976                       | 6.35        | Dec. 4, 1961                       | 9.40        |
| Oct. 2, 1974                       | 6.86        | June 15, 1976                      | 6.34        | Dec. 13, 1962                      | 9.66        |
| Oct. 24, 1974                      | 6.83        | July 12, 1976                      | 6.12        | Dec. 14, 1964                      | 13.13       |
| Nov. 7, 1974                       | 7.06        | Aug. 30, 1976                      | 6.38        | Feb. 10, 1966                      | 15.07       |
| Nov. 20, 1974                      | 7.20        | Sept. 22, 1976                     | 5.64        | Dec. 28, 1966                      | 11.68       |
| Dec. 4, 1974                       | 7.77        | Nov. 1, 1976                       | 7.05        | Jan. 12, 1968                      | 12.12       |
| Dec. 11, 1974                      | 13.32       | Jan. 3, 1977                       | 6.59        | Feb. 13, 1969                      | 10.14       |
| Dec. 18, 1974                      | 7.90        | Feb. 9, 1977                       | 8.02        | Jan. 9, 1970                       | 9.00        |
| Jan. 3, 1975                       | 7.73        | Mar. 15, 1977                      | 8.16        | Mar. 4, 1971                       | 8.95        |
| Jan. 13, 1975                      | 8.14        | Apr. 11, 1977                      | 7.36        | Nov. 30, 1971                      | 9.33        |
| Feb. 12, 1975                      | 8.12        | May 10, 1977                       | 7.73        | Dec. 8, 1972                       | 10.21       |
| Feb. 25, 1975                      | 8.90        |                                    |             | Nov. 6, 1973                       | 7.66        |
| Mar. 11, 1975                      | 9.13        | <b>Well JL-49-40-901</b>           |             | Jan. 13, 1975                      | 7.05        |
| Mar. 25, 1975                      | 8.56        | Owner: Firmin Burrus               |             | Feb. 6, 1976                       | 8.45        |
| Apr. 8, 1975                       | 7.89        | Mar. 14, 1962                      | 8.16        | Jan. 14, 1977                      | 7.08        |
| Apr. 22, 1975                      | 7.92        | Dec. 27, 1967                      | 8.62        | Feb. 9, 1977                       | 7.52        |
| May 6, 1975                        | 9.03        | Jan. 27, 1969                      | 8.19        |                                    |             |
| May 21, 1975                       | 8.50        | Jan. 31, 1970                      | 7.83        | <b>Well PD-48-41-601</b>           |             |
| June 3, 1975                       | 7.87        | Jan. 11, 1972                      | 8.38        | Owner: Julian Franklin             |             |
| June 16, 1975                      | 7.74        | Jan. 31, 1973                      | 8.99        | Mar. 9, 1953                       | 25.84       |
| June 30, 1975                      | 8.64        | Nov. 2, 1973                       | 7.74        | Jan. 19, 1954                      | 25.74       |
| July 15, 1975                      | 7.78        | Feb. 10, 1975                      | 7.56        | Jan. 30, 1955                      | 27.11       |
| July 29, 1975                      | 6.80        | Jan. 18, 1976                      | 7.79        | Jan. 31, 1956                      | 16.42       |
| Aug. 12, 1975                      | 7.00        | Jan. 12, 1977                      | 7.23        | Jan. 21, 1957                      | 29.87       |
| Sept. 9, 1975                      | 5.96        |                                    |             | Jan. 28, 1958                      | 31.20       |
| Sept. 22, 1975                     | 5.95        | <b>Hudspeth County</b>             |             | Jan. 19, 1959                      | 30.39       |
| Oct. 7, 1975                       | 6.46        | <b>Well PD-48-41-202</b>           |             | Jan. 29, 1960                      | 29.15       |
| Oct. 21, 1975                      | 6.77        | Owner: E. H. Oliphant              |             | Feb. 23, 1961                      | 26.88       |
| Nov. 4, 1975                       | 7.28        | Mar. 9, 1953                       | 9.65        | Dec. 4, 1961                       | 26.60       |
|                                    |             | Jan. 19, 1954                      | 10.17       | Dec. 13, 1962                      | 25.98       |





Table 7.--Chemical Analyses of Water from Selected Wells

Water-bearing unit: Qal Rg, Rio Grande alluvium; Qtal 6, Huevo bolson; Qtal 8, Mesilla bolson.  
 Analyses are given in milligrams per liter except percent sodium, sodium-absorption ratio (SAR), residual sodium carbonate (RSU), specific conductance, pH.  
 When no potassium (K) is reported, sodium and potassium are calculated and reported as sodium (Na).  
 Bicarbonate (HCO<sub>3</sub>) includes any carbonate (CO<sub>3</sub>) present.

| Well           | Aquifer          | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|----------------|------------------|--|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|----|
| El Paso County |                  |  |                    |                            |               |              |                |             |               |                                 |                            |               |              |                            |           |                  |                                     |  |     |                |                               |                                 |    |    |
| JL-48-33-703   | Qal Rg<br>Qtal 6 | 131-155                                | July 23, 1959      | --                         | 0.02          | 177          | 43             | --          | --            | 128                             | 270                        | 1,430         | 0.9          | --                         | --        | 2,460            | 620                                 | --                                       | 7.7 | --             | --                            | --                              |    |    |
|                |                  | 245-269                                | do                 | --                         | .02           | 127          | 27             | --          | --            | 136                             | 297                        | 1,220         | .9           | --                         | --        | --               | 2,790                               | 450                                      | --  | 8.3            | --                            | --                              | -- |    |
|                |                  | 334-363                                | do                 | --                         | .02           | 157          | 41             | --          | --            | 110                             | 331                        | 1,490         | 1.0          | --                         | --        | --               | 3,440                               | 554                                      | --  | 7.7            | --                            | --                              | -- |    |
|                |                  | 447-471                                | July 24, 1959      | --                         | .02           | 62           | 15             | --          | --            | 124                             | 464                        | 955           | 1.0          | --                         | --        | --               | 2,610                               | 218                                      | --  | 8.2            | --                            | --                              | -- |    |
|                |                  | 567-591                                | do                 | --                         | .02           | 85           | 22             | --          | --            | 144                             | 358                        | 1,300         | 1.4          | --                         | --        | --               | 2,910                               | 304                                      | --  | 8.2            | --                            | --                              | -- |    |
|                |                  | 672-696                                | July 25, 1959      | --                         | .02           | 60           | 13             | --          | --            | 150                             | 323                        | 1,160         | 1.6          | --                         | --        | --               | 2,570                               | 202                                      | --  | 8.2            | --                            | --                              | -- |    |
|                |                  | 759-783                                | do                 | --                         | .02           | 57           | 13             | --          | --            | 117                             | 496                        | 985           | 1.6          | --                         | --        | --               | 2,570                               | 194                                      | --  | 7.6            | --                            | --                              | -- |    |
|                |                  | 873-902                                | do                 | --                         | .02           | 57           | 8.2            | --          | --            | 140                             | 569                        | 1,020         | 1.7          | --                         | --        | --               | 2,660                               | 178                                      | --  | 7.4            | --                            | --                              | -- |    |
| 49-03-321      | Qal Rg           | 122                                    | June 30, 1953      | 33                         | --            | 86           | 19             | 118         | --            | 229                             | 198                        | 110           | --           | 0.2                        | --        | 688              | 293                                 | 1,070                                    | 7.8 | 47             | --                            | --                              |    |    |
|                |                  | 322                                    | Qtal 8             | 195-238                    | Nov. 12, 1953 | 22           | .04            | 21          | 3.8           | 110                             | 2.3                        | 120           | 192          | 69                         | .2        | 0.15             | 400                                 | 68                                       | 650 | 7.8            | 77                            | --                              | -- |    |
| 908            | Qal Rg           | 306-349                                | do                 | 24                         | .21           | 16           | 2.7            | 99          | --            | 106                             | 96                         | 55            | .3           | 0                          | --        | 356              | 51                                  | 563                                      | 7.6 | 81             | --                            | --                              |    |    |
|                |                  | 435-478                                | Nov. 13, 1953      | 27                         | .04           | 20           | 2.8            | 104         | --            | 128                             | 109                        | 48            | .3           | .2                         | --        | 474              | 62                                  | 587                                      | 7.7 | 79             | --                            | --                              |    |    |
|                |                  | 562-605                                | do                 | 36                         | .01           | 23           | 3.8            | 181         | --            | 218                             | 184                        | 68            | .6           | 0                          | --        | 603              | 73                                  | 962                                      | 7.9 | 84             | --                            | --                              |    |    |
|                |                  | 754-797                                | Nov. 14, 1953      | 20                         | .05           | 16           | 2.1            | 114         | --            | 108                             | 115                        | 62            | .5           | .2                         | --        | 384              | 48                                  | 621                                      | 7.8 | 84             | --                            | --                              |    |    |
|                |                  | 1,015-1,058                            | Nov. 16, 1953      | 32                         | .06           | 18           | 1.5            | 90          | 23            | 108                             | 87                         | 51            | .5           | 0                          | .14       | 338              | 51                                  | 516                                      | 7.7 | 78             | --                            | --                              |    |    |
|                |                  | 72                                     | Aug. 31, 1952      | 45                         | --            | 98           | 31             | 671         | --            | 625                             | 808                        | 338           | 1.6          | 2.0                        | .78       | 2,300            | 372                                 | 3,430                                    | 7.6 | 80             | --                            | --                              |    |    |
|                |                  | 72                                     | July 17, 1956      | --                         | --            | --           | --             | --          | --            | 671                             | --                         | 440           | --           | --                         | --        | --               | 450                                 | 4,090                                    | 8.2 | --             | --                            | --                              | -- |    |
| 04-103         | Qtal 8           | 559                                    | Aug. 17, 1966      | 33                         | .04           | 14           | .4             | 98          | 2.6           | 108                             | 96                         | 46            | .8           | 0                          | --        | 344              | 36                                  | 548                                      | 8.0 | 84             | 7.1                           | 1.04                            |    |    |
| 104            | Qtal 8           | 278-298                                | Dec. 4, 1956       | --                         | --            | 15           | 1              | 130         | --            | --                              | 96                         | 75            | .7           | --                         | --        | 403              | 42                                  | --                                       | 8.4 | 89             | --                            | --                              |    |    |
|                |                  | 359-379                                | Dec. 5, 1956       | --                         | --            | 28           | 3              | 206         | --            | --                              | 194                        | 142           | .6           | --                         | --        | 612              | 82                                  | --                                       | 8.4 | 87             | --                            | --                              |    |    |
|                |                  | 448-468                                | Dec. 6, 1956       | --                         | --            | 21           | 1              | 124         | --            | --                              | 142                        | 55            | .7           | --                         | --        | 456              | 57                                  | --                                       | 8.1 | 85             | --                            | --                              |    |    |
|                |                  | 568-588                                | Dec. 7, 1956       | --                         | --            | 14           | 0              | 111         | --            | --                              | 112                        | 45            | .6           | --                         | --        | 340              | 35                                  | --                                       | 8.3 | 89             | --                            | --                              |    |    |
|                |                  | 644-664                                | do                 | --                         | --            | 15           | 0              | 105         | --            | --                              | 90                         | 44            | .5           | --                         | --        | 331              | 38                                  | --                                       | 8.4 | 87             | --                            | --                              |    |    |
|                |                  | 763-783                                | Dec. 8, 1956       | --                         | --            | 8            | 0              | 94          | --            | --                              | 70                         | 39            | .9           | --                         | --        | 364              | 15                                  | --                                       | 8.3 | 94             | --                            | --                              |    |    |
|                |                  | 868-888                                | do                 | --                         | --            | 8            | 0              | 103         | --            | --                              | 70                         | 44            | .9           | --                         | --        | 256              | 13                                  | --                                       | 8.1 | 95             | --                            | --                              |    |    |
|                |                  | 960-980                                | Dec. 9, 1956       | --                         | --            | 5            | 0              | 84          | --            | --                              | 68                         | 41            | .7           | --                         | --        | 269              | 12                                  | --                                       | 8.4 | 94             | --                            | --                              |    |    |
|                |                  | 1,130-1,150                            | Dec. 9, 1956       | --                         | --            | 3            | 0              | 108         | --            | --                              | 68                         | 39            | .7           | --                         | --        | 255              | 8                                   | --                                       | 8.5 | 98             | --                            | --                              |    |    |
|                |                  | 1,234-1,277                            | July 15, 1957      | --                         | .04           | 18           | --             | --          | --            | --                              | 112                        | 68            | 1.6          | --                         | --        | 723              | 46                                  | --                                       | 8.5 | --             | --                            | --                              | -- |    |
|                |                  | 1,150                                  | Nov. 19, 1957      | --                         | .02           | 6            | 0              | --          | --            | --                              | 118                        | 41            | .9           | --                         | --        | 250              | 16                                  | --                                       | 8.8 | --             | --                            | --                              | -- |    |
|                |                  | 1,150                                  | July 15, 1958      | 28                         | 0             | 4.9          | .5             | 78          | .5            | 71                              | 69                         | 38            | 1.0          | 0                          | .14       | 256              | 14                                  | 408                                      | --  | 92             | --                            | --                              | -- |    |
|                |                  | 105                                    | Qtal 8             | 465-480                    | Dec. 15, 1956 | --           | --             | 11          | 2             | 159                             | --                         | --            | 140          | 65                         | .5        | --               | --                                  | 450                                      | 37  | --             | 8.4                           | 92                              | -- | -- |
|                |                  |  |                    | 630-650                    | Dec. 16, 1956 | --           | --             | 12          | 0             | 101                             | --                         | --            | 76           | 50                         | .7        | --               | --                                  | 394                                      | 30  | --             | 8.2                           | 89                              | -- | -- |
| 830-850        | do               |  |                    | --                         | --            | 15           | 1              | 214         | --            | --                              | 240                        | 68            | .7           | --                         | --        | 600              | 43                                  | --                                       | 8.5 | 93             | --                            | --                              |    |    |
| 965-990        | Dec. 17, 1956    |  |                    | --                         | --            | 5            | 0              | 109         | --            | --                              | 92                         | 39            | .8           | --                         | --        | 285              | 12                                  | --                                       | 8.6 | 96             | --                            | --                              |    |    |
| 250-270        | Nov. 17, 1956    |  |                    | --                         | --            | 14           | 2              | 126         | --            | --                              | 118                        | 50            | .8           | --                         | --        | 380              | 42                                  | --                                       | 8.1 | 89             | --                            | --                              |    |    |
| 106            | Qtal 8           | 370-390                                | Nov. 18, 1956      | --                         | --            | 17           | 2              | 129         | --            | --                              | 114                        | 67            | .7           | --                         | --        | 354              | 52                                  | --                                       | 8.1 | 87             | --                            | --                              |    |    |
|                |                  | 470-490                                | do                 | --                         | --            | 8            | 0              | 96          | --            | --                              | 76                         | 35            | .7           | --                         | --        | 281              | 19                                  | --                                       | 8.3 | 92             | --                            | --                              |    |    |
|                |                  | 680-700                                | Nov. 21, 1956      | --                         | --            | 22           | 4              | 144         | --            | --                              | 152                        | 81            | .7           | --                         | --        | 434              | 71                                  | --                                       | 8.3 | 85             | --                            | --                              |    |    |
|                |                  | 758-778                                | do                 | --                         | --            | 8            | 0              | 117         | --            | --                              | 96                         | 48            | 1.0          | --                         | --        | 300              | 20                                  | --                                       | 8.3 | 94             | --                            | --                              |    |    |
|                |                  | 819-839                                | Nov. 22, 1956      | --                         | --            | 6            | 0              | 127         | --            | --                              | 98                         | 50            | 1.0          | --                         | --        | 314              | 14                                  | --                                       | 8.3 | 95             | --                            | --                              |    |    |
|                |                  | 910-930                                | Nov. 23, 1956      | --                         | --            | 8            | 0              | 113         | --            | --                              | 80                         | 53            | 1.0          | --                         | --        | 315              | 19                                  | --                                       | 8.4 | 93             | --                            | --                              |    |    |
|                |                  | 1,000-1,020                            | do                 | --                         | --            | 12           | 3              | 197         | --            | --                              | 178                        | 99            | .8           | --                         | --        | 540              | 43                                  | --                                       | 8.4 | 93             | --                            | --                              |    |    |
|                |                  | 1,090-1,110                            | Nov. 26, 1956      | --                         | --            | 6            | 0              | 110         | --            | --                              | 74                         | 41            | 1.1          | --                         | --        | 295              | 15                                  | --                                       | 8.2 | 95             | --                            | --                              |    |    |
|                |                  | 1,090                                  | June 20, 1957      | --                         | .02           | 2.4          | --             | --          | --            | --                              | 80                         | 35            | 1.0          | --                         | --        | 271              | 6                                   | --                                       | 8.3 | --             | --                            | --                              | -- |    |
|                |                  | 1,090                                  | Oct. 25, 1957      | --                         | .02           | 6            | 0              | --          | --            | --                              | 84                         | 38            | 1.0          | --                         | --        | 261              | 112                                 | --                                       | 9.2 | --             | --                            | --                              | -- |    |
|                |                  | 1,090                                  | July 15, 1958      | 30                         | 0             | 4            | .3             | 80          | .9            | 74                              | 69                         | 38            | 1.2          | 0                          | .08       | 257              | 11                                  | --                                       | 8.5 | 93             | --                            | --                              | -- |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|
| JL-49-04-107 | Qta1 8  | 550                                    | Aug. 28, 1957      | 32                         | 0.04      | 13           | 1.2            | 97          | 3.2           | 95                              | 99                         | 52            | 0.3          | 0                          | 0.12      | 345              | 38                                  | 538                                      | 8.0 | 84             | --                            | --                              |
| 109          | Qal Rg  | 149                                    | --                 | --                         | --        | 8,784        | 5,215          | --          | --            | --                              | 2,700                      | 6,240         | .8           | --                         | --        | 23,680           | 14,417                              | --                                       | 7.4 | --             | --                            | --                              |
|              | Qta1 8  | 233-258                                | --                 | --                         | --        | 37           | 13             | --          | --            | --                              | 210                        | 210           | .6           | --                         | --        | 912              | 148                                 | --                                       | 8.1 | --             | --                            | --                              |
|              |         | 313-314                                | --                 | --                         | .02       | 27           | 1              | --          | --            | --                              | 164                        | 137           | .7           | --                         | --        | 629              | 72                                  | --                                       | 8.2 | --             | --                            | --                              |
|              |         | 426-440                                | --                 | --                         | --        | 31           | 1              | --          | --            | --                              | 164                        | 147           | .7           | --                         | --        | 697              | 82                                  | --                                       | 8.1 | --             | --                            | --                              |
|              |         | 495-521                                | --                 | --                         | .02       | 18           | 1              | --          | --            | --                              | 130                        | 64            | .6           | --                         | --        | 444              | 50                                  | --                                       | 8.4 | --             | --                            | --                              |
|              |         | 576-602                                | --                 | --                         | .06       | 14           | .9             | --          | --            | --                              | 124                        | 48            | .8           | --                         | --        | 366              | 30                                  | --                                       | 8.4 | --             | --                            | --                              |
|              |         | 675-701                                | --                 | --                         | --        | 23           | 0              | --          | --            | --                              | 130                        | 45            | .6           | --                         | --        | 376              | 56                                  | --                                       | 8.4 | --             | --                            | --                              |
|              |         | 846-872                                | --                 | --                         | --        | 80           | 1              | --          | --            | --                              | 350                        | 63            | .8           | --                         | --        | 615              | 206                                 | --                                       | 9.3 | --             | --                            | --                              |
|              |         | 967-993                                | --                 | --                         | --        | 19           | .2             | --          | --            | --                              | 105                        | 43            | .9           | --                         | --        | 319              | 48                                  | --                                       | 8.6 | --             | --                            | --                              |
|              |         | 1,057-1,083                            | --                 | --                         | .2        | 20           | 0              | --          | --            | --                              | 120                        | 49            | .6           | --                         | --        | 357              | 40                                  | --                                       | 8.4 | --             | --                            | --                              |
|              |         | 1,194-1,218                            | --                 | --                         | 1.4       | 12           | .5             | --          | --            | --                              | 205                        | 90            | .9           | --                         | --        | 737              | 32                                  | --                                       | 8.6 | --             | --                            | --                              |
| 111          | Qta1 8  | 1,063-1,088                            | Jan. 12, 1966      | 23                         | --        | 12           | .5             | 89          | --            | 110                             | 79                         | 36            | .9           | .2                         | --        | 295              | 32                                  | 485                                      | 7.4 | 86             | 6.8                           | 1.16                            |
|              |         | 1,195-1,220                            | Jan. 13, 1966      | 28                         | --        | 46           | 2.7            | 453         | --            | 90                              | 576                        | 305           | 2.9          | .5                         | --        | 1,460            | 126                                 | 2,320                                    | 7.4 | 89             | 18                            | 0                               |
|              |         | 763-1,063                              | Aug. 18, 1966      | 25                         | .06       | 4            | .1             | 82          | .9            | 73                              | 64                         | 42            | .9           | 0                          | --        | 257              | 10                                  | 430                                      | 8.3 | --             | --                            | 1.06                            |
| 114          | Qta1 8  | 252                                    | Oct. 29, 1951      | 32                         | --        | 43           | 26             | 220         | --            | 164                             | 125                        | 300           | 1.6          | .5                         | --        | 839              | 214                                 | 1,480                                    | 7.7 | 69             | --                            | --                              |
| 115          | Qal Rg  | 202                                    | Sept. 13, 1957     | 33                         | --        | 27           | 3.2            | 190         | 6.6           | 155                             | 170                        | 133           | .5           | 0                          | .23       | 640              | 80                                  | 1,050                                    | 8.0 | 82             | --                            | --                              |
|              |         | 202                                    | Aug. 19, 1966      | 36                         | .04       | 38           | 5.7            | 217         | 6.7           | 182                             | 188                        | 180           | .7           | 0                          | --        | 761              | 118                                 | 1,260                                    | 7.9 | 79             | 8.7                           | .61                             |
| 117          | Qta1 8  | 146-326                                | Mar. 11, 1966      | 50                         | .02       | 31           | 3.1            | 205         | 5.7           | 166                             | 160                        | 170           | .7           | 0                          | 0         | 708              | 90                                  | 1,150                                    | 7.4 | 82             | 9.4                           | .91                             |
| 118          | Qta1 8  | 264                                    | Mar. 17, 1952      | 38                         | --        | 38           | 12             | 227         | --            | 162                             | 219                        | 190           | --           | 13                         | .37       | 847              | 144                                 | 1,350                                    | 8.0 | 77             | --                            | --                              |
| 119          | Qta1 8  | 50                                     | May 28, 1968       | --                         | --        | 80           | 83             | --          | --            | 264                             | 992                        | 668           | --           | --                         | --        | --               | 541                                 | 4,380                                    | 7.9 | --             | --                            | --                              |
| 123          | Qal Rg  | 100                                    | Mar. 11, 1953      | --                         | --        | --           | --             | --          | --            | 308                             | 264                        | 530           | --           | --                         | --        | --               | 540                                 | 2,600                                    | 7.6 | --             | --                            | --                              |
| 124          | Qta1 8  | 185                                    | June 18, 1952      | 45                         | --        | 62           | 31             | 284         | --            | 252                             | 194                        | 365           | 1.0          | 1.0                        | .47       | 1,110            | 232                                 | 1,970                                    | 7.8 | 69             | --                            | --                              |
| 125          | Qcal 8  | 136                                    | Sept. 16, 1948     | 50                         | --        | 80           | 41             | 240         | --            | 332                             | 175                        | 308           | --           | 2.2                        | --        | 1,060            | 368                                 | 1,810                                    | --  | 59             | --                            | --                              |
| 126          | Qta1 8  | 196                                    | Sept. 16, 1948     | 42                         | --        | 60           | 28             | 275         | --            | 262                             | 160                        | 340           | --           | 2.2                        | --        | 1,040            | 264                                 | 1,820                                    | --  | 69             | --                            | --                              |
| 129          | Qta1 8  | 104                                    | do                 | 38                         | --        | 74           | 36             | 396         | --            | 364                             | 259                        | 442           | --           | 2.8                        | --        | 1,430            | 332                                 | 2,400                                    | --  | 72             | --                            | --                              |
| 131          | Qta1 8  | 780-200                                | Sept. 2, 1953      | 31                         | 2.6       | 42           | 20             | 236         | 29            | 154                             | 160                        | 315           | 1.4          | .2                         | .18       | 918              | 187                                 | 1,600                                    | 7.8 | 70             | --                            | --                              |
|              |         | 355-410                                | Sept. 18, 1953     | 28                         | .5        | 42           | 19             | 316         | 28            | 232                             | 184                        | 384           | 1.0          | 1.2                        | .30       | 1,110            | 183                                 | 1,940                                    | 8.1 | 76             | --                            | --                              |
|              |         | 575-620                                | Oct. 1, 1953       | 29                         | 3.1       | 26           | 13             | 301         | 6.8           | 203                             | 277                        | 232           | 6.0          | .2                         | .55       | 992              | 118                                 | 1,660                                    | 7.9 | 84             | --                            | --                              |
| 135          | Qta1 8  | 190                                    | June 18, 1952      | 35                         | --        | 42           | 17             | 279         | --            | 164                             | 220                        | 295           | 1.8          | 1.5                        | .39       | 973              | 175                                 | 1,030                                    | 8.2 | 78             | --                            | --                              |
| 136          | Qta1 8  | 225                                    | do                 | 34                         | --        | 36           | 13             | 315         | --            | 175                             | 229                        | 322           | 2.4          | .8                         | .52       | 1,040            | 144                                 | 1,090                                    | 8.4 | 83             | --                            | --                              |
|              |         | --                                     | June 26, 1956      | --                         | --        | --           | --             | --          | --            | 165                             | --                         | 355           | --           | --                         | --        | --               | 208                                 | 1,980                                    | 7.8 | --             | --                            | --                              |
| 139          | Qta1 8  | 300                                    | Feb. 12, 1953      | 34                         | --        | 17           | 6.2            | 143         | --            | 114                             | 119                        | 115           | --           | .2                         | --        | 509              | 68                                  | 826                                      | 8.2 | 82             | --                            | --                              |
| 140          | Qal Rg  | 135                                    | Mar. 13, 1953      | --                         | --        | --           | --             | --          | --            | 222                             | 215                        | 145           | --           | --                         | --        | --               | 104                                 | 1,250                                    | 8.1 | --             | --                            | --                              |
| 143          | Qta1 8  | 226                                    | Feb. 20, 1958      | --                         | .02       | 83           | 25             | --          | --            | --                              | 216                        | 217           | 1.7          | --                         | --        | 901              | 310                                 | --                                       | 7.9 | --             | --                            | --                              |
| 148          | Qta1 8  | 147-189                                | Aug. 17, 1966      | 38                         | .04       | 43           | 26             | 178         | 23            | 164                             | 119                        | 265           | 1.4          | .5                         | --        | 775              | 214                                 | 1,360                                    | 7.5 | 61             | 5.3                           | 0                               |
| 149          | Qta1 8  | 600                                    | Apr. 8, 1975       | --                         | .12       | 18           | 1              | 114         | --            | 134                             | 114                        | 52            | 1.1          | .4                         | --        | 434              | 49                                  | 700                                      | 8.2 | --             | --                            | --                              |
|              |         | 705                                    | Jan. 13, 1976      | --                         | --        | 20           | .5             | --          | --            | 136                             | 110                        | 53            | --           | --                         | --        | --               | 52                                  | 667                                      | 8.0 | --             | --                            | --                              |
| 150          | Qta1 8  | 410-430                                | Sept. 12, 1970     | 18                         | .08       | 95           | 29             | 207         | --            | --                              | 186                        | 265           | 1.52         | .0                         | --        | 900              | 358                                 | --                                       | 7.6 | 73             | --                            | --                              |
|              |         | 210-410                                | Oct. 6, 1970       | 9                          | .07       | 78           | 35             | 2.5         | --            | --                              | 172                        | 325           | 1.75         | --                         | --        | 937              | 339                                 | --                                       | 7.5 | 65             | --                            | --                              |
| 151          | Qta1 8  | 195                                    | Oct. 31, 1973      | --                         | .45       | 44           | 22             | 455         | --            | --                              | 557                        | 320           | .78          | --                         | --        | 1,047            | 200                                 | 1,725                                    | 8.5 | 87             | --                            | --                              |
|              |         | 250                                    | do                 | --                         | .50       | 50           | 9              | 324         | --            | --                              | 257                        | 280           | .78          | --                         | --        | 1,056            | 160                                 | 1,740                                    | 8.5 | 85             | --                            | --                              |

See footnotes at end of table.

Table 7.-Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhmhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-----|----------------|-------------------------------|---------------------------------|
| JL-49-04-165 | Qta1 8  | 608                                    | Jan. 10, 1976      | --                         | --        | 16           | 0.2            | --          | --            | 52                              | 120                        | 150           | --           | --                         | --        | --               | 41                                  | 871                                       | 8.7 | --             | --                            | --                              |
| 202          | Qta1 8  | 410                                    | Oct. 11, 1972      | 32                         | --        | 66           | 39             | 155         | --            | 192                             | 246                        | 185           | 1.9          | < 0.4                      | --        | 820              | 323                                 | 1,250                                     | 7.6 | --             | --                            | --                              |
| 205          | Qta1 8  | 517                                    | Nov. 12, 1952      | 19                         | --        | 101          | 64             | 202         | --            | 251                             | 271                        | 318           | --           | .2                         | --        | 1,100            | 515                                 | 1,810                                     | 8.0 | 46             | --                            | --                              |
| 401          | Qta1 8  | 274-300                                | May 20, 1958       | --                         | 0.02      | 12           | 3              | --          | --            | --                              | 88                         | 50            | .8           | --                         | --        | 190              | 44                                  | --  | 8.5 | --             | --                            | --                              |
|              |         | 487-513                                | do                 | --                         | .02       | 14           | 1              | --          | --            | --                              | 96                         | 90            | .9           | --                         | --        | 267              | 41                                  | --  | 8.4 | --             | --                            | --                              |
|              |         | 666-692                                | do                 | --                         | .06       | 10           | 3              | --          | --            | --                              | 72                         | 50            | .9           | --                         | --        | 365              | 40                                  | --  | 9.2 | --             | --                            | --                              |
|              |         | 847-873                                | do                 | --                         | .02       | 15           | 4              | --          | --            | --                              | 144                        | 105           | 1.1          | --                         | --        | 774              | 50                                  | --  | 8.8 | --             | --                            | --                              |
|              |         | 937-963                                | May 22, 1958       | --                         | .02       | 70           | 7              | --          | --            | --                              | 400                        | 730           | 1.7          | --                         | --        | 1,943            | 206                                 | --  | 8.3 | --             | --                            | --                              |
|              |         | 900                                    | Aug. 19, 1958      | 33                         | .03       | 4.8          | 0              | 82          | 0.8           | 76                              | 73                         | 38            | 1.0          | .0                         | 0.12      | 265              | 12                                  | 425                                       | 8.7 | 93             | --                            | --                              |
|              |         | 900                                    | Sept. 25, 1963     | --                         | --        | --           | 2              | --          | --            | 74                              | 72                         | 46            | --           | --                         | --        | --               | 14                                  | 446                                       | 8.2 | --             | --                            | 0.93                            |
|              |         | 900                                    | Aug. 10, 1966      | 20                         | .01       | 6.4          | .2             | 87          | 1.1           | 60                              | 72                         | 46            | .9           | .2                         | --        | 252              | 17                                  | 452                                       | 8.6 | 91             | 9.2                           | .64                             |
| 402          | Qta1 8  | 189-209                                | Oct. 1956          | --                         | --        | --           | --             | 136         | --            | 108                             | --                         | 93            | --           | --                         | --        | --               | 71                                  | 796                                       | 8.0 | --             | --                            | --                              |
|              |         | 280-300                                | do                 | 36                         | --        | 17           | .8             | 121         | --            | 104                             | 119                        | 70            | .8           | 0                          | --        | 427              | 46                                  | 638                                       | 8.3 | 85             | --                            | --                              |
|              |         | 369-389                                | do                 | --                         | --        | --           | --             | 114         | --            | 100                             | --                         | 62            | --           | --                         | --        | --               | 45                                  | 609                                       | 8.0 | 85             | --                            | --                              |
|              |         | 470-493                                | do                 | 36                         | .15       | 8.8          | 0              | 80          | 2.2           | 82                              | 73                         | 39            | 1.0          | 0                          | .12       | 280              | 22                                  | 425                                       | 8.1 | 88             | --                            | --                              |
|              |         | 590-612                                | do                 | --                         | --        | --           | --             | 89          | --            | 93                              | --                         | 40            | --           | --                         | --        | --               | 30                                  | 464                                       | 8.3 | 87             | --                            | --                              |
|              |         | 666-686                                | do                 | --                         | --        | --           | --             | 151         | --            | 104                             | --                         | 80            | --           | --                         | --        | --               | 27                                  | 739                                       | 8.1 | 81             | --                            | --                              |
|              |         | 786-806                                | do                 | --                         | --        | --           | --             | 90          | --            | 98                              | --                         | 39            | --           | --                         | --        | --               | 24                                  | 455                                       | 8.7 | 98             | --                            | --                              |
|              |         | 876-896                                | do                 | 28                         | .15       | 3.4          | 0              | 87          | 1.2           | 106                             | 67                         | 30            | 1.4          | .2                         | .18       | 271              | 8                                   | 415                                       | 8.4 | 95             | --                            | --                              |
|              |         | 969-989                                | do                 | --                         | --        | --           | --             | 95          | --            | 113                             | --                         | 29            | --           | --                         | --        | --               | 6                                   | 432                                       | 9.0 | 97             | --                            | --                              |
|              |         | 1,060                                  | May 6, 1957        | --                         | .02       | 2.4          | --             | --          | --            | --                              | 90                         | 37            | 1.4          | --                         | --        | 283              | 6                                   | --  | 8.4 | --             | --                            | --                              |
|              |         | 1,060                                  | Oct. 25, 1957      | --                         | .02       | 5            | 0              | --          | --            | --                              | 92                         | 39            | 1.3          | --                         | --        | 292              | 10                                  | --  | 9.2 | --             | --                            | --                              |
|              |         | 1,060                                  | June 9, 1958       | 34                         | 0         | 3.6          | .5             | 90          | .6            | 65                              | 80                         | 39            | 1.3          | 0                          | .13       | 291              | 11                                  | 451                                       | 8.8 | 94             | 12                            | --                              |
|              |         | 1,060                                  | Sept. 25, 1963     | --                         | --        | --           | 2.2            | --          | --            | 72                              | 85                         | 47            | --           | --                         | --        | --               | 14                                  | 489                                       | 8.3 | --             | --                            | .90                             |
|              |         | 1,060                                  | Feb. 6, 1964       | --                         | --        | --           | 5.5            | --          | --            | 68                              | 103                        | 57            | --           | --                         | --        | --               | 14                                  | 572                                       | 9.0 | --             | --                            | .83                             |
|              |         | 1,060                                  | Jan. 27, 1966      | --                         | --        | --           | --             | --          | --            | 73                              | 87                         | 50            | --           | --                         | --        | --               | 14                                  | 504                                       | 8.3 | --             | --                            | 1.05                            |
| 403          | Qal Rg  | 160                                    | Apr. 10, 1952      | --                         | --        | 37           | 58             | --          | --            | 128                             | 206                        | 102           | --           | --                         | --        | 583              | 116                                 | --  | 7.7 | --             | --                            | --                              |
|              |         | 160                                    | July 29, 1952      | 32                         | 0         | 44           | 8.2            | 165         | --            | 160                             | 213                        | 105           | .6           | .5                         | --        | 654              | 144                                 | 1,070                                     | 8.2 | 71             | --                            | --                              |
|              |         | 160                                    | Sept. 30, 1952     | 35                         | --        | 51           | 9.3            | 176         | --            | 171                             | 217                        | 128           | .6           | .2                         | --        | 710              | 165                                 | 1,120                                     | 8.1 | 70             | --                            | --                              |
|              |         | 160                                    | June 30, 1953      | --                         | --        | --           | --             | --          | --            | 175                             | 212                        | 138           | --           | --                         | --        | --               | 172                                 | 1,160                                     | 8.1 | --             | --                            | --                              |
|              |         | 160                                    | Sept. 8, 1953      | 36                         | .02       | 58           | 10             | 185         | --            | 172                             | 228                        | 147           | .8           | 0                          | --        | 759              | 186                                 | 1,190                                     | 7.7 | 68             | --                            | --                              |
|              |         | 160                                    | Dec. 15, 1953      | --                         | .10       | 64           | 11             | --          | --            | 173                             | 272                        | 158           | .6           | --                         | --        | 826              | 203                                 | --  | 7.9 | --             | --                            | --                              |
|              |         | 160                                    | June 23, 1954      | 38                         | --        | 66           | 12             | 212         | --            | 180                             | 262                        | 180           | .6           | .2                         | --        | 868              | 214                                 | 1,390                                     | 7.9 | 68             | --                            | --                              |
|              |         | 160                                    | Oct. 26, 1955      | --                         | --        | --           | --             | --          | --            | 188                             | --                         | 210           | --           | --                         | --        | --               | 226                                 | 1,460                                     | 8.0 | --             | --                            | --                              |
|              |         | 160                                    | May 29, 1956       | 36                         | --        | 77           | 12             | 235         | --            | 278                             | 288                        | 215           | .7           | 1.7                        | --        | 963              | 242                                 | 1,530                                     | 7.8 | 68             | --                            | --                              |
|              |         | 160                                    | Mar. 26, 1957      | --                         | .08       | 80           | 11             | 189         | --            | --                              | 330                        | 110           | .5           | --                         | --        | 1,006            | 246                                 | --  | 8.1 | 68             | --                            | --                              |
|              |         | 160                                    | Oct. 23, 1967      | --                         | --        | --           | --             | --          | --            | 246                             | 532                        | 260           | --           | --                         | --        | --               | 394                                 | 2,130                                     | 7.6 | --             | --                            | 0                               |
| 405          | Qal Rg  | 170                                    | Aug. 22, 1955      | --                         | .02       | 27           | 8              | 290         | --            | 211                             | 240                        | 167           | 1.2          | --                         | --        | 859              | 101                                 | --  | 8.3 | --             | --                            | --                              |
|              |         | 170                                    | Feb. 22, 1956      | --                         | .02       | 28           | 8              | 281         | --            | 203                             | 240                        | 180           | .9           | --                         | --        | 847              | 104                                 | --  | --  | --             | --                            | --                              |
|              |         | 170                                    | Apr. 5, 1956       | --                         | .02       | 40           | 10             | 358         | --            | 214                             | 310                        | 217           | 1.0          | --                         | --        | 992              | 142                                 | --  | 8.2 | --             | --                            | --                              |
|              |         | 170                                    | May 29, 1956       | 38                         | --        | 58           | 13             | 315         | --            | 214                             | 324                        | 260           | .9           | .2                         | --        | 1,110            | 198                                 | 1,790                                     | 7.9 | 78             | --                            | --                              |
|              |         | 170                                    | Aug. 24, 1956      | --                         | .02       | 60           | 14             | 277         | --            | 223                             | 210                        | 290           | 1.0          | --                         | --        | 1,191            | 208                                 | --  | 8.3 | --             | --                            | --                              |
|              |         | 170                                    | Mar. 26, 1957      | --                         | .12       | 65           | 14             | 384         | --            | --                              | 440                        | 286           | .9           | --                         | --        | 1,267            | 220                                 | --  | 8.0 | 83             | --                            | --                              |
|              |         | 170                                    | Oct. 23, 1967      | --                         | --        | --           | --             | --          | --            | 246                             | 456                        | 290           | --           | --                         | --        | --               | 336                                 | 2,090                                     | 7.6 | --             | --                            | --                              |
| 406          | Qal Rg  | 152                                    | Apr. 1, 1952       | --                         | --        | --           | --             | --          | --            | 86                              | 75                         | 31            | --           | --                         | --        | 284              | 8                                   | --  | 9.3 | --             | --                            | --                              |
|              |         | 152                                    | July 8, 1952       | 43                         | --        | 4            | .6             | 91          | --            | 88                              | 80                         | 36            | 1.4          | 0                          | --        | 312              | 12                                  | 458                                       | 9.1 | 94             | --                            | --                              |
|              |         | 152                                    | Sept. 30, 1952     | 43                         | --        | 20           | 3.1            | 137         | --            | 114                             | 136                        | 87            | 1.0          | --                         | --        | 484              | 62                                  | 783                                       | 8.6 | 83             | --                            | --                              |
|              |         | 152                                    | Oct. 10, 1952      | 42                         | --        | 20           | 2.7            | 138         | --            | 116                             | 134                        | 88            | 1.4          | 0                          | --        | 483              | 61                                  | 825                                       | 8.6 | 83             | --                            | --                              |
|              |         | 152                                    | June 30, 1953      | --                         | --        | --           | --             | --          | --            | 127                             | 140                        | 92            | --           | --                         | --        | 73               | 831                                 | 8.5                                       | --  | --             | --                            | --                              |
|              |         | 152                                    | Aug. 9, 1953       | --                         | --        | --           | --             | --          | --            | 124                             | 154                        | 106           | --           | --                         | --        | 79               | 912                                 | 8.5                                       | --  | --             | --                            | --                              |
|              |         | 152                                    | Sept. 8, 1953      | 36                         | .02       | 58           | 10             | 158         | --            | 172                             | 228                        | 147           | .8           | 0                          | --        | 186              | 1,190                               | 7.7                                       | 68  | --             | --                            | --                              |
|              |         | 152                                    | Dec. 15, 1953      | --                         | .10       | 49           | 7.3            | --          | --            | 126                             | 228                        | 158           | .1           | --                         | --        | 719              | 152                                 | --  | 8.3 | --             | --                            | --                              |
|              |         | 152                                    | June 23, 1954      | 44                         | --        | 44           | 10             | 214         | --            | 127                             | 233                        | 225           | .9           | .2                         | --        | 857              | 200                                 | 1,310                                     | 8.0 | 70             | --                            | --                              |
|              |         | 152                                    | June 1955          | --                         | --        | 39           | 13             | 264         | --            | 137                             | 260                        | 243           | 1.0          | --                         | --        | 935              | 227                                 | --  | 8.5 | --             | --                            | --                              |
|              |         | 152                                    | June 26, 1956      | --                         | --        | --           | --             | --          | --            | 93                              | --                         | 255           | --           | --                         | --        | 240              | 1,600                               | 8.2                                       | --  | --             | --                            | --                              |
|              |         | 152                                    | Oct. 23, 1967      | --                         | --        | --           | --             | --          | --            | 152                             | 277                        | 160           | --           | --                         | --        | 192              | 1,280                               | 7.6                                       | --  | --             | --                            | 0                               |
| 407          | Qal Rg  | 200                                    | Apr. 12, 1956      | --                         | 0.02      | 49           | --             | 120         | --            | 196                             | 160                        | 75            | 1.0          | --                         | --        | 546              | 172                                 | --  | 7.8 | --             | --                            | --                              |
|              |         | 200                                    | May 29, 1956       | 39                         | --        | 78           | 18             | 132         | --            | 240                             | 218                        | 92            | .7           | 0                          | --        | 696              | 268                                 | 1,080                                     | 7.7 | 52             | --                            | --                              |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well                | Aquifer           | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)         | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|---------------------|-------------------|--|--------------------|----------------------------|-------------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-04-407<br>408 | Qal Rg            | 200                                    | by Mar. 29, 1957   | --                         | 0.1               | 62           | 12             | 131         | --            | --                              | 210                        | 82            | 0.7          | --                         | --        | 610              | 204                                 | --                                       | 8.1   | --             | --                            | --                              |    |    |
|                     |                   | 200                                    | by Oct. 23, 1967   | --                         | --                | --           | --             | --          | --            | 184                             | 218                        | 90            | --           | --                         | --        | --               | 208                                 | 985                                      | 7.5   | 64             | --                            | 0                               |    |    |
|                     | Qal Rg            | 200                                    | by May 5, 1956     | --                         | .15               | 64           | 14             | --          | --            | --                              | 239                        | 260           | 100          | .5                         | --        | --               | 775                                 | 218                                      | --    | 8.1            | --                            | --                              | -- |    |
|                     |                   | 200                                    | by May 29, 1956    | 40                         | --                | 74           | 16             | 189         | --            | --                              | 248                        | 274           | 121          | .7                         | 0         | --               | 837                                 | 250                                      | --    | 7.8            | 62                            | --                              | -- |    |
|                     |                   | 200                                    | by Oct. 1, 1956    | --                         | .07               | 73           | 15             | 118         | --            | --                              | 121                        | 210           | 128          | .7                         | --        | --               | 821                                 | 244                                      | --    | 8.2            | --                            | --                              | -- |    |
| 409                 | Qal Rg            | 200                                    | by Mar. 29, 1957   | --                         | .12               | 98           | 20             | 223         | --            | --                              | 375                        | 148           | .5           | --                         | --        | --               | 326                                 | --                                       | 8.2   | 66             | --                            | --                              |    |    |
|                     |                   | 200                                    | by Oct. 23, 1967   | --                         | --                | --           | --             | --          | --            | 177                             | 221                        | 78            | --           | --                         | --        | --               | 219                                 | 940                                      | 7.5   | 66             | --                            | 0                               |    |    |
|                     |                   | 156                                    | by Mar. 5, 1955    | --                         | .01               | 54           | 13             | --          | --            | --                              | 201                        | 275           | 167          | .8                         | --        | --               | 946                                 | 191                                      | --    | 8.0            | --                            | --                              | -- |    |
|                     |                   | 156                                    | by Aug. 18, 1955   | --                         | .02               | 71           | 17             | 294         | --            | --                              | 290                        | 350           | 200          | .8                         | --        | --               | 1,133                               | 248                                      | --    | 8.2            | --                            | --                              | -- |    |
| 411                 | Qal Rg            | 194                                    | by June 10, 1955   | --                         | --                | 28           | 5              | --          | --            | 135                             | 200                        | 130           | --           | --                         | --        | 704              | 91                                  | --                                       | 8.0   | --             | --                            | --                              |    |    |
|                     |                   | 194                                    | by Aug. 18, 1955   | --                         | .02               | 67           | 12             | 222         | --            | --                              | 163                        | 240           | 221          | 1.0                        | --        | --               | 902                                 | 248                                      | --    | 8.3            | --                            | --                              | -- |    |
|                     |                   | 194                                    | by Oct. 26, 1955   | 39                         | .04               | 79           | 14             | 240         | --            | --                              | 167                        | 249           | 268          | .5                         | .4        | --               | 968                                 | 254                                      | 1,570 | 7.7            | 67                            | --                              | -- |    |
|                     |                   | 194                                    | by Dec. 9, 1955    | --                         | .04               | 80           | 19             | 255         | --            | --                              | 151                        | 250           | 320          | .6                         | --        | --               | 1,066                               | 280                                      | --    | 7.8            | --                            | --                              | -- |    |
|                     |                   | 194                                    | by Feb. 22, 1956   | --                         | .02               | 85           | 19             | 258         | --            | --                              | 157                        | 245           | 330          | .7                         | --        | --               | 1,131                               | 290                                      | --    | --             | --                            | --                              | -- |    |
|                     |                   | 194                                    | by May 29, 1956    | 39                         | --                | 94           | 16             | 272         | --            | --                              | 172                        | 282           | 322          | .5                         | 1.8       | --               | 1,130                               | 300                                      | 1,820 | 7.7            | 66                            | --                              | -- |    |
|                     |                   | 194                                    | by Oct. 1, 1956    | --                         | .04               | 110          | 17             | 312         | --            | --                              | 173                        | 290           | 410          | .6                         | --        | --               | 1,291                               | 344                                      | --    | 8.2            | --                            | --                              | -- |    |
|                     |                   | 194                                    | by Oct. 23, 1967   | --                         | --                | --           | --             | --          | --            | --                              | 206                        | 556           | 332          | --                         | --        | --               | --                                  | 468                                      | 2,270 | 7.6            | --                            | --                              | 0  |    |
|                     |                   | 412                                    | Qal Rg             | 160                        | by Mar. 27, 1952  | --           | --             | --          | --            | --                              | --                         | 76            | 133          | 97                         | --        | --               | --                                  | 455                                      | 6     | --             | 9.1                           | --                              | -- | -- |
|                     |                   |  |                    | 160                        | by July 11, 1952  | 45           | --             | 4.1         | .3            | 141                             | --                         | --            | 80           | 120                        | 84        | 2.6              | 0                                   | --                                       | 436   | 11             | 722                           | 9.1                             | 97 | -- |
| 160                 | by Sept. 30, 1952 |  |                    | 43                         | --                | 7.4          | 1.0            | 169         | --            | --                              | 116                        | 144           | 99           | 1.8                        | 0         | --               | 515                                 | 22                                       | 860   | 8.8            | 94                            | --                              | -- |    |
| 160                 | by June 30, 1953  |  |                    | --                         | --                | --           | --             | --          | --            | --                              | 135                        | 151           | 100          | --                         | --        | --               | --                                  | 36                                       | 900   | 8.4            | --                            | --                              | -- |    |
| 160                 | by Sept. 8, 1953  |  |                    | --                         | --                | --           | --             | --          | --            | --                              | 122                        | 155           | 94           | --                         | --        | --               | --                                  | 27                                       | 851   | 8.9            | --                            | --                              | -- |    |
| 160                 | by Dec. 15, 1953  |  |                    | --                         | .10               | 22           | 1.5            | --          | --            | --                              | 120                        | 222           | 113          | 1.4                        | --        | --               | 614                                 | 61                                       | --    | 8.6            | --                            | --                              | -- |    |
| 160                 | by June 23, 1954  |  |                    | 44                         | --                | 28           | 2.3            | 206         | --            | --                              | 126                        | 214           | 140          | 1.6                        | 0         | --               | 698                                 | 80                                       | 1,100 | 8.4            | 85                            | --                              | -- |    |
| 160                 | by Oct. 26, 1955  |  |                    | --                         | --                | --           | --             | --          | --            | --                              | 120                        | --            | 140          | --                         | --        | --               | --                                  | 92                                       | 1,130 | 8.5            | --                            | --                              | -- |    |
| 160                 | by May 29, 1956   |  |                    | --                         | --                | --           | --             | --          | --            | --                              | 117                        | --            | 148          | --                         | --        | --               | --                                  | 112                                      | 1,200 | 8.2            | --                            | --                              | -- |    |
| 160                 | by Mar. 26, 1957  |  |                    | --                         | .02               | 34           | 9              | 227         | --            | --                              | --                         | 270           | 138          | 1.2                        | --        | --               | 716                                 | 102                                      | --    | 8.5            | 83                            | --                              | -- |    |
| 160                 | by Oct. 23, 1967  |  |                    | --                         | --                | --           | --             | --          | --            | --                              | 152                        | 264           | 134          | --                         | --        | --               | --                                  | 148                                      | 1,190 | 7.8            | --                            | --                              | 0  |    |
| 413                 | Qal Rg            |  |                    | 160                        | by May 1, 1952    | 42           | --             | 42          | 5.7           | 159                             | --                         | 112           | 151          | 160                        | --        | 0                | 0.12                                | 615                                      | 128   | 1,020          | 8.2                           | 73                              | -- | -- |
|                     |                   |  |                    | 160                        | by July 29, 1952  | 42           | 0              | 45          | 6.2           | 164                             | --                         | 114           | 155          | 168                        | 1.2       | 0                | --                                  | 637                                      | 138   | 1,060          | 8.5                           | 72                              | -- | -- |
|                     |                   |  |                    | 160                        | by Sept. 30, 1952 | --           | --             | --          | --            | --                              | --                         | 115           | --           | 163                        | --        | --               | --                                  | --                                       | --    | 132            | 1,040                         | 8.3                             | -- | -- |
|                     |                   | 160                                    | by June 30, 1953   | --                         | --                | --           | --             | --          | --            | 121                             | 134                        | 122           | --           | --                         | --        | --               | --                                  | 100                                      | 902   | 8.2            | --                            | --                              | -- |    |
|                     |                   | 160                                    | by Dec. 8, 1953    | --                         | --                | --           | --             | --          | --            | 106                             | 130                        | 108           | --           | --                         | --        | --               | --                                  | 76                                       | 808   | 8.6            | --                            | --                              | -- |    |
|                     |                   | 160                                    | by Dec. 12, 1953   | --                         | .10               | 20           | 2.4            | --          | --            | 96                              | --                         | 146           | 95           | 1.1                        | --        | --               | 459                                 | 60                                       | --    | 8.6            | --                            | --                              | -- |    |
|                     |                   | 160                                    | by June 23, 1954   | 41                         | --                | 18           | 2.0            | 135         | --            | 91                              | 124                        | 99            | 1.1          | --                         | .2        | --               | 465                                 | 53                                       | 730   | 8.5            | 85                            | --                              | -- |    |
|                     |                   | 160                                    | by May 29, 1956    | --                         | --                | --           | --             | --          | --            | 109                             | --                         | 109           | --           | --                         | --        | --               | --                                  | 94                                       | 961   | 8.0            | --                            | --                              | -- |    |
|                     |                   | 160                                    | by Mar. 26, 1957   | --                         | .02               | 44           | 4              | 189         | --            | --                              | --                         | 192           | 165          | 1.0                        | --        | --               | 689                                 | 127                                      | --    | 8.4            | 80                            | --                              | -- |    |
|                     |                   | 414                                    | Qal Rg             | 200                        | by June 29, 1955  | --           | .02            | 52          | 9             | --                              | --                         | 250           | 180          | 167                        | 1.0       | --               | --                                  | 809                                      | 166   | --             | 8.5                           | --                              | -- | -- |
| 200                 | by May 29, 1956   |  |                    | 44                         | --                | 44           | 6.6            | 198         | --            | 200                             | 195                        | 140           | 1.4          | 0                          | --        | --               | 727                                 | 137                                      | --    | 8.0            | 76                            | --                              | -- |    |
| 200                 | by Oct. 1, 1956   |  |                    | --                         | .05               | 55           | 8              | 213         | --            | 201                             | 190                        | 188           | 1.7          | --                         | --        | --               | 820                                 | 170                                      | --    | 8.4            | --                            | --                              | -- |    |
| 200                 | by Mar. 26, 1957  |  |                    | --                         | .06               | 43           | 6              | 191         | --            | --                              | 210                        | 140           | 1.1          | --                         | --        | --               | 722                                 | 132                                      | --    | 8.3            | 80                            | --                              | -- |    |
| 415                 | Qal Rg            | 122                                    | by Aug. 21, 1951   | --                         | --                | --           | --             | --          | --            | 124                             | 190                        | 124           | --           | --                         | --        | 616              | 82                                  | --                                       | 8.8   | --             | --                            | --                              |    |    |
|                     |                   | 122                                    | by July 11, 1952   | 40                         | --                | 21           | 3.5            | 164         | --            | 117                             | 162                        | 108           | 2.0          | 0                          | --        | 593              | 67                                  | 922                                      | 8.7   | 84             | --                            | --                              |    |    |
|                     |                   | 122                                    | by Sept. 30, 1952  | 41                         | --                | 30           | 6.1            | 176         | --            | 131                             | 182                        | 129           | 1.8          | --                         | .2        | --               | 630                                 | 100                                      | 1,020 | 8.3            | 79                            | --                              | -- |    |
|                     |                   | 122                                    | by June 30, 1953   | --                         | --                | --           | --             | --          | --            | 139                             | 180                        | 140           | --           | --                         | --        | --               | --                                  | 95                                       | 1,060 | 8.6            | --                            | --                              | -- |    |
|                     |                   | 122                                    | by Sept. 8, 1953   | --                         | --                | --           | --             | --          | --            | 126                             | 187                        | 125           | --           | --                         | --        | --               | --                                  | 86                                       | 1,010 | 8.6            | --                            | --                              | -- |    |
|                     |                   | 122                                    | by Dec. 15, 1953   | --                         | .10               | 30           | 5.0            | --          | --            | 120                             | 232                        | 133           | 1.8          | --                         | --        | --               | 663                                 | 97                                       | --    | 8.5            | --                            | --                              | -- |    |
|                     |                   | 122                                    | by June 23, 1954   | --                         | --                | --           | --             | --          | --            | 116                             | --                         | 135           | --           | --                         | --        | --               | --                                  | 78                                       | 1,030 | 8.4            | --                            | --                              | -- |    |
|                     |                   | 122                                    | by May 29, 1956    | --                         | --                | --           | --             | --          | --            | 113                             | --                         | 150           | --           | --                         | --        | --               | --                                  | 108                                      | 1,140 | 8.1            | --                            | --                              | -- |    |
|                     |                   | 122                                    | by Mar. 26, 1957   | --                         | .02               | 24           | 3              | 220         | --            | --                              | 240                        | 155           | 1.5          | --                         | --        | --               | 683                                 | 71                                       | --    | 8.6            | 89                            | --                              | -- |    |
| 416                 | Qeal 8            | 80-90                                  | by Aug. 1957       | --                         | .02               | 13           | 3              | --          | --            | --                              | 168                        | 64            | .7           | --                         | --        | 481              | 46                                  | --                                       | 8.1   | --             | --                            | --                              |    |    |
|                     |                   | 260-276                                | by do              | --                         | .02               | 14           | 3              | --          | --            | --                              | 124                        | 54            | 1.1          | --                         | --        | 375              | 50                                  | --                                       | 8.2   | --             | --                            | --                              |    |    |
|                     |                   | 395-421                                | by do              | --                         | .02               | 19           | 6              | --          | --            | --                              | 168                        | 62            | 1.1          | --                         | --        | 473              | 70                                  | --                                       | 8.1   | --             | --                            | --                              |    |    |
|                     |                   | 515-541                                | by do              | --                         | .02               | 9            | 4              | --          | --            | --                              | 124                        | 37            | 1.2          | --                         | --        | 380              | 40                                  | --                                       | 8.4   | --             | --                            | --                              |    |    |
|                     |                   | 605-631                                | by do              | --                         | .02               | 9            | 6              | --          | --            | --                              | 336                        | 36            | 1.2          | --                         | --        | 860              | 48                                  | --                                       | 8.5   | --             | --                            | --                              |    |    |
| 696-722             | by do             | --                                     | .02                | 16                         | 5                 | --           | --             | --          | 284           | 57                              | 1.1                        | --            | --           | 540                        | 60        | --               | 8.5                                 | --                                       | --    | --             |                               |                                 |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer           | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)        | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhmhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |     |    |
|--------------|-------------------|--|--------------------|----------------------------|------------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-------|----------------|-------------------------------|---------------------------------|-----|----|
| JL-49-04-416 | Qtal B            | 787-813                                | ly Aug. 29, 1957   | --                         | 0.02             | 9            | 4              | --          | --            | --                              | 312                        | 78            | 1.5          | --                         | --        | 663              | 38                                  | --  | 8.8   | --             | --                            | --                              |     |    |
|              |                   | 907-933                                | ly do              | --                         | .02              | 14           | 5              | --          | --            | --                              | 208                        | 221           | 1.8          | --                         | --        | --               | 952                                 | 56  | --    | 8.4            | --                            | --                              | --  |    |
|              |                   | 988-1,014                              | ly Aug. 30, 1957   | --                         | .02              | 62           | 7              | --          | --            | --                              | 600                        | 683           | 1.9          | --                         | --        | --               | 2,057                               | 182                                       | --    | 8.2            | --                            | --                              | --  |    |
|              |                   | 528-1,013                              | ly Sept. 6, 1957   | 30                         | .25              | 6.6          | 1.1            | 161         | 1.4           | 62                              | 83                         | 127           | 116          | 3.6                        | 0         | 0.34             | 510                                 | 17  | 812   | 8.9            | 95                            | --                              | --  |    |
|              |                   | 1,013                                  | ly July 13, 1962   | 37                         | --               | 42           | 2.3            | 144         | --            | 62                              | 102                        | 190           | 190          | .8                         | 0         | --               | 548                                 | 114                                       | 930   | 7.4            | 73                            | 5.9                             | --  |    |
|              |                   | 1,013                                  | ly Feb. 13, 1963   | --                         | --               | --           | --             | --          | --            | 64                              | --                         | 188           | --           | --                         | --        | --               | --                                  | 199                                       | 936   | 7.5            | --                            | --                              | 0   |    |
|              |                   | 1,013                                  | ly Sept. 25, 1963  | --                         | --               | --           | 25             | --          | --            | 61                              | 122                        | 238           | --           | --                         | --        | --               | --                                  | 160                                       | 1,140 | 7.0            | --                            | --                              | 0   |    |
|              |                   | 1,013                                  | ly May 1, 1964     | --                         | --               | --           | 23             | --          | --            | 66                              | 127                        | 212           | --           | --                         | --        | --               | --                                  | 148                                       | 1,080 | 7.8            | --                            | --                              | 0   |    |
|              |                   | 1,013                                  | ly Nov. 23, 1964   | --                         | --               | --           | 23             | --          | --            | 70                              | 141                        | 228           | --           | --                         | --        | --               | --                                  | 165                                       | 1,130 | 7.7            | --                            | --                              | --  |    |
|              |                   | 1,013                                  | ly June 21, 1965   | --                         | --               | --           | 33             | --          | --            | 62                              | 176                        | 295           | --           | --                         | --        | --               | --                                  | 214                                       | 1,420 | 7.6            | --                            | --                              | 0   |    |
|              |                   | 1,013                                  | ly Jan. 27, 1966   | --                         | --               | --           | --             | --          | --            | 58                              | 244                        | 440           | --           | --                         | --        | --               | --                                  | 336                                       | 1,970 | 7.0            | --                            | --                              | 0   |    |
|              |                   | 1,013                                  | ly Aug. 26, 1966   | 33                         | .02              | 88           | 6.0            | 213         | 4.4           | 62                              | 186                        | 335           | .5           | .2                         | --        | --               | 895                                 | 240                                       | 1,570 | 7.5            | 65                            | 6.0                             | 0   |    |
|              |                   | 1,013                                  | ly Sept. 8, 1969   | --                         | --               | --           | --             | --          | --            | --                              | --                         | 355           | --           | --                         | --        | --               | --                                  | --  | 1,570 | --             | --                            | --                              | --  | -- |
|              |                   | 417                                    | Qtal B             | 183-207                    | ly Sept. 3, 1953 | 36           | .02            | 34          | 6.0           | 258                             | 3.8                        | 92            | 207          | 268                        | 1.4       | .2               | .36                                 | 860                                       | 110   | 1,440          | 7.5                           | 83                              | --  | -- |
| 286-310      | ly Sept. 4, 1953  |  |                    | 34                         | .28              | 15           | 2.3            | 113         | 2.2           | 125                             | 98                         | 63            | 1.3          | .2                         | .18       | 398              | 47                                  | 587                                       | 7.8   | 83             | --                            | --                              |     |    |
| 533-557      | ly Sept. 5, 1953  |  |                    | 42                         | .80              | 22           | .8             | 175         | 1.4           | 90                              | 137                        | 154           | 1.6          | 0                          | .21       | 609              | 58                                  | 896                                       | 7.8   | 86             | --                            | --                              |     |    |
| 673-697      | ly Sept. 9, 1953  |  |                    | 13                         | .02              | 80           | 13             | 691         | 6.6           | 67                              | 545                        | 800           | 2.4          | .2                         | .32       | 2,180            | 253                                 | 3,720                                     | 7.2   | 85             | --                            | --                              |     |    |
| 731-755      | ly Sept. 10, 1953 |  |                    | 19                         | .02              | 66           | 3.7            | 608         | --            | 31                              | 466                        | 700           | 1.8          | .2                         | --        | 1,880            | 180                                 | 3,190                                     | 6.8   | 88             | --                            | --                              |     |    |
|              | Qal Rg            | 200                                    | ly Aug. 24, 1966   | 37                         | .19              | 135          | 3.6            | 374         | 3.2           | 81                              | 506                        | 422           | .2           | .2                         | --        | 1,520            | 352                                 | 2,440                                     | 7.6   | 70             | 8.7                           | 0                               |     |    |
| 418          | Qtal B            | 445-545                                | ly May 7, 1964     | --                         | --               | --           | 2              | --          | --            | 69                              | 82                         | 35            | --           | --                         | --        | --               | 16                                  | 440                                       | 8.5   | --             | --                            | .98                             |     |    |
|              |                   | 335-545                                | ly Aug. 22, 1966   | 35                         | 0                | 7.5          | .2             | 81          | .9            | 80                              | 74                         | 36            | 1.0          | 0                          | --        | 275              | 20                                  | 431                                       | 8.2   | 90             | 7.9                           | .92                             |     |    |
|              |                   | 200-545                                | ly Sept. 9, 1969   | --                         | --               | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | --                                  | 429                                       | --    | --             | --                            | --                              |     |    |
| 419          | Qtal B            | 585-1,050                              | ly Aug. 23, 1966   | 34                         | .03              | 7.2          | .2             | 78          | 1.8           | 72                              | 78                         | 32            | 1.0          | 0                          | --        | 269              | 19                                  | 422                                       | 8.4   | 89             | 7.8                           | .87                             |     |    |
| 420          | Qal Rg            | 202                                    | ly Apr. 16, 1952   | --                         | --               | 16           | 6.0            | --          | --            | 116                             | 139                        | 75            | --           | --                         | --        | 447              | 66                                  | --  | 8.5   | --             | --                            | --                              |     |    |
|              |                   | 202                                    | ly July 15, 1952   | 34                         | --               | 12           | 1.6            | 95          | --            | 95                              | 91                         | 48            | 1.0          | 0                          | --        | 346              | 37                                  | 526                                       | 8.5   | 85             | --                            | --                              |     |    |
|              |                   | 202                                    | ly Sept. 30, 1952  | --                         | --               | --           | --             | --          | --            | --                              | 99                         | --            | 53           | --                         | --        | --               | --                                  | 43  | 556   | 8.1            | --                            | --                              | --  |    |
|              |                   | 202                                    | ly Sept. 6, 1953   | --                         | --               | --           | --             | --          | --            | --                              | 93                         | --            | 48           | --                         | --        | --               | --                                  | 37  | 507   | 7.3            | --                            | --                              | --  |    |
|              |                   | 202                                    | ly Dec. 15, 1953   | --                         | .10              | 12           | 1.5            | --          | --            | --                              | 90                         | 104           | 46           | .9                         | --        | --               | 336                                 | 37  | --    | 8.2            | --                            | --                              | --  |    |
|              |                   | 202                                    | ly June 23, 1954   | --                         | --               | --           | --             | --          | --            | --                              | 95                         | --            | 50           | --                         | --        | --               | --                                  | 38  | 505   | 8.2            | --                            | --                              | --  |    |
|              |                   | 202                                    | ly Oct. 26, 1955   | --                         | --               | --           | --             | --          | --            | --                              | 92                         | --            | 50           | --                         | --        | --               | --                                  | 39  | 514   | 8.3            | --                            | --                              | --  |    |
|              |                   | 202                                    | ly Mar. 26, 1957   | --                         | .02              | 15           | --             | 114         | --            | --                              | --                         | 108           | 53           | .8                         | --        | --               | 346                                 | 42  | --    | 8.4            | 88                            | --                              | --  |    |
|              |                   | 155                                    | ly Oct. 23, 1967   | --                         | --               | --           | --             | --          | --            | --                              | 86                         | 128           | 81           | --                         | --        | --               | --                                  | 72  | 680   | 7.1            | --                            | --                              | 0   |    |
|              |                   | 423                                    | Qal Rg             | 200                        | ly Aug. 5, 1966  | 32           | .06            | 55          | 7.8           | 210                             | 5.7                        | 156           | 286          | 150                        | .5        | 0                | --                                  | 825                                       | 170   | 1,320          | 7.6                           | 72                              | 7.0 | 0  |
| 424          | Qal Rg            | 200                                    | ly do              | 35                         | .04              | 65           | 5.4            | 221         | 4.8           | 116                             | 316                        | 178           | .4           | 0                          | --        | 884              | 186                                 | 1,400                                     | 7.5   | 72             | 7.0                           | 0                               |     |    |
| 426          | Qal Rg            | 200                                    | ly do              | 35                         | .32              | 228          | 36             | 520         | 11            | 206                             | 456                        | 875           | --           | 1.8                        | --        | 2,270            | 721                                 | 3,770                                     | 7.3   | 61             | 8.4                           | 0                               |     |    |
| 428          | Qal Rg            | 200                                    | ly Aug. 10, 1966   | 33                         | .25              | 70           | 14             | 206         | 4.6           | 211                             | 292                        | 150           | .9           | .2                         | --        | 876              | 234                                 | 1,410                                     | 7.3   | 65             | 5.9                           | 0                               |     |    |
| 429          | Qal Rg            | 50                                     | ly May 13, 1968    | --                         | --               | 290          | 76             | --          | --            | 532                             | 1,280                      | 600           | --           | --                         | --        | --               | 1,040                               | 4,470                                     | 7.7   | --             | --                            | 0                               |     |    |
|              |                   | 50                                     | ly Dec. 18, 1969   | --                         | --               | 212          | 53             | --          | --            | 664                             | 996                        | 340           | --           | --                         | --        | --               | 747                                 | 3,490                                     | 8.2   | --             | --                            | 0                               |     |    |
| 430          | Qal Rg            | 50                                     | ly May 10, 1968    | --                         | --               | 154          | 35             | --          | --            | 270                             | 440                        | 215           | --           | --                         | --        | --               | 528                                 | 1,860                                     | 7.9   | --             | --                            | 0                               |     |    |
|              |                   | 50                                     | ly Dec. 18, 1969   | --                         | --               | 128          | 26             | --          | --            | 256                             | 360                        | 155           | --           | --                         | --        | --               | 426                                 | 1,520                                     | 7.2   | --             | --                            | 0                               |     |    |
| 431          | Qal Rg            | 50                                     | ly May 20, 1968    | --                         | --               | 73           | 16             | --          | --            | 184                             | 275                        | 104           | --           | --                         | --        | --               | 248                                 | 1,190                                     | 7.6   | --             | --                            | 0                               |     |    |
|              |                   | 50                                     | ly Dec. 18, 1969   | --                         | --               | 152          | 32             | --          | --            | 280                             | 424                        | 185           | --           | --                         | --        | --               | 510                                 | 1,700                                     | 7.5   | --             | --                            | 0                               |     |    |
| 434          | Qal Rg            | 160                                    | ly June 30, 1953   | --                         | --               | --           | --             | --          | --            | 267                             | 320                        | 282           | --           | --                         | --        | --               | 298                                 | 1,900                                     | 8.1   | --             | --                            | --                              |     |    |
| 436          | Qtal B            | 190                                    | ly Mar. 13, 1953   | 30                         | --               | 3.9          | .3             | 80          | --            | 79                              | 67                         | 35            | --           | 0                          | --        | 263              | 11                                  | 395                                       | 8.9   | 94             | --                            | --                              |     |    |
|              |                   | 190                                    | ly Jan. 27, 1970   | --                         | --               | 310          | 72             | --          | --            | 126                             | 1,570                      | 1,120         | --           | --                         | --        | --               | 1,070                               | 5,840                                     | 7.8   | --             | --                            | 0                               |     |    |
| 437          | Qtal B            | 131                                    | ly Feb. 27, 1953   | 34                         | --               | 24           | 8.2            | 157         | --            | 127                             | 134                        | 135           | --           | 0                          | --        | 558              | 94                                  | 918                                       | 8.2   | 78             | --                            | --                              |     |    |
|              |                   | 131                                    | ly May 29, 1969    | --                         | --               | 9.5          | 0              | --          | --            | 74                              | 85                         | 48            | --           | --                         | --        | --               | 24                                  | 465                                       | 7.9   | --             | --                            | .74                             |     |    |
| 438          | Qtal B            | 142                                    | ly June 18, 1952   | 38                         | --               | 20           | 4.8            | 118         | --            | 98                              | 106                        | 101           | .8           | 0                          | .22       | 452              | 70                                  | 733                                       | 8.4   | 79             | --                            | --                              |     |    |
|              |                   | 142                                    | ly July 1956       | --                         | --               | --           | --             | --          | --            | 111                             | --                         | 104           | --           | --                         | --        | --               | --                                  | 88  | 778   | 8.2            | --                            | --                              | --  |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer                    | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|----------------------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|
| JL-49-04-441 | Qtal 8                     | 210-230                                | g Aug. 28, 1953    | 15                         | 0.02      | 53           | 30             | 257         | --            | 184                             | 293                        | 250           | 1.8          | 1.0                        | --        | 999              | 256                                 | 1,660                                    | 7.9   | 69             | --                            | --                              |    |
|              |                            | 336-366                                | g Aug. 17, 1953    | 6.3                        | .01       | 35           | 18             | 244         | 13            | 186                             | 238                        | 205           | 2.0          | 2.0                        | .13       | 863              | 162                                 | 1,440                                    | 7.8   | 75             | --                            | --                              |    |
|              |                            | 404-434                                | g Aug. 20, 1953    | 15                         | .02       | 60           | 29             | 207         | --            | 203                             | 213                        | 228           | 2.2          | 1.0                        | --        | 859              | 268                                 | 1,460                                    | 8.0   | 63             | --                            | --                              |    |
|              |                            | 619-649                                | g Aug. 21, 1953    | 15                         | .03       | 33           | 12             | 312         | 11            | 254                             | 217                        | 265           | 1.4          | 1.0                        | .45       | 998              | 132                                 | 1,680                                    | 8.1   | 82             | --                            | --                              |    |
| 442          | Qtal 8                     | 160                                    | g June 30, 1953    | 24                         | --        | 5.4          | .3             | 86          | --            | 79                              | 75                         | 42            | --           | 0                          | --        | 274              | 15                                  | 447                                      | 8.3   | 93             | --                            | --                              |    |
| 444          | Qtal 8                     | 35                                     | g July 31, 1952    | 37                         | --        | 14           | 3.2            | 136         | --            | 117                             | 134                        | 74            | 1.4          | 1.5                        | --        | 459              | 48                                  | 748                                      | 8.2   | 86             | --                            | --                              |    |
| 452          | Qtal 8                     | 204                                    | g July 11, 1958    | 36                         | --        | 66           | 39             | 163         | --            | 182                             | 221                        | 210           | 1.8          | 0                          | --        | 852              | 325                                 | 1,360                                    | 7.9   | 62             | --                            | --                              |    |
| 501          | Qtal 8                     | 218-279                                | g Aug. 31, 1953    | 11                         | .18       | 60           | 30             | 236         | 12            | 216                             | 269                        | 232           | 2.6          | 1.0                        | .20       | 983              | 273                                 | 1,590                                    | 7.8   | 64             | --                            | --                              |    |
| 505          | Qtal 8                     | 224                                    | g Feb. 20, 1958    | --                         | .02       | 78           | 18             | --          | --            | --                              | 130                        | 293           | 1.5          | --                         | --        | 888              | 272                                 | --                                       | 8.1   | --             | --                            | --                              |    |
|              |                            | 224                                    | g May 18, 1974     | 33                         | --        | 57           | 40             | 157         | --            | 176                             | 276                        | 164           | 2.1          | .2                         | --        | 820              | 308                                 | 1,250                                    | 7.6   | --             | --                            | --                              |    |
| 702          | Qal Rg                     | 140                                    | g Mar. 26, 1952    | 52                         | --        | 21           | 13             | 447         | --            | 448                             | 335                        | 232           | --           | .2                         | .9        | 1,320            | 106                                 | 2,080                                    | 7.8   | 90             | --                            | --                              |    |
|              |                            | 140                                    | g May 29, 1969     | --                         | --        | 62           | 24             | --          | --            | 366                             | 386                        | 226           | --           | --                         | --        | --               | 253                                 | 1,950                                    | 7.9   | --             | --                            | 0.94                            |    |
| 704          | Qal Rg                     | 50                                     | g May 8, 1968      | --                         | --        | 121          | 23             | --          | --            | 244                             | 336                        | 163           | --           | --                         | --        | --               | 396                                 | 1,500                                    | 7.5   | --             | --                            | 0                               |    |
|              |                            | 50                                     | g Dec. 18, 1969    | --                         | --        | 84           | 17             | --          | --            | 252                             | 266                        | 108           | --           | --                         | --        | --               | 280                                 | 1,220                                    | 7.8   | --             | --                            | 0                               |    |
| 707          | Qal Rg                     | 178                                    | g Feb. 28, 1969    | --                         | --        | 167          | 38             | --          | --            | 458                             | 597                        | 194           | --           | --                         | --        | --               | 573                                 | 2,250                                    | 7.7   | --             | --                            | 0                               |    |
| 711          | Qal Rg                     | 141                                    | g Mar. 30, 1951    | 44                         | --        | 56           | 9.2            | 328         | --            | 325                             | 345                        | 190           | --           | 0                          | .26       | 1,130            | 178                                 | 1,730                                    | 8.1   | 80             | --                            | --                              |    |
|              |                            | 141                                    | g Feb. 28, 1969    | --                         | --        | 120          | 17             | --          | --            | 296                             | 375                        | 180           | --           | --                         | --        | --               | 370                                 | 1,680                                    | 7.7   | --             | --                            | 0                               |    |
| 714          | Qal Rg                     | 167                                    | g Jan. 11, 1952    | 27                         | .10       | 102          | 25             | 235         | --            | 124                             | 256                        | 351           | 2.0          | .2                         | --        | 1,060            | 358                                 | 1,810                                    | 7.8   | 59             | --                            | --                              |    |
|              |                            | 167                                    | g June 26, 1956    | --                         | --        | --           | --             | --          | --            | 94                              | --                         | 492           | --           | --                         | --        | --               | 454                                 | 2,460                                    | 7.8   | --             | --                            | --                              |    |
| 716          | Qal Rg<br>Qtal 6           | 110-130                                | g Aug. 14, 1952    | 26                         | 0         | 56           | 37             | 220         | 14            | 177                             | 325                        | 208           | 1.8          | 3.0                        | .26       | 1,000            | 292                                 | 1,590                                    | 7.8   | 61             | --                            | --                              |    |
|              |                            | 205-215                                | g Aug. 9, 1953     | 23                         | .05       | 42           | 29             | 1,190       | --            | 416                             | 1,030                      | 980           | 1.8          | 1.0                        | --        | --               | 3,500                               | 212                                      | 5,410 | 8.2            | 92                            | --                              | -- |
|              |                            | 298-328                                | g Aug. 10, 1953    | 49                         | .08       | 31           | 27             | 1,150       | 7.6           | 597                             | 922                        | 880           | 2.6          | 1.5                        | 1.5       | --               | 3,370                               | 188                                      | 5,220 | 8.2            | 93                            | --                              | -- |
|              |                            | 410-440                                | g Aug. 13, 1953    | 32                         | 0         | 98           | 33             | 1,200       | --            | 578                             | 951                        | 970           | 1.3          | 1.5                        | --        | --               | 3,510                               | 230                                      | 5,480 | 8.1            | 92                            | --                              | -- |
|              |                            | 490-520                                | g do               | --                         | --        | --           | --             | --          | --            | --                              | 178                        | --            | 1,570        | --                         | --        | --               | 299                                 | 7,390                                    | 7.6   | --             | --                            | --                              | -- |
| 718          | Qal Rg                     | 150                                    | g Feb. 28, 1969    | --                         | --        | 105          | 18             | --          | --            | 362                             | 430                        | 241           | --           | --                         | --        | --               | 336                                 | 2,080                                    | 7.6   | --             | --                            | 0                               |    |
| 719          | Qal Rg                     | 128                                    | g Mar. 30, 1951    | 42                         | --        | 254          | 103            | 1,920       | --            | 398                             | 1,730                      | 2,230         | .7           | --                         | 1.7       | 6,470            | 1,060                               | 9,470                                    | 7.8   | 80             | --                            | --                              |    |
| 720          | Qal Rg                     | 62                                     | g Aug. 27, 1951    | --                         | --        | --           | --             | --          | --            | --                              | 740                        | 752           | --           | --                         | --        | --               | 610                                 | --                                       | --    | --             | --                            | --                              |    |
| 721          | Qal Rg                     | 80                                     | g do               | --                         | --        | --           | --             | --          | --            | --                              | 388                        | 303           | --           | --                         | --        | --               | 442                                 | --                                       | --    | --             | --                            | --                              |    |
| 723          | Qal Rg<br>Qtal 6           | 10                                     | g 1922             | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,004            | --                                  | --                                       | --    | --             | --                            | --                              |    |
|              |                            | 260                                    | g 1922             | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | 1,800                               | --                                       | --    | --             | --                            | --                              | -- |
|              |                            | 470                                    | g 1922             | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | 3,740                               | --                                       | --    | --             | --                            | --                              | -- |
|              |                            | 1,007                                  | g 1922             | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | 4,542                               | --                                       | --    | --             | --                            | --                              | -- |
| 724          | Qal Rg                     | 124                                    | g Mar. 30, 1951    | 46                         | --        | 93           | 45             | 455         | --            | 487                             | 499                        | 358           | --           | .2                         | .60       | 1,740            | 417                                 | 2,630                                    | 8.0   | 70             | --                            | --                              |    |
| 725          | Qal Rg                     | 150                                    | g June 21, 1957    | --                         | .02       | 62           | 23             | --          | --            | --                              | 300                        | 160           | 1.5          | --                         | --        | 810              | 260                                 | --                                       | 8.0   | --             | --                            | --                              |    |
| 726          | --                         | --                                     | g Oct. 10, 1969    | --                         | --        | 107          | 21             | --          | --            | 234                             | 336                        | 148           | --           | --                         | --        | 354              | 1,450                               | 8.0                                      | --    | --             | --                            | --                              |    |
| 728          | Qal Rg<br>Qtal 8<br>Qal Rg | 163-180                                | g June 6, 1970     | 2.4                        | .06       | 82           | 23             | 199         | --            | --                              | 205                        | 265           | 1.52         | --                         | --        | 866              | 299                                 | --                                       | 8.1   | 65             | --                            | --                              |    |
|              |                            | 258-274                                | g June 9, 1970     | 22                         | .25       | 48           | 17             | 466         | --            | --                              | 438                        | 385           | 1.58         | --                         | --        | 1,452            | 192                                 | --                                       | 8.0   | 87             | --                            | --                              |    |
|              |                            | 370-394                                | g June 11, 1970    | 45                         | .10       | 28           | 21             | 770         | --            | --                              | 809                        | 765           | 1.87         | --                         | --        | 2,847            | 156                                 | --                                       | 8.5   | 95             | --                            | --                              |    |
|              |                            | 105-170                                | g Oct. 23, 1970    | 9                          | .11       | 75           | 31             | 200         | --            | --                              | 194                        | 280           | 1.82         | --                         | --        | 874              | 316                                 | --                                       | 8.0   | 65             | --                            | --                              |    |
| 05-201       | Qtal 6                     | 631                                    | g Feb. 5, 1976     | 28                         | --        | 28           | 9              | 121         | --            | 183                             | 60                         | 85            | --           | --                         | --        | 514              | 102                                 | 675                                      | 7.6   | --             | --                            | --                              |    |
| 202          | Qtal 6                     | 625                                    | g Jan. 20, 1976    | 28                         | --        | 32           | 10             | 109         | --            | 153                             | 60                         | 100           | --           | --                         | --        | 492              | 120                                 | 775                                      | 7.3   | --             | --                            | --                              |    |
| 204          | Qtal 6                     | 515                                    | g Aug. 1962        | --                         | .02       | 30           | 8              | --          | --            | --                              | 49                         | 110           | 1.00         | --                         | --        | 412              | 110                                 | --                                       | 7.7   | --             | --                            | --                              |    |
|              |                            | 515                                    | g June 1964        | --                         | .02       | 31           | 6              | --          | --            | --                              | 61                         | 120           | .90          | --                         | --        | 338              | 102                                 | --                                       | 7.9   | --             | --                            | --                              |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer        | Depth of well or sampled interval (ft.) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|----------------|---|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-05-204 | Qtal 6         | 515                                     | by Sept. 1967      | --                         | 0.03      | 30           | 7              | --          | --            | --                              | 89                         | 125           | 0.80         | --                         | --        | 463              | 104                                 | --                                       | 8.2 | --             | --                            | --                              |    |    |
|              |                | 515                                     | by Jan. 16, 1969   | --                         | .10       | 26           | 7              | 117         | --            | --                              | 56                         | 135           | .60          | --                         | --        | 463              | 92                                  | --                                       | 7.8 | --             | --                            | --                              |    |    |
|              |                | 515                                     | by Aug. 1, 1969    | --                         | .02       | 26           | 8              | 115         | --            | --                              | 58                         | 110           | .88          | --                         | --        | 478              | 94                                  | --                                       | 8.4 | 77             | --                            | --                              | -- |    |
|              |                | 515                                     | by Aug. 6, 1970    | --                         | .04       | 30           | 8              | 125         | --            | --                              | 73                         | 125           | .55          | --                         | --        | 516              | 106                                 | --                                       | 8.1 | 77             | --                            | --                              | -- |    |
|              |                | 515                                     | by June 26, 1971   | --                         | .01       | 31           | 5              | 119         | --            | --                              | 66                         | 113           | .85          | --                         | --        | 412              | 99                                  | --                                       | 8.1 | 77             | --                            | --                              | -- |    |
|              |                | 515                                     | by Apr. 1972       | --                         | .55       | 31           | 7.2            | 113         | --            | --                              | 73                         | 100           | .50          | --                         | --        | 457              | 108                                 | --                                       | 7.5 | 75             | --                            | --                              | -- |    |
| 205          | Qtal 6         | 397                                     | by Apr. 28, 1940   | 28                         | --        | 33           | 8.5            | 109         | --            | 188                             | 82                         | 81            | --           | --                         | --        | 413              | 118                                 | --                                       | --  | --             | --                            | --                              | -- |    |
|              |                | 350                                     | by Apr. 29, 1940   | 25                         | --        | 36           | 11             | 106         | --            | 171                             | 100                        | 85            | --           | --                         | --        | 450              | 133                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 452-517                                 | by Apr. 30, 1940   | 30                         | --        | 33           | 9              | 100         | --            | 181                             | 78                         | 76            | --           | --                         | --        | 395              | 120                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 585-595                                 | by May 3, 1940     | 25                         | --        | 22           | 4.3            | 5           | 7             | 121                             | 56                         | 45            | --           | --                         | --        | 323              | 72                                  | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 729                                     | by May 5, 1940     | 29                         | --        | 98           | 13             | 213         | --            | 54                              | 23                         | 474           | --           | --                         | --        | 1,100            | 299                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 790                                     | by May 17, 1940    | 31                         | --        | 127          | 17             | 279         | --            | 51                              | 24                         | 658           | --           | --                         | 1,370     | 389              | --                                  | --                                       | --  | --             | --                            | --                              | -- | -- |
| 206          | Qtal 6         | 607-669                                 | by June 25, 1953   | 2.6                        | .03       | 24           | 6.6            | 174         | 9.2           | 156                             | 76                         | 190           | 1.0          | 1.0                        | 0.13      | 575              | 87                                  | 1,040                                    | 7.4 | 79             | --                            | --                              | -- |    |
|              |                | 793-839                                 | by July 19, 1953   | 17                         | .02       | 102          | 21             | 484         | --            | 131                             | 144                        | 802           | 1.3          | .5                         | .01       | 1,640            | 341                                 | 3,040                                    | 7.4 | 76             | --                            | --                              | -- |    |
|              |                | 938-969                                 | by July 20, 1953   | 14                         | .06       | 62           | 14             | 501         | 13            | 151                             | 195                        | 708           | .9           | .0                         | .29       | 1,580            | 212                                 | 2,870                                    | 7.4 | 83             | --                            | --                              | -- |    |
|              |                | 1,149-1,200                             | by July 22, 1953   | --                         | --        | --           | --             | --          | --            | --                              | 46                         | --            | 9,000        | --                         | --        | --               | 3,860                               | 25,200                                   | 7.0 | --             | --                            | --                              | -- | -- |
| 208          | Qtal 6         | 825                                     | by Nov. 1, 1974    | 31                         | --        | 26           | 24             | 189         | --            | 185                             | 100                        | 164           | --           | --                         | --        | 717              | 164                                 | 950                                      | 7.8 | --             | --                            | --                              | -- |    |
| 212          | Qtal 6         | 615-635                                 | by Nov. 22, 1974   | --                         | .08       | 21           | 5              | 103         | --            | --                              | 75                         | 75            | .2           | --                         | --        | 430              | 72                                  | 620                                      | 8.4 | 80             | --                            | --                              | -- |    |
|              |                | 776-796                                 | by do              | --                         | .11       | 66           | 9              | 199         | --            | --                              | 74                         | 370           | .28          | --                         | --        | 850              | 202                                 | 1,340                                    | 8.0 | 73             | --                            | --                              | -- |    |
|              |                | 988-1,008                               | by do              | --                         | .10       | 121          | 18             | 537         | --            | --                              | 109                        | 970           | .68          | --                         | --        | 1,995            | 380                                 | 3,000                                    | 7.6 | 79             | --                            | --                              | -- |    |
|              |                | 839                                     | by Dec. 20, 1974   | --                         | .2        | --           | --             | --          | --            | --                              | 63                         | 255           | --           | --                         | --        | 140              | 765                                 | --                                       | --  | --             | --                            | --                              | -- |    |
|              |                | 839                                     | by Dec. 31, 1975   | 30                         | --        | 40           | 10             | 109         | --            | 124                             | 50                         | 162           | --           | --                         | 926       | 144              | 750                                 | 7.7                                      | --  | --             | --                            | --                              | -- |    |
| 213          | Qtal 6         | 875                                     | by Feb. 6, 1975    | --                         | .07       | --           | --             | --          | --            | --                              | 50                         | 400           | --           | --                         | --        | 206              | --                                  | --                                       | --  | --             | --                            | --                              | -- |    |
|              |                | 875                                     | by Jan. 15, 1976   | 33                         | --        | 56           | 9              | 205         | --            | --                              | 83                         | 60            | 350          | --                         | --        | 797              | 176                                 | 1,225                                    | 7.2 | --             | --                            | --                              | -- |    |
| 301          | Qtal 6         | 515-541                                 | by Apr. 9, 1958    | --                         | .02       | 25           | 7              | --          | --            | --                              | 58                         | 70            | .8           | --                         | --        | 362              | 90                                  | --                                       | 8.4 | --             | --                            | --                              | -- |    |
|              |                | 636-662                                 | by do              | --                         | .02       | 40           | 5              | --          | --            | --                              | 58                         | 110           | .5           | --                         | --        | 444              | 122                                 | --                                       | 8.4 | --             | --                            | --                              | -- |    |
|              |                | 756-782                                 | by do              | --                         | .02       | 56           | 11             | --          | --            | --                              | 38                         | 330           | .6           | --                         | --        | 740              | 184                                 | --                                       | 8.3 | --             | --                            | --                              | -- |    |
|              |                | 875-901                                 | by do              | --                         | .02       | 61           | 10             | --          | --            | --                              | 33                         | 328           | .3           | --                         | --        | 759              | 196                                 | --                                       | 8.3 | --             | --                            | --                              | -- |    |
|              |                | 671                                     | by Apr. 17, 1962   | --                         | .03       | 31           | 7              | --          | --            | --                              | 51                         | 95            | 1.1          | --                         | --        | 389              | 108                                 | --                                       | 8.3 | --             | --                            | --                              | -- |    |
|              |                | 671                                     | by Aug. 21, 1963   | --                         | .04       | 31           | 8              | --          | --            | --                              | 55                         | 102           | .55          | --                         | --        | 386              | 110                                 | --                                       | 8.7 | --             | --                            | --                              | -- |    |
|              |                | 671                                     | by June 14, 1964   | --                         | .04       | 30           | 9              | --          | --            | --                              | 49                         | 105           | .70          | --                         | --        | 383              | 112                                 | --                                       | 8.6 | --             | --                            | --                              | -- |    |
|              |                | 671                                     | by May 24, 1965    | --                         | .03       | 31           | 4              | --          | --            | --                              | 59                         | 110           | .60          | --                         | --        | 379              | 94                                  | --                                       | 8.6 | --             | --                            | --                              | -- |    |
|              |                | 671                                     | by Oct. 10, 1965   | --                         | .04       | 33           | 7              | --          | --            | --                              | 58                         | 90            | .60          | --                         | --        | 405              | 110                                 | --                                       | 8.6 | --             | --                            | --                              | -- |    |
|              |                | 671                                     | by Sept. 8, 1967   | --                         | .04       | 33           | 8              | --          | --            | --                              | 57                         | 80            | .50          | --                         | --        | 422              | 115                                 | --                                       | 8.2 | --             | --                            | --                              | -- |    |
|              |                | 671                                     | by Jan. 16, 1969   | --                         | .05       | 30           | 7              | 80          | --            | --                              | 56                         | 75            | .35          | --                         | --        | 386              | 102                                 | --                                       | 7.7 | --             | --                            | --                              | -- |    |
|              |                | 671                                     | by Aug. 1, 1969    | --                         | .04       | 30           | 6              | 87          | --            | --                              | 54                         | 75            | .50          | --                         | --        | 406              | 100                                 | --                                       | 8.4 | 71             | --                            | --                              | -- |    |
|              |                | 671                                     | by Aug. 6, 1970    | --                         | .01       | 34           | 6              | 98          | --            | --                              | 60                         | 95            | .09          | --                         | --        | 446              | 110                                 | --                                       | 7.5 | 71             | --                            | --                              | -- |    |
|              |                | 671                                     | by June 26, 1971   | --                         | .02       | 34           | 5              | 81          | --            | --                              | 55                         | 73            | .45          | --                         | --        | 322              | 107                                 | --                                       | 7.5 | 68             | --                            | --                              | -- |    |
|              |                | 671                                     | by Apr. 10, 1972   | --                         | .01       | 36           | 6.3            | 80          | --            | --                              | 63                         | 70            | .13          | --                         | --        | 375              | 116                                 | --                                       | 7.8 | --             | --                            | --                              | -- |    |
| 671          | by May 9, 1973 | --                                      | .01                | 33                         | 7         | 95           | --             | --          | 61            | 93                              | .35                        | --            | --           | 400                        | 110       | --               | 7.9                                 | 70                                       | --  | --             | --                            |                                 |    |    |
| 304          | Qtal 6         | 503-746                                 | by Aug. 5, 1966    | 30                         | .00       | 68           | 16             | 274         | 7.8           | 77                              | 29                         | 532           | .7           | 4.5                        | .06       | 1,000            | 238                                 | 1,940                                    | 7.2 | 71             | 7.7                           | 0                               |    |    |
| 305          | Qtal 6         | 374-499                                 | by Aug. 1, 1966    | 31                         | --        | 30           | 5.6            | 76          | 4.7           | 129                             | 41                         | 82            | .7           | 4.8                        | .08       | 340              | 99                                  | 570                                      | 7.2 | 61             | 3.3                           | .13                             |    |    |
|              |                | 834                                     | by Nov. 1, 1974    | 30                         | --        | 24           | 14             | 98          | --            | 136                             | 50                         | 84            | --           | --                         | --        | 436              | 116                                 | 580                                      | 8.0 | --             | --                            | --                              |    |    |
| 306          | Qtal 6         | 489-514                                 | by July 5, 1965    | --                         | .08       | 25           | 3              | --          | --            | --                              | 368                        | 120           | .3           | --                         | --        | 315              | 75                                  | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 580-605                                 | by do              | --                         | .1        | 44           | 6              | --          | --            | --                              | 370                        | 145           | .3           | --                         | --        | 542              | 135                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 671-696                                 | by do              | --                         | .1        | 117          | 5              | --          | --            | --                              | 570                        | 575           | .4           | --                         | --        | 1,459            | 312                                 | --                                       | --  | --             | --                            | --                              |    |    |
| 309          | Qtal 6         | 490-515                                 | by Oct. 5, 1965    | 34                         | --        | 24           | 2.2            | 63          | --            | 110                             | 41                         | 46            | .8           | 6.4                        | --        | 271              | 69                                  | 427                                      | --  | 66             | 3.3                           | .42                             |    |    |
|              |                | 595-620                                 | by Oct. 6, 1965    | 33                         | --        | 32           | .33            | 110         | --            | 98                              | 40                         | 146           | .7           | 3.5                        | --        | 416              | 94                                  | 722                                      | --  | 72             | 4.9                           | 0                               |    |    |
|              |                | 691-716                                 | by do              | 34                         | --        | 45           | 57             | 126         | --            | 73                              | 35                         | 218           | .6           | 4.5                        | --        | 505              | 136                                 | 906                                      | --  | 67             | 4.7                           | 0                               |    |    |
| 501          | Qtal 6         | 840                                     | by Nov. 20, 1957   | --                         | .02       | 47           | 12             | --          | --            | --                              | 102                        | 80            | 1.5          | --                         | --        | 434              | 168                                 | --                                       | 8.1 | --             | --                            | --                              |    |    |
|              |                | 840                                     | by June 4, 1958    | --                         | .02       | 34           | 13             | --          | --            | --                              | 64                         | 82            | 1.6          | --                         | --        | 460              | 138                                 | --                                       | 8.8 | --             | --                            | --                              |    |    |
|              |                | 840                                     | by Aug. 5, 1960    | --                         | .02       | 31           | 15             | --          | --            | --                              | 67                         | 86            | 1.0          | --                         | --        | 463              | 140                                 | --                                       | 9.0 | --             | --                            | --                              |    |    |
|              |                | 840                                     | by Apr. 16, 1961   | --                         | .02       | 48           | 11             | --          | --            | --                              | 72                         | 88            | 1.1          | --                         | --        | 449              | 165                                 | --                                       | 8.5 | --             | --                            | --                              |    |    |
|              |                | 840                                     | by Aug. 10, 1961   | --                         | .02       | 34           | 15             | --          | --            | --                              | 56                         | 95            | 1.0          | --                         | --        | 471              | 144                                 | --                                       | 8.3 | --             | --                            | --                              |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft.) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Bis-solved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|---------------|---|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|-------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-05-501 | Qtal 6        | 840                                     | Aug. 22, 1962      | --                         | 0.02          | 34           | 13             | --          | --            | --                              | 67                         | 115           | 0.9          | --                         | --        | 483               | 140                                 | --                                       | 7.7 | --             | --                            | --                              |    |    |
|              |               | 840                                     | Feb. 1, 1963       | --                         | .013          | 33           | 11             | --          | --            | --                              | 62                         | 100           | .7           | --                         | --        | 464               | 144                                 | --                                       | 7.9 | --             | --                            | --                              |    |    |
|              |               | 840                                     | June 14, 1964      | --                         | .03           | 34           | 14             | --          | --            | --                              | 82                         | 110           | .7           | --                         | --        | 469               | 144                                 | --                                       | 7.8 | --             | --                            | --                              |    |    |
|              |               | 840                                     | Sept. 8, 1967      | --                         | .02           | 41           | 14             | --          | --            | --                              | 79                         | 95            | .6           | --                         | --        | 421               | 160                                 | --                                       | 7.8 | --             | --                            | --                              |    |    |
|              |               | 840                                     | Jan. 16, 1969      | --                         | .09           | 39           | 12             | --          | --            | --                              | 84                         | 145           | 1.30         | --                         | --        | 624               | 148                                 | --                                       | 7.6 | --             | --                            | --                              |    |    |
|              |               | 840                                     | July 24, 1969      | --                         | .005          | 30           | 13             | 121         | --            | --                              | 79                         | 90            | 1.30         | --                         | --        | 555               | 130                                 | --                                       | 8.4 | 74             | --                            | --                              |    |    |
|              |               | 840                                     | July 22, 1970      | --                         | --            | 38           | 13             | 125         | --            | --                              | 65                         | 125           | 1.28         | --                         | --        | 473               | 148                                 | --                                       | 7.8 | 71             | --                            | --                              |    |    |
|              |               | 840                                     | Aug. 5, 1971       | --                         | .016          | 34           | 13             | 96          | --            | --                              | 62                         | 75            | 1.51         | --                         | --        | 386               | 139                                 | --                                       | 7.8 | 67             | --                            | --                              |    |    |
|              |               | 840                                     | May 24, 1972       | --                         | .03           | 26           | 17             | 117         | --            | --                              | 67                         | 98            | 1.35         | --                         | --        | 460               | 138                                 | --                                       | 7.8 | 73             | --                            | --                              |    |    |
|              |               | 840                                     | Apr. 23, 1973      | --                         | .025          | 30           | 16             | 94          | --            | --                              | 62                         | 74            | 1.27         | --                         | --        | 501               | 139                                 | --                                       | 8.0 | 67             | --                            | --                              |    |    |
| 502          | Qtal 6        | 554-577                                 | Apr. 7, 1940       | 34                         | --            | 90           | 15             | 268         | --            | 104                             | 85                         | 488           | --           | --                         | --        | 1,190             | 285                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |               | 342-524                                 | Apr. 20, 1940      | 30                         | --            | 47           | 10             | 179         | --            | 119                             | 74                         | 259           | --           | --                         | --        | 697               | 159                                 | --                                       | --  | --             | --                            | --                              |    |    |
| 503          | Qtal 6        | 570                                     | Dec. 10, 1963      | --                         | .002          | 42           | 7.7            | --          | --            | --                              | 90                         | 150           | .009         | --                         | --        | 456               | 138                                 | --                                       | 6.9 | --             | --                            | --                              |    |    |
|              |               | 570                                     | Sept. 8, 1967      | --                         | .003          | 41           | 9              | --          | --            | --                              | 93                         | 155           | .01          | --                         | --        | 461               | 140                                 | --                                       | 7.6 | --             | --                            | --                              |    |    |
|              |               | 570                                     | Jan. 22, 1969      | --                         | --            | 38           | 11             | 155         | --            | --                              | 90                         | 160           | 1.30         | --                         | --        | 646               | 140                                 | --                                       | 8.2 | --             | --                            | --                              |    |    |
|              |               | 570                                     | Aug. 1, 1969       | --                         | .02           | 30           | 12             | 144         | --            | --                              | 73                         | 145           | 1.22         | --                         | --        | 594               | 124                                 | --                                       | 8.2 | 67             | --                            | --                              |    |    |
|              |               | 570                                     | Sept. 3, 1970      | --                         | .05           | 37           | 9              | --          | --            | --                              | 74                         | 150           | 1.04         | --                         | --        | 506               | 131                                 | --                                       | 7.5 | 76             | --                            | --                              |    |    |
|              |               | 570                                     | July 13, 1971      | --                         | .05           | 35           | 10             | 143         | --            | --                              | 82                         | 144           | 1.27         | --                         | --        | 506               | 131                                 | --                                       | 7.9 | 76             | --                            | --                              |    |    |
|              |               | 570                                     | July 27, 1972      | --                         | .03           | 36           | 13             | 141         | --            | --                              | 88                         | 142           | 1.33         | --                         | --        | 576               | 142                                 | --                                       | 7.8 | 74             | --                            | --                              |    |    |
| 505          | Qtal 6        | 1,150                                   | July 1963          | --                         | 0             | 47           | 17             | --          | --            | --                              | 114                        | 45            | .025         | --                         | --        | 368               | 188                                 | --                                       | 8.1 | --             | --                            | --                              |    |    |
| 506          | Qtal 6        | 712-737                                 | Aug. 1963          | --                         | .004          | 292          | 39             | --          | --            | --                              | 194                        | 1,855         | .05          | --                         | --        | 4,321             | 892                                 | --                                       | 8.4 | --             | --                            | --                              |    |    |
| 507          | Qtal 6        | 597-640                                 | May 13, 1953       | 20                         | .00           | 22           | 11             | 100         | 3.7           | 214                             | 85                         | 34            | 1.8          | 4.0                        | 0.06      | 390               | 100                                 | 639                                      | 8.1 | 68             | --                            | --                              |    |    |
|              |               | 660-700                                 | do                 | 30                         | .00           | 30           | 17             | 75          | 3.6           | 246                             | 61                         | 28            | 2.0          | 2.5                        | .06       | 370               | 145                                 | 587                                      | 8.1 | 52             | --                            | --                              |    |    |
|              |               | 793-833                                 | May 14, 1953       | 34                         | .01           | 30           | 16             | 65          | 5.1           | 234                             | 54                         | 24            | 1.2          | 4.5                        | .09       | 349               | 141                                 | 557                                      | 8.0 | 49             | --                            | --                              |    |    |
|              |               | 877-917                                 | May 16, 1953       | 31                         | .00           | 29           | 14             | 63          | 4.6           | 215                             | 50                         | 26            | .8           | 3.5                        | .03       | 328               | 130                                 | 527                                      | 8.0 | 50             | --                            | --                              |    |    |
|              |               | 977-1,017                               | May 18, 1953       | 33                         | .00           | 30           | 15             | 73          | 5.2           | 227                             | 63                         | 29            | 1.2          | 3.0                        | .05       | 364               | 136                                 | 581                                      | 8.1 | 53             | --                            | --                              |    |    |
|              |               | 1,092-1,132                             | May 19, 1953       | 15                         | .01           | 19           | 5.7            | 142         | 5.6           | 203                             | 139                        | 52            | 1.1          | 4.5                        | .00       | 496               | 71                                  | 790                                      | 7.5 | 80             | --                            | --                              |    |    |
|              |               | 1,152-1,200                             | May 23, 1953       | 26                         | .04           | 22           | 7.1            | 160         | --            | 232                             | 102                        | 92            | .9           | 4.2                        | --        | 532               | 86                                  | 868                                      | 7.8 | 81             | --                            | --                              |    |    |
|              |               | 630                                     | June 10, 1953      | 33                         | .01           | 37           | 22             | 34          | 3.4           | 247                             | 54                         | 25            | 1.2          | 4.5                        | .08       | 355               | 183                                 | 590                                      | 8.0 | 39             | --                            | --                              |    |    |
| 508          | Qtal 6        | 447                                     | June 13, 1940      | 30                         | --            | 37           | 9.6            | 139         | --            | 185                             | 90                         | 134           | --           | --                         | --        | 537               | 132                                 | --                                       | --  | --             | --                            |                                 |    |    |
|              |               | 491                                     | June 14, 1940      | 25                         | --            | 40           | 9.6            | 162         | --            | 163                             | 83                         | 191           | --           | --                         | --        | 608               | 139                                 | --                                       | --  | --             | --                            |                                 |    |    |
|              |               | 507                                     | June 18, 1940      | 27                         | --            | 53           | 18             | 168         | --            | 139                             | 77                         | 269           | --           | --                         | --        | 722               | 206                                 | --                                       | --  | --             | --                            |                                 |    |    |
|              |               | 535-555                                 | June 19, 1940      | --                         | --            | 70           | 14             | 207         | --            | 95                              | 62                         | 450           | --           | --                         | --        | 1,040             | 231                                 | --                                       | --  | --             | --                            |                                 |    |    |
|              |               | 579-611                                 | June 21, 1940      | --                         | --            | 121          | 21             | 455         | --            | 94                              | 96                         | 830           | --           | --                         | --        | 1,830             | 389                                 | --                                       | --  | --             | --                            |                                 |    |    |
|              |               | 648                                     | June 24, 1940      | --                         | --            | 200          | 30             | 644         | --            | 91                              | 110                        | 1,300         | --           | --                         | --        | 2,700             | 623                                 | --                                       | --  | --             | --                            |                                 |    |    |
|              |               | 697                                     | do                 | --                         | --            | 475          | 65             | 1,890       | --            | 68                              | 304                        | 3,600         | --           | --                         | 7,300     | 1,460             | --                                  | --                                       | --  | --             |                               |                                 |    |    |
| 601          | Qtal 6        | 662-700                                 | May 13, 1958       | --                         | .003          | 26           | 6              | --          | --            | --                              | 64                         | 80            | .4           | --                         | --        | 400               | 90                                  | --                                       | 8.4 | --             | --                            | --                              |    |    |
|              |               | 750-800                                 | May 15, 1958       | --                         | .002          | 38           | 9              | --          | --            | --                              | 40                         | 267           | .4           | --                         | --        | 699               | 130                                 | --                                       | 8.0 | --             | --                            | --                              |    |    |
|              |               | 690                                     | July 22, 1958      | --                         | .02           | 32           | 15             | --          | --            | --                              | 68                         | 72            | .7           | --                         | --        | 440               | 110                                 | --                                       | 8.4 | --             | --                            | --                              |    |    |
|              |               | 690                                     | Aug. 17, 1960      | --                         | .02           | 30           | 9              | --          | --            | --                              | 79                         | 80            | .9           | --                         | --        | 412               | 114                                 | --                                       | 8.8 | --             | --                            | --                              |    |    |
|              |               | 690                                     | July 23, 1962      | --                         | .02           | 33           | 20             | --          | --            | --                              | 76                         | 135           | .7           | --                         | --        | 445               | 120                                 | --                                       | 8.9 | --             | --                            | --                              |    |    |
|              |               | 690                                     | Aug. 22, 1962      | --                         | .02           | 13           | 10             | --          | --            | --                              | 82                         | 95            | 1.0          | --                         | --        | 472               | 122                                 | --                                       | 7.9 | --             | --                            | --                              |    |    |
|              |               | 690                                     | May 24, 1965       | --                         | .02           | 31           | 8              | --          | --            | --                              | 76                         | 95            | .9           | --                         | --        | 442               | 110                                 | --                                       | 8.0 | --             | --                            | --                              |    |    |
|              |               | 690                                     | Jan. 16, 1969      | --                         | .08           | 23           | 12             | 85          | --            | --                              | 61                         | 70            | .5           | --                         | --        | 408               | 108                                 | --                                       | 7.8 | --             | --                            | --                              |    |    |
|              |               | 690                                     | Aug. 1, 1969       | --                         | .03           | 30           | 8              | 102         | --            | --                              | 81                         | 75            | .7           | --                         | --        | 467               | 107                                 | --                                       | 8.4 | 73             | --                            | --                              |    |    |
|              |               | 690                                     | July 18, 1970      | --                         | .12           | 33           | 12             | 112         | --            | --                              | 63                         | 120           | .7           | --                         | --        | 425               | 120                                 | --                                       | 7.8 | 71             | --                            | --                              |    |    |
|              |               | 690                                     | June 29, 1971      | --                         | .01           | 33           | 7              | 94          | --            | --                              | 67                         | 75            | .58          | --                         | --        | 359               | 110                                 | --                                       | 7.8 | 70             | --                            | --                              |    |    |
|              |               | 690                                     | Apr. 10, 1972      | --                         | .01           | 34           | 6.7            | 133         | --            | --                              | 90                         | 65            | .7           | --                         | --        | 398               | 112                                 | --                                       | 7.4 | 76             | --                            | --                              |    |    |
|              |               |   |                    | 690                        | Apr. 18, 1973 | --           | .01            | 32          | 8.2           | 99                              | --                         | --            | 69           | 79                         | .25       | --                | --                                  | 422                                      | 114 | --             | 8.0                           | 71                              | -- | -- |
|              |               | 602                                     | Qtal 6             | 529-558                    | Feb. 19, 1958 | --           | .12            | 9           | 0             | --                              | --                         | --            | 120          | 94                         | 1.2       | --                | --                                  | 783                                      | 22  | --             | 8.6                           | --                              | -- | -- |
| 635-668      | Feb. 20, 1958 |   |                    | --                         | .08           | 7            | 6              | --          | --            | --                              | 28                         | 156           | .7           | --                         | --        | 414               | 92                                  | --                                       | 8.6 | --             | --                            | --                              |    |    |
| 753-786      | Feb. 21, 1958 |   |                    | --                         | .08           | 30           | 9              | --          | --            | --                              | 19                         | 187           | .7           | --                         | --        | 454               | 110                                 | --                                       | 8.3 | --             | --                            | --                              |    |    |
| 699          | May 8, 1958   |   |                    | --                         | .02           | 22           | 3              | --          | --            | --                              | 40                         | 69            | .6           | --                         | --        | 293               | 68                                  | --                                       | 8.2 | --             | --                            | --                              |    |    |
| 699          | Apr. 14, 1964 |   |                    | --                         | .01           | 21           | 4              | --          | --            | --                              | 103                        | 56            | .5           | --                         | --        | 267               | 69                                  | --                                       | 8.1 | --             | --                            | --                              |    |    |
| 699          | May 24, 1965  |   |                    | --                         | .03           | 24           | 3              | --          | --            | --                              | 156                        | 62            | .80          | --                         | --        | 339               | 72                                  | --                                       | 8.2 | --             | --                            | --                              |    |    |
| 699          | Apr. 18, 1966 |   |                    | --                         | .03           | 42           | 10             | --          | --            | --                              | 80                         | 97            | .6           | --                         | --        | 390               | 144                                 | --                                       | 8.0 | --             | --                            | --                              |    |    |
| 699          | Aug. 10, 1967 |   |                    | --                         | .014          | 36           | 8              | --          | --            | --                              | 90                         | 128           | .6           | --                         | --        | 504               | 172                                 | --                                       | 8.0 | --             | --                            | --                              |    |    |

See footnotes at end of table.



Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer          | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhmohms at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |     |
|--------------|------------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|-----|
| JL-49-05-602 | Qtal 6           | 699                                    | by Jan. 16, 1969   | --                         | 0.12      | 96           | 29             | 105         | --            | 101                             | 142                        | 240           | 0.36         | --                         | --        | 735              | 360                                 | --   | 7.6 | --             | --                            | --                              |     |
|              |                  | 699                                    | by Aug. 1, 1969    | --                         | .03       | 90           | 22             | 108         | --            | 100                             | 121                        | 230           | .38          | --                         | --        | 693              | 314                                 | --   | 8.2 | --             | --                            | --                              |     |
|              |                  | 699                                    | by Aug. 6, 1970    | --                         | .015      | 82           | 13             | 112         | --            | --                              | 108                        | 205           | .15          | --                         | --        | 642              | 258                                 | --   | 7.6 | 54             | --                            | --                              |     |
|              |                  | 699                                    | by Aug. 10, 1971   | --                         | .010      | 121          | 13             | 120         | --            | --                              | 161                        | 241           | .54          | --                         | --        | 721              | 338                                 | --   | 7.6 | 47             | --                            | --                              |     |
|              |                  | 699                                    | by Apr. 10, 1972   | --                         | .015      | 99           | 11             | 108         | --            | --                              | 123                        | 210           | .12          | --                         | --        | 802              | 294                                 | --   | 7.7 | 50             | --                            | --                              |     |
|              |                  | 699                                    | by May 9, 1973     | --                         | .01       | 126          | 17             | 152         | --            | --                              | 200                        | 281           | .20          | --                         | --        | 1,080            | 386                                 | --   | 8.3 | 52             | --                            | --                              |     |
|              |                  | 410                                    | by Feb. 26, 1974   | --                         | --        | 180          | 39             | 280         | --            | 238                             | 280                        | 510           | --           | 6.7                        | --        | 1,440            | 610                                 | 2,490                                      | 7.4 | --             | --                            | 0                               |     |
|              |                  | 460                                    | by do              | --                         | --        | 190          | 41             | 270         | --            | 236                             | 260                        | 530           | --           | 6.7                        | --        | 1,440            | 640                                 | 2,510                                      | 7.7 | --             | --                            | 0                               |     |
|              |                  | 570                                    | by do              | --                         | --        | 160          | 33             | 220         | --            | 168                             | 290                        | 600           | --           | 5.5                        | --        | 1,210            | 530                                 | 2,080                                      | 7.5 | --             | --                            | 0                               |     |
|              |                  | 600                                    | by do              | --                         | --        | 150          | 32             | 240         | --            | 166                             | 290                        | 400           | --           | 6.4                        | --        | 1,220            | 520                                 | 2,090                                      | 7.5 | --             | --                            | 0                               |     |
| 603          | Qcal 6           | 657                                    | by Nov. 18, 1957   | --                         | .02       | 42           | 7              | --          | --            | --                              | 80                         | 90            | .9           | --                         | --        | 429              | 134                                 | --   | 8.3 | --             | --                            | --                              |     |
|              |                  | 657                                    | by July 3, 1958    | --                         | .02       | 30           | 16             | --          | --            | --                              | 56                         | 90            | .9           | --                         | --        | 428              | 122                                 | --   | 8.2 | --             | --                            | --                              |     |
|              |                  | 657                                    | by Aug. 11, 1960   | --                         | .02       | 26           | 10             | --          | --            | --                              | 75                         | 93            | .9           | --                         | --        | 448              | 106                                 | --   | 8.7 | --             | --                            | --                              |     |
|              |                  | 657                                    | by Apr. 9, 1962    | --                         | .02       | 30           | 9              | --          | --            | --                              | 77                         | 115           | .8           | --                         | --        | 439              | 118                                 | --   | 7.7 | --             | --                            | --                              |     |
|              |                  | 657                                    | by May 15, 1964    | --                         | .025      | 35           | 7              | --          | --            | --                              | 81                         | 120           | .7           | --                         | --        | 426              | 116                                 | --   | 7.8 | --             | --                            | --                              |     |
|              |                  | 657                                    | by May 24, 1965    | --                         | .02       | 32           | 8              | --          | --            | --                              | 84                         | 110           | .7           | --                         | --        | 438              | 113                                 | --   | 7.9 | --             | --                            | --                              |     |
|              |                  | 657                                    | by Apr. 18, 1966   | --                         | .03       | 39           | 9              | --          | --            | --                              | 88                         | 100           | .6           | --                         | --        | 476              | 134                                 | --   | 7.9 | --             | --                            | --                              |     |
|              |                  | 657                                    | by Feb. 23, 1967   | --                         | --        | 28           | 10             | --          | --            | --                              | 64                         | 95            | .9           | --                         | --        | 438              | 110                                 | --   | --  | --             | --                            | --                              |     |
|              |                  | 657                                    | by Jan. 16, 1969   | --                         | .04       | 32           | 9              | 109         | --            | --                              | 83                         | 90            | .72          | --                         | --        | 494              | 116                                 | --   | 7.8 | --             | --                            | --                              |     |
|              |                  | 657                                    | by July 24, 1969   | --                         | .010      | 30           | 5              | 110         | --            | --                              | 69                         | 85            | .71          | --                         | --        | 472              | 106                                 | --   | 8.4 | 76             | --                            | --                              |     |
|              |                  | 657                                    | by Oct. 21, 1969   | --                         | .02       | 32           | 7              | 97          | --            | --                              | 56                         | 85            | .87          | --                         | --        | 449              | 110                                 | --   | 8.2 | 71             | --                            | --                              |     |
|              |                  | 657                                    | by July 10, 1970   | --                         | --        | 34           | 8              | 101         | --            | --                              | 75                         | 85            | .48          | --                         | --        | 474              | 116                                 | --   | 8.2 | 71             | --                            | --                              |     |
|              |                  | 657                                    | by June 27, 1971   | --                         | .01       | 34           | 7              | 104         | --            | --                              | 75                         | 88            | .68          | --                         | --        | 492              | 113                                 | --   | 8.2 | 72             | --                            | --                              |     |
| 657          | by Apr. 10, 1972 | --                                     | .01                | 32                         | 9         | 95           | --             | --          | 79            | 70                              | .18                        | --            | --           | 470                        | 116       | --               | 8.2                                 | 70   | --  | --             |                               |                                 |     |
| 604          | Qtal 6           | 435-480                                | by Jan. 10, 1958   | --                         | .02       | 42           | 9              | --          | --            | --                              | 64                         | 109           | .6           | --                         | --        | 457              | 140                                 | --   | 8.4 | --             | --                            | --                              |     |
|              |                  | 568-605                                | do                 | --                         | .08       | 42           | 9              | --          | --            | --                              | 66                         | 120           | .5           | --                         | --        | 463              | 142                                 | --   | 8.4 | --             | --                            | --                              |     |
|              |                  | 682-719                                | by Jan. 13, 1958   | --                         | .16       | 35           | 7              | --          | --            | --                              | 51                         | 86            | .9           | --                         | --        | 369              | 116                                 | --   | 8.3 | --             | --                            | --                              |     |
|              |                  | 773-810                                | do                 | --                         | .16       | 42           | 7              | --          | --            | --                              | 33                         | 143           | .9           | --                         | --        | 403              | 134                                 | --   | 8.2 | --             | --                            | --                              |     |
|              |                  | 804                                    | by July 7, 1969    | --                         | --        | 24           | 5.3            | --          | --            | 130                             | 39                         | 66            | --           | --                         | --        | --               | 82                                  | 503  | --  | 7.4            | --                            | --                              | .49 |
|              |                  | 400                                    | do                 | --                         | --        | 140          | 33             | 170         | --            | 118                             | 230                        | 350           | --           | 6.9                        | --        | 1,010            | 480                                 | 1,800                                      | 7.6 | --             | --                            | 0                               |     |
|              |                  | 440                                    | do                 | --                         | --        | 130          | 32             | 170         | --            | 120                             | 220                        | 340           | --           | 6.1                        | --        | 977              | 460                                 | 1,720                                      | 7.4 | --             | --                            | 0                               |     |
| 500          | do               | --                                     | --                 | 130                        | 30        | 160          | --             | 120         | 220           | 320                             | --                         | 5.2           | --           | 929                        | 440       | 1,640            | 7.8                                 | --   | --  | 0              |                               |                                 |     |
| 560          | do               | --                                     | --                 | 120                        | 28        | 150          | --             | 120         | 200           | 300                             | --                         | 5.0           | --           | 879                        | 410       | 1,580            | 7.8                                 | --   | --  | 0              |                               |                                 |     |
| 605          | Qtal 6           | 575-600                                | by July 1960       | --                         | .02       | 28           | 3              | --          | --            | --                              | 45                         | 75            | .4           | --                         | --        | 335              | 66                                  | --   | 8.4 | --             | --                            | --                              |     |
|              |                  | 696-721                                | do                 | --                         | .02       | 30           | 4              | --          | --            | --                              | 50                         | 140           | .6           | --                         | --        | 441              | 92                                  | --   | 7.9 | --             | --                            | --                              |     |
|              |                  | 799-824                                | do                 | --                         | .02       | 35           | 8              | --          | --            | --                              | 57                         | 155           | .6           | --                         | --        | 519              | 120                                 | --   | 8.1 | --             | --                            | --                              |     |
|              |                  | 906-931                                | do                 | --                         | .02       | 106          | 19             | --          | --            | --                              | 70                         | 785           | .9           | --                         | --        | 1,803            | 344                                 | --   | 7.9 | --             | --                            | --                              |     |
|              |                  | 770                                    | by May 1, 1962     | --                         | .02       | 17           | 8              | --          | --            | --                              | 57                         | 100           | .5           | --                         | --        | 303              | 76                                  | --   | 8.3 | --             | --                            | --                              |     |
|              |                  | 770                                    | by July 20, 1964   | --                         | .03       | 15           | 6              | --          | --            | --                              | 48                         | 90            | .5           | --                         | --        | 270              | 67                                  | --   | 8.2 | --             | --                            | --                              |     |
|              |                  | 770                                    | by Apr. 21, 1965   | --                         | .02       | 47           | 4              | --          | --            | --                              | 51                         | 95            | .6           | --                         | --        | 280              | 134                                 | --   | 8.1 | --             | --                            | --                              |     |
|              |                  | 770                                    | by Aug. 10, 1967   | --                         | .013      | 19           | 4              | --          | --            | --                              | 44                         | 65            | .6           | --                         | --        | 296              | 64                                  | --   | 8.4 | --             | --                            | --                              |     |
|              |                  | 770                                    | by Jan. 22, 1969   | --                         | 0         | 21           | 4              | 58          | --            | --                              | 33                         | 50            | .6           | --                         | --        | 275              | 170                                 | --   | 8.3 | --             | --                            | --                              |     |
|              |                  | 770                                    | by Aug. 1, 1969    | --                         | .01       | 14           | 7              | 63          | --            | --                              | 29                         | 60            | .59          | --                         | --        | 279              | 64                                  | --   | 8.7 | 59             | --                            | --                              |     |
|              |                  | 770                                    | by July 10, 1970   | --                         | .05       | 23           | 4              | 68          | --            | --                              | 46                         | 60            | .29          | --                         | --        | 310              | 76                                  | --   | 8.2 | 72             | --                            | --                              |     |
|              |                  | 770                                    | by June 26, 1971   | --                         | .02       | 22           | 4              | 62          | --            | --                              | 20                         | 70            | .59          | --                         | --        | 231              | 71                                  | --   | 8.2 | 70             | --                            | --                              |     |
|              |                  | 770                                    | by July 10, 1972   | --                         | .01       | 22           | 5              | 82          | --            | --                              | 48                         | 83            | .46          | --                         | --        | 302              | 74                                  | --   | 8.2 | 75             | --                            | --                              |     |
| 770          | by July 31, 1972 | --                                     | .01                | 23                         | 8         | 62           | --             | --          | 31            | 75                              | .68                        | --            | --           | 283                        | 90        | --               | 8.0                                 | 67   | --  | --             |                               |                                 |     |
| 770          | by Apr. 18, 1973 | --                                     | .01                | 24                         | 4.8       | 70           | --             | --          | 36            | 74                              | .16                        | --            | --           | 298                        | 80        | --               | 8.2                                 | 71   | --  | --             |                               |                                 |     |
| 606          | Qtal 6           | 500-538                                | by Feb. 18, 1956   | --                         | --        | 26           | 9              | 151         | --            | 187                             | 106                        | 92            | --           | --                         | --        | 497              | 102                                 | --   | --  | --             | --                            | --                              |     |
|              |                  | 659-689                                | by Feb. 20, 1956   | --                         | --        | 29           | 8              | 124         | --            | 134                             | 80                         | 126           | --           | --                         | --        | 468              | 107                                 | --   | --  | --             | --                            | --                              |     |
|              |                  | 840-870                                | by Feb. 21, 1956   | --                         | --        | 28           | 7              | 205         | --            | 126                             | 110                        | 228           | --           | --                         | --        | 663              | 100                                 | --   | --  | --             | --                            | --                              |     |
|              |                  | 826                                    | by Oct. 23, 1957   | --                         | .02       | 38           | 6              | --          | --            | --                              | 76                         | 102           | .9           | --                         | --        | 466              | 120                                 | --   | 7.8 | --             | --                            | --                              |     |
|              |                  | 826                                    | by Feb. 17, 1958   | --                         | .02       | 31           | 10             | --          | --            | --                              | 74                         | 105           | .9           | --                         | --        | 465              | 118                                 | --   | 8.2 | --             | --                            | --                              |     |
|              |                  | 826                                    | by Aug. 11, 1960   | --                         | .02       | 22           | 11             | --          | --            | --                              | 104                        | 110           | 1.1          | --                         | --        | 468              | 100                                 | --   | 8.5 | --             | --                            | --                              |     |
|              |                  | 826                                    | by June 14, 1964   | --                         | .025      | 32           | 11             | --          | --            | --                              | 81                         | 155           | .9           | --                         | --        | 499              | 125                                 | --   | 7.7 | --             | --                            | --                              |     |
|              |                  | 826                                    | by Aug. 10, 1967   | --                         | .023      | 34           | 8              | --          | --            | --                              | 79                         | 130           | .8           | --                         | --        | 486              | 118                                 | --   | 8.0 | --             | --                            | --                              |     |
|              |                  | 826                                    | by July 24, 1969   | --                         | .005      | 32           | 9              | 102         | --            | --                              | 77                         | 75            | .55          | --                         | --        | 480              | 118                                 | --   | 8.4 | 71             | --                            | --                              |     |
|              |                  | 826                                    | by July 10, 1970   | --                         | .10       | 37           | 8              | 108         | --            | --                              | 94                         | 80            | .45          | --                         | --        | 510              | 132                                 | --   | 8.3 | 71             | --                            | --                              |     |
|              |                  | 826                                    | by June 27, 1971   | --                         | .01       | 35           | 8              | 111         | --            | --                              | 67                         | 114           | .79          | --                         | --        | 415              | 120                                 | --   | 8.3 | 72             | --                            | --                              |     |
| 826          | by Apr. 10, 1972 | --                                     | .01                | 34                         | 8         | 102          | --             | --          | 67            | 95                              | .19                        | --            | --           | 460                        | 119       | --               | 8.2                                 | 71   | --  | --             |                               |                                 |     |
| 826          | by Apr. 4, 1973  | --                                     | .01                | 34                         | 9         | 113          | --             | --          | 69            | 113                             | .68                        | --            | --           | 504                        | 120       | --               | 8.1                                 | 72   | --  | --             |                               |                                 |     |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer        | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 75°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|----------------|--|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-05-607 | Qtal 6         | 543-568                                | Oct. 15, 1959      | --                         | --            | 22           | 1.2            | --          | --            | --                              | 89                         | 70            | --           | --                         | --        | 290              | 78                                  | --                                       | 7.7 | --             | --                            | --                              |    |    |
|              |                | 648-673                                | Oct. 16, 1959      | --                         | --            | 26           | 1.5            | --          | --            | --                              | 156                        | 80            | --           | --                         | --        | 417              | 94                                  | --                                       | 7.7 | --             | --                            | --                              |    |    |
|              |                | 724-809                                | Oct. 17, 1959      | --                         | --            | 26           | 1.5            | --          | --            | --                              | 137                        | 75            | --           | --                         | --        | 390              | 96                                  | --                                       | 7.8 | --             | --                            | --                              | -- |    |
|              |                | 784-809                                | do                 | --                         | --            | 22           | 2.4            | --          | --            | --                              | 168                        | 75            | --           | --                         | --        | 363              | 82                                  | --                                       | 7.8 | --             | --                            | --                              | -- |    |
|              |                | 860-885                                | do                 | --                         | --            | 25           | 2.2            | --          | --            | --                              | 116                        | 75            | --           | --                         | --        | 390              | 84                                  | --                                       | 7.6 | --             | --                            | --                              | -- |    |
|              |                | 826                                    | Nov. 18, 1959      | 0.02                       | 28            | 8            | --             | --          | --            | --                              | 48                         | 65            | 0.14         | --                         | --        | 327              | 104                                 | --                                       | 7.6 | --             | --                            | --                              | -- | -- |
|              |                | 826                                    | Apr. 21, 1962      | .02                        | 22            | 5            | --             | --          | --            | --                              | 101                        | 65            | .8           | --                         | --        | 326              | 76                                  | --                                       | 8.2 | --             | --                            | --                              | -- | -- |
|              |                | 826                                    | Apr. 27, 1962      | .03                        | 25            | 6            | --             | --          | --            | --                              | 92                         | 85            | .8           | --                         | --        | 176              | 88                                  | --                                       | 7.9 | --             | --                            | --                              | -- | -- |
|              |                | 826                                    | Mar. 11, 1963      | .02                        | 22            | 9            | --             | --          | --            | --                              | 104                        | 80            | .6           | --                         | --        | 383              | 92                                  | --                                       | 8.0 | --             | --                            | --                              | -- | -- |
|              |                | 826                                    | July 20, 1964      | .03                        | 21            | 11           | --             | --          | --            | --                              | 96                         | 70            | .7           | --                         | --        | 331              | 99                                  | --                                       | 8.0 | --             | --                            | --                              | -- | -- |
|              |                | 826                                    | Sept. 8, 1967      | .03                        | 22            | 6            | --             | --          | --            | --                              | 98                         | 60            | .6           | --                         | --        | 329              | 80                                  | --                                       | 8.2 | --             | --                            | --                              | -- | -- |
|              |                | 826                                    | Jan. 16, 1969      | .02                        | 21            | 11           | 79             | --          | --            | --                              | 58                         | 60            | .35          | --                         | --        | 381              | 96                                  | --                                       | 7.9 | --             | --                            | --                              | -- | -- |
|              |                | 826                                    | Aug. 1, 1969       | .02                        | 22            | 6            | 79             | --          | --            | --                              | 53                         | 55            | .57          | --                         | --        | 359              | 83                                  | --                                       | 8.4 | 74             | --                            | --                              | -- | -- |
|              |                | 826                                    | July 10, 1970      | .04                        | 25            | 4            | 75             | --          | --            | --                              | 50                         | 35            | .31          | --                         | --        | 347              | 86                                  | --                                       | 8.3 | 72             | --                            | --                              | -- | -- |
|              |                | 826                                    | June 26, 1971      | .02                        | 25            | 6            | 84             | --          | --            | --                              | 71                         | 56            | .53          | --                         | --        | 309              | 82                                  | --                                       | 8.3 | 74             | --                            | --                              | -- | -- |
|              |                | 826                                    | Apr. 10, 1972      | .02                        | 25            | 7.2          | 64             | --          | --            | --                              | 63                         | 35            | .18          | --                         | --        | 384              | 92                                  | --                                       | 7.4 | 67             | --                            | --                              | -- | -- |
|              |                | 826                                    | Mar. 31, 1973      | .01                        | 25            | 6            | 76             | --          | --            | --                              | 48                         | 59            | .46          | --                         | --        | 360              | 86                                  | --                                       | 8.6 | 71             | --                            | --                              | -- | -- |
|              |                | 608                                    | Qtal 6             | 761-786                    | Mar. 31, 1966 | --           | --             | 63          | 14            | 204                             | 11                         | 59            | 23           | 415                        | .6        | 2.0              | 0.05                                | 805                                      | 214 | 1,550          | 8.5                           | --                              | -- | -- |
| 1,225-1,250  | Apr. 4, 1966   |  |                    | --                         | .11           | 1,270        | 186            | 2,600       | 23            | 41                              | 668                        | 6,360         | --           | --                         | .21       | 11,200           | 3,940                               | 18,100                                   | 6.4 | 59             | --                            | --                              |    |    |
| 1,724-1,749  | Apr. 8, 1966   |  |                    | --                         | .22           | 2,250        | 115            | 5,260       | 28            | 33                              | 1,820                      | 11,000        | --           | --                         | .25       | 20,500           | 6,090                               | 31,000                                   | 6.4 | 65             | --                            | --                              |    |    |
| 2,167-2,182  | Apr. 22, 1966  |  |                    | --                         | .49           | 2,950        | 578            | 12,100      | 48            | 34                              | 2,250                      | 23,900        | --           | --                         | 0         | 41,900           | 9,740                               | 60,900                                   | 7.1 | 73             | --                            | --                              |    |    |
| 2,835-2,856  | May 2, 1966    |  |                    | --                         | .19           | 2,000        | 125            | 7,550       | 34            | 10                              | 1,690                      | 14,300        | --           | --                         | 3.0       | 25,700           | 5,500                               | 38,300                                   | 5.0 | 75             | --                            | 0                               |    |    |
| 800-820      | May 23, 1966   |  |                    | --                         | --            | 47           | 11             | 198         | 10            | 72                              | 55                         | 354           | .6           | 2.5                        | --        | 747              | 168                                 | 1,400                                    | 7.3 | 70             | 6.6                           | 0                               |    |    |
| 686-710      | do             | .48                                    | 55                 | 7.4                        | 184           | 9.8          | 85             | 56          | 322           | .6                              | 3.2                        | --            | --           | 704                        | 168       | 1,310            | 8.1                                 | 69                                       | 6.2 | 0              |                               |                                 |    |    |
| 611          | Qtal 6         | 539-573                                | May 25, 1953       | 29                         | .05           | 30           | 9.6            | 103         | 11            | 176                             | 80                         | 88            | .7           | 4.3                        | .32       | 447              | 114                                 | 756                                      | 7.9 | 64             | --                            | --                              |    |    |
|              |                | 662-708                                | May 27, 1953       | 28                         | .02           | 24           | 6.9            | 93          | 9.4           | 152                             | 61                         | 79            | .7           | 4.6                        | .30       | 384              | 88                                  | 656                                      | 7.9 | 67             | --                            | --                              |    |    |
|              |                | 730-776                                | do                 | 7.2                        | .01           | 17           | 3.9            | 105         | 8.8           | 142                             | 61                         | 83            | .7           | 5.2                        | .13       | 370              | 58                                  | 651                                      | 7.8 | 77             | --                            | --                              |    |    |
|              |                | 870-916                                | May 28, 1953       | 22                         | .01           | 38           | 11             | 154         | 12            | 98                              | 38                         | 258           | .6           | 2.8                        | .16       | 603              | 140                                 | 1,100                                    | 7.3 | 68             | --                            | --                              |    |    |
|              |                | 986-1,032                              | May 29, 1953       | 22                         | .03           | 119          | 27             | 408         | 15            | 72                              | 66                         | 840           | .3           | 0                          | .18       | 1,530            | 408                                 | 3,030                                    | 7.1 | 68             | --                            | --                              |    |    |
|              |                | 1,098-1,132                            | May 30, 1953       | 5.6                        | .01           | 208          | 55             | 712         | 18            | 61                              | 148                        | 1,520         | .6           | 0                          | .25       | 2,700            | 745                                 | 4,980                                    | 6.9 | 67             | --                            | --                              |    |    |
|              |                | 1,162-1,208                            | June 1, 1953       | 24                         | .02           | 484          | 74             | 1,290       | --            | 45                              | 255                        | 2,650         | .3           | --                         | --        | 5,000            | 1,510                               | 8,780                                    | 7.1 | 65             | --                            | --                              |    |    |
| 801          | Qtal 6         | 702-728                                | Dec. 5, 1957       | --                         | .08           | 38           | 11             | --          | --            | --                              | 11                         | 18            | 1.6          | --                         | --        | 268              | 140                                 | --                                       | 8.8 | --             | --                            | --                              |    |    |
|              |                | 800-826                                | Dec. 6, 1957       | --                         | .06           | 38           | 10             | --          | --            | --                              | 12                         | 23            | 1.5          | --                         | --        | 302              | 136                                 | --                                       | 8.5 | --             | --                            | --                              |    |    |
|              |                | 943-969                                | Dec. 7, 1957       | --                         | .02           | 26           | 5              | --          | --            | --                              | 14                         | 19            | 1.4          | --                         | --        | 331              | 88                                  | --                                       | 8.5 | --             | --                            | --                              |    |    |
|              |                | 1,092-1,118                            | Dec. 8, 1957       | --                         | .06           | 33           | 7              | --          | --            | --                              | 10                         | 22            | .5           | --                         | --        | 340              | 110                                 | --                                       | 8.5 | --             | --                            | --                              |    |    |
|              |                | 1,317-1,343                            | Dec. 9, 1957       | --                         | .02           | 234          | 19             | --          | --            | --                              | 1                          | 1,045         | .1           | --                         | --        | 1,963            | 662                                 | --                                       | 8.2 | --             | --                            | --                              |    |    |
|              |                | 1,126                                  | Apr. 8, 1958       | --                         | .02           | 34           | 10             | --          | --            | --                              | 53                         | 21            | 2.0          | --                         | --        | 320              | 126                                 | --                                       | 8.1 | --             | --                            | --                              |    |    |
|              |                | 1,126                                  | Feb. 4, 1964       | --                         | .01           | 47           | 11             | --          | --            | --                              | 63                         | 35            | .09          | --                         | --        | 283              | 162                                 | --                                       | 7.6 | --             | --                            | --                              |    |    |
|              |                | 1,126                                  | Aug. 10, 1967      | --                         | .014          | 38           | 7              | --          | --            | --                              | 57                         | 30            | .2           | --                         | --        | 354              | 124                                 | --                                       | 8.0 | --             | --                            | --                              |    |    |
|              |                | 1,126                                  | Jan. 16, 1969      | --                         | .12           | 44           | 17             | 80          | --            | --                              | 72                         | 22            | 2.60         | --                         | --        | 386              | 182                                 | --                                       | 7.7 | --             | --                            | --                              |    |    |
|              |                | 1,126                                  | Oct. 21, 1969      | --                         | .02           | 40           | 6              | 59          | --            | --                              | 42                         | 18            | 1.94         | --                         | --        | 389              | 124                                 | --                                       | 8.0 | 56             | --                            | --                              |    |    |
|              |                | 1,126                                  | July 21, 1970      | --                         | --            | 36           | 13             | 65          | --            | --                              | 48                         | 35            | 1.58         | --                         | --        | 309              | 142                                 | --                                       | 7.4 | 57             | --                            | --                              |    |    |
|              |                | 1,126                                  | Aug. 6, 1971       | --                         | .015          | 36           | 9              | 53          | --            | --                              | 38                         | 18            | 1.87         | --                         | --        | 260              | 128                                 | --                                       | 7.7 | 54             | --                            | --                              |    |    |
|              |                | 1,126                                  | June 27, 1972      | 20.75                      | .01           | 34           | 10             | 74          | --            | --                              | 54                         | 34            | 1.61         | --                         | --        | 329              | 124                                 | --                                       | 8.4 | 63             | --                            | --                              |    |    |
|              |                | 1,126                                  | Mar. 28, 1973      | --                         | .03           | 35           | 10             | 60          | --            | --                              | 27                         | 30            | .78          | --                         | --        | 402              | 128                                 | --                                       | 7.7 | 62             | --                            | --                              |    |    |
|              |                | 802                                    | Qtal 6             | 500                        | July 12, 1939 | 12           | --             | 42          | 19            | 64                              | --                         | 218           | 65           | 40                         | --        | --               | --                                  | 375                                      | 185 | --             | --                            | --                              | -- | -- |
| 500          | Mar. 24, 1953  |  |                    | --                         | --            | 36           | 17             | 97          | --            | 229                             | 70                         | 73            | --           | --                         | --        | 435              | 160                                 | --                                       | 7.8 | --             | --                            | --                              |    |    |
| 500          | Aug. 10, 1953  |  |                    | --                         | --            | 36           | 15.8           | --          | --            | 190                             | 76                         | 68            | --           | --                         | --        | 441              | 156                                 | --                                       | 8.1 | --             | --                            | --                              |    |    |
| 500          | Sept. 2, 1953  |  |                    | --                         | --            | 35           | 16             | --          | --            | 230                             | 78                         | 67            | 1.4          | --                         | --        | 438              | 156                                 | --                                       | --  | --             | --                            | --                              |    |    |
| 500          | Feb. 8, 1954   |  |                    | --                         | --            | 36           | 17             | --          | --            | 226                             | 68                         | 74            | --           | --                         | --        | 442              | 160                                 | --                                       | 7.9 | --             | --                            | --                              |    |    |
| 500          | July 14, 1954  |  |                    | --                         | --            | 37           | 17             | --          | --            | 222                             | 78                         | 73            | --           | --                         | --        | 433              | 163                                 | --                                       | 8.0 | --             | --                            | --                              |    |    |
| 500          | Sept. 23, 1955 |  |                    | --                         | --            | 40           | 17             | 99          | --            | 227                             | 72                         | 80            | --           | --                         | --        | 468              | 168                                 | --                                       | 8.2 | --             | --                            | --                              |    |    |
| 500          | Feb. 18, 1958  |  |                    | --                         | --            | 45           | 16             | --          | --            | --                              | 84                         | 132           | 1.5          | --                         | --        | 561              | 178                                 | --                                       | 7.9 | --             | --                            | --                              |    |    |
| 830          | Aug. 5, 1960   |  |                    | --                         | --            | 29           | 17             | --          | --            | --                              | 66                         | 101           | 1.1          | --                         | --        | 475              | 144                                 | --                                       | 8.7 | --             | --                            | --                              |    |    |
| 830          | July 23, 1962  |  |                    | --                         | --            | 31           | 18             | --          | --            | --                              | 108                        | 125           | .4           | --                         | --        | 511              | 156                                 | --                                       | 8.1 | --             | --                            | --                              |    |    |
| 830          | May 15, 1964   |  |                    | --                         | --            | 32           | 17             | --          | --            | --                              | 116                        | 130           | .5           | --                         | --        | 504              | 150                                 | --                                       | 8.1 | --             | --                            | --                              |    |    |
| 830          | Oct. 10, 1965  |  |                    | --                         | --            | 46           | 18             | --          | --            | --                              | 112                        | 135           | .3           | --                         | --        | 473              | 188                                 | --                                       | 8.1 | --             | --                            | --                              |    |    |
| 830          | Aug. 10, 1967  |  |                    | --                         | --            | 46           | 15             | --          | --            | --                              | 84                         | 125           | 1.3          | --                         | --        | 498              | 177                                 | --                                       | 7.8 | --             | --                            | --                              |    |    |
| 830          | Jan. 16, 1969  |  |                    | --                         | --            | 46           | 13             | 102         | --            | --                              | 84                         | 165           | 1.25         | --                         | --        | 646              | 160                                 | --                                       | 7.5 | --             | --                            | --                              |    |    |
| 830          | July 23, 1969  |  |                    | --                         | --            | 39           | 9              | 139         | --            | --                              | 81                         | 135           | 1.13         | --                         | --        | 524              | 128                                 | --                                       | 8.2 | 62             | --                            | --                              |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|
| JL-49-05-802 | Qtal 6        | 830                                    | July 10, 1970      | --                         | --        | 48           | 18             | 97          | --            | --                              | 79                         | 105           | 0.9          | --                         | --        | 561              | 192                                 | --                                       | 8.2 | 60             | --                            | --                              |    |
|              |               | 830                                    | June 28, 1971      | V                          | 0.01      | 50           | 16             | 98          | --            | --                              | 79                         | 109           | 1.19         | --                         | --        | 455              | 192                                 | --                                       | 8.2 | 60             | --                            | --                              |    |
|              |               | 830                                    | May 16, 1972       | V                          | 0.01      | 46           | 17             | 89          | --            | --                              | 73                         | 95            | .92          | --                         | --        | 530              | 186                                 | --                                       | 8.0 | 59             | --                            | --                              |    |
|              |               | 830                                    | Apr. 19, 1973      | V                          | 0.01      | 44           | 19             | 99          | --            | --                              | 77                         | 104           | 1.18         | --                         | --        | 556              | 190                                 | --                                       | 7.9 | 61             | --                            | --                              |    |
| 803          | Qtal 6        | 497                                    | June 30, 1939      | 12                         | --        | 51           | 20             | 67          | --            | 223                             | 87                         | 48            | --           | --                         | --        | 394              | 211                                 | --                                       | --  | --             | --                            | --                              |    |
|              |               | 832                                    | Sept. 2, 1953      | --                         | 0.01      | 42           | 19             | --          | --            | 228                             | 72                         | 57            | 1.3          | --                         | --        | --               | 430                                 | 176                                      | --  | 7.8            | --                            | --                              | -- |
|              |               | 832                                    | July 14, 1954      | --                         | 0.01      | 43           | 18             | --          | --            | 223                             | 72                         | 66            | 1.3          | --                         | --        | --               | 447                                 | 183                                      | --  | 8.2            | --                            | --                              | -- |
|              |               | 832                                    | Sept. 23, 1955     | --                         | 0.02      | 42           | 19             | 89          | --            | 228                             | 70                         | 66            | 1.3          | --                         | --        | --               | 439                                 | 181                                      | --  | 8.1            | --                            | --                              | -- |
|              |               | 832                                    | Apr. 5, 1957       | --                         | 0.02      | 45           | 14             | --          | --            | --                              | 82                         | 51            | 1.2          | --                         | --        | --               | 452                                 | 179                                      | --  | 8.3            | --                            | --                              | -- |
|              |               | 832                                    | Feb. 10, 1958      | --                         | 0.02      | 44           | 16             | --          | --            | --                              | 80                         | 95            | 1.2          | --                         | --        | --               | 473                                 | 176                                      | --  | 8.0            | --                            | --                              | -- |
|              |               | 832                                    | Feb. 17, 1958      | --                         | 0.02      | 46           | 13             | --          | --            | --                              | 74                         | 79            | 1.4          | --                         | --        | --               | 464                                 | 172                                      | --  | 7.9            | --                            | --                              | -- |
|              |               | 832                                    | Aug. 5, 1960       | --                         | 0.03      | 12           | 22             | --          | --            | --                              | 65                         | 71            | 1.1          | --                         | --        | --               | 395                                 | 120                                      | --  | 8.7            | --                            | --                              | -- |
|              |               | 832                                    | July 20, 1964      | --                         | 0.02      | 57           | 12             | --          | --            | --                              | 89                         | 75            | 1.0          | --                         | --        | --               | 461                                 | 191                                      | --  | 8.0            | --                            | --                              | -- |
|              |               | 832                                    | Apr. 18, 1966      | --                         | 0.02      | 71           | 3              | --          | --            | --                              | 87                         | 80            | .9           | --                         | --        | --               | 494                                 | 196                                      | --  | 7.9            | --                            | --                              | -- |
|              |               | 832                                    | Feb. 23, 1967      | --                         | 0.01      | 58           | 11             | --          | --            | --                              | 71                         | 95            | 1.0          | --                         | --        | --               | 455                                 | 190                                      | --  | --             | --                            | --                              | -- |
|              |               | 832                                    | Jan. 16, 1969      | --                         | 0.05      | 47           | 14             | 102         | --            | --                              | 90                         | 85            | 1.1          | --                         | --        | --               | 562                                 | 176                                      | --  | 7.6            | --                            | --                              | -- |
|              |               | 832                                    | July 23, 1969      | --                         | 0.008     | 42           | 15             | 80          | --            | --                              | 60                         | 70            | 1.16         | --                         | --        | --               | 487                                 | 164                                      | --  | 8.1            | 58                            | --                              | -- |
|              |               | 832                                    | July 10, 1970      | --                         | --        | 48           | 17             | 80          | --            | --                              | 77                         | 75            | .87          | --                         | --        | --               | 525                                 | 190                                      | --  | 8.1            | 55                            | --                              | -- |
|              |               | 832                                    | July 10, 1971      | --                         | 0.02      | 46           | 16             | --          | --            | --                              | 46                         | 85            | 1.3          | --                         | --        | --               | 352                                 | 181                                      | --  | 7.7            | 46                            | --                              | -- |
|              |               | 832                                    | May 16, 1972       | --                         | 0.01      | 47           | 15             | 73          | --            | --                              | 62                         | 65            | .87          | --                         | --        | --               | 485                                 | 182                                      | --  | 8.0            | 54                            | --                              | -- |
| 832          | Mar. 27, 1973 | --                                     | 0.02               | 53                         | 13        | 92           | --             | --          | 77            | 84                              | 1.04                       | --            | --           | --                         | 486       | 184              | --                                  | 7.6                                      | 38  | --             | --                            |                                 |    |
| 804          | Qtal 6        | 503                                    | June 20, 1939      | 19                         | --        | 53           | 16             | 52          | --            | 194                             | 70                         | 41            | --           | --                         | --        | 372              | 200                                 | --                                       | --  | --             | --                            | --                              |    |
|              |               | 790                                    | Nov. 9, 1952       | --                         | --        | 43           | 15             | --          | --            | 220                             | 54                         | 34            | --           | --                         | --        | --               | 338                                 | 168                                      | --  | 7.6            | --                            | --                              | -- |
|              |               | 790                                    | Aug. 10, 1953      | --                         | 0.01      | 39           | 14             | --          | --            | 220                             | 50                         | 32            | 1.4          | --                         | --        | --               | 345                                 | 156                                      | --  | 7.7            | --                            | --                              | -- |
|              |               | 790                                    | Sept. 2, 1953      | --                         | 0.01      | 38           | 14             | --          | --            | 230                             | 54                         | 30            | 1.3          | --                         | --        | --               | 354                                 | 154                                      | --  | 7.8            | --                            | --                              | -- |
|              |               | 790                                    | Feb. 8, 1954       | --                         | 0.01      | 39           | 15             | --          | --            | 223                             | 52                         | 36            | 1.1          | --                         | --        | --               | 343                                 | 160                                      | --  | 7.8            | --                            | --                              | -- |
|              |               | 790                                    | July 14, 1954      | --                         | 0.01      | 43           | 14             | --          | --            | 217                             | 48                         | 36            | 1.1          | --                         | --        | --               | 319                                 | 162                                      | --  | 8.0            | --                            | --                              | -- |
|              |               | 790                                    | Sept. 23, 1955     | --                         | 0.02      | 41           | 15             | 65          | --            | 222                             | 58                         | 36            | 1.3          | --                         | --        | --               | 360                                 | 164                                      | --  | 8.1            | --                            | --                              | -- |
|              |               | 790                                    | Feb. 11, 1958      | --                         | 0.02      | 42           | 13             | --          | --            | --                              | 60                         | 46            | 1.5          | --                         | --        | --               | 365                                 | 160                                      | --  | 8.3            | --                            | --                              | -- |
|              |               | 790                                    | Oct. 20, 1958      | --                         | 0.02      | 46           | 17             | --          | --            | --                              | 48                         | 44            | 1.4          | --                         | --        | --               | 374                                 | 184                                      | --  | 7.7            | --                            | --                              | -- |
|              |               | 790                                    | Nov. 11, 1959      | --                         | --        | 43           | 18             | --          | --            | --                              | 42                         | 65            | --           | --                         | --        | --               | 364                                 | 180                                      | --  | --             | --                            | --                              | -- |
|              |               | 790                                    | Aug. 5, 1960       | --                         | 0.02      | 28           | 14             | --          | --            | --                              | 49                         | 48            | 1.1          | --                         | --        | --               | 349                                 | 128                                      | --  | 8.4            | --                            | --                              | -- |
|              |               | 790                                    | Apr. 9, 1962       | --                         | 0.04      | 48           | 16             | --          | --            | --                              | 57                         | 70            | 1.0          | --                         | --        | --               | 396                                 | 182                                      | --  | 7.6            | --                            | --                              | -- |
|              |               | 790                                    | Aug. 26, 1963      | --                         | --        | 54           | 50             | --          | --            | --                              | 63                         | 63            | .8           | --                         | --        | --               | 407                                 | 183                                      | --  | --             | --                            | --                              | -- |
|              |               | 790                                    | May 15, 1964       | --                         | 0.02      | 50           | 14             | --          | --            | --                              | 63                         | 80            | .9           | --                         | --        | --               | 371                                 | 183                                      | --  | 8.9            | --                            | --                              | -- |
|              |               | 790                                    | July 23, 1969      | --                         | 0.005     | 46           | 15             | 63          | --            | --                              | 54                         | 60            | 1.32         | --                         | --        | --               | 468                                 | 176                                      | --  | 8.3            | 51                            | --                              | -- |
|              |               | 790                                    | Aug. 6, 1970       | --                         | 0.04      | 53           | 14             | 54          | --            | --                              | 60                         | 55            | 1.05         | --                         | --        | --               | 441                                 | 190                                      | --  | 7.7            | 44                            | --                              | -- |
| 790          | Aug. 10, 1971 | --                                     | 0.01               | 56                         | 12        | 57           | --             | --          | 60            | 61                              | 1.45                       | --            | --           | --                         | 345       | 189              | --                                  | 7.6                                      | 46  | --             | --                            |                                 |    |
| 790          | May 16, 1972  | --                                     | 0.01               | 49                         | 16        | 57           | --             | --          | 58            | 60                              | 1.4                        | --            | --           | --                         | 449       | 188              | --                                  | 8.2                                      | 47  | --             | --                            |                                 |    |
| 790          | Mar. 28, 1973 | --                                     | 0.02               | 62                         | 11        | 61           | --             | --          | 60            | 69                              | .62                        | --            | --           | --                         | 484       | 198              | --                                  | 7.6                                      | 46  | --             | --                            |                                 |    |
| 901          | Qtal 6        | 727                                    | Jan. 17, 1956      | --                         | --        | 34           | 8              | 125         | --            | 170                             | 93                         | 95            | --           | --                         | --        | 452              | 119                                 | --                                       | 8.2 | --             | --                            | --                              |    |
|              |               | 727                                    | June 4, 1958       | --                         | 0.02      | 31           | 10             | --          | --            | --                              | 78                         | 92            | .9           | --                         | --        | --               | 488                                 | 122                                      | --  | 8.2            | --                            | --                              | -- |
|              |               | 727                                    | Aug. 15, 1960      | --                         | 0.02      | 31           | 22             | --          | --            | --                              | 57                         | 91            | .9           | --                         | --        | --               | 475                                 | 120                                      | --  | 8.6            | --                            | --                              | -- |
|              |               | 727                                    | Mar. 27, 1962      | --                         | 0.02      | 33           | 10             | --          | --            | --                              | 75                         | 110           | .8           | --                         | --        | --               | 504                                 | 124                                      | --  | 8.0            | --                            | --                              | -- |
|              |               | 727                                    | Aug. 26, 1963      | --                         | 0.02      | 31           | 10             | --          | --            | --                              | 84                         | 100           | .8           | --                         | --        | --               | 474                                 | 118                                      | --  | 8.9            | --                            | --                              | -- |
|              |               | 727                                    | July 20, 1964      | --                         | 0.02      | 29           | 9              | --          | --            | --                              | 76                         | 90            | .8           | --                         | --        | --               | 463                                 | 130                                      | --  | 8.8            | --                            | --                              | -- |
|              |               | 727                                    | Aug. 10, 1967      | --                         | 0.014     | 35           | 6              | --          | --            | --                              | 91                         | 105           | 1.1          | --                         | --        | --               | 471                                 | 114                                      | --  | 8.0            | --                            | --                              | -- |
|              |               | 727                                    | July 24, 1969      | --                         | 0.005     | 30           | 7              | 116         | --            | --                              | 82                         | 85            | .85          | --                         | --        | --               | 503                                 | 106                                      | --  | 8.4            | 76                            | --                              | -- |
|              |               | 727                                    | July 10, 1970      | --                         | 0.10      | 34           | 9              | 111         | --            | --                              | 86                         | 90            | .45          | --                         | --        | --               | 507                                 | 122                                      | --  | 8.2            | 72                            | --                              | -- |
|              |               | 727                                    | June 28, 1971      | --                         | 0.01      | 35           | 7              | 112         | --            | --                              | 82                         | 91            | .76          | --                         | --        | --               | 417                                 | 117                                      | --  | 8.2            | 73                            | --                              | -- |
|              |               | 727                                    | Apr. 10, 1972      | --                         | 0.01      | 32           | 9              | 101         | --            | --                              | 72                         | 80            | .34          | --                         | --        | --               | 453                                 | 116                                      | --  | 8.1            | 71                            | --                              | -- |
|              |               | 727                                    | Apr. 19, 1973      | --                         | 0.01      | 30           | 12             | 115         | --            | --                              | 92                         | 94            | .88          | --                         | --        | --               | 531                                 | 124                                      | --  | 8.0            | 70                            | --                              | -- |
| 902          | Qtal 6        | 820                                    | Nov. 9, 1955       | --                         | --        | 28           | 13             | 141         | --            | 162                             | 104                        | 128           | --           | --                         | --        | 518              | 124                                 | --                                       | 8.2 | --             | --                            | --                              |    |
|              |               | 820                                    | Nov. 23, 1955      | --                         | --        | 38           | 14             | 155         | --            | 172                             | 93                         | 180           | --           | --                         | --        | 600              | 154                                 | --                                       | 8.1 | --             | --                            | --                              |    |
|              |               | 820                                    | Apr. 28, 1958      | --                         | 0.02      | 28           | 10             | --          | --            | --                              | 86                         | 188           | 1.4          | --                         | --        | --               | 605                                 | 136                                      | --  | 8.1            | --                            | --                              | -- |
|              |               | 820                                    | Mar. 21, 1962      | --                         | 0.02      | 37           | 11             | --          | --            | --                              | 118                        | 165           | 1.3          | --                         | --        | --               | 499                                 | 138                                      | --  | 7.7            | --                            | --                              | -- |
|              |               | 820                                    | Mar. 8, 1963       | --                         | 0.11      | 36           | 13             | --          | --            | --                              | 110                        | 175           | .9           | --                         | --        | --               | 503                                 | 144                                      | --  | 7.8            | --                            | --                              | -- |
|              |               | 820                                    | Aug. 10, 1967      | --                         | 0.01      | 41           | 6              | --          | --            | --                              | 118                        | 150           | .7           | --                         | --        | --               | 536                                 | 126                                      | --  | 8.0            | --                            | --                              | -- |
|              |               | 820                                    | Jan. 16, 1969      | --                         | .43       | 36           | 9              | 272         | --            | --                              | 79                         | 165           | 1.33         | --                         | --        | --               | 607                                 | 128                                      | --  | 7.6            | --                            | --                              | -- |
|              |               | 820                                    | July 10, 1970      | --                         | --        | 40           | 11             | 129         | --            | --                              | 86                         | 135           | .87          | --                         | --        | --               | 578                                 | 134                                      | --  | 8.3            | 72                            | --                              | -- |
| 820          | July 10, 1971 | --                                     | 0.01               | 35                         | 9         | 130          | --             | --          | 83            | 125                             | 1.23                       | --            | --           | --                         | 469       | 126              | --                                  | 7.9                                      | 74  | --             | --                            |                                 |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well          | Aquifer | Depth of well or sampled interval (ft)   | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)                                       | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |    |
|---------------|---------|--|--------------------|----------------------------|---|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|----|----|
| JL-49-05-902  | Qtal 6  | 820-820  | May 16, 1972       | --                         | 0.01  | 34           | 9              | 126         | --            | --                              | 81                         | 115           | 1.0          | --                         | --        | 549              | 124                                 | --                                       | 8.0   | 75             | --                            | --                              |    |    |    |
|               |         |  | Apr. 17, 1973      | --                         | .01   | 35           | 9.7            | 137         | --            | --                              | 84                         | 133           | .7           | --                         | --        | --               | 534                                 | 128                                      | --    | 8.0            | 75                            | --                              | -- |    |    |
| 903           | Qtal 6  | 670-695<br>760-785<br>863-888<br>1,001-1,025<br>1,121-1,140<br>1,050<br>1,050<br>1,050<br>1,050<br>1,050<br>1,050  | Mar. 20, 1963      | --                         | .013  | 33           | 8              | --          | --            | --                              | 160                        | 85            | .4           | --                         | --        | 444              | 116                                 | --                                       | 8.0   | --             | --                            | --                              |    |    |    |
|               |         |  | do                 | --                         | .012  | 28           | 7              | --          | --            | --                              | --                         | 120           | 70           | .3                         | --        | --               | 403                                 | 98                                       | --    | 8.3            | --                            | --                              | -- |    |    |
|               |         |  | do                 | --                         | .016  | 26           | 7              | --          | --            | --                              | --                         | 110           | 80           | .6                         | --        | --               | 385                                 | 96                                       | --    | 8.0            | --                            | --                              | -- |    |    |
|               |         |  | Mar. 25, 1963      | --                         | .015  | 20           | 8              | --          | --            | --                              | --                         | 100           | 80           | .4                         | --        | --               | 370                                 | 82                                       | --    | 8.0            | --                            | --                              | -- |    |    |
|               |         |  | Mar. 26, 1963      | --                         | .017  | 28           | 9              | --          | --            | --                              | --                         | 180           | 170          | .2                         | --        | --               | 462                                 | 106                                      | --    | 8.3            | --                            | --                              | -- |    |    |
|               |         |  | July 20, 1964      | --                         | .013  | 25           | 6              | --          | --            | --                              | --                         | 106           | 85           | .5                         | --        | --               | 362                                 | 87                                       | --    | 8.0            | --                            | --                              | -- | -- |    |
|               |         |  | Sept. 8, 1967      | --                         | .02   | 24           | 6              | --          | --            | --                              | --                         | 111           | 70           | .4                         | --        | --               | 380                                 | 85                                       | --    | 8.2            | --                            | --                              | -- | -- |    |
|               |         |  | Jan. 22, 1969      | --                         | .02   | 23           | 7              | 85          | --            | --                              | --                         | 53            | 65           | .8                         | --        | --               | 386                                 | 87                                       | --    | 8.2            | --                            | --                              | -- | -- |    |
|               |         |  | Aug. 1, 1969       | --                         | .02   | 22           | 7              | 82          | --            | --                              | --                         | 48            | 60           | .67                        | --        | --               | 375                                 | 84                                       | --    | 8.5            | 74                            | --                              | -- | -- |    |
|               |         |  | July 10, 1970      | --                         | --  | 26           | 7              | 82          | --            | --                              | --                         | 58            | 60           | .4                         | --        | --               | 388                                 | 92                                       | --    | 8.3            | 71                            | --                              | -- | -- |    |
|               |         |  | July 10, 1971      | --                         | --  | .01          | 26             | 5           | 81            | --                              | --                         | 51            | 60           | .78                        | --        | --               | 299                                 | 87                                       | --    | 8.1            | 72                            | --                              | -- | -- |    |
| May 16, 1972  | --      | --   | .01                | 24                         | 2   | 79           | --             | --          | 48            | 45                              | .68                        | --            | --           | 355                        | 67        | --               | 8.1                                 | 75                                       | --    | --             | --                            |                                 |    |    |    |
| 905           | Qtal 6  | 335  | July 23, 1936      | --                         | --  | 36           | 13             | 140         | --            | 200                             | 130                        | 102           | --           | 5.2                        | --        | 525              | 143                                 | --                                       | --    | --             | --                            | --                              |    |    |    |
| 906           | Qtal 6  | 1,095-1,120<br>520-545<br>687-712<br>881-906<br>1,004-1,029<br>1,095-1,120<br>330-950<br>687-712<br>1,198  | Feb. 10, 1966      | 29                         | --  | 39           | 9.4            | 147         | --            | 100                             | 46                         | 228           | .4           | 2.5                        | --        | 550              | 136                                 | 1,020                                    | 7.1   | 70             | 5.5                           | 0                               |    |    |    |
|               |         |  | Feb. 16, 1966      | --                         | .04   | 18           | 6              | --          | --            | --                              | 83                         | 45            | .08          | --                         | --        | 177              | 70                                  | --                                       | 8.0   | --             | --                            | --                              |    |    |    |
|               |         |  | do                 | --                         | .04   | 14           | 9              | --          | --            | --                              | 128                        | 60            | .08          | --                         | --        | 399              | 96                                  | --                                       | 8.1   | --             | --                            | --                              | -- |    |    |
|               |         |  | do                 | --                         | .03   | 24           | 7              | --          | --            | --                              | 61                         | 90            | .09          | --                         | --        | 383              | 82                                  | --                                       | 8.2   | --             | --                            | --                              | -- |    |    |
|               |         |  | do                 | --                         | .05   | 28           | 9              | --          | --            | --                              | 62                         | 145           | .09          | --                         | --        | 421              | 108                                 | --                                       | 8.2   | --             | --                            | --                              | -- |    |    |
|               |         |  | do                 | --                         | .04   | 42           | 11             | --          | --            | --                              | 73                         | 270           | .09          | --                         | --        | 589              | 160                                 | --                                       | 8.1   | --             | --                            | --                              | -- |    |    |
|               |         |  | Mar. 18, 1966      | 30                         | .02   | 21           | 4.9            | 68          | 6.0           | 150                             | 35                         | 55            | .9           | 4.8                        | 0.10      | 290              | 73                                  | 488                                      | 6.9   | 65             | 3.5                           | 68                              |    |    |    |
|               |         |  | Apr. 18, 1966      | --                         | .009  | 24           | 7              | --          | --            | --                              | 45                         | 70            | .6           | --                         | --        | 311              | 88                                  | --                                       | 8.4   | --             | --                            | --                              | -- |    |    |
| do            | --      | .01  | 20                 | 6                          | --  | --           | --             | 38          | 60            | .4                              | --                         | --            | 262          | 75                         | --        | 8.3              | --                                  | --                                       | --    | --             |                               |                                 |    |    |    |
| 908           | Qtal 6  | 304-324<br>354-387<br>469-495<br>523-565<br>585-605<br>622-695<br>706-746<br>787-820   | Dec. 11, 1940      | 38                         | --  | 20           | 7.5            | 91          | --            | 145                             | 64                         | 61            | --           | --                         | --        | 368              | 80                                  | --                                       | --    | --             | --                            | --                              |    |    |    |
|               |         |  | Dec. 12, 1940      | 39                         | --  | 20           | 7.3            | 87          | --            | 138                             | 63                         | 58            | --           | --                         | --        | 350              | 81                                  | --                                       | --    | --             | --                            | --                              |    |    |    |
|               |         |  | Dec. 13, 1940      | 39                         | --  | 18           | 7.5            | 69          | --            | 128                             | 46                         | 52            | --           | --                         | --        | 290              | 75                                  | --                                       | --    | --             | --                            | --                              |    |    |    |
|               |         |  | Dec. 17, 1940      | 26                         | --  | 22           | 6.2            | 68          | --            | 128                             | 47                         | 52            | --           | --                         | --        | 294              | 79                                  | --                                       | --    | --             | --                            | --                              |    |    |    |
|               |         |  | Dec. 18, 1940      | 22                         | --  | 18           | 8.2            | 72          | --            | 137                             | 45                         | 54            | --           | --                         | --        | 299              | 88                                  | --                                       | --    | --             | --                            | --                              |    |    |    |
|               |         |  | Dec. 19, 1940      | 25                         | --  | 25           | 12             | 93          | --            | 156                             | 69                         | 71            | --           | --                         | --        | 406              | 109                                 | --                                       | --    | --             | --                            | --                              |    |    |    |
|               |         |  | Dec. 20, 1940      | 28                         | --  | 30           | 8.5            | 93          | --            | 145                             | 79                         | 67            | --           | --                         | --        | 347              | 109                                 | --                                       | --    | --             | --                            | --                              |    |    |    |
|               |         |  | Dec. 21, 1940      | 25                         | --  | 27           | 8.6            | 84          | --            | 155                             | 65                         | 58            | --           | --                         | --        | 366              | 103                                 | --                                       | --    | --             | --                            | --                              |    |    |    |
|               |         |  | 06-102             | Qtal 6                     | 457-500<br>542-586<br>679-725<br>752-798<br>520 | May 18, 1953 | 16             | 0           | 108           | 20                              | 207                        | 12            | 91           | 36                         | 492       | .3               | 5.9                                 | .16                                      | 943   | 352            | 1,850                         | 7.2                             | 55 | -- | -- |
|               |         |  |                    |                            |   | do           | 18             | 0           | 222           | 51                              | 638                        | 18            | 64           | 25                         | 1,510     | .0               | 3.0                                 | .09                                      | 2,520 | 764            | 4,830                         | 7.3                             | 64 | -- | -- |
| May 19, 1953  | 19      | .09  |                    |                            |   | 218          | 65             | 1,690       | --            | 94                              | 233                        | 2,950         | .7           | --                         | --        | 5,220            | 812                                 | 9,260                                    | 7.0   | 82             | --                            | --                              |    |    |    |
| do            | 26      | .26  |                    |                            |   | 242          | 59             | 2,040       | --            | 163                             | 617                        | 3,700         | .6           | --                         | --        | 6,260            | 846                                 | 10,500                                   | 7.0   | 84             | --                            | --                              |    |    |    |
| June 10, 1953 | 33      | .04  |                    |                            |   | 193          | 27             | 330         | 11            | 60                              | 11                         | 795           | .0           | 5.4                        | .09       | 1,380            | 443                                 | 2,700                                    | 7.5   | 61             | --                            | --                              |    |    |    |
| 105           | Qtal 6  | 450  | Apr. 7, 1965       | --                         | .02   | 80           | 8              | --          | --            | --                              | 325                        | 560           | --           | --                         | --        | 1,227            | 232                                 | --                                       | 8.3   | --             | --                            | --                              |    |    |    |
|               |         |  | Mar. 4, 1953       | 22                         | .01   | 149          | 37             | 212         | 15            | 72                              | 70                         | 612           | .5           | 4.0                        | .36       | 1,160            | 524                                 | 2,180                                    | 7.5   | 46             | --                            | --                              |    |    |    |
| 201           | Qtal 6  | 506-525<br>707-732   | Mar. 6, 1953       | 2.2                        | 0   | 344          | 78             | 609         | --            | 37                              | 72                         | 1,700         | --           | .5                         | --        | 2,820            | 1,180                               | 5,160                                    | 7.2   | 53             | --                            | --                              |    |    |    |
|               |         |  | Aug. do            | --                         | .003  | 38           | 3              | --          | --            | --                              | --                         | 337           | 200          | .08                        | --        | --               | 506                                 | 108                                      | --    | 7.7            | --                            | --                              | -- |    |    |
| 402           | Qtal 6  | 682-707<br>607<br>577-602<br>682-707<br>350-670<br>670<br>670<br>670<br>670<br>670<br>670<br>670<br>670<br>670<br>670<br>670<br>670<br>440<br>520<br>560 | Sept. 1963         | --                         | .003  | 46           | 6.5            | --          | --            | --                              | 401                        | 320           | .07          | --                         | --        | 600              | 142                                 | --                                       | 7.4   | --             | --                            | --                              |    |    |    |
|               |         |  | do                 | --                         | .003  | 35.2         | 6.3            | --          | --            | --                              | 77                         | 296           | 195          | .064                       | --        | --               | 463                                 | 114                                      | --    | 7.1            | --                            | --                              | -- |    |    |
|               |         |  | Oct. 9, 1963       | --                         | --  | 16           | --             | --          | --            | --                              | 104                        | --            | 191          | --                         | --        | --               | 102                                 | 868                                      | 7.4   | --             | --                            | --                              | -- |    |    |
|               |         |  | Oct. 10, 1963      | --                         | --  | 21           | --             | --          | --            | --                              | 92                         | --            | 302          | --                         | --        | --               | 134                                 | 1,210                                    | 7.2   | --             | --                            | --                              | -- |    |    |
|               |         |  | Oct. 30, 1963      | 30                         | .05   | 34           | 5.3            | 109         | 5.3           | 106                             | 25                         | 168           | .8           | 4.9                        | .08       | 434              | 107                                 | 791                                      | 7.9   | 68             | 4.6                           | 0                               |    |    |    |
|               |         |  | Apr. 23, 1965      | --                         | .03   | 33           | 6              | --          | --            | --                              | 84                         | 288           | 210          | .08                        | --        | --               | 474                                 | 106                                      | --    | 7.2            | --                            | --                              | -- |    |    |
|               |         |  | Sept. 18, 1967     | --                         | .03   | 47           | 7              | --          | --            | --                              | 90                         | 261           | 230          | .07                        | --        | --               | 559                                 | 146                                      | --    | 8.0            | --                            | --                              | -- |    |    |
|               |         |  | Jan. 22, 1969      | --                         | .02   | 110          | 18             | 163         | --            | --                              | 75                         | 171           | 320          | .5                         | --        | --               | 874                                 | 350                                      | --    | 8.0            | --                            | --                              | -- |    |    |
|               |         |  | July 3, 1969       | --                         | --  | 40           | 15             | --          | --            | --                              | 182                        | 45            | 32           | --                         | --        | --               | 162                                 | 482                                      | 7.4   | --             | --                            | --                              | -- |    |    |
|               |         |  | Aug. 1, 1969       | --                         | .03   | 60           | 8              | 135         | --            | --                              | 77                         | 58            | 240          | .52                        | --        | --               | 595                                 | 184                                      | --    | 8.2            | 67                            | --                              | -- |    |    |
|               |         |  | July 28, 1970      | --                         | .04   | 68           | 11             | 160         | --            | --                              | 81                         | 71            | 285          | .23                        | --        | --               | 651                                 | 214                                      | --    | 8.0            | 70                            | --                              | -- |    |    |
|               |         |  | Aug. 19, 1971      | --                         | .01   | 64           | 10             | 139         | --            | --                              | 71                         | 247           | .72          | --                         | --        | --               | 581                                 | 202                                      | --    | 7.8            | 65                            | --                              | -- |    |    |
|               |         |  | May 16, 1972       | --                         | .01   | 60           | 9              | 147         | --            | --                              | 72                         | 245           | .72          | --                         | --        | --               | 653                                 | 189                                      | --    | 7.9            | 68                            | --                              | -- |    |    |
|               |         |  | do                 | --                         | --  | 170          | 33             | 370         | --            | --                              | 252                        | 310           | 580          | --                         | 8.4       | --               | 1,620                               | 578                                      | 2,760 | 7.3            | --                            | --                              | 0  |    |    |
|               |         |  | do                 | --                         | --  | 140          | 25             | 280         | --            | --                              | 212                        | 230           | 460          | --                         | 5.9       | --               | 1,250                               | 460                                      | 2,220 | 7.6            | --                            | --                              | 0  |    |    |
|               |         |  | do                 | --                         | --  | 110          | 19             | 230         | --            | --                              | 172                        | 160           | 380          | --                         | 4.2       | --               | 1,010                               | 350                                      | 1,830 | 7.6            | --                            | --                              | 0  |    |    |
|               |         |  | do                 | --                         | --  | 110          | 19             | 240         | --            | --                              | 176                        | 160           | 380          | --                         | 5.1       | --               | 1,030                               | 350                                      | 1,850 | 7.7            | --                            | --                              | 0  |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhmhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |      |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-------|----------------|-------------------------------|---------------------------------|------|
| JL-49-06-404 | Qtal 6        | 683                                    | Sept. 24, 1975     | --                         | < 0.01    | 56           | 10             | 133         | --            | --                              | 48                         | 245           | 0.35         | --                         | --        | 582              | 180                                 | --  | 7.8   | 67             | --                            | --                              |      |
| 501          | Qtal 6        | 461-507                                | Sept. 8, 1953      | 25                         | .01       | 36           | 8.3            | 124         | 7.8           | 133                             | 67                         | 158           | .6           | 4.5                        | 0.25      | 498              | 124                                 | 885                                       | 7.9   | 67             | --                            | --                              |      |
|              |               | 648-694                                | Sept. 9, 1953      | 26                         | 0         | 162          | 51             | 508         | --            | 57                              | 48                         | 1,150         | .2           | 0                          | --        | 1,970            | 634                                 | 3,760                                     | 7.2   | 64             | --                            | --                              |      |
|              |               | 927-973                                | Sept. 10, 1953     | 25                         | 0         | 148          | 47             | 1,170       | --            | 96                              | 137                        | 2,040         | .6           | --                         | --        | 3,610            | 563                                 | 6,560                                     | 7.1   | 82             | --                            | --                              |      |
|              |               | 450                                    | Sept. 14, 1953     | 32                         | .06       | 27           | 7.4            | 91          | 6.4           | 151                             | 53                         | 89            | .5           | 5.0                        | .16       | 386              | 98                                  | 651                                       | 7.6   | 65             | --                            | --                              |      |
| 502          | --            | --                                     | Apr. 3, 1936       | --                         | --        | 35           | 8.8            | 116         | --            | 146                             | 54                         | 139           | --           | 5.0                        | --        | 430              | 124                                 | --  | --    | --             | --                            |                                 |      |
| 601          | Qtal 6        | 479-515                                | June 1, 1953       | 4.3                        | .03       | 81           | 26             | 256         | 12            | 77                              | 316                        | 355           | .3           | 3.0                        | .25       | 1,090            | 309                                 | 1,900                                     | 6.9   | 63             | --                            | --                              |      |
|              |               | 772-808                                | June 3, 1953       | 14                         | .01       | 122          | 26             | 357         | 8.3           | 64                              | 569                        | 405           | .3           | 0                          | .32       | 1,530            | 412                                 | 2,460                                     | 7.1   | 65             | --                            | --                              |      |
|              |               | 892-952                                | June 5, 1953       | 12                         | .02       | 370          | 62             | 1,940       | --            | 54                              | 1,110                      | 2,980         | .3           | --                         | --        | 6,500            | 1,180                               | 10,500                                    | 7.3   | 78             | --                            | --                              |      |
|              |               | 980-1,020                              | June 6, 1953       | 6.8                        | .02       | 684          | 111            | 3,540       | --            | 53                              | 1,990                      | 5,490         | .3           | --                         | --        | 11,800           | 2,160                               | 18,200                                    | 7.1   | 78             | --                            | --                              |      |
|              |               | 511-557                                | July 27, 1953      | 12                         | .02       | 58           | 12             | 422         | 7.2           | 106                             | 212                        | 560           | .7           | 1.0                        | .49       | 1,340            | 194                                 | 2,480                                     | 7.4   | 82             | --                            | --                              |      |
|              |               | 603-649                                | July 29, 1953      | 19                         | .03       | 46           | 7.1            | 370         | 6.4           | 110                             | 154                        | 488           | 1.0          | 1.0                        | .43       | 1,150            | 144                                 | 2,150                                     | 7.4   | 84             | --                            | --                              |      |
|              |               | 895-946                                | July 30, 1953      | 3.9                        | .03       | 535          | 40             | 1,980       | --            | 47                              | 912                        | 3,420         | .4           | --                         | --        | 6,910            | 500                                 | 11,500                                    | 7.3   | 74             | --                            | --                              |      |
|              |               | 502                                    | Aug. 5, 1953       | 24                         | .03       | 118          | 37             | 231         | 12            | 124                             | 124                        | 340           | 355          | .5                         | 0         | .25              | 1,180                               | 446                                       | 1,950 | 7.5            | 52                            | --                              | --   |
| 701          | Qtal 6        | 819                                    | Apr. 11, 1966      | 31                         | --        | 24           | 9              | 91          | --            | 142                             | 39                         | 92            | .9           | 5.3                        | --        | 362              | 97                                  | 627                                       | 7.3   | --             | --                            | --                              |      |
| 702          | Qtal 6        | 450                                    | Feb. 6, 1952       | 27                         | --        | 31           | 8.7            | 132         | --            | 122                             | 34                         | 187           | --           | 5.0                        | --        | 510              | 114                                 | 889                                       | 7.9   | 72             | --                            | --                              |      |
|              |               | 450                                    | Mar. 28, 1952      | --                         | --        | --           | --             | --          | --            | 125                             | --                         | 178           | --           | --                         | --        | --               | 108                                 | 872                                       | 7.6   | --             | --                            | --                              |      |
|              |               | 450                                    | Aug. 26, 1952      | --                         | --        | --           | --             | --          | --            | 129                             | --                         | 177           | --           | --                         | --        | --               | --                                  | 114                                       | 876   | 7.7            | --                            | --                              | --   |
|              |               | 450                                    | Jan. 12, 1953      | --                         | --        | --           | --             | --          | --            | 132                             | --                         | 177           | --           | --                         | --        | --               | --                                  | 116                                       | 876   | 7.9            | --                            | --                              | --   |
|              |               | 450                                    | June 5, 1953       | --                         | --        | --           | --             | --          | --            | 133                             | --                         | 180           | --           | --                         | --        | --               | --                                  | 124                                       | 877   | 8.0            | --                            | --                              | --   |
|              |               | 450                                    | Feb. 25, 1954      | --                         | --        | --           | --             | --          | --            | 133                             | --                         | 177           | --           | --                         | --        | --               | --                                  | 111                                       | 851   | 8.2            | --                            | --                              | --   |
|              |               | 450                                    | July 18, 1963      | --                         | --        | --           | --             | --          | --            | 132                             | --                         | 166           | --           | --                         | --        | --               | --                                  | 120                                       | 805   | 7.0            | --                            | --                              | --   |
|              |               | 450                                    | June 24, 1965      | --                         | --        | --           | --             | --          | --            | --                              | 37                         | 158           | --           | --                         | --        | --               | --                                  | --  | 818   | --             | --                            | --                              | --   |
|              |               | 450                                    | July 11, 1967      | --                         | --        | --           | --             | --          | --            | --                              | 140                        | 44            | 38           | --                         | --        | --               | --                                  | 112                                       | 762   | 7.8            | --                            | --                              | 0.05 |
| 703          | Qtal 6        | 550                                    | Feb. 13, 1952      | 27                         | --        | 62           | 16             | 248         | --            | 90                              | 23                         | 465           | --           | 4.5                        | --        | 984              | 220                                 | 1,690                                     | 7.8   | 71             | --                            | --                              |      |
|              |               | 550                                    | Mar. 28, 1952      | --                         | --        | --           | --             | --          | --            | 90                              | --                         | 460           | --           | --                         | --        | --               | --                                  | 212                                       | 1,680 | 7.6            | --                            | --                              | --   |
|              |               | 550                                    | Aug. 26, 1952      | --                         | --        | --           | --             | --          | --            | 93                              | --                         | 484           | --           | --                         | --        | --               | --                                  | 227                                       | 1,760 | 7.5            | --                            | --                              | --   |
|              |               | 550                                    | Jan. 12, 1953      | --                         | --        | --           | --             | --          | --            | 94                              | --                         | 462           | --           | --                         | --        | --               | --                                  | 220                                       | 1,700 | 7.5            | --                            | --                              | --   |
|              |               | 550                                    | June 5, 1953       | --                         | --        | --           | --             | --          | --            | 94                              | --                         | 472           | --           | --                         | --        | --               | --                                  | 234                                       | 1,720 | 8.0            | --                            | --                              | --   |
|              |               | 550                                    | Feb. 25, 1954      | --                         | --        | --           | --             | --          | --            | 98                              | --                         | 470           | --           | --                         | --        | --               | --                                  | 224                                       | 1,790 | 8.0            | --                            | --                              | --   |
| 704          | Qtal 6        | 340                                    | Sept. 27, 1940     | 22                         | --        | 29           | 8.5            | 105         | --            | 123                             | 35                         | 156           | --           | --                         | --        | 492              | 108                                 | --  | --    | --             | --                            | --                              |      |
|              |               | 388                                    | Sept. 28, 1940     | 21                         | --        | 32           | 9.4            | 114         | --            | 126                             | 38                         | 159           | --           | --                         | --        | --               | 489                                 | 120                                       | --    | --             | --                            | --                              |      |
|              |               | 432                                    | Oct. 1, 1940       | 22                         | --        | 44           | 14             | 155         | --            | 98                              | 42                         | 268           | --           | --                         | --        | --               | 655                                 | 166                                       | --    | --             | --                            | --                              |      |
|              |               | 537                                    | Oct. 2, 1940       | 24                         | --        | 62           | 16             | 271         | --            | 96                              | 41                         | 490           | --           | --                         | --        | --               | 1,030                               | 220                                       | --    | --             | --                            | --                              |      |
|              |               | 670                                    | Oct. 4, 1940       | 23                         | --        | 101          | 30             | 344         | --            | 75                              | 35                         | 728           | --           | --                         | --        | --               | 1,435                               | 378                                       | --    | --             | --                            | --                              |      |
|              |               | 738                                    | Oct. 5, 1940       | 21                         | --        | 84           | 27             | 329         | --            | 79                              | 38                         | 626           | --           | --                         | --        | --               | 1,350                               | 322                                       | --    | --             | --                            | --                              |      |
|              |               | 781-811                                | Oct. 8, 1940       | 25                         | --        | 112          | 34             | 346         | --            | 88                              | 46                         | 745           | --           | --                         | --        | --               | 1,530                               | 42  | --    | --             | --                            | --                              |      |
| 705          | Qtal 6        | 303-346                                | Oct. 30, 1940      | 32                         | --        | 32           | 11             | 130         | --            | 99                              | 38                         | 191           | --           | --                         | --        | 486              | 125                                 | --  | --    | --             | --                            | --                              |      |
|              |               | 354-437                                | Oct. 31, 1940      | 26                         | --        | 52           | 15             | 123         | --            | 94                              | 28                         | 250           | --           | --                         | --        | --               | 592                                 | 190                                       | --    | --             | --                            | --                              |      |
|              |               | 447-500                                | Nov. 1, 1940       | 28                         | --        | 45           | 13             | 113         | --            | 105                             | 45                         | 198           | --           | --                         | --        | --               | 529                                 | 166                                       | --    | --             | --                            | --                              |      |
|              |               | 515-550                                | Nov. 4, 1940       | 29                         | --        | 61           | 15             | 146         | --            | 94                              | 39                         | 293           | --           | --                         | --        | --               | 677                                 | 214                                       | --    | --             | --                            | --                              |      |
|              |               | 573-630                                | Nov. 5, 1940       | 30                         | --        | 45           | 16             | 153         | --            | 106                             | 47                         | 264           | --           | --                         | --        | --               | 650                                 | 174                                       | --    | --             | --                            | --                              |      |
|              |               | 651-697                                | Nov. 7, 1940       | 28                         | --        | 38           | 12             | 150         | --            | 121                             | 52                         | 224           | --           | --                         | --        | --               | 573                                 | 142                                       | --    | --             | --                            | --                              |      |
|              |               | 714-746                                | Nov. 8, 1940       | 32                         | --        | 45           | 15             | 162         | --            | 109                             | 53                         | 271           | --           | --                         | --        | --               | 657                                 | 174                                       | --    | --             | --                            | --                              |      |
| 835-855      | Nov. 13, 1940 | 27                                     | --                 | 68                         | 21        | 240          | --             | 96          | 53            | 455                             | --                         | --            | --           | --                         | 983       | 255              | --                                  | --  | --    | --             |                               |                                 |      |
| 12-102       | Qal Rg        | 123                                    | Mar. 30, 1951      | 46                         | --        | 70           | 34             | 435         | --            | 520                             | 457                        | 268           | .4           | 2.0                        | .71       | 1,570            | 314                                 | 2,360                                     | 8.0   | 75             | --                            | --                              |      |
|              |               | 123                                    | June 6, 1953       | --                         | --        | --           | --             | --          | --            | 139                             | 180                        | 140           | --           | --                         | --        | --               | 95                                  | 1,060                                     | 8.2   | --             | --                            | --                              |      |
| 103          | Qal Rg        | 130                                    | Mar. 26, 1952      | 51                         | --        | 41           | 37             | 1,120       | --            | 458                             | 955                        | 940           | --           | .8                         | 1.3       | 3,370            | 254                                 | 5,340                                     | 8.2   | 91             | --                            | --                              |      |
| 104          | Qal Rg        | 50                                     | May 6, 1968        | --                         | --        | 274          | 42             | --          | --            | 260                             | 1,130                      | 1,090         | --           | --                         | --        | --               | 856                                 | 5,410                                     | 7.5   | --             | --                            | 0                               |      |
| 105          | Qal Rg        | 50                                     | June 16, 1968      | --                         | --        | 116          | 79             | --          | --            | 260                             | 1,340                      | 1,300         | --           | --                         | --        | --               | 614                                 | 6,730                                     | 7.9   | --             | --                            | 0                               |      |
|              |               | 50                                     | Dec. 18, 1969      | --                         | --        | 146          | 94             | --          | --            | 340                             | 1,500                      | 1,440         | --           | --                         | --        | --               | 751                                 | 7,260                                     | 8.0   | --             | --                            | 0                               |      |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-12-106 | Qtal 6  | 100-120<br>194-238<br>351-394          | Nov. 9, 1953       | 18                         | 0.01      | 70           | 34             | 349         | 10            | 126                             | 454                        | 355           | 1.8          | 4.5                        | 0.34      | 1,360            | 314                                 | 2,200                                    | 7.3   | 70             | --                            | --                              |    |    |
|              |         |  | Nov. 5, 1953       | 24                         | 0         | 69           | 48             | 1,310       | --            | 182                             | 1,150                      | 1,320         | 1.8          | .5                         | --        | 4,010            | 370                                 | 6,200                                    | 7.9   | 88             | --                            | --                              |    |    |
|              |         |  | Nov. 6, 1953       | 19                         | 0         | 152          | 80             | 1,790       | --            | 87                              | 2,470                      | 2,120         | 1.8          | --                         | --        | 5,680            | 708                                 | 8,650                                    | 7.5   | 85             | --                            | --                              |    |    |
| 108          | Qal Rg  | 128                                    | Mar. 30, 1951      | 45                         | --        | 94           | 59             | 933         | --            | 808                             | 939                        | 610           | .6           | 1.0                        | 1.2       | 3,080            | 477                                 | 4,510                                    | 7.7   | 81             | --                            | --                              |    |    |
| 115          | Qal Rg  | 92                                     | Mar. 14, 1952      | 41                         | --        | 65           | 21             | 692         | --            | 383                             | 607                        | 580           | --           | --                         | .8        | 2,190            | 248                                 | 3,460                                    | 8.3   | 86             | --                            | --                              |    |    |
| 116          | Qal Rg  | 125                                    | Mar. 30, 1951      | 47                         | --        | 34           | 9.6            | 371         | --            | 260                             | 351                        | 240           | --           | .5                         | .6        | 1,180            | 124                                 | 1,960                                    | 8.3   | 87             | --                            | --                              |    |    |
| 120          | --      | --                                     | Feb. 28, 1969      | --                         | --        | 72           | 16             | --          | --            | 348                             | 318                        | 147           | --           | --                         | --        | --               | 246                                 | 1,580                                    | 7.8   | --             | --                            | D, 79<br>0                      |    |    |
|              |         |  | Oct. 10, 1969      | --                         | --        | 82           | 17             | --          | --            | 276                             | 268                        | 115           | --           | --                         | --        | --               | 274                                 | 1,280                                    | 8.0   | --             | --                            |                                 |    |    |
| 122          | Qal Rg  | 65                                     | Aug. 8, 1972       | .7                         | .05       | 140          | 33             | 1,084       | --            | --                              | 969                        | 1,150         | .97          | --                         | --        | 3,767            | 486                                 | --                                       | 8.0   | 86             | --                            | --                              |    |    |
| 123          | Qal Rg  | 120                                    | Jan. 15, 1973      | --                         | .10       | 17           | 7.2            | 516         | --            | --                              | 490                        | 247           | .55          | --                         | --        | 1,494            | 72                                  | --                                       | 8.0   | 96             | --                            | --                              |    |    |
| 130          | Qal Rg  | 75                                     | May 8, 1973        | --                         | --        | --           | --             | --          | --            | --                              | --                         | 700           | --           | --                         | --        | --               | 634                                 | 4,900                                    | --    | --             | 20.2                          | --                              |    |    |
| 201          | Qal Rg  | 50                                     | May 2, 1968        | --                         | --        | 139          | 92             | --          | --            | 498                             | 2,370                      | 2,700         | --           | --                         | --        | --               | 726                                 | --                                       | 7.8   | --             | --                            | --                              |    |    |
| 202          | Qtal B  | 105<br>130<br>160<br>203               | --                 | --                         | --        | --           | --             | --          | --            | --                              | 411                        | 418           | --           | --                         | --        | 1,310            | 92                                  | --                                       | 9.1   | --             | --                            | --                              |    |    |
|              |         |  | --                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | 418           | 410          | --                         | --        | --               | 1,530                               | 111                                      | --    | 8.7            | --                            | --                              | -- |    |
|              |         |  | --                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 908          | 710                        | --        | --               | --                                  | 2,730                                    | 342   | --             | 8.3                           | --                              | -- | -- |
|              |         |  | --                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | --                                  | 2,740                                    | 294   | --             | 8.4                           | --                              | -- | -- |
| 204          | Qtal B  | 382<br>540                             | Jan. 10, 1952      | 18                         | .30       | 69           | 57             | 108         | --            | 246                             | 166                        | 187           | 1.1          | .2                         | --        | 782              | 406                                 | 1,340                                    | 6.6   | 37             | --                            | --                              |    |    |
|              |         |  | July 6, 1956       | --                         | --        | --           | --             | --          | --            | --                              | 256                        | --            | 112          | --                         | --        | --               | --                                  | 305                                      | 1,160 | 8.3            | --                            | --                              | -- | -- |
| 301          | Qtal B  | 425                                    | June 8, 1949       | --                         | --        | --           | --             | --          | --            | --                              | 285                        | 53            | --           | --                         | --        | 628              | 352                                 | --                                       | 7.1   | --             | --                            | --                              |    |    |
| 401          | Qal Rg  | 127                                    | June 12, 1942      | 46                         | --        | 72           | 10             | --          | --            | 49                              | 357                        | 350           | --           | --                         | --        | 1,070            | 221                                 | --                                       | 7.8   | --             | --                            | --                              |    |    |
| 402          | --      | --                                     | do                 | 70                         | --        | 138          | 11             | 676         | --            | 44                              | 573                        | 870           | --           | --                         | --        | 2,210            | --                                  | --                                       | 7.6   | --             | --                            | --                              |    |    |
| 404          | Qal Rg  | 92                                     | Dec. 10, 1953      | --                         | .1        | 39           | 10             | 244         | --            | --                              | 288                        | 92            | .5           | --                         | --        | 948              | 139                                 | --                                       | 7.9   | --             | --                            | --                              |    |    |
| 406          | Qal Rg  | 127                                    | Dec. 24, 1945      | --                         | --        | --           | --             | --          | --            | 35                              | --                         | 580           | --           | --                         | --        | 2,085            | 280                                 | --                                       | --    | --             | --                            | --                              |    |    |
| 407          | Qal Rg  | 110                                    | June 12, 1942      | 47                         | --        | 73           | 9              | 289         | --            | 51                              | 313                        | 340           | --           | --                         | --        | 956              | 219                                 | --                                       | 7.7   | --             | --                            | --                              |    |    |
| 525          | Qtal B  | 600                                    | Sept. 22, 1957     | 40                         | --        | 114          | 42             | 1,274       | --            | 71                              | 1,750                      | 790           | --           | --                         | --        | 4,080            | 460                                 | 4,200                                    | 7.8   | --             | --                            | --                              |    |    |
| 601          | Qal Rg  | 50                                     | Apr. 30, 1968      | --                         | --        | 940          | 404            | --          | --            | 492                             | 4,240                      | 11,400        | --           | --                         | --        | --               | 4,010                               | 35,300                                   | 7.2   | --             | --                            | --                              |    |    |
| 602          | Qtal B  | 1,690<br>1,690                         | Feb. 4, 1953       | 18                         | .3        | 80           | --             | 93          | --            | 323                             | 105                        | 131           | 5.6          | .4                         | --        | 652              | 356                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |         |  | June 9, 1953       | 20                         | --        | 46           | 32             | 119         | --            | 311                             | 99                         | 96            | 96           | 4.8                        | 0         | --               | 570                                 | 246                                      | 987   | 7.6            | 51                            | --                              | -- |    |
| 603          | Qtal B  | 502                                    | Oct. 10, 1953      | 22                         | .02       | 26           | 26             | 142         | 7.5           | 318                             | 111                        | 60            | 2.8          | 2.6                        | .44       | 579              | 168                                 | 942                                      | 8.1   | 63             | --                            | --                              |    |    |
| 605          | Qtal B  | 169                                    | June 10, 1952      | 14                         | --        | 24           | 19             | 179         | --            | 365                             | 138                        | 57            | 1.8          | .2                         | --        | 638              | 138                                 | 1,020                                    | 7.9   | 74             | --                            | --                              |    |    |
| 606          | Qtal B  | 140                                    | June 26, 1953      | 24                         | --        | 91           | 52             | 390         | --            | 396                             | 439                        | 530           | --           | 1.6                        | --        | 1,560            | 441                                 | 3,500                                    | 7.8   | 66             | --                            | --                              |    |    |
| 13-202       | Qtal G  | 814<br>814<br>814                      | Oct. 6, 1952       | 30                         | --        | 40           | 13             | 50          | --            | 207                             | 42                         | 29            | 1.2          | 6.6                        | --        | 114              | 154                                 | 514                                      | 7.7   | 42             | --                            | --                              |    |    |
|              |         |  | May 10, 1956       | --                         | --        | --           | --             | --          | --            | --                              | 202                        | --            | 34           | --                         | 7.5       | --               | --                                  | 150                                      | 535   | 7.5            | --                            | --                              | -- |    |
|              |         |  | June 2, 1975       | --                         | --        | 49           | 14             | --          | --            | --                              | 200                        | 56            | 59           | --                         | --        | --               | --                                  | 180                                      | 638   | 7.8            | --                            | --                              | -- |    |
| 203          | Qtal G  | 806<br>806<br>806<br>806<br>806        | Mar. 11, 1942      | 37                         | .01       | 41           | 14             | 55          | --            | 204                             | 49                         | 38            | 1.6          | 5.0                        | --        | 340              | 160                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |         |  | Sept. 17, 1942     | --                         | --        | 39           | 13             | 56          | --            | 204                             | 46                         | 38            | --           | 5.0                        | --        | 298              | 151                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |         |  | Mar. 25, 1943      | --                         | --        | 42           | 13             | 53          | --            | 203                             | 46                         | 39            | --           | 5.8                        | --        | 299              | 158                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |         |  | Feb. 15, 1944      | --                         | --        | 43           | 14             | 51          | --            | 201                             | 47                         | 39            | --           | 8.4                        | --        | 301              | 165                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |         |  | May 8, 1944        | --                         | --        | 40           | 13             | 59          | --            | 206                             | 47                         | 42            | --           | 5.5                        | --        | 308              | 154                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |         |  | May 22, 1945       | --                         | --        | 43           | 14             | 55          | --            | 183                             | 55                         | 42            | --           | 5.1                        | --        | 360              | 165                                 | --                                       | --    | --             | --                            |                                 |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer      | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)    | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |    |
|--------------|--------------|--|--------------------|----------------------------|--------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|----|----|
| JL-49-13-203 | Qtal 6       | 806                                    | Mar. 25, 1946      | --                         | --           | 42           | 14             | 54          | --            | 198                             | 36                         | 47            | --           | 3.8                        | --        | 386              | 162                                 | --                                       | --  | --             | --                            | --                              |    |    |    |
|              |              | 806                                    | Apr. 28, 1947      | --                         | --           | --           | --             | --          | --            | 204                             | --                         | 48            | --           | --                         | --        | --               | --                                  | 578                                      | --  | --             | --                            | --                              | -- |    |    |
|              |              | 806                                    | June 7, 1948       | 39                         | --           | 45           | 15             | 63          | --            | 210                             | 52                         | 52            | --           | 5.4                        | --        | 377              | 166                                 | 604                                      | --  | 45             | --                            | --                              | -- |    |    |
|              |              | 806                                    | Apr. 21, 1949      | 37                         | --           | 43           | 14             | 80          | --            | 198                             | 55                         | 50            | --           | 6.0                        | --        | 372              | 160                                 | 595                                      | 7.9 | 44             | --                            | --                              | -- |    |    |
|              |              | 806                                    | Feb. 9, 1950       | --                         | --           | --           | --             | --          | --            | 199                             | --                         | --            | --           | --                         | --        | --               | --                                  | 162                                      | 589 | 8.1            | --                            | --                              | -- |    |    |
|              |              | 806                                    | Mar. 24, 1951      | --                         | --           | --           | --             | --          | --            | 195                             | --                         | 53            | --           | --                         | --        | --               | --                                  | 109                                      | 595 | 7.5            | --                            | --                              | -- | -- |    |
|              |              | 806                                    | May 31, 1956       | --                         | --           | --           | --             | --          | --            | 200                             | --                         | 51            | --           | --                         | --        | --               | --                                  | 167                                      | 626 | 7.6            | --                            | --                              | -- | -- |    |
|              |              | 806                                    | Sept. 20, 1957     | --                         | .02          | 60           | 13             | --          | --            | 199                             | 72                         | 57            | 1.3          | --                         | --        | --               | 401                                 | 204                                      | --  | 7.6            | --                            | --                              | -- | -- |    |
|              |              | 806                                    | Feb. 11, 1958      | --                         | .07          | 46           | 13             | --          | --            | 215                             | 65                         | 71            | 1.5          | --                         | --        | --               | 448                                 | 168                                      | --  | 8.6            | --                            | --                              | -- | -- |    |
|              |              | 806                                    | Aug. 7, 1967       | --                         | --           | --           | --             | --          | --            | 182                             | 76                         | 70            | --           | --                         | --        | --               | --                                  | 163                                      | 677 | 7.7            | --                            | --                              | -- | -- |    |
| 806          | June 2, 1975 | --                                     | --                 | 49                         | 14           | --           | --             | 200         | 56            | 59                              | --                         | --            | --           | --                         | --        | 180              | 638                                 | 7.8                                      | --  | --             | --                            | --                              |    |    |    |
| 204          | Qtal 6       | 917                                    | Mar. 11, 1942      | 32                         | .01          | 36           | 13             | 40          | --            | 184                             | 36                         | 25            | .8           | 6.8                        | --        | 276              | 143                                 | --                                       | --  | --             | --                            | --                              | -- |    |    |
|              |              | 917                                    | Sept. 17, 1942     | --                         | --           | 35           | 12             | 41          | --            | 181                             | 37                         | 25            | --           | 5.0                        | --        | --               | 137                                 | --                                       | --  | --             | --                            | --                              | -- | -- |    |
|              |              | 917                                    | Mar. 25, 1943      | --                         | --           | 38           | 12             | 36          | --            | 180                             | 32                         | 26            | --           | 6.0                        | --        | 36               | 144                                 | --                                       | --  | --             | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | Feb. 15, 1944      | --                         | --           | 36           | 12             | 39          | --            | 163                             | 34                         | 25            | --           | 10.0                       | --        | --               | 139                                 | --                                       | --  | --             | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | May 8, 1944        | --                         | --           | 34           | 13             | 34          | --            | 166                             | 35                         | 24            | --           | 6.0                        | --        | --               | 138                                 | --                                       | --  | --             | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | May 22, 1945       | --                         | --           | 35           | 12             | 38          | --            | 157                             | 35                         | 25            | --           | 7.2                        | --        | --               | 278                                 | 139                                      | --  | --             | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | Mar. 25, 1946      | --                         | --           | 34           | 13             | 42          | --            | 152                             | 28                         | 29            | --           | 6.5                        | --        | --               | 304                                 | 138                                      | --  | --             | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | Apr. 28, 1947      | --                         | --           | --           | --             | --          | --            | 184                             | --                         | 28            | --           | --                         | --        | --               | --                                  | --                                       | 447 | --             | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | June 7, 1948       | 32                         | --           | 34           | 14             | 44          | --            | 180                             | 39                         | 32            | --           | 6.7                        | --        | --               | 290                                 | 142                                      | 467 | --             | 40                            | --                              | -- | -- | -- |
|              |              | 917                                    | Apr. 21, 1949      | 29                         | --           | 34           | 13             | 43          | --            | 178                             | 37                         | 30            | --           | 7.2                        | --        | --               | 288                                 | 138                                      | 458 | 8.0            | 41                            | --                              | -- | -- | -- |
|              |              | 917                                    | Feb. 9, 1950       | --                         | --           | --           | --             | --          | --            | 178                             | --                         | 29            | --           | --                         | --        | --               | --                                  | 139                                      | 457 | 8.1            | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | Mar. 24, 1951      | --                         | --           | --           | --             | --          | --            | 176                             | --                         | 32            | --           | --                         | --        | --               | --                                  | 139                                      | 460 | 7.5            | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | Sept. 20, 1955     | --                         | --           | --           | --             | --          | --            | 181                             | --                         | 33            | --           | --                         | --        | --               | --                                  | 142                                      | 479 | 7.8            | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | Apr. 10, 1956      | --                         | --           | --           | --             | --          | --            | 180                             | --                         | 36            | --           | --                         | --        | --               | --                                  | 143                                      | 476 | 7.8            | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | Feb. 26, 1958      | --                         | .02          | 36           | 14             | --          | --            | 180                             | 42                         | 36            | .9           | --                         | --        | --               | 293                                 | 146                                      | --  | 8.0            | --                            | --                              | -- | -- | -- |
|              |              | 917                                    | Aug. 7, 1967       | --                         | --           | --           | --             | --          | --            | 179                             | 47                         | 31            | --           | --                         | --        | --               | --                                  | 166                                      | 489 | 7.7            | --                            | --                              | -- | -- | -- |
|              |              | 205                                    | Qtal 6             | 330-344                    | June 3, 1937 | 16           | --             | --          | --            | --                              | --                         | --            | --           | 93                         | --        | --               | --                                  | 481                                      | 172 | --             | --                            | --                              | -- | -- | -- |
| 207          | Qtal 6       | 280                                    | Aug. 10, 1966      | 21                         | .14          | 63           | 36             | 50          | --            | 248                             | 83                         | 45            | .7           | 13                         | 0.05      | 416              | 306                                 | 715                                      | 7.4 | 17             | 0.7                           | --                              | -- |    |    |
| 209          | Qtal 6       | 968-1,016                              | Aug. 30, 1953      | 3.8                        | .04          | 31           | 14             | 301         | 8.4           | 140                             | 477                        | 138           | 1.6          | 1.0                        | --        | 1,030            | 135                                 | 1,660                                    | 7.4 | 82             | --                            | --                              | -- |    |    |
|              |              | 1,068-1,114                            | Sept. 1, 1953      | 4.4                        | .01          | 27           | 9.5            | 253         | 6.7           | 183                             | 328                        | 126           | 2.8          | --                         | .34       | 848              | 106                                 | 1,380                                    | 7.9 | 83             | --                            | --                              | -- |    |    |
| 210          | Qtal 6       | 300                                    | May 4, 1937        | --                         | --           | 36           | 14             | 33          | --            | 172                             | 50                         | 14            | --           | 8.3                        | --        | 240              | 147                                 | --                                       | --  | --             | --                            | --                              | -- |    |    |
| 211          | Qtal 6       | 569                                    | Apr. 8, 1939       | 26                         | --           | 33           | 12             | 65          | --            | 183                             | 99                         | 16            | --           | --                         | --        | 295              | 130                                 | --                                       | 7.5 | --             | --                            | --                              | -- |    |    |
|              |              | 214                                    | July 1937          | 39                         | --           | --           | --             | --          | --            | --                              | --                         | 62            | --           | --                         | --        | --               | 568                                 | 242                                      | --  | --             | --                            | --                              | -- | -- |    |
|              |              | 334-352                                | do                 | 39                         | --           | --           | --             | --          | --            | --                              | --                         | 92            | --           | --                         | --        | --               | 574                                 | 341                                      | --  | --             | --                            | --                              | -- | -- |    |
| 486-505      | do           | 33                                     | --                 | --                         | --           | --           | --             | --          | --            | 29                              | --                         | --            | --           | --                         | 315       | 187              | --                                  | --                                       | --  | --             | --                            | --                              | -- |    |    |
| 215          | Qtal 6       | 330                                    | Feb. 18, 1977      | --                         | --           | 43           | 15             | --          | --            | 204                             | 51                         | .18           | --           | --                         | --        | 347              | 170                                 | 496                                      | 7.9 | --             | --                            | --                              | -- |    |    |
| 302          | Qtal 6       | 812                                    | May 10, 1951       | 42                         | .03          | 29           | 11             | 126         | --            | 194                             | 95                         | 90            | 1.1          | 5.2                        | --        | 482              | 118                                 | 809                                      | 8.1 | 70             | --                            | --                              | -- |    |    |
|              |              | 812                                    | May 15, 1956       | 39                         | --           | 29           | 10             | 124         | --            | 192                             | 92                         | 87            | 1.1          | 4.3                        | --        | 480              | 114                                 | 788                                      | 7.6 | 70             | --                            | --                              | -- |    |    |
|              |              | 812                                    | Sept. 24, 1958     | 36                         | .03          | 54           | 19             | 83          | --            | 201                             | 91                         | 88            | 1.1          | 8.7                        | --        | 482              | 212                                 | 784                                      | 7.7 | 46             | --                            | --                              | -- |    |    |
|              |              | 812                                    | Jan. 26, 1973      | 9.7                        | .16          | 27           | 8.2            | 116         | 11.9          | --                              | 78                         | 59            | 1.42         | 2.0                        | .10       | 290              | 100                                 | 676                                      | 8.3 | --             | --                            | --                              | -- |    |    |
|              |              | 812                                    | Jan. 25, 1974      | 44                         | .23          | 24           | 18.9           | 193         | 9.5           | --                              | 86                         | 70            | 1.15         | 2.8                        | .03       | 429              | 94                                  | 610                                      | 7.7 | --             | --                            | --                              | -- |    |    |
|              |              | 812                                    | Feb. 15, 1975      | --                         | .56          | 25           | 8.8            | 196         | 8.8           | --                              | --                         | --            | --           | --                         | --        | --               | --                                  | --                                       | --  | --             | --                            | --                              | -- | -- |    |
| 303          | Qtal 6       | 799                                    | July 24, 1956      | 38                         | --           | 18           | 5.6            | 83          | --            | 161                             | 48                         | 4.2           | 1.0          | 5.5                        | --        | 328              | 68                                  | 511                                      | 7.9 | 73             | --                            | --                              | -- |    |    |
|              |              | 799                                    | June 5, 1957       | 38                         | --           | 20           | 6.6            | 92          | --            | 166                             | 58                         | 51            | .9           | 7.1                        | --        | 358              | 76                                  | 569                                      | 7.5 | 73             | --                            | --                              | -- |    |    |
|              |              | 799                                    | Jan. 26, 1973      | 6.8                        | .06          | 19           | 16.4           | 85          | 9.7           | --                              | 58                         | 39            | 1.0          | 1.6                        | .10       | 239              | 80                                  | 507                                      | 8.4 | --             | --                            | --                              | -- |    |    |
|              |              | 799                                    | Jan. 25, 1974      | 45                         | .05          | 16           | 16.4           | 72          | 9.8           | --                              | 52                         | 48            | .94          | 3.0                        | .18       | 311              | 70                                  | 450                                      | 7.5 | --             | --                            | --                              | -- |    |    |
|              |              | 799                                    | Feb. 15, 1975      | 30                         | .05          | 17           | 5.8            | 70          | 8.4           | --                              | 55                         | 40            | .47          | 1.9                        | .13       | 339              | 84                                  | 466                                      | 7.5 | --             | --                            | --                              | -- |    |    |
|              |              | 799                                    | June 1, 1975       | 32                         | .38          | 36           | 10.4           | 149         | 10.3          | --                              | 130                        | 130           | .7           | 2.0                        | .09       | 556              | 124                                 | 1,040                                    | 7.8 | --             | --                            | --                              | -- |    |    |
| 304          | Qtal 6       | 812                                    | Feb. 16, 1953      | 38                         | --           | 27           | 9.8            | 130         | --            | 193                             | 97                         | 89            | 1.2          | 4.3                        | --        | 492              | 108                                 | 808                                      | 7.9 | 72             | --                            | --                              | -- |    |    |
|              |              | 812                                    | July 20, 1955      | 43                         | .01          | 26           | 8.4            | 125         | --            | 192                             | 93                         | 77            | 1.1          | 5.5                        | --        | 480              | 100                                 | 767                                      | 8.2 | 73             | --                            | --                              |    |    |    |
|              |              | 812                                    | Sept. 24, 1958     | 42                         | .04          | 24           | 8.2            | 121         | --            | 204                             | 85                         | 65            | 1.1          | 7.1                        | --        | 453              | 94                                  | 713                                      | 7.8 | 74             | --                            | --                              |    |    |    |
|              |              | 812                                    | Apr. 4, 1960       | 34                         | .01          | 27           | 8.8            | 120         | --            | 188                             | 88                         | 79            | 1.4          | 5.6                        | --        | 462              | 104                                 | 743                                      | 7.6 | 72             | --                            | --                              |    |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|
| JL-49-13-304 | Qcal 6        | 812                                    | Dec. 29, 1972      | 10.5                       | 0.06      | 26           | 8              | 125         | 9.2           | --                              | 44                         | 72            | 1.52         | 1.6                        | 0.28      | 345              | 96                                  | 624                                      | 8.3 | --             | --                            | --                              |    |
|              |               | 812                                    | Jan. 2, 1974       | 31                         | .14       | 23           | 9.4            | 107         | 13.4          | --                              | 80                         | 88            | 1.3          | 2.3                        | .25       | 451              | 92                                  | 640                                      | 8.0 | --             | --                            | --                              |    |
|              |               | 812                                    | Jan. 15, 1975      | 32                         | .05       | 22           | .8             | 16          | 2.5           | --                              | 97                         | 68            | 3.2          | 2.5                        | .24       | 442              | 108                                 | 645                                      | 7.3 | --             | --                            | --                              |    |
| 305          | Qtal 6        | 816                                    | Jan. 4, 1956       | 36                         | --        | 23           | 7.8            | 100         | --            | 173                             | 70                         | 60            | 1.0          | 4.8                        | --        | 388              | 89                                  | 609                                      | 7.9 | 71             | --                            | --                              |    |
|              |               | 816                                    | Sept. 24, 1958     | 32                         | .04       | 22           | 7.6            | 97          | --            | 171                             | 68                         | 57            | .8           | 4.8                        | --        | 373              | 86                                  | 605                                      | 7.8 | 71             | --                            | --                              |    |
|              |               | 816                                    | Apr. 4, 1960       | 32                         | .02       | 20           | 7.6            | 100         | --            | 169                             | 70                         | 57            | 1.0          | 5.0                        | --        | 376              | 82                                  | 600                                      | 7.6 | 73             | --                            | --                              |    |
|              |               | 816                                    | Jan. 26, 1973      | 8.8                        | .06       | 21           | 6.5            | 89          | 12.3          | --                              | 60                         | 45            | 1.12         | 2.0                        | .10       | 238              | 80                                  | 546                                      | 8.4 | --             | --                            | --                              |    |
|              |               | 816                                    | Jan. 25, 1974      | 42                         | .05       | 17           | 17             | 77          | 10.1          | --                              | 55                         | 46            | .94          | 2.6                        | .19       | 312              | 66                                  | 470                                      | 7.6 | --             | --                            | --                              |    |
|              |               | 816                                    | Feb. 15, 1975      | 28                         | .05       | 17           | 10.2           | 77          | 8.8           | --                              | 51                         | 42            | .68          | 1.7                        | .16       | 340              | 74                                  | 505                                      | 7.4 | --             | --                            | --                              |    |
| 306          | Qtal 6        | 242-284                                | Nov. 18, 1940      | 27                         | --        | 18           | 7.0            | 95          | --            | 170                             | 73                         | 39            | --           | --                         | --        | 347              | 74                                  | --                                       | --  | --             | --                            | --                              |    |
|              |               | 311-370                                | Nov. 20, 1940      | 30                         | --        | 20           | 7.0            | 68          | --            | 142                             | 58                         | 29            | --           | --                         | --        | 284              | 79                                  | --                                       | --  | --             | --                            | --                              |    |
|              |               | 416-440                                | Nov. 22, 1940      | 34                         | --        | 25           | 8.2            | 65          | --            | 133                             | 66                         | 31            | --           | --                         | --        | 299              | 97                                  | --                                       | --  | --             | --                            | --                              |    |
|              |               | 472-502                                | Nov. 23, 1940      | 22                         | --        | 21           | 7.5            | 66          | --            | 126                             | 53                         | 42            | --           | --                         | --        | 247              | 83                                  | --                                       | --  | --             | --                            | --                              |    |
|              |               | 557-600                                | do                 | 28                         | --        | 20           | 7.9            | 73          | --            | 133                             | 62                         | 39            | --           | --                         | --        | 296              | 82                                  | --                                       | --  | --             | --                            | --                              |    |
|              |               | 637-670                                | Nov. 27, 1940      | 26                         | --        | 20           | 7.3            | 75          | --            | 127                             | 58                         | 48            | --           | --                         | --        | 303              | 80                                  | --                                       | --  | --             | --                            | --                              |    |
|              |               | 693-718                                | Nov. 29, 1940      | 24                         | --        | 17           | 7.0            | 78          | --            | 122                             | 46                         | 59            | --           | --                         | --        | 307              | 72                                  | --                                       | --  | --             | --                            | --                              |    |
|              |               | 749-770                                | Dec. 2, 1940       | 26                         | --        | 18           | 6.1            | 89          | --            | 106                             | 58                         | 74            | --           | --                         | --        | 338              | 70                                  | --                                       | --  | --             | --                            | --                              | -- |
| 307          | Qtal 6        | 812                                    | Oct. 2, 1967       | 26                         | .05       | 27           | 8              | 119         | --            | 194                             | 86                         | 78            | --           | --                         | --        | 549              | 99                                  | 740                                      | 7.5 | --             | --                            | --                              |    |
| 502          | Qtal 6        | 758                                    | Sept. 11, 1935     | --                         | --        | 56           | 21             | 73          | --            | 193                             | 84                         | 96            | --           | 4.5                        | --        | 430              | 226                                 | --                                       | --  | --             | --                            | --                              |    |
|              |               | 758                                    | Apr. 22, 1936      | --                         | --        | --           | --             | --          | --            | 193                             | --                         | 88            | --           | --                         | --        | --               | 264                                 | 193                                      | --  | --             | --                            | --                              | -- |
|              |               | 758                                    | June 25, 1937      | 36                         | .13       | 56           | 20             | 71          | 7.4           | 195                             | 83                         | 94            | .9           | 6.7                        | --        | 477              | 222                                 | --                                       | --  | --             | --                            | --                              |    |
|              |               | 758                                    | June 11, 1940      | 39                         | .04       | 56           | 21             | 78          | --            | 204                             | 92                         | 92            | --           | 5.2                        | --        | 498              | 226                                 | --                                       | --  | 78             | --                            | --                              |    |
|              |               | 758                                    | June 16, 1941      | --                         | --        | 56           | 20             | 81          | --            | 204                             | 91                         | 91            | .9           | 6.8                        | --        | 447              | 222                                 | --                                       | --  | 81             | --                            | --                              |    |
|              |               | 758                                    | Sept. 19, 1941     | --                         | --        | 55           | 21             | 82          | --            | 208                             | 97                         | 88            | --           | 7.5                        | --        | 453              | 224                                 | --                                       | --  | --             | --                            | --                              |    |
|              |               | 758                                    | Apr. 28, 1947      | --                         | --        | --           | --             | --          | --            | 204                             | --                         | 92            | --           | --                         | --        | --               | 793                                 | --                                       | --  | --             | --                            | --                              | -- |
|              |               | 758                                    | Apr. 21, 1949      | 36                         | --        | 54           | 21             | 75          | --            | 196                             | 86                         | 91            | --           | 8.3                        | --        | 481              | 222                                 | 786                                      | 7.8 | 42             | --                            | --                              |    |
|              |               | 758                                    | Apr. 5, 1951       | 36                         | --        | 56           | 21             | 78          | --            | 202                             | 90                         | 92            | --           | 8.7                        | --        | 509              | 226                                 | 797                                      | 7.9 | 43             | --                            | --                              |    |
|              |               | 758                                    | May 10, 1956       | --                         | --        | --           | --             | --          | --            | 198                             | --                         | 89            | --           | --                         | --        | --               | 215                                 | 791                                      | --  | --             | 7.7                           | --                              | -- |
| 758          | Mar. 18, 1959 | --                                     | .02                | 50                         | 12        | --           | --             | 224         | 84            | 99                              | .4                         | --            | --           | --                         | 544       | 174              | --                                  | --                                       | 7.2 | --             | --                            |                                 |    |
| 503          | Qtal 6        | 916                                    | May 14, 1951       | 46                         | .08       | 41           | 24             | 45          | --            | 237                             | 52                         | 28            | .5           | 12                         | .13       | 356              | 201                                 | 573                                      | 7.7 | 33             | --                            | --                              |    |
|              |               | 916                                    | Sept. 22, 1951     | --                         | --        | --           | --             | --          | --            | 226                             | --                         | 26            | --           | --                         | --        | --               | 184                                 | 548                                      | 7.8 | --             | --                            | --                              |    |
|              |               | 916                                    | May 23, 1952       | 42                         | .02       | 40           | 20             | 47          | --            | 229                             | 48                         | 27            | .8           | 7.8                        | --        | 349              | 182                                 | 568                                      | 7.6 | 36             | --                            | --                              |    |
|              |               | 916                                    | Apr. 29, 1953      | 45                         | .01       | 42           | 22             | 45          | --            | 232                             | 50                         | 28            | .7           | --                         | --        | 376              | 196                                 | 566                                      | 7.8 | 33             | --                            | --                              |    |
|              |               | 916                                    | May 15, 1956       | 42                         | --        | 44           | 20             | 48          | --            | 231                             | 50                         | 32            | .7           | 9.6                        | --        | 360              | 192                                 | 577                                      | 7.5 | 35             | --                            | --                              |    |
|              |               | 916                                    | Aug. 11, 1958      | 42                         | .01       | 43           | 20             | 55          | --            | 237                             | 51                         | 36            | .6           | 11                         | --        | 376              | 190                                 | 593                                      | 7.6 | 39             | --                            | --                              |    |
|              |               | 916                                    | Aug. 9, 1973       | 16                         | .06       | 280          | 68             | 67          | 5.9           | --                              | 74                         | 136           | .12          | 3.1                        | .35       | 726              | 436                                 | 992                                      | 7.3 | --             | --                            | --                              |    |
|              |               | 916                                    | Sept. 15, 1974     | 35                         | .05       | 24           | 35             | 59          | 5.7           | --                              | --                         | 147           | .6           | 1.75                       | --        | 729              | 329                                 | 922                                      | 7.3 | --             | --                            | --                              |    |
|              |               | 916                                    | Sept. 19, 1975     | 39                         | .10       | 67           | 31             | 68          | 5.4           | --                              | --                         | 57            | .61          | 5.4                        | .15       | 575              | 278                                 | 775                                      | 7.8 | --             | --                            | --                              |    |
| 504          | Qtal 6        | 785                                    | July 6, 1932       | --                         | --        | --           | --             | --          | --            | --                              | --                         | 36            | --           | --                         | --        | 352              | 248                                 | --                                       | --  | --             | --                            | --                              |    |
|              |               | 785                                    | Jan. 5, 1935       | --                         | --        | --           | --             | --          | --            | 173                             | 40                         | 38            | --           | --                         | --        | --               | 147                                 | --                                       | --  | --             | --                            | --                              | -- |
|              |               | 785                                    | Apr. 23, 1936      | --                         | --        | 32           | 13             | 53          | --            | 178                             | 39                         | 41            | --           | 5                          | --        | 271              | 133                                 | --                                       | --  | --             | --                            | --                              | -- |
|              |               | 785                                    | Oct. 28, 1936      | --                         | --        | 34           | 13             | 49          | --            | 178                             | 36                         | 39            | --           | 7                          | --        | 266              | 138                                 | --                                       | --  | --             | --                            | --                              | -- |
|              |               | 785                                    | Apr. 17, 1937      | 32                         | .03       | 33           | 12             | 51          | 5.4           | 178                             | 36                         | 40            | .8           | 7.5                        | --        | 297              | 132                                 | --                                       | --  | 46             | --                            | --                              | -- |
|              |               | 785                                    | Sept. 29, 1938     | 31                         | --        | 33           | 14             | 57          | --            | 186                             | 45                         | 43            | --           | 5.3                        | --        | 308              | 140                                 | --                                       | --  | --             | --                            | --                              | -- |
|              |               | 785                                    | Aug. 5, 1949       | --                         | --        | --           | --             | --          | --            | --                              | 41                         | 48            | --           | --                         | --        | --               | 539                                 | --                                       | --  | --             | --                            | --                              | -- |
|              |               | 785                                    | Apr. 24, 1951      | 31                         | --        | 34           | 16             | 61          | --            | 204                             | 41                         | 50            | --           | 5                          | --        | 338              | 151                                 | 533                                      | 7.5 | 47             | --                            | --                              | -- |
|              |               | 785                                    | May 14, 1951       | 42                         | .06       | 42           | 18             | 41          | --            | 186                             | 48                         | 41            | .9           | 7.5                        | .02       | 340              | 179                                 | 542                                      | 7.5 | 33             | --                            | --                              |    |
|              |               | 785                                    | May 23, 1952       | 33                         | .03       | 34           | 13             | 56          | --            | 182                             | 39                         | 46            | .9           | 4.5                        | --        | 321              | 138                                 | 537                                      | 7.6 | 47             | --                            | --                              | -- |
|              |               | 785                                    | Apr. 29, 1953      | 39                         | .01       | 41           | 16             | 52          | --            | 187                             | 48                         | 50            | .9           | 7.5                        | --        | 346              | 168                                 | 564                                      | 7.8 | 40             | --                            | --                              | -- |
|              |               | 785                                    | July 20, 1955      | 38                         | 0         | 36           | 12             | 56          | --            | 181                             | 41                         | 44            | .7           | 7.3                        | --        | 327              | 140                                 | 536                                      | 8.1 | 47             | --                            | --                              | -- |
|              |               | 785                                    | May 15, 1956       | 35                         | 0         | 36           | 13             | 52          | --            | 182                             | 41                         | 40            | .9           | 6.7                        | --        | 314              | 143                                 | 509                                      | 7.3 | 44             | --                            | --                              | -- |
|              |               | 785                                    | Sept. 28, 1972     | 12                         | .06       | 44           | 14.6           | 144         | 4.4           | --                              | 45                         | 30            | 1.26         | 4.3                        | .79       | 375              | 160                                 | 510                                      | 7.6 | --             | --                            | --                              | -- |
|              |               | 785                                    | Sept. 28, 1973     | 21                         | .07       | 43           | 14.2           | 46          | 5             | --                              | 46                         | 35            | 1.3          | 3.4                        | .10       | 381              | 171                                 | 346                                      | 7.9 | --             | --                            | --                              | -- |
|              |               | 785                                    | Oct. 20, 1975      | 41                         | .10       | 46           | 15.2           | 43          | 4.9           | --                              | 62                         | 33            | .87          | 2.9                        | .22       | 335              | 165                                 | 535                                      | 8.0 | --             | --                            | --                              | -- |
| 505          | Qtal 6        | 784                                    | Sept. 17, 1937     | --                         | --        | 43           | 16             | 53          | --            | 176                             | 49                         | 62            | .5           | 5.5                        | --        | 316              | 173                                 | --                                       | --  | --             | --                            | --                              |    |
|              |               | 784                                    | May 14, 1951       | 30                         | .12       | 53           | 20             | 73          | --            | 189                             | 72                         | 97            | .7           | 4.5                        | .02       | 461              | 214                                 | 762                                      | 7.8 | 43             | --                            | --                              |    |
|              |               | 784                                    | May 23, 1952       | 32                         | .03       | 45           | 16             | 63          | --            | 177                             | 58                         | 74            | 1.0          | 5.0                        | --        | 388              | 178                                 | 658                                      | 7.9 | 44             | --                            | --                              |    |

See footnotes at end of table.



Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer        | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium Adsorption Ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|----------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-13-505 | Qtal 6         | 784                                    | Apr. 29, 1953      | 32                         | 0.02      | 48           | 17             | 68          | --            | 179                             | 65                         | 83            | 0.9          | 5.4                        | --        | 422              | 190                                 | 688                                      | 7.8 | 44             | --                            | --                              |    |    |
|              |                | 784                                    | May 15, 1956       | 31                         | 0         | 42           | 16             | 55          | --            | 170                             | 55                         | 60            | 1.2          | 5.8                        | --        | 350              | 170                                 | 579                                      | 7.6 | 41             | --                            | --                              |    |    |
|              |                | 784                                    | May 16, 1961       | 29                         | 0         | 38           | 13             | 52          | --            | 167                             | 48                         | 46            | 1.1          | 8.2                        | --        | 317              | 148                                 | 532                                      | 7.1 | 43             | --                            | --                              |    |    |
|              |                | 784                                    | Apr. 11, 1966      | 29                         | 0         | 38           | 14             | 49          | --            | 177                             | 43                         | 42            | 1.05         | 6.3                        | --        | 309              | 151                                 | 526                                      | 7.2 | 41             | --                            | --                              |    |    |
|              |                | 806                                    | Sept. 28, 1972     | 10.7                       | .21       | 40           | 13.6           | 93          | 4.4           | --                              | 41                         | 37            | 1.58         | 2.8                        | 0.12      | 322              | 216                                 | 550                                      | 7.5 | --             | --                            | --                              |    |    |
|              |                | 806                                    | Sept. 28, 1973     | 19                         | .05       | 37           | 12.8           | 59          | 4.6           | --                              | 44                         | 44            | 1.4          | 2.9                        | .10       | 363              | 149                                 | 420                                      | 7.8 | --             | --                            | --                              |    |    |
|              |                | 806                                    | Oct. 1, 1974       | 30                         | .20       | 35           | 12.3           | 49          | 5             | --                              | 51                         | 42            | 1.02         | 2.31                       | .20       | 344              | 124                                 | 464                                      | 7.6 | --             | --                            | --                              |    |    |
| 506          | Qtal 6         | 299-339                                | Feb. 26, 1953      | 18                         | .01       | 22           | 12             | 177         | 9.7           | 262                             | 178                        | 58            | 2.0          | 1.8                        | .20       | 636              | 104                                 | 976                                      | 8.0 | 77             | --                            | --                              |    |    |
|              |                | 736                                    | Apr. 5, 1953       | 34                         | .05       | 26           | 10             | 71          | 5.8           | 191                             | 28                         | 56            | .5           | 4.2                        | .10       | 330              | 106                                 | 545                                      | 8.1 | 58             | --                            | --                              |    |    |
| 507          | Qtal 6         | 600                                    | Jan. 6, 1932       | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 0            | --                         | 636       | 283              | --                                  | --                                       | --  | --             | --                            | --                              |    |    |
| 508          | Qtal 6         | 652                                    | July 6, 1932       | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 0            | --                         | 365       | 279              | --                                  | --                                       | --  | --             | --                            | --                              |    |    |
| 509          | Qtal 6         | 657                                    | do                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | 26            | --           | 0                          | --        | 408              | 216                                 | --                                       | --  | --             | --                            | --                              |    |    |
| 510          | Qtal 6         | 600                                    | do                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 0            | --                         | 785       | 278              | --                                  | --                                       | --  | --             | --                            | --                              |    |    |
| 511          | Qtal 6         | 753                                    | Oct. 2, 1959       | 34                         | .04       | 53           | 18             | 73          | --            | 192                             | 76                         | 84            | 1.0          | 7.7                        | .18       | 450              | 206                                 | 727                                      | 7.3 | 41             | --                            | --                              |    |    |
| 512          | Qtal 6         | 715                                    | Jan. 5, 1935       | --                         | --        | --           | --             | --          | --            | 190                             | 60                         | 52            | --           | --                         | --        | --               | 196                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 715                                    | Sept. 16, 1935     | --                         | --        | 44           | 16             | 49          | --            | 184                             | 59                         | 46            | --           | 6.7                        | --        | 311              | 176                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 715                                    | Apr. 22, 1936      | --                         | --        | --           | --             | --          | --            | 182                             | --                         | 42            | --           | --                         | --        | --               | --                                  | 206                                      | --  | --             | --                            | --                              | -- |    |
|              |                | 715                                    | Oct. 28, 1936      | --                         | --        | 44           | 16             | 44          | --            | 182                             | 54                         | 42            | --           | 8.8                        | --        | 298              | 176                                 | --                                       | --  | --             | --                            | --                              | -- |    |
|              |                | 715                                    | Apr. 25, 1937      | --                         | --        | 45           | 17             | 50          | --            | 184                             | 64                         | 47            | --           | 9.4                        | --        | 323              | 182                                 | --                                       | --  | --             | --                            | --                              | -- |    |
|              |                | 715                                    | Oct. 27, 1937      | --                         | --        | 43           | 16             | 43          | --            | 188                             | 46                         | 41            | --           | 8.3                        | --        | 289              | 173                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | Sept. 23, 1938     | 36                         | --        | 44           | 16             | 52          | --            | 192                             | 60                         | 45            | --           | 7.5                        | --        | 355              | 176                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | June 10, 1940      | --                         | --        | 46           | 16             | 52          | --            | 194                             | 59                         | 46            | --           | 9.4                        | --        | 324              | 181                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | Dec. 11, 1940      | --                         | --        | 46           | 16             | 52          | --            | 196                             | 62                         | 45            | --           | 7.0                        | --        | 325              | 181                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | June 16, 1941      | --                         | --        | 44           | 16             | 51          | --            | 190                             | 56                         | 46            | --           | 7                          | 7.6       | --               | 315                                 | 176                                      | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | Sept. 19, 1941     | --                         | --        | 43           | 16             | 52          | --            | 193                             | 56                         | 44            | --           | 9.0                        | --        | 315              | 174                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | June 3, 1942       | --                         | --        | 44           | 16             | 52          | --            | 194                             | 55                         | 46            | --           | 9.2                        | --        | 318              | 176                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | Sept. 16, 1942     | --                         | --        | 49           | 18             | 53          | --            | 201                             | 68                         | 52            | --           | 4.5                        | --        | 344              | 196                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | Mar. 25, 1943      | --                         | --        | 51           | 18             | 49          | --            | 202                             | 65                         | 49            | --           | 7.0                        | --        | 338              | 202                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | May 22, 1945       | --                         | --        | 51           | 19             | 52          | --            | 200                             | 69                         | 51            | --           | 13.0                       | --        | 423              | 206                                 | --                                       | --  | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | June 7, 1948       | 42                         | --        | 46           | 17             | 58          | --            | 200                             | 60                         | 54            | --           | 9.6                        | --        | 402              | 185                                 | 616                                      | --  | --             | --                            | 40                              | -- | -- |
|              |                | 715                                    | Apr. 21, 1949      | 42                         | --        | 45           | 18             | 55          | --            | 198                             | 64                         | 48            | --           | 11                         | --        | 386              | 186                                 | 608                                      | 7.8 | 39             | --                            | --                              | -- |    |
|              |                | 715                                    | Feb. 10, 1950      | --                         | --        | --           | --             | --          | --            | 192                             | --                         | 48            | --           | --                         | --        | --               | 182                                 | 608                                      | 8.3 | --             | --                            | --                              | -- | -- |
|              |                | 715                                    | Mar. 27, 1951      | 40                         | --        | 48           | 19             | 51          | --            | 194                             | 65                         | 52            | --           | 11                         | --        | 401              | 198                                 | 608                                      | 8.1 | 36             | --                            | --                              | -- |    |
|              |                | 715                                    | Apr. 10, 1956      | --                         | --        | --           | --             | --          | --            | 189                             | 52                         | --            | --           | --                         | --        | --               | 198                                 | 641                                      | 7.7 | --             | --                            | --                              | -- | -- |
| 715          | Sept. 18, 1958 | --                                     | .02                | 57                         | 19        | --           | --             | 198         | 60            | 56                              | 1.0                        | --            | --           | --                         | 450       | 220              | --                                  | 7.5                                      | --  | --             | --                            | --                              |    |    |
| 515          | Qtal 6         | 869                                    | May 6, 1937        | --                         | --        | 107          | 47             | 90          | --            | 228                             | 56                         | 288           | --           | 5.5                        | --        | 706              | 460                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 869                                    | Sept. 16, 1942     | --                         | --        | 143          | 63             | 105         | --            | 178                             | 53                         | 452           | --           | 5.0                        | --        | 911              | 616                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 869                                    | Feb. 10, 1950      | 34                         | --        | 332          | 143            | 159         | --            | 155                             | 115                        | 1,070         | --           | 7.5                        | --        | 1,940            | 1,420                               | 3,660                                    | 7.3 | 20             | --                            | --                              |    |    |
|              |                | 869                                    | Mar. 22, 1951      | 32                         | --        | 352          | 148            | 170         | --            | 155                             | 125                        | 1,130         | --           | 5.5                        | --        | 2,060            | 1,490                               | 3,820                                    | 7.2 | 20             | --                            | --                              |    |    |
| 516          | Qtal 6         | 860                                    | Mar. 26, 1943      | --                         | --        | 144          | 71             | 83          | --            | 196                             | 64                         | 425           | --           | 6.3                        | --        | 899              | 651                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 860                                    | May 23, 1945       | --                         | --        | 240          | 124            | 95          | --            | 132                             | 95                         | 753           | --           | 5.4                        | --        | 1,408            | 1,110                               | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 860                                    | Mar. 26, 1946      | --                         | --        | 260          | 139            | 95          | --            | 141                             | 99                         | 840           | --           | 4.0                        | --        | 1,320            | 1,220                               | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 860                                    | Apr. 28, 1947      | --                         | --        | --           | --             | --          | --            | 174                             | --                         | 1,020         | --           | --                         | --        | --               | 1,350                               | 3,420                                    | --  | --             | --                            | --                              |    |    |
| 518          | Qtal 6         | 864                                    | Jan. 5, 1935       | --                         | --        | --           | --             | --          | --            | 185                             | 48                         | 202           | --           | --                         | --        | --               | 218                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | Apr. 23, 1936      | --                         | --        | 88           | 39             | 73          | --            | 194                             | 48                         | 230           | --           | 6.3                        | --        | 580              | 380                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | Oct. 28, 1936      | --                         | --        | 100          | 49             | 72          | --            | 188                             | 48                         | 282           | --           | 7.3                        | --        | 651              | 451                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | Nov. 16, 1939      | --                         | --        | 108          | 55             | 71          | --            | 182                             | 55                         | 312           | --           | 3.2                        | --        | 737              | 496                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | June 11, 1940      | --                         | --        | 124          | 64             | 66          | --            | 200                             | 72                         | 335           | --           | 4.4                        | --        | 764              | 572                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | Nov. 29, 1940      | --                         | --        | 112          | 55             | 86          | --            | 200                             | 68                         | 328           | --           | 5.6                        | --        | 743              | 506                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | June 17, 1941      | --                         | --        | 136          | 67             | 91          | --            | 178                             | 68                         | 420           | --           | 3                          | 4.0       | --               | 875                                 | 615                                      | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | June 2, 1942       | --                         | --        | 161          | 86             | 100         | --            | 137                             | 76                         | 515           | --           | 7.5                        | --        | 1,040            | 756                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | Sept. 15, 1942     | --                         | --        | 167          | 91             | 103         | --            | 132                             | 77                         | 548           | --           | 5.0                        | --        | 1,090            | 791                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | Feb. 17, 1944      | --                         | --        | 208          | 109            | 90          | --            | 149                             | 85                         | 650           | --           | 12                         | --        | 1,240            | 967                                 | --                                       | --  | --             | --                            | --                              |    |    |
|              |                | 864                                    | May 9, 1944        | --                         | --        | 196          | 111            | 111         | --            | 148                             | 91                         | 685           | --           | 5.5                        | --        | 1,270            | 946                                 | --                                       | --  | --             | --                            | --                              |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft.) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------|---|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|
| JL-49-13-519 | Qtal 6  | 852                                     | Sept. 18, 1941     | --                         | --        | 136          | 57             | 80          | --            | 150                             | 51                         | 402           | --           | 5.2                        | --        | 805              | 574                                 | --                                       | --  | --             | --                            | --                              |    |
|              |         | 852                                     | June 2, 1942       | --                         | --        | 125          | 53             | 96          | --            | 166                             | 50                         | 388           | --           | 5.6                        | --        | 799              | 530                                 | --                                       | --  | --             | --                            | --                              | -- |
|              |         | 852                                     | June 9, 1948       | 35                         | --        | 293          | 130            | 148         | --            | 154                             | 102                        | 958           | --           | 4.3                        | --        | 1,750            | 1,270                               | 3,360                                    | --  | --             | 20                            | --                              | -- |
|              |         | 852                                     | Apr. 21, 1949      | 33                         | --        | 280          | 123            | 154         | --            | 160                             | 103                        | 920           | --           | 5.9                        | --        | 1,700            | 1,200                               | 3,210                                    | --  | 7.4            | 22                            | --                              | -- |
|              |         | 852                                     | Mar. 22, 1951      | 32                         | --        | 352          | 148            | 170         | --            | 155                             | 125                        | 1,130         | --           | 5.5                        | --        | 2,040            | 1,490                               | 3,820                                    | --  | 7.2            | 20                            | --                              | -- |
|              |         | 852                                     | Sept. 22, 1951     | 32                         | --        | 328          | 170            | 244         | --            | 154                             | 135                        | 1,260         | --           | 5.0                        | --        | 2,250            | 1,520                               | 4,210                                    | --  | 7.3            | 19                            | --                              | -- |
|              |         | 852                                     | Mar. 25, 1952      | 32                         | --        | 398          | 179            | 187         | --            | 150                             | 141                        | 1,320         | --           | 4.0                        | --        | 2,340            | 1,730                               | 4,370                                    | --  | 7.7            | 20                            | --                              | -- |
|              |         | 852                                     | May 26, 1952       | --                         | --        | 393          | 172            | 195         | --            | 150                             | 143                        | 1,300         | --           | 8.0                        | --        | 2,360            | 1,680                               | 4,390                                    | --  | 7.7            | 20                            | --                              | -- |
|              |         | 852                                     | May 19, 1953       | --                         | --        | 426          | 188            | 224         | --            | 150                             | 159                        | 1,440         | 0.2          | 5.5                        | --        | 2,550            | 1,840                               | 4,770                                    | --  | 7.3            | 21                            | --                              | -- |
|              |         | 852                                     | Oct. 28, 1955      | --                         | --        | --           | --             | --          | --            | --                              | 140                        | --            | 1,500        | --                         | --        | --               | 1,840                               | 4,850                                    | --  | 7.9            | --                            | --                              | -- |
| 601          | Qtal 6  | 780                                     | Sept. 11, 1935     | --                         | --        | 51           | 21             | 114         | --            | 195                             | 106                        | 134           | --           | 3.6                        | --        | 526              | 214                                 | --                                       | --  | --             | --                            | --                              |    |
|              |         | 780                                     | Apr. 7, 1937       | 41                         | 0.03      | 49           | 21             | 113         | --            | 195                             | 108                        | 129           | 1.0          | 7.5                        | --        | 570              | 209                                 | --                                       | --  | 53             | --                            | --                              |    |
|              |         | 780                                     | Sept. 23, 1938     | 43                         | --        | 49           | 22             | 115         | --            | 204                             | 112                        | 126           | --           | 2.8                        | --        | 581              | 213                                 | --                                       | --  | --             | --                            | --                              |    |
|              |         | 780                                     | Nov. 16, 1939      | --                         | --        | --           | --             | 115         | --            | 194                             | 105                        | 125           | --           | 4.2                        | --        | 515              | 198                                 | --                                       | --  | --             | --                            | --                              |    |
|              |         | 780                                     | June 10, 1940      | --                         | --        | 49           | 21             | 115         | --            | 204                             | 106                        | 125           | --           | 5.2                        | --        | 522              | 209                                 | --                                       | --  | --             | --                            | --                              |    |
|              |         | 780                                     | Nov. 28, 1940      | --                         | --        | 50           | 20             | 116         | --            | 204                             | 108                        | 122           | --           | 4.5                        | --        | 519              | 207                                 | --                                       | --  | --             | --                            | --                              |    |
|              |         | 780                                     | June 1941          | --                         | --        | 47           | 20             | 115         | --            | 199                             | 104                        | 121           | 1.5          | 4.3                        | --        | 511              | 200                                 | --                                       | --  | --             | --                            | --                              |    |
|              |         | 780                                     | Sept. 19, 1941     | --                         | --        | 47           | 20             | 113         | --            | 204                             | 101                        | 121           | --           | 4.5                        | --        | 507              | 200                                 | --                                       | --  | --             | --                            | --                              |    |
|              |         | 780                                     | May 10, 1956       | 40                         | --        | 44           | 18             | 116         | --            | 197                             | 99                         | 117           | 1.6          | 4.5                        | --        | 538              | 184                                 | 897                                      | 8.0 | 5.8            | --                            | --                              |    |
|              |         | 780                                     | Oct. 20, 1958      | --                         | .02       | 51           | 17             | --          | --            | --                              | 214                        | 76            | 115          | 1.5                        | --        | --               | 553                                 | 200                                      | --  | 7.8            | --                            | --                              | -- |
| 602          | Qtal 6  | 780                                     | Dec. 30, 1952      | 34                         | .03       | 19           | 7.2            | 102         | --            | 168                             | 68                         | 61            | .8           | 2.8                        | --        | 378              | 77                                  | 610                                      | 7.9 | 74             | --                            | --                              |    |
|              |         | 780                                     | Nov. 3, 1955       | 32                         | .01       | 17           | 6.4            | 88          | --            | 164                             | 58                         | 42            | .9           | 4.5                        | --        | 331              | 69                                  | 532                                      | 7.7 | 73             | --                            | --                              |    |
|              |         | 780                                     | Nov. 27, 1957      | 32                         | .01       | 21           | 6.9            | 100         | --            | 171                             | 66                         | 60            | .8           | 4.0                        | --        | 377              | 81                                  | 606                                      | 7.8 | 73             | --                            | --                              |    |
|              |         | 780                                     | Nov. 18, 1959      | 32                         | .01       | 20           | 6.4            | 81          | --            | 158                             | 56                         | 41            | .8           | 5.3                        | --        | 321              | 76                                  | 515                                      | 7.2 | 70             | --                            | --                              |    |
|              |         | 780                                     | Oct. 20, 1960      | 28                         | .01       | 17           | 6.7            | 83          | --            | 162                             | 55                         | 38            | .9           | 5.6                        | --        | 320              | 70                                  | 505                                      | 7.6 | 72             | --                            | --                              |    |
|              |         | 780                                     | Nov. 4, 1964       | 30                         | .09       | 17           | 6.2            | 79          | --            | 168                             | 52                         | 30            | .9           | 3.5                        | 0.15      | 301              | 68                                  | 483                                      | 7.4 | 72             | 4.2                           | 1.4                             |    |
|              |         | 780                                     | Dec. 15, 1965      | 30                         | .02       | 17           | 6.2            | 82          | --            | 165                             | 54                         | 34            | .9           | 4.5                        | --        | 310              | 68                                  | 506                                      | --  | 72             | 4.3                           | --                              |    |
|              |         | 780                                     | May 12, 1967       | 28                         | .02       | 18           | 5.6            | 81          | --            | 160                             | 56                         | 34            | 1.2          | 3.5                        | --        | 311              | 68                                  | 495                                      | 7.5 | 72             | 4.0                           | 1.26                            |    |
| 603          | Qtal 6  | 775                                     | Nov. 4, 1964       | 32                         | .04       | 18           | 6.3            | 99          | --            | 184                             | 62                         | 46            | 1.0          | 3.2                        | .18       | 358              | 71                                  | 584                                      | 7.0 | 75             | 5.1                           | 1.60                            |    |
|              |         | 775                                     | Dec. 16, 1965      | 32                         | .01       | 19           | 6.4            | 100         | --            | 176                             | 66                         | 52            | 1.1          | 4.5                        | --        | 369              | 74                                  | 609                                      | 7.0 | 75             | 5.1                           | --                              |    |
| 604          | Qtal 6  | 909                                     | Oct. 24, 1938      | 26                         | --        | 24           | 9.1            | 108         | --            | 188                             | 75                         | 51            | --           | --                         | --        | 395              | 98                                  | --                                       | --  | --             | --                            |                                 |    |
|              |         | 909                                     | Nov. 4, 1938       | 43                         | .02       | 23           | 8.6            | 111         | --            | 176                             | 75                         | 63            | .6           | 3.8                        | --        | 438              | 93                                  | --                                       | --  | 68             | --                            | --                              |    |
|              |         | 909                                     | Aug. 11, 1939      | 22                         | --        | 21           | 12             | 106         | --            | 176                             | 81                         | 65            | --           | --                         | --        | 416              | 101                                 | --                                       | --  | --             | --                            |                                 |    |
|              |         | 909                                     | June 3, 1942       | --                         | --        | 20           | 7.4            | 104         | --            | 186                             | 64                         | 58            | --           | 6.0                        | --        | 351              | 80                                  | --                                       | --  | --             | --                            |                                 |    |
|              |         | 909                                     | Aug. 3, 1949       | 42                         | --        | 18           | 6.4            | 108         | --            | 165                             | 69                         | 57            | --           | 5.4                        | --        | 399              | 72                                  | 641                                      | 8.4 | 77             | --                            | --                              |    |
|              |         | 909                                     | Nov. 23, 1949      | --                         | --        | --           | --             | --          | --            | 180                             | --                         | 58            | --           | --                         | --        | --               | 72                                  | 621                                      | 8.0 | --             | --                            | --                              |    |
|              |         | 909                                     | June 23, 1950      | --                         | --        | --           | --             | --          | --            | 181                             | 56                         | --            | --           | --                         | --        | --               | 78                                  | 627                                      | 8.0 | --             | --                            | --                              |    |
|              |         | 909                                     | Mar. 27, 1951      | 45                         | --        | 20           | 7.4            | 116         | --            | 168                             | 74                         | 83            | --           | 2.5                        | --        | 440              | 80                                  | 688                                      | 8.2 | 76             | --                            | --                              |    |
|              |         | 909                                     | May 10, 1956       | --                         | --        | --           | --             | --          | --            | 182                             | --                         | 51            | --           | --                         | --        | --               | 72                                  | 615                                      | 7.9 | --             | --                            | --                              |    |
|              |         | 909                                     | Oct. 20, 1958      | --                         | .02       | 19           | 12             | --          | --            | 187                             | 54                         | 53            | 1.1          | --                         | --        | --               | 383                                 | 98                                       | --  | 8.0            | --                            | --                              |    |
| 605          | Qtal 6  | 288-302                                 | Nov. 23, 1937      | 40                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 498              | 117                                 | --                                       | --  | --             | --                            |                                 |    |
|              |         | 540                                     | Jan. 4, 1938       | 15                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | 665                                 | 178                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | Nov. 16, 1939      | --                         | --        | 32           | 12             | 154         | --            | --                              | 172                        | 89            | --           | --                         | 2.5       | --               | 569                                 | 129                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | Apr. 8, 1940       | 25                         | --        | 31           | 10             | 173         | --            | --                              | 177                        | 109           | 167          | --                         | --        | --               | 530                                 | 119                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | June 10, 1940      | --                         | --        | 34           | 12             | 155         | --            | --                              | 180                        | 91            | 162          | --                         | --        | --               | 543                                 | 134                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | June 16, 1941      | 34                         | --        | 32           | 11             | 154         | --            | --                              | 177                        | 85            | 157          | 1.1                        | 2.5       | --               | 580                                 | 125                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | June 3, 1942       | --                         | --        | 25           | 10             | 130         | --            | --                              | 202                        | 92            | 90           | --                         | 4.5       | --               | 426                                 | 104                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | Sept. 16, 1942     | --                         | --        | 26           | 10             | 130         | --            | --                              | 202                        | 92            | 89           | --                         | 3.0       | --               | 450                                 | 106                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | Mar. 25, 1943      | --                         | --        | 28           | 10             | 126         | --            | --                              | 202                        | 91            | 87           | --                         | 4.0       | --               | 446                                 | 111                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | Feb. 15, 1944      | --                         | --        | 27           | 9.8            | 129         | --            | --                              | 182                        | 93            | 80           | --                         | 3.8       | --               | 450                                 | 108                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | May 28, 1944       | --                         | --        | 26           | 10             | 127         | --            | --                              | 202                        | 85            | 89           | --                         | 4.0       | --               | 440                                 | 106                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | May 22, 1945       | --                         | --        | 28           | 10             | 127         | --            | --                              | 172                        | 92            | 88           | --                         | 4.1       | --               | 512                                 | 111                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | Mar. 25, 1946      | --                         | --        | 27           | 10             | 138         | --            | --                              | 182                        | 92            | 92           | --                         | 3.8       | --               | 530                                 | 108                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | Apr. 26, 1947      | --                         | --        | --           | --             | --          | --            | --                              | 146                        | --            | 86           | --                         | --        | --               | --                                  | 793                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | June 7, 1948       | 39                         | --        | 25           | 12             | 132         | --            | --                              | 208                        | 92            | 92           | --                         | 3.8       | --               | 498                                 | 112                                      | 809 | --             | 72                            | --                              |    |
|              |         | 1,055                                   | Apr. 21, 1949      | 36                         | --        | 24           | 10             | 129         | --            | --                              | 197                        | 91            | 86           | --                         | 4.4       | --               | 482                                 | 101                                      | 793 | 8.0            | 73                            | --                              |    |
|              |         | 1,055                                   | Aug. 2, 1949       | --                         | --        | --           | --             | --          | --            | --                              | --                         | 91            | 86           | --                         | --        | --               | --                                  | 799                                      | --  | --             | --                            | --                              |    |
|              |         | 1,055                                   | Feb. 10, 1950      | --                         | --        | --           | --             | --          | --            | --                              | 195                        | --            | 87           | --                         | --        | --               | --                                  | 99                                       | 779 | 8.1            | --                            | --                              |    |
|              |         | 1,055                                   | Mar. 24, 1951      | --                         | --        | --           | --             | --          | --            | --                              | 196                        | --            | 86           | --                         | --        | --               | --                                  | 97                                       | 778 | 7.8            | --                            | --                              |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well           | Aquifer       | Depth of well or sampled interval (ft)   | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |      |    |
|----------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-----|----------------|-------------------------------|---------------------------------|----|------|----|
| JL-49-13-605   | Qtal 6        | 1,055<br>1,055   | Sept. 22, 1955     | --                         | --        | --           | --             | --          | --            | 200                             | --                         | 85            | --           | --                         | --        | 96               | 782                                 | 8.2                                     | --  | --             | --                            | --                              |    |      |    |
|                |               |  | Dec. 9, 1958       | --                         | 0.02      | 24           | 11             | --          | --            | --                              | 199                        | 70            | 86           | 1.3                        | --        | --               | 488                                 | 118                                     | 8.0 | --             | --                            | --                              | -- |      |    |
| 606            | Qtal 6        | 231-240<br>286-328<br>342-367<br>407-426<br>457-498<br>510-547<br>589-603<br>655-697<br>710-734<br>743-775 | June 10, 1941      | --                         | --        | --           | --             | --          | --            | 196                             | --                         | 99            | --           | --                         | --        | 589              | 225                                 | --                                      | --  | --             | --                            | --                              | -- |      |    |
|                |               |  | June 11, 1941      | --                         | --        | --           | --             | --          | --            | --                              | 167                        | --            | 122          | --                         | --        | --               | 553                                 | 252                                     | --  | --             | --                            | --                              | -- | --   |    |
|                |               |  | June 12, 1941      | --                         | --        | --           | --             | --          | --            | --                              | 143                        | --            | 101          | --                         | --        | --               | 437                                 | 238                                     | --  | --             | --                            | --                              | -- | --   | -- |
|                |               |  | do                 | --                         | --        | --           | --             | --          | --            | --                              | 153                        | --            | 80           | --                         | --        | --               | 371                                 | 173                                     | --  | --             | --                            | --                              | -- | --   | -- |
|                |               |  | June 13, 1941      | --                         | --        | --           | --             | --          | --            | --                              | 159                        | --            | 108          | --                         | --        | --               | 483                                 | 171                                     | --  | --             | --                            | --                              | -- | --   | -- |
|                |               |  | June 14, 1941      | --                         | --        | --           | --             | --          | --            | --                              | 164                        | --            | 49           | --                         | --        | --               | 412                                 | 178                                     | --  | --             | --                            | --                              | -- | --   | -- |
|                |               |  | June 15, 1941      | --                         | --        | --           | --             | --          | --            | --                              | 163                        | --            | 73           | --                         | --        | --               | 386                                 | 164                                     | --  | --             | --                            | --                              | -- | --   | -- |
|                |               |  | June 18, 1941      | --                         | --        | --           | --             | --          | --            | --                              | 162                        | --            | 135          | --                         | --        | --               | 654                                 | 210                                     | --  | --             | --                            | --                              | -- | --   | -- |
|                |               |  | June 20, 1941      | --                         | --        | --           | --             | --          | --            | --                              | 153                        | --            | 163          | --                         | --        | --               | 676                                 | 212                                     | --  | --             | --                            | --                              | -- | --   | -- |
|                |               |  | June 1941          | --                         | --        | --           | --             | --          | --            | --                              | 151                        | --            | 151          | --                         | --        | --               | 498                                 | 191                                     | --  | --             | --                            | --                              | -- | --   | -- |
|                |               |  | May 14, 1951       | 33                         | .08       | 48           | 22             | 100         | --            | 194                             | 92                         | 118           | 9            | 4.5                        | 0         | --               | 528                                 | 210                                     | 879 | 7.7            | 51                            | --                              | -- | --   |    |
|                |               |  | May 23, 1952       | 34                         | 0         | 48           | 20             | 100         | --            | 191                             | 91                         | 115           | 1.2          | 4.5                        | --        | --               | 517                                 | 202                                     | 882 | 7.7            | 52                            | --                              | -- | --   |    |
|                |               |  | Apr. 29, 1953      | 36                         | .01       | 50           | 22             | 102         | --            | 197                             | 100                        | 116           | 1.1          | 5.6                        | --        | --               | 562                                 | 216                                     | 884 | 7.8            | 51                            | --                              | -- | --   |    |
|                |               |  | May 16, 1961       | 33                         | .12       | 48           | 18             | 96          | --            | 193                             | 90                         | 101           | 1.3          | 7.2                        | --        | --               | 490                                 | 194                                     | 825 | 7.1            | 52                            | 3.0                             | -- | --   |    |
|                |               |  | May 12, 1967       | 30                         | .01       | 48           | 17             | 99          | --            | 190                             | 89                         | 106           | 1.7          | 3.2                        | --        | --               | 492                                 | 190                                     | 827 | 7.2            | 52                            | 3.1                             | -- | --   |    |
|                |               |  | Aug. 30, 1973      | 10.4                       | .05       | 176          | 43             | 97          | 6             | --                              | 84                         | 91            | 1.3          | 5.4                        | .1        | --               | 481                                 | 220                                     | 848 | 7.4            | --                            | --                              | -- | --   |    |
|                |               |  | Sept. 15, 1974     | 30                         | .01       | 8            | 2.7            | 87          | 6.1           | --                              | 84                         | 87            | 1.3          | 4.4                        | .1        | --               | 418                                 | 150                                     | 750 | 6.9            | --                            | --                              | -- | --   |    |
| Sept. 16, 1975 | 32            | .1   | 43                 | 16.3                       | 81        | 5.6          | --             | 72          | 78            | 1.32                            | 15.4                       | .07           | --           | 452                        | 165       | 720              | 7.9                                 | --                                      | --  | --             | --                            |                                 |    |      |    |
| 607            | Qtal 6        | 950  | Mar. 25, 1943      | --                         | --        | 34           | 12             | 117         | --            | 205                             | 90                         | 86            | --           | 6.0                        | --        | 446              | 134                                 | --                                      | --  | --             | --                            | --                              | -- |      |    |
|                |               |  | May 8, 1944        | --                         | --        | 28           | 10             | 130         | --            | 208                             | 93                         | 86            | --           | 5.5                        | --        | 455              | 111                                 | --                                      | --  | --             | --                            | --                              | -- |      |    |
|                |               |  | May 22, 1945       | --                         | --        | 27           | 9.8            | 127         | --            | 177                             | 92                         | 86            | --           | 4.5                        | --        | 494              | 108                                 | --                                      | --  | --             | --                            | --                              | -- | --   |    |
|                |               |  | Mar. 25, 1946      | --                         | --        | 26           | 9.8            | 137         | --            | 192                             | 92                         | 85            | --           | 4.7                        | --        | 538              | 106                                 | --                                      | --  | --             | --                            | --                              | -- | --   |    |
|                |               |  | June 7, 1948       | 60                         | --        | 24           | 9.5            | 133         | --            | 206                             | 90                         | 87            | --           | 4.9                        | --        | 492              | 99                                  | 800                                     | --  | 75             | --                            | --                              | -- | --   |    |
|                |               |  | Apr. 21, 1949      | 40                         | --        | 24           | 9.8            | 134         | --            | 199                             | 103                        | 83            | --           | 5.6                        | --        | 502              | 100                                 | 783                                     | 8.1 | 74             | --                            | --                              | -- | --   |    |
|                |               |  | Mar. 24, 1951      | --                         | --        | 24           | 9.8            | 134         | --            | 198                             | 103                        | 83            | --           | 5.6                        | --        | 502              | 100                                 | 783                                     | 8.1 | 74             | --                            | --                              | -- | --   |    |
|                |               |  | Sept. 4, 1953      | --                         | --        | 26           | --             | 8.5         | --            | 201                             | 90                         | 74            | --           | --                         | --        | 492              | 100                                 | 782                                     | 7.6 | --             | --                            | --                              | -- | --   |    |
|                |               |  | May 10, 1956       | --                         | --        | 26           | --             | 8.5         | --            | 201                             | 90                         | 74            | --           | --                         | --        | 492              | 100                                 | 782                                     | 7.6 | --             | --                            | --                              | -- | --   |    |
|                |               |  | May 15, 1956       | 36                         | .02       | 51           | 20             | 99          | --            | 199                             | 80                         | 107           | 1.2          | 5.2                        | --        | --               | 517                                 | 210                                     | 863 | 7.5            | 51                            | --                              | -- | --   |    |
|                |               |  | Oct. 23, 1957      | --                         | --        | 30           | 8              | --          | --            | 224                             | 190                        | 80            | 1.5          | --                         | --        | --               | 490                                 | 110                                     | --  | 7.9            | --                            | --                              | -- | --   |    |
|                |               |  | Aug. 12, 1958      | 34                         | .01       | 49           | 19             | 104         | --            | 199                             | 98                         | 108           | 1.2          | 6.2                        | --        | --               | 521                                 | 200                                     | 862 | 7.6            | 53                            | --                              | -- | --   |    |
|                |               |  | Sept. 24, 1958     | --                         | --        | 26           | 9              | --          | --            | 207                             | 72                         | 76            | 1.5          | --                         | --        | --               | 493                                 | 100                                     | --  | --             | --                            | --                              | -- | --   |    |
|                |               |  | July 17, 1967      | --                         | --        | --           | --             | --          | --            | 200                             | 86                         | 76            | --           | --                         | --        | --               | 96                                  | 757                                     | 7.9 | --             | --                            | --                              | -- | 1.39 |    |
|                |               |  | July 3, 1969       | --                         | --        | 25           | 8.2            | --          | --            | 202                             | 89                         | 82            | --           | --                         | --        | --               | 96                                  | 771                                     | 7.6 | --             | --                            | --                              | -- | 1.39 |    |
|                |               |  | June 2, 1975       | --                         | --        | 25           | 7.9            | --          | --            | 202                             | 83                         | 83            | --           | --                         | --        | --               | 95                                  | 792                                     | 8.0 | --             | --                            | --                              | -- | --   |    |
|                |               |  | 608                | Qtal 6                     | 920       | Apr. 2, 1959 | 37             | .09         | 26            | 8.5                             | 148                        | --            | 183          | 88                         | 119       | 1.3              | 3.2                                 | .15                                     | 521 | 100            | 851                           | 7.9                             | 72 | --   | -- |
| 609            | Qtal 6        | 983  | June 21, 1956      | 36                         | --        | 24           | 8.9            | 144         | --            | 186                             | 94                         | 109           | 1.1          | 2.9                        | --        | 521              | 96                                  | 861                                     | 8.0 | 76             | --                            | --                              |    |      |    |
|                |               |  | Oct. 13, 1958      | --                         | .02       | 28           | 12             | --          | 188           | 74                              | 105                        | 1.1           | --           | --                         | 533       | 122              | --                                  | 8.0                                     | --  | --             | --                            | --                              |    |      |    |
|                |               |  | Nov. 11, 1959      | --                         | --        | 27           | 10             | --          | 185           | 83                              | 120                        | --            | --           | --                         | 508       | 108              | --                                  | 7.4                                     | --  | --             | --                            | --                              |    |      |    |
|                |               |  | July 29, 1966      | 37                         | 0         | 31           | 9              | 154         | --            | 190                             | 97                         | 129           | 1.1          | 5.0                        | .09       | 557              | 116                                 | 940                                     | 7.5 | 71             | 5.8                           | .80                             |    |      |    |
| 983            | Aug. 14, 1969 | 36   | --                 | 30                         | 9.8       | 160          | --             | 180         | 97            | 140                             | 1.0                        | 3.2           | .15          | 566                        | 116       | 946              | 7.4                                 | 71                                      | 6.0 | .64            |                               |                                 |    |      |    |
| 610            | Qtal 6        | 766  | May 26, 1952       | 39                         | --        | 18           | 7.3            | 115         | --            | 188                             | 77                         | 61            | 1.2          | 3.0                        | --        | 422              | 75                                  | 680                                     | 7.9 | 77             | --                            | --                              |    |      |    |
|                |               |  | Sept. 4, 1953      | --                         | --        | 18           | 8.2            | --          | 189           | 84                              | 56                         | 1.0           | --           | --                         | 433       | 78               | --                                  | --                                      | --  | --             | --                            | --                              |    |      |    |
|                |               |  | Apr. 10, 1956      | --                         | --        | --           | --             | --          | 183           | --                              | 57                         | --            | --           | --                         | --        | 82               | 669                                 | 8.0                                     | --  | --             | --                            | --                              |    |      |    |
|                |               |  | Oct. 23, 1957      | --                         | --        | 31           | 19             | --          | 208           | 82                              | 62                         | 1.2           | --           | --                         | --        | 427              | 170                                 | --                                      | 7.9 | --             | --                            | --                              |    |      |    |
|                |               |  | Mar. 20, 1958      | --                         | .02       | 22           | 8              | --          | 198           | 76                              | 55                         | 1.2           | --           | --                         | --        | 403              | 90                                  | --                                      | 8.3 | --             | --                            | --                              |    |      |    |
|                |               |  | July 29, 1966      | 36                         | 0         | 24           | 7.4            | 104         | 9.9           | 196                             | 80                         | 57            | 1.0          | 5.8                        | .16       | 422              | 91                                  | 667                                     | 7.2 | 69             | 4.7                           | 1.39                            |    |      |    |
| 766            | Aug. 19, 1970 | --   | --                 | 23                         | 7.8       | --           | 200            | 85          | 61            | --                              | --                         | --            | --           | 90                         | 701       | 7.3              | --                                  | --                                      | --  | --             |                               |                                 |    |      |    |
| 611            | Qtal 6        | 416  | July 14, 1936      | --                         | --        | 22           | 8.1            | 91          | --            | 178                             | 73                         | 62            | --           | 5.6                        | --        | 329              | 88                                  | --                                      | --  | --             | --                            |                                 |    |      |    |
| 613            | Qtal 6        | 289-293<br>408-441   | June 1, 1936       | --                         | --        | 47           | 18             | 165         | --            | 160                             | 63                         | 250           | --           | .5                         | --        | 622              | 191                                 | --                                      | --  | --             | --                            | --                              |    |      |    |
|                |               |  | do                 | --                         | --        | 62           | 17             | 195         | --            | 166                             | 75                         | 273           | --           | .2                         | --        | 684              | 175                                 | --                                      | --  | --             | --                            | --                              |    |      |    |
| 614            | Qtal 6        | 715  | May 26, 1952       | --                         | --        | 20           | 8              | 110         | --            | 204                             | 75                         | 48            | 1.2          | 8.3                        | --        | 440              | 83                                  | 671                                     | 8.5 | 74             | --                            | --                              |    |      |    |
| 615            | Qtal 6        | 800  | Apr. 5, 1967       | 29                         | --        | 19           | 5.7            | 109         | --            | 166                             | 66                         | 59            | .7           | 4.2                        | --        | 375              | 71                                  | 600                                     | 7.7 | 71             | 5.1                           | 1.30                            |    |      |    |
|                |               |  | Nov. 24, 1972      | 14                         | .06       | 18           | 5.9            | 89          | 9.5           | --                              | 62                         | 32            | 1.08         | 1.8                        | .20       | 290              | 68                                  | 490                                     | 8.4 | --             | --                            | --                              |    |      |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well           | Aquifer          | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhmhos at 25 °C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|----------------|------------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|
| JL-49-13-615   | Qtal 6           | 800                                    | Dec. 29, 1973      | 27                         | 0.05      | 19           | 8.8            | 75          | 16.5          | --                              | 58                         | --            | 1.0          | 2.0                        | 0.18      | 284              | 79                                  | 467  | 8.0 | --             | --                            | --                              |    |
|                |                  |  | Dec. 15, 1974      | 31                         | .05       | 20           | 7.2            | 70          | 8.1           | --                              | 54                         | 28            | .76          | --                         | .26       | 318              | 82                                  | 438  | 7.2 | --             | --                            | --                              |    |
| 616            | Qtal 6           | 780                                    | Mar. 4, 1952       | 29                         | --        | 21           | 7.1            | 107         | --            | 174                             | 75                         | 68            | --           | 2.5                        | --        | 429              | 82                                  | 665  | 8.1 | 74             | --                            | --                              |    |
|                |                  |  | Dec. 30, 1952      | 33                         | .02       | 20           | 7.5            | 113         | --            | 174                             | 78                         | 69            | 1.0          | 3.0                        | --        | 411              | 81                                  | 667  | 8.0 | 75             | --                            | --                              |    |
|                |                  |  | Nov. 3, 1955       | 32                         | .04       | 19           | 6.5            | 106         | --            | 166                             | 70                         | 64            | .9           | 4.0                        | --        | 384              | 74                                  | 630  | 7.7 | 76             | --                            | --                              |    |
|                |                  |  | Nov. 27, 1957      | 32                         | .02       | 21           | 6.7            | 112         | --            | 168                             | 73                         | 74            | .8           | 3.0                        | --        | 412              | 80                                  | 663  | 7.8 | 75             | --                            | --                              |    |
|                |                  |  | Nov. 18, 1959      | 32                         | .01       | 20           | 7.2            | 106         | --            | 171                             | 72                         | 64            | 1.0          | 4.3                        | --        | 391              | 80                                  | 633  | 7.5 | 74             | --                            | --                              |    |
|                |                  |  | Oct. 20, 1960      | 30                         | .01       | 18           | 6.5            | 83          | --            | 163                             | 55                         | 38            | .9           | 5.2                        | --        | 320              | 72                                  | 506  | 7.4 | 72             | --                            | --                              |    |
|                |                  |  | Nov. 24, 1972      | 13                         | .06       | 18           | 6.4            | 93          | 11            | --                              | 64                         | 37            | 1.28         | 1.94                       | .22       | 330              | 80                                  | 560  | 8.4 | --             | --                            | --                              |    |
|                |                  |  | Dec. 28, 1973      | 29                         | .07       | 19           | 8.9            | 91          | 16.6          | --                              | 60                         | --            | 1.5          | 2.0                        | .11       | 322              | 83                                  | 543  | 8.0 | --             | --                            | --                              |    |
|                |                  |  | Dec. 15, 1974      | 32                         | .05       | 15           | .6             | 77          | 2.5           | --                              | 58                         | 31            | .93          | --                         | .29       | 333              | 86                                  | 423  | 6.3 | --             | --                            | --                              |    |
|                |                  |  | 618                | Qtal 6                     | 530       | Jan. 7, 1935 | --             | --          | --            | --                              | --                         | --            | 214          | 80                         | 74        | --               | --                                  | --   | --  | 117            | --                            | --                              | -- |
| Apr. 8, 1935   | --               | --                                     |                    |                            |           | --           | --             | --          | --            | --                              | --                         | 80            | --           | --                         | --        | --               | --                                  | 507  | 274 | --             | --                            | --                              | -- |
| Mar. 13, 1936  | --               | --                                     |                    |                            |           | 25           | 9.9            | 135         | --            | 228                             | 100                        | 68            | --           | --                         | --        | --               | --                                  | 460  | 103 | --             | --                            | --                              | -- |
| Oct. 28, 1936  | --               | --                                     |                    |                            |           | 24           | 9.4            | 138         | --            | 236                             | 101                        | 66            | --           | --                         | --        | --               | --                                  | 463  | 99  | --             | --                            | --                              | -- |
| June 1, 1938   | 26               | --                                     |                    |                            |           | 27           | 3.4            | 145         | --            | 223                             | 105                        | 74            | --           | --                         | --        | --               | --                                  | 475  | 81  | --             | --                            | --                              | -- |
| Sept. 28, 1938 | 62               | --                                     |                    |                            |           | 24           | 11             | 136         | --            | 224                             | 109                        | 70            | --           | 5.0                        | --        | --               | --                                  | 534  | 105 | --             | --                            | --                              | -- |
| Nov. 16, 1939  | --               | --                                     |                    |                            |           | --           | --             | 143         | --            | 230                             | 105                        | 67            | --           | 6.7                        | --        | --               | --                                  | 455  | 87  | --             | --                            | --                              | -- |
| Apr. 8, 1940   | 51               | --                                     |                    |                            |           | 24           | 9.0            | 140         | --            | 219                             | 99                         | 76            | --           | --                         | --        | --               | --                                  | 525  | 97  | --             | --                            | --                              | -- |
| June 12, 1940  | --               | --                                     |                    |                            |           | 26           | 10             | 152         | --            | 240                             | 120                        | 78            | --           | 6.8                        | --        | --               | --                                  | 511  | 106 | --             | --                            | --                              | -- |
| Nov. 28, 1940  | --               | --                                     |                    |                            |           | 24           | 8.8            | 141         | --            | 240                             | 105                        | 64            | --           | 9.0                        | --        | --               | --                                  | 470  | 96  | --             | --                            | --                              | -- |
| June 16, 1941  | 57               | --                                     |                    |                            |           | 25           | 9.3            | 137         | --            | 233                             | 99                         | 68            | 1.0          | 6.8                        | --        | --               | --                                  | 531  | 100 | --             | --                            | --                              | -- |
| Sept. 18, 1941 | --               | --                                     |                    |                            |           | 23           | 10             | 137         | --            | 228                             | 100                        | 71            | --           | 6.0                        | --        | --               | --                                  | 459  | 98  | --             | --                            | --                              | -- |
| June 3, 1942   | --               | --                                     |                    |                            |           | 24           | 9.9            | 135         | --            | 230                             | 98                         | 70            | --           | 7.5                        | --        | --               | --                                  | 458  | 100 | --             | --                            | --                              | -- |
| Sept. 16, 1942 | --               | --                                     |                    |                            |           | 24           | 8.7            | 130         | --            | 216                             | 97                         | 69            | --           | 4.5                        | --        | --               | --                                  | 440  | 96  | --             | --                            | --                              | -- |
| Mar. 25, 1943  | --               | --                                     |                    |                            |           | 26           | 9.9            | 131         | --            | 234                             | 99                         | 64            | --           | 6.3                        | --        | --               | --                                  | 452  | 106 | --             | --                            | --                              | -- |
| Mar. 27, 1946  | --               | --                                     |                    |                            |           | 23           | 9.1            | 139         | --            | 210                             | 100                        | 73            | --           | 5.5                        | --        | --               | --                                  | 530  | 100 | --             | --                            | --                              | -- |
| Apr. 21, 1949  | 56               | --                                     |                    |                            |           | 23           | 9.1            | 140         | --            | 228                             | 102                        | 71            | --           | 7.2                        | --        | --               | --                                  | 536  | 95  | 815            | 8.2                           | 76                              | -- |
| Aug. 7, 1949   | --               | --                                     | --                 | --                         | --        | --           | --             | --          | --            | 106                             | 72                         | --            | --           | --                         | --        | --               | 827                                 | --   | --  | --             | --                            |                                 |    |
| 621            | Qtal 6           | 288-302                                | Dec. 1937          | 40                         | --        | --           | --             | --          | --            | --                              | --                         | 49            | --           | --                         | --        | 117              | --                                  | --   | --  | --             | --                            | --                              |    |
| 622            | Qtal 6           | 946-966                                | Sept. 14, 1972     | 28                         | --        | 14           | 4              | 128         | --            | 128                             | 67                         | 109           | .8           | .4                         | --        | 415              | 52                                  | 680  | 8.0 | --             | --                            | --                              |    |
|                |                  |  | do                 | 17                         | --        | 31           | 5              | 212         | --            | 113                             | 78                         | 273           | .7           | .4                         | --        | 680              | 104                                 | 1,150                                      | 7.9 | --             | --                            | --                              |    |
|                |                  |  | do                 | 11                         | --        | 165          | 23             | 560         | --            | 67                              | 72                         | 1,120         | .6           | .4                         | --        | 1,990            | 510                                 | 3,350                                      | 7.2 | --             | --                            | --                              |    |
| 623            | Qtal 6           | 926-946                                | Oct. 23, 1972      | 20                         | .02       | 20           | 4              | 117         | --            | 136                             | 58                         | 91            | .9           | 2.8                        | .03       | 379              | 66                                  | 628  | 7.8 | 76             | 5.8                           | 0.9                             |    |
|                |                  |  | Nov. 2, 1972       | --                         | --        | 16           | 4              | 118         | --            | --                              | 54                         | 118           | .29          | --                         | --        | --               | 436                                 | 54   | --  | 8.2            | 83                            | --                              | -- |
| 624            | Qtal 6           | 1,010-1,030                            | do                 | --                         | --        | 30           | 5              | 188         | --            | --                              | 46                         | 276           | .28          | --                         | --        | 618              | 98                                  | --   | 7.9 | 84             | --                            | --                              |    |
|                |                  |  | do                 | --                         | --        | 142          | 15             | 509         | --            | --                              | 88                         | 981           | .17          | --                         | --        | 2,232            | 416                                 | --   | 7.6 | 75             | --                            | --                              |    |
| 625            | Qtal 6           | 1,134-1,155                            | July 13, 1973      | --                         | .01       | 204          | 34             | 614         | --            | --                              | 261                        | 1,183         | .37          | --                         | --        | 2,350            | 650                                 | --   | 7.8 | 72             | --                            | --                              |    |
|                |                  |  | do                 | --                         | .02       | 32           | 6              | 100         | --            | --                              | 65                         | 70            | .3           | --                         | --        | --               | 438                                 | 70   | --  | 8.1            | 72                            | --                              | -- |
| 701            | Qtal 6           | 1,026                                  | Mar. 1, 1977       | 32                         | --        | 22           | 7.4            | 110         | --            | 184                             | 69                         | 64            | 1.0          | --                         | --        | 417              | 85                                  | 660  | 8.1 | 70             | 5.2                           | --                              |    |
| 702            | Qal Rg<br>Qtal 6 | 320                                    | Jan. 28, 1957      | 30                         | --        | 456          | 136            | --          | --            | 270                             | 400                        | 328           | --           | --                         | --        | 1,558            | 592                                 | --   | 7.8 | --             | --                            | --                              |    |
|                |                  |  | Oct. 6, 1938       | 29                         | 6.2       | 301          | 56             | 192         | --            | 255                             | 498                        | 473           | --           | --                         | --        | 1,752            | 987                                 | --   | --  | --             | --                            | --                              |    |
|                |                  |  | Oct. 12, 1938      | 23                         | 2.6       | 42           | 16             | 66          | --            | 171                             | 76                         | 67            | --           | --                         | --        | 375              | 171                                 | --   | --  | --             | --                            | --                              |    |
|                |                  |  | Oct. 15, 1938      | 23                         | 1.0       | 39           | 12             | 66          | --            | 166                             | 68                         | 59            | --           | --                         | --        | 318              | 146                                 | --   | --  | --             | --                            | --                              |    |
|                |                  |  | Oct. 19, 1938      | 37                         | 3.0       | 17           | 5              | 133         | --            | 175                             | 86                         | 85            | --           | --                         | --        | 424              | 64                                  | --   | --  | --             | --                            | --                              |    |
|                |                  |  | Feb. 4, 1939       | 17                         | 4.3       | 34           | 14             | 74          | --            | 88                              | 62                         | 69            | --           | --                         | --        | 426              | 143                                 | --   | --  | --             | --                            | --                              |    |
|                |                  |  | July 11, 1939      | 15                         | .15       | 18           | 6              | 133         | --            | 172                             | 124                        | 64            | --           | --                         | --        | 377              | 71                                  | --   | --  | --             | --                            | --                              |    |
|                |                  |  | Oct. 28, 1939      | 20                         | --        | 31           | 9.1            | 102         | --            | 174                             | 92                         | 63            | --           | --                         | --        | 382              | 115                                 | --   | --  | --             | --                            | --                              |    |
|                |                  |  | Apr. 16, 1940      | 25                         | 2.4       | 30           | 9.1            | 92          | --            | 172                             | 77                         | 66            | --           | --                         | --        | 364              | 113                                 | --   | --  | --             | --                            | --                              |    |
|                |                  |  | June 10, 1940      | --                         | --        | 37           | 11             | 71          | --            | 178                             | 50                         | 66            | --           | 0                          | --        | --               | 323                                 | 138  | --  | --             | --                            | --                              | -- |
|                |                  |  | Aug. 29, 1940      | 22                         | --        | 35           | 11             | 89          | --            | 177                             | 87                         | 64            | --           | --                         | --        | 194              | 132                                 | --   | --  | --             | --                            | --                              | -- |
|                |                  |  | Dec. 5, 1940       | 31                         | .03       | 35           | 11             | 86          | --            | 179                             | 81                         | 63            | --           | 0                          | --        | --               | 397                                 | 133  | --  | --             | --                            | --                              | -- |
|                |                  |  | Mar. 12, 1941      | 38                         | 2.2       | 34           | 10             | 104         | --            | 181                             | 89                         | 78            | --           | --                         | --        | --               | 376                                 | 125  | --  | --             | 8.0                           | --                              | -- |
|                |                  |  | June 16, 1941      | 26                         | --        | 36           | 11             | 89          | --            | 178                             | 81                         | 68            | .6           | 0                          | --        | --               | 397                                 | 135  | --  | --             | --                            | --                              | -- |
| Sept. 18, 1941 | 45               | --                                     | 37                 | 9.0                        | 106       | --           | 190            | 86          | 80            | --                              | 0                          | --            | --           | 407                        | 129       | --               | --                                  | 7.8  | --  | --             |                               |                                 |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer                    | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |     |    |
|--------------|----------------------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|-----|----|
| JL-49-13-702 | Qtal 6                     | 720                                    | Sept. 18, 1941     | --                         | --        | 35           | 12             | 89          | --            | 183                             | 80                         | 68            | --           | 0                          | --        | 374              | 137                                 | --                                       | --  | --             | --                            | --                              |     |    |
|              |                            | 720                                    | Feb. 6, 1942       | 36                         | --        | 43           | 12             | 97          | --            | 193                             | 86                         | 86            | --           | --                         | --        | --               | 410                                 | 166                                      | --  | 8.2            | --                            | --                              | --  |    |
|              |                            | 720                                    | June 2, 1942       | --                         | --        | 36           | 11             | 94          | --            | 188                             | 80                         | 72            | --           | 0                          | --        | --               | 386                                 | 135                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 720                                    | June 2, 1942       | 51                         | --        | 42           | 14             | 93          | --            | 187                             | 94                         | 80            | --           | --                         | --        | --               | 413                                 | 163                                      | --  | 7.8            | --                            | --                              | --  |    |
|              |                            | 720                                    | Sept. 15, 1942     | --                         | --        | 36           | 11             | 94          | --            | 182                             | 81                         | 75            | --           | 0                          | --        | --               | 387                                 | 135                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 720                                    | Sept. 16, 1942     | 18                         | 2.3       | 41           | 13             | 93          | --            | --                              | 43                         | 75            | --           | --                         | --        | --               | 428                                 | 153                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 720                                    | Mar. 24, 1943      | --                         | --        | 40           | 12             | 93          | --            | 186                             | 85                         | 79            | --           | 0                          | --        | --               | 401                                 | 150                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 720                                    | May 22, 1945       | --                         | --        | 43           | 12             | 94          | --            | 184                             | 87                         | 85            | --           | 0                          | --        | --               | 457                                 | 157                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 720                                    | Apr. 26, 1947      | --                         | --        | --           | --             | --          | --            | 188                             | --                         | 94            | --           | --                         | --        | --               | --                                  | 148                                      | 762 | --             | --                            | --                              | --  |    |
|              |                            | 720                                    | May 9, 1947        | 38                         | --        | 51           | 17             | 81          | --            | 182                             | 94                         | 90            | --           | --                         | --        | --               | 458                                 | 196                                      | --  | 7.9            | --                            | --                              | --  |    |
|              |                            | 720                                    | Apr. 22, 1949      | 30                         | --        | 67           | 20             | 88          | --            | 197                             | 123                        | 107           | --           | 0                          | --        | --               | 552                                 | 249                                      | 896 | 7.8            | 43                            | --                              | --  |    |
|              |                            | 720                                    | Feb. 9, 1950       | --                         | --        | --           | --             | --          | --            | 187                             | --                         | 93            | --           | --                         | --        | --               | --                                  | 169                                      | 798 | --             | 8.1                           | --                              | --  | -- |
|              |                            | 720                                    | Apr. 3, 1950       | --                         | --        | 47           | 15             | --          | --            | 181                             | 112                        | 100           | --           | --                         | --        | --               | 485                                 | 180                                      | --  | 8.1            | --                            | --                              | --  |    |
|              |                            | 720                                    | June 23, 1950      | --                         | --        | --           | --             | --          | --            | 186                             | --                         | 92            | --           | --                         | --        | --               | --                                  | 166                                      | 790 | --             | 8.0                           | --                              | --  | -- |
|              |                            | 720                                    | Mar. 14, 1951      | --                         | --        | 73           | 16             | --          | --            | 195                             | 162                        | 102           | --           | --                         | --        | --               | 557                                 | 247                                      | --  | 7.8            | --                            | --                              | --  |    |
|              |                            | 720                                    | Mar. 24, 1951      | --                         | --        | --           | --             | --          | --            | 184                             | --                         | 95            | --           | --                         | --        | --               | --                                  | 184                                      | 789 | --             | 7.5                           | --                              | --  | -- |
|              |                            | 720                                    | Mar. 24, 1952      | --                         | --        | --           | --             | --          | --            | 196                             | --                         | 102           | --           | --                         | --        | --               | --                                  | 241                                      | 876 | --             | 7.7                           | --                              | --  | -- |
|              |                            | 720                                    | Mar. 28, 1952      | --                         | --        | 66           | 20             | --          | --            | 193                             | 165                        | 109           | --           | --                         | --        | --               | 562                                 | 248                                      | --  | 7.8            | --                            | --                              | --  |    |
|              |                            | 720                                    | Feb. 26, 1954      | --                         | √         | 1            | 48             | 32          | --            | 195                             | 154                        | 104           | 0.7          | --                         | --        | --               | 608                                 | 252                                      | --  | 7.9            | --                            | --                              | --  |    |
|              |                            | 720                                    | June 23, 1954      | --                         | --        | --           | --             | --          | --            | 208                             | --                         | 96            | --           | --                         | --        | --               | --                                  | 242                                      | 884 | --             | 7.8                           | --                              | --  | -- |
| 720          | May 10, 1956               | --                                     | --                 | --                         | --        | --           | --             | 201         | --            | 99                              | --                         | --            | --           | --                         | --        | 254              | 899                                 | --                                       | 7.5 | --             | --                            | --                              |     |    |
| 720          | Feb. 6, 1958               | --                                     | √                  | .02                        | 48        | 10           | --             | 204         | 113           | 86                              | .7                         | --            | --           | --                         | 495       | 167              | --                                  | 8.2                                      | --  | --             | --                            |                                 |     |    |
| 720          | Feb. 18, 1958              | --                                     | √                  | .02                        | 48        | 12           | --             | --          | 113           | 88                              | .9                         | --            | --           | --                         | 508       | 168              | --                                  | 7.9                                      | --  | --             | --                            |                                 |     |    |
| 720          | Oct. 13, 1965              | --                                     | --                 | --                         | --        | --           | --             | 212         | 163           | 108                             | --                         | --            | --           | --                         | --        | 288              | 968                                 | --                                       | 7.1 | --             | --                            | --                              |     |    |
| 720          | Nov. 13, 1969              | --                                     | √                  | .01                        | 106       | 16           | 110            | --          | 163           | 165                             | .6                         | --            | --           | --                         | 656       | 330              | --                                  | 7.5                                      | 45  | --             | --                            |                                 |     |    |
| 720          | Aug. 10, 1972              | --                                     | √                  | .25                        | 28        | 13           | 149            | --          | 225           | 112                             | .9                         | --            | --           | --                         | 588       | 125              | --                                  | 8.3                                      | 77  | --             | --                            |                                 |     |    |
| 703          | Qtal 6                     | 624                                    | June 21, 1956      | 30                         | --        | 37           | 11             | 86          | --            | 172                             | 85                         | 66            | .7           | .1                         | --        | 402              | 138                                 | 658                                      | 8.0 | 58             | --                            | --                              |     |    |
|              |                            | 624                                    | Sept. 18, 1958     | --                         | .02       | 42           | 12             | --          | --            | 183                             | 64                         | 68            | .3           | --                         | --        | 410              | 152                                 | --                                       | 8.0 | --             | --                            | --                              |     |    |
| 704          | Qal Rg<br>Qal Rg<br>Qtal 6 | 90-100                                 | Feb. 25, 1937      | 35                         | --        | 147          | 21             | 182         | --            | 290                             | 350                        | 175           | --           | --                         | --        | 1,060            | 454                                 | --                                       | --  | --             | --                            | --                              |     |    |
|              |                            | 109-142                                | Feb. 27, 1937      | 27                         | --        | 40           | 7.7            | 204         | --            | 218                             | 125                        | 189           | --           | --                         | --        | --               | 709                                 | 132                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 207-223                                | Mar. 2, 1937       | 28                         | --        | 30           | 14             | 185         | --            | 203                             | 116                        | 176           | --           | --                         | --        | --               | 656                                 | 132                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 290-322                                | Mar. 6, 1937       | 20                         | --        | 15           | 4.9            | 211         | --            | 217                             | 86                         | 176           | --           | --                         | --        | --               | 625                                 | 58                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 397-418                                | Mar. 10, 1937      | 15                         | --        | 50           | 8.3            | 176         | --            | 194                             | 53                         | 233           | --           | --                         | --        | --               | 637                                 | 159                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 250-689                                | Apr. 20, 1937      | 14                         | --        | --           | --             | --          | --            | --                              | 113.3                      | --            | --           | --                         | --        | --               | 475                                 | 86                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | do                 | 26                         | .12       | 23           | 8.6            | 126         | --            | 172                             | 69                         | 108           | --           | 0                          | --        | --               | 450                                 | 93                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | Apr. 22, 1937      | 23                         | --        | --           | --             | --          | --            | --                              | 142                        | --            | --           | --                         | --        | --               | 512                                 | 94                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | Mar. 11, 1938      | 26                         | 6.4       | 27           | 17             | 108         | --            | 179                             | 69                         | 106           | --           | --                         | --        | --               | 465                                 | 137                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | June 24, 1938      | 18                         | 5.8       | 34           | 8.0            | 115         | --            | 176                             | 69                         | 108           | --           | --                         | --        | --               | 446                                 | 118                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | Sept. 24, 1938     | 25                         | 3.8       | 24           | 14             | 116         | --            | 173                             | 69                         | 110           | --           | --                         | --        | --               | 448                                 | 118                                      | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | do                 | 29                         | .02       | 22           | 7.5            | 129         | --            | 171                             | 63                         | 112           | --           | --                         | .15       | --               | 423                                 | 86                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | Apr. 3, 1939       | 34                         | 2.2       | 42           | 10             | 163         | --            | 170                             | 113                        | 174           | --           | --                         | --        | --               | 583                                 | 147                                      | --  | 7.5            | --                            | --                              | --  |    |
|              |                            | 703                                    | May 1, 1939        | 17                         | --        | 32           | 4.6            | 148         | --            | 168                             | 112                        | 118           | --           | --                         | --        | --               | 471                                 | 99                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | Oct. 18, 1939      | 15                         | .05       | 25           | 7              | 133         | --            | 174                             | 72                         | 115           | --           | --                         | --        | --               | 462                                 | 91                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | Nov. 16, 1939      | --                         | --        | --           | --             | 138         | --            | 172                             | 66                         | 118           | --           | 0                          | --        | --               | 425                                 | 76                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | Apr. 29, 1940      | 24                         | 1.2       | 20           | 7              | 144         | --            | 155                             | 78                         | 120           | --           | --                         | --        | --               | 470                                 | 77                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | June 10, 1940      | --                         | --        | --           | --             | 138         | --            | 176                             | 68                         | 121           | --           | --                         | --        | --               | 435                                 | 86                                       | --  | --             | --                            | --                              | --  |    |
|              |                            | 703                                    | Aug. 29, 1940      | 31                         | --        | 17           | 6.2            | 141         | --            | 170                             | 73                         | 113           | --           | --                         | --        | --               | 473                                 | 68                                       | --  | --             | --                            | --                              | 8.1 |    |
|              |                            | 703                                    | Mar. 13, 1941      | 42                         | 3.2       | 24           | 5              | 167         | --            | 171                             | 75                         | 162           | --           | --                         | --        | --               | 487                                 | 81                                       | --  | --             | --                            | --                              | 8.0 |    |
| 703          | June 16, 1941              | --                                     | --                 | 24                         | 8.1       | 135          | --             | 161         | 68            | 122                             | .3                         | .25           | --           | --                         | 443       | 94               | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | Sept. 18, 1941             | --                                     | --                 | 24                         | 9.7       | 141          | --             | 170         | 73            | 136                             | --                         | 0             | --           | --                         | 467       | 100              | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | do                         | 38                                     | --                 | 28                         | 10        | 143          | --             | 178         | 77            | 140                             | --                         | .25           | --           | --                         | 399       | 111              | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | Mar. 13, 1942              | 35                                     | --                 | 25                         | 9.0       | 140          | --             | 175         | 61            | 140                             | --                         | --            | --           | --                         | 504       | 100              | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | June 2, 1942               | --                                     | --                 | 22                         | 5.5       | 134          | --             | 172         | 69            | 120                             | --                         | 0             | --           | --                         | 438       | 90               | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | do                         | 42                                     | --                 | 28                         | 12        | 153          | --             | 182         | 95            | 145                             | --                         | --            | --           | --                         | 675       | 120              | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | Sept. 15, 1942             | --                                     | --                 | 23                         | 7.7       | 141          | --             | 193         | 67            | 118                             | --                         | --            | --           | --                         | 454       | 89               | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | Mar. 23, 1943              | --                                     | --                 | 26                         | 8.1       | 133          | --             | 173         | 69            | 123                             | --                         | .5            | --           | --                         | 445       | 98               | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | Feb. 11, 1944              | --                                     | --                 | 26                         | 8.0       | 135          | --             | 170         | 69            | 128                             | --                         | .2            | --           | --                         | 450       | 98               | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | May 22, 1945               | --                                     | --                 | 27                         | 8.6       | 135          | --             | 170         | 70            | 131                             | --                         | 0             | --           | --                         | 499       | 103              | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | Mar. 25, 1946              | --                                     | --                 | 25                         | 8.7       | 152          | --             | 192         | 71            | 139                             | --                         | 0             | --           | --                         | 519       | 98               | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | Apr. 26, 1947              | --                                     | --                 | --                         | --        | --           | --             | 178         | --            | 156                             | --                         | --            | --           | --                         | 74        | 948              | --                                  | --                                       | --  | --             | --                            |                                 |     |    |
| 703          | May 9, 1947                | 38                                     | --                 | 28                         | 12        | 132          | --             | 168         | 70            | 138                             | --                         | --            | --           | --                         | 490       | 118              | --                                  | 8.0                                      | --  | --             | --                            |                                 |     |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |    |    |    |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|----|----|----|----|
| JL-49-13-704 | Qtal 6        | 703                                    | July 27, 1949      | 29                         | --        | 20           | 7.2            | 147         | --            | 168                             | 69                         | 134           | --           | 0                          | --        | 489              | 80                                  | 859                                      | 8.2 | 80             | --                            | --                              |    |    |    |    |    |
|              |               | 703                                    | Aug. 2, 1949       | --                         | --        | --           | --             | --          | --            | --                              | 168                        | 70            | 133          | --                         | --        | --               | --                                  | 855                                      | 8.2 | --             | --                            | --                              | -- |    |    |    |    |
|              |               | 703                                    | Feb. 9, 1950       | --                         | --        | --           | --             | --          | --            | --                              | 168                        | --            | 135          | --                         | --        | --               | --                                  | 95                                       | 868 | 8.1            | --                            | --                              | -- | -- |    |    |    |
|              |               | 703                                    | Apr. 3, 1950       | --                         | --        | 26           | 9              | --          | --            | --                              | 167                        | 78            | 139          | --                         | --        | --               | 497                                 | 99                                       | --  | 8.3            | --                            | --                              | -- | -- |    |    |    |
|              |               | 703                                    | June 22, 1950      | --                         | --        | --           | --             | --          | --            | --                              | 168                        | --            | 137          | --                         | --        | --               | --                                  | 92                                       | 858 | 8.2            | --                            | --                              | -- | -- |    |    |    |
|              |               | 703                                    | Mar. 14, 1951      | --                         | --        | 23           | 9              | --          | --            | --                              | 171                        | 101           | 160          | --                         | --        | --               | 550                                 | 95                                       | --  | 8.2            | --                            | --                              | -- | -- | -- |    |    |
|              |               | 703                                    | Mar. 23, 1951      | --                         | --        | --           | --             | --          | --            | --                              | 167                        | --            | 139          | --                         | --        | --               | --                                  | 99                                       | 855 | 7.6            | --                            | --                              | -- | -- | -- |    |    |
|              |               | 703                                    | June 13, 1951      | 34                         | 0         | 26           | 10             | 138         | 1.6           | --                              | 170                        | 70            | 139          | --                         | 0         | --               | 503                                 | 106                                      | 867 | 7.9            | 74                            | --                              | -- | -- | -- |    |    |
|              |               | 703                                    | Mar. 24, 1952      | --                         | --        | --           | --             | --          | --            | --                              | 163                        | --            | 155          | --                         | --        | --               | --                                  | --                                       | 94  | 943            | 7.5                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Mar. 28, 1952      | --                         | --        | 23           | 10             | --          | --            | --                              | 181                        | 90            | 155          | --                         | --        | --               | --                                  | 528                                      | 101 | --             | 8.2                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Oct. 15, 1952      | --                         | --        | --           | --             | --          | --            | --                              | 167                        | --            | 149          | --                         | --        | --               | --                                  | --                                       | 101 | 911            | 7.8                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Oct. 16, 1952      | --                         | --        | 26           | 10             | --          | --            | --                              | 163                        | 83            | 253          | --                         | --        | --               | --                                  | 536                                      | 104 | --             | 8.0                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | June 3, 1953       | --                         | --        | --           | --             | --          | --            | --                              | 165                        | --            | 152          | --                         | --        | --               | --                                  | --                                       | 105 | 934            | 8.0                           | --                              | -- | -- | -- | -- | -- |
|              |               | 703                                    | Aug. 25, 1953      | --                         | --        | 21           | 9              | --          | --            | --                              | 109                        | 78            | 131          | --                         | --        | --               | --                                  | 498                                      | 89  | --             | 8.2                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Feb. 1, 1954       | --                         | --        | 20           | 10             | --          | --            | --                              | 166                        | 78            | 223          | 0.8                        | --        | --               | --                                  | 542                                      | 100 | --             | 8.0                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | June 23, 1954      | --                         | --        | --           | --             | --          | --            | --                              | 168                        | --            | 140          | --                         | --        | --               | --                                  | --                                       | 93  | 869            | 8.0                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Nov. 16, 1955      | --                         | --        | 22           | 13             | 172         | --            | --                              | 165                        | 84            | 150          | .7                         | --        | --               | --                                  | 527                                      | 108 | --             | 8.0                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | May 10, 1956       | --                         | --        | --           | --             | --          | --            | --                              | 166                        | --            | 145          | --                         | --        | --               | --                                  | --                                       | 95  | 882            | 7.7                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | June 14, 1957      | --                         | --        | 26           | 7              | --          | --            | --                              | --                         | 88            | 144          | .7                         | --        | --               | --                                  | 532                                      | 94  | --             | 8.1                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Sept. 26, 1957     | --                         | --        | 30           | 6              | --          | --            | --                              | --                         | 94            | 146          | 1.3                        | --        | --               | --                                  | 508                                      | 98  | --             | 7.7                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | July 3, 1958       | --                         | --        | 21           | 7              | --          | --            | --                              | 162                        | 60            | 147          | .7                         | --        | --               | --                                  | 523                                      | 98  | --             | 8.4                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | May 7, 1963        | --                         | --        | 26           | 7              | --          | --            | --                              | --                         | 81            | 140          | .4                         | --        | --               | --                                  | 560                                      | 94  | --             | 8.7                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | June 14, 1964      | --                         | --        | 25           | 9              | --          | --            | --                              | --                         | 86            | 150          | .4                         | --        | --               | --                                  | 503                                      | 99  | --             | 8.6                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Sept. 8, 1967      | --                         | --        | 26           | 6              | --          | --            | --                              | --                         | 84            | 140          | 1.1                        | --        | --               | --                                  | 533                                      | 90  | --             | 8.0                           | --                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Dec. 2, 1970       | --                         | --        | 22           | 8              | 177         | --            | --                              | --                         | 102           | 155          | 1.2                        | --        | --               | --                                  | 554                                      | 88  | --             | 7.9                           | 86                              | -- | -- | -- | -- |    |
|              |               | 703                                    | Dec. 14, 1971      | --                         | --        | 131          | 12             | 124         | --            | --                              | --                         | 180           | 205          | .6                         | --        | --               | --                                  | 755                                      | 376 | --             | 7.9                           | 46                              | -- | -- | -- | -- |    |
| 703          | Apr. 17, 1973 | --                                     | --                 | 25                         | 6         | 187          | --             | --          | --            | 108                             | 163                        | .3            | --           | --                         | --        | 614              | 88                                  | --                                       | 8.3 | 86             | --                            | --                              | -- | -- |    |    |    |
| 705          | Qtal 6        | 798                                    | Oct. 26, 1965      | 29                         | .03       | 34           | 10             | 100         | 47            | 170                             | 92                         | 84            | .7           | 0                          | 0.09      | 439              | 128                                 | 729                                      | 7.2 | 62             | 3.8                           | 0.23                            |    |    |    |    |    |
| 708          | Qal Rg        | 52                                     | Sept. 28, 1937     | 28                         | .45       | 146          | 25             | 211         | 14            | 328                             | 348                        | 217           | .1           | 2.9                        | --        | 1,170            | 468                                 | --                                       | --  | 48             | --                            | --                              | -- |    |    |    |    |
|              |               | 52                                     | Sept. 29, 1938     | 20                         | --        | 153          | 28             | 200         | --            | 308                             | 355                        | 218           | --           | 4.2                        | --        | --               | 1,170                               | 497                                      | --  | --             | --                            | --                              | -- | -- |    |    |    |
|              |               | 52                                     | June 12, 1940      | --                         | --        | 154          | 29             | 223         | --            | 344                             | 370                        | 225           | --           | 4.0                        | --        | --               | 1,180                               | 504                                      | --  | --             | --                            | --                              | -- | -- |    |    |    |
|              |               | 52                                     | Dec. 3, 1940       | --                         | --        | 160          | 30             | 209         | --            | 336                             | 371                        | 220           | --           | 8.0                        | --        | --               | 1,160                               | 523                                      | --  | --             | --                            | --                              | -- | -- |    |    |    |
|              |               | 52                                     | Mar. 25, 1952      | --                         | --        | --           | --             | --          | --            | --                              | 196                        | --            | 102          | --                         | --        | --               | --                                  | 241                                      | 876 | 7.7            | --                            | --                              | -- | -- |    |    |    |
|              |               | 52                                     | Feb. 16, 1953      | 38                         | --        | 27           | 9.8            | 130         | --            | 193                             | 97                         | 89            | 1.2          | 4.3                        | --        | --               | 492                                 | 108                                      | 808 | 7.9            | 72                            | --                              | -- | -- |    |    |    |
| 709          | Qtal 6        | 807                                    | June 25, 1937      | 29                         | .22       | 30           | 10             | 130         | 7.0           | 180                             | 97                         | 111           | .9           | .1                         | --        | 499              | 116                                 | --                                       | --  | 68             | --                            | --                              | -- |    |    |    |    |
|              |               | 807                                    | May 15, 1939       | 25                         | .1        | 36           | 7.5            | 105         | --            | 170                             | 105                        | 63            | --           | --                         | --        | --               | 408                                 | 120                                      | --  | 7.8            | --                            | --                              | -- | -- |    |    |    |
|              |               | 807                                    | June 5, 1940       | 26                         | --        | 28           | 9.8            | 109         | --            | 171                             | 102                        | 60            | --           | --                         | --        | --               | 416                                 | 109                                      | --  | --             | --                            | --                              | -- | -- |    |    |    |
|              |               | 807                                    | June 10, 1940      | 30                         | .02       | 29           | 10             | 128         | --            | 182                             | 97                         | 100           | --           | 0                          | --        | --               | 488                                 | 114                                      | --  | --             | --                            | --                              | -- | -- |    |    |    |
|              |               | 807                                    | June 20, 1941      | 49                         | --        | 30           | 10             | 141         | --            | 180                             | 95                         | 69            | --           | --                         | --        | --               | 426                                 | 116                                      | --  | 8.6            | --                            | --                              | -- | -- |    |    |    |
|              |               | 807                                    | May 8, 1942        | 47                         | --        | 29           | 11             | 116         | --            | 193                             | 88                         | 80            | --           | --                         | --        | --               | 448                                 | 111                                      | --  | 8.3            | --                            | --                              | -- | -- |    |    |    |
|              |               | 807                                    | June 2, 1942       | 32                         | --        | 35           | 13             | 135         | --            | 192                             | 131                        | 100           | --           | --                         | --        | --               | 495                                 | 148                                      | --  | 8.0            | --                            | --                              | -- | -- |    |    |    |
|              |               | 807                                    | do                 | --                         | --        | 29           | 10             | 130         | --            | 180                             | 99                         | 98            | --           | 0                          | --        | --               | 460                                 | 114                                      | --  | --             | --                            | --                              | -- | -- |    |    |    |
|              |               | 807                                    | Sept. 17, 1942     | --                         | --        | 31           | 11             | 134         | --            | 188                             | 103                        | 109           | --           | 0                          | --        | --               | 481                                 | 123                                      | --  | --             | --                            | --                              | -- | -- |    |    |    |
|              |               | 807                                    | July 13, 1954      | --                         | --        | 27           | 9.4            | --          | --            | --                              | 163                        | 120           | 85           | 1.8                        | --        | --               | --                                  | 460                                      | 107 | --             | 8.3                           | --                              | -- | -- | -- |    |    |
|              |               | 807                                    | Aug. 30, 1954      | --                         | --        | 11           | --             | --          | --            | --                              | 214                        | 120           | 76           | .8                         | --        | --               | --                                  | 513                                      | 112 | --             | 7.8                           | --                              | -- | -- | -- |    |    |
|              |               | 807                                    | Mar. 23, 1956      | --                         | --        | 34           | 5              | 102         | --            | --                              | 178                        | 64            | 62           | .7                         | --        | --               | --                                  | 396                                      | 105 | --             | 8.4                           | --                              | -- | -- | -- |    |    |
|              |               | 807                                    | May 15, 1957       | --                         | --        | 31           | 5              | --          | --            | --                              | --                         | 66            | 61           | .7                         | --        | --               | --                                  | 407                                      | 98  | --             | 8.1                           | --                              | -- | -- | -- |    |    |
|              |               | 807                                    | Feb. 18, 1958      | --                         | --        | 17           | 8              | --          | --            | --                              | --                         | 76            | 62           | 1.2                        | --        | --               | --                                  | 408                                      | 78  | --             | 8.3                           | --                              | -- | -- | -- |    |    |
| 710          | Qal Rg        | 126-151                                | Dec. 5, 1967       | 40                         | --        | 143          | 29             | 497         | 9.2           | 180                             | 520                        | 640           | --           | 2.2                        | --        | 1,970            | 476                                 | 3,150                                    | 7.6 | 69             | 9.9                           | 0                               |    |    |    |    |    |
|              |               | 641-666                                | Dec. 6, 1967       | 25                         | --        | 65           | 18             | 120         | 7.9           | 150                             | 106                        | 195           | .4           | 0                          | --        | 1,170            | 236                                 | 1,070                                    | 7.4 | 51             | 3.4                           | 0                               |    |    |    |    |    |
|              |               | 730                                    | June 21, 1968      | 26                         | 1.1       | 122          | 27             | 100         | 7.9           | 190                             | 163                        | 216           | .4           | .7                         | .08       | 759              | 416                                 | 1,320                                    | 7.2 | 34             | 2.1                           | 0                               |    |    |    |    |    |
| 711          | Qtal 6        | 376-401                                | Jan. 17, 1968      | 26                         | --        | 8.2          | 1.5            | 109         | 3.4           | 174                             | 59                         | 45            | 1.0          | 0                          | --        | 339              | 26                                  | 546                                      | 7.9 | 88             | 9.3                           | 2.32                            |    |    |    |    |    |
|              |               | 376-401                                | Jan. 18, 1968      | --                         | .09       | 9            | 3              | --          | --            | 95                              | 40                         | --            | --           | --                         | --        | 384              | 34                                  | --                                       | 8.1 | --             | --                            | --                              |    |    |    |    |    |
|              |               | 528-553                                | Jan. 19, 1968      | --                         | --        | 4            | 3              | --          | --            | 108                             | 65                         | --            | --           | --                         | --        | 554              | 24                                  | --                                       | 8.3 | --             | --                            | --                              |    |    |    |    |    |
|              |               | do                                     | do                 | 31                         | --        | 2,260        | 476            | 5,220       | 54            | 40                              | 989                        | 12,900        | --           | --                         | --        | 22,000           | 7,600                               | 33,100                                   | 6.4 | 60             | --                            | 0                               |    |    |    |    |    |
|              |               | 641                                    | Feb. 16, 1968      | 26                         | .01       | 34           | 7.6            | 110         | 4.2           | 200                             | 104                        | 64            | 1.2          | 0                          | .11       | 449              | 116                                 | 734                                      | 7.9 | 66             | 4.4                           | .95                             |    |    |    |    |    |
| 641          | do            | --                                     | --                 | 35                         | 6         | --           | --             | --          | 108           | 65                              | --                         | --            | --           | 458                        | 112       | --               | 7.9                                 | --                                       | --  | --             | --                            |                                 |    |    |    |    |    |
| 641          | Nov. 3, 1969  | --                                     | --                 | 62                         | 13        | 132          | --             | --          | 167           | 95                              | 1.2                        | --            | --           | 697                        | 208       | --               | 7.9                                 | 64                                       | --  | --             | --                            |                                 |    |    |    |    |    |
| 641          | Mar. 18, 1970 | --                                     | --                 | 54                         | 13        | 139          | --             | --          | --            | 151                             | 105                        | .8            | --           | --                         | 573       | 189              | --                                  | 8.1                                      | 67  | --             | --                            |                                 |    |    |    |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well           | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |    |
|----------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|----|----|
| JL-49-13-711   | Qtal 6  | 641 to 641                             | Dec. 13, 1971      | --                         | 0.05      | 54           | 13             | 157         | --            | --                              | 156                        | 120           | 1.4          | --                         | --        | 608              | 188                                 | --                                       | 8.0 | 69             | --                            | --                              |    |    |    |
|                |         |  | Aug. 10, 1972      | --                         | <.01      | 58           | 14             | 145         | --            | --                              | 165                        | 112           | 112          | 1.3                        | --        | --               | 637                                 | 204                                      | --  | 8.2            | 67                            | --                              | -- |    |    |
| 712            | Qal Rg  | 52                                     | July 20, 1967      | --                         | --        | --           | --             | --          | --            | 284                             | 452                        | 240           | --           | --                         | --        | --               | 628                                 | 1,890                                    | 7.9 | --             | --                            | 0                               |    |    |    |
| 713            | Qal Rg  | 52                                     | July 21, 1967      | --                         | --        | --           | --             | --          | --            | 228                             | 448                        | 402           | --           | --                         | --        | --               | 420                                 | 2,390                                    | 7.8 | --             | --                            | 0                               |    |    |    |
| 714            | Qal Rg  | 49                                     | July 20, 1967      | --                         | --        | --           | --             | --          | --            | 247                             | 1,260                      | 840           | --           | --                         | --        | --               | 1,750                               | 4,560                                    | 7.4 | --             | --                            | 0                               |    |    |    |
| 715            | Qtal 6  | 49                                     | July 21, 1967      | --                         | --        | --           | --             | --          | --            | 312                             | 552                        | 2,220         | --           | --                         | --        | --               | 600                                 | 7,920                                    | 7.7 | --             | --                            | 0                               |    |    |    |
| 716            | Qtal 6  | 425                                    | Jan. 5, 1935       | --                         | --        | --           | --             | --          | --            | 177                             | 112                        | 94            | --           | --                         | --        | --               | 260                                 | --                                       | --  | --             | --                            | --                              |    |    |    |
|                |         |  | Sept. 11, 1935     | --                         | --        | 84           | 17             | 75          | --            | --                              | 180                        | 122           | 119          | --                         | 0.3       | --               | 506                                 | 280                                      | --  | --             | --                            | --                              | -- |    |    |
|                |         |  | Feb. 28, 1936      | --                         | --        | 85           | 19             | 66          | --            | --                              | 181                        | 130           | 106          | --                         | .1        | --               | 496                                 | 290                                      | --  | --             | --                            | --                              | -- | -- |    |
|                |         |  | Apr. 22, 1936      | --                         | --        | --           | --             | --          | --            | --                              | 180                        | --            | 120          | --                         | --        | --               | --                                  | 330                                      | --  | --             | --                            | --                              | -- | -- |    |
|                |         |  | Oct. 28, 1936      | --                         | --        | 95           | 22             | 74          | --            | --                              | 186                        | 133           | 140          | --                         | 0         | --               | 556                                 | 328                                      | --  | --             | --                            | --                              | -- | -- |    |
|                |         |  | June 25, 1937      | 28                         | .78       | 105          | 21             | 91          | 5.4           | --                              | 191                        | 154           | 165          | .8                         | .1        | --               | 706                                 | 349                                      | --  | --             | 36                            | --                              | -- | -- |    |
|                |         |  | May 3, 1938        | --                         | .25       | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | --                                  | --                                       | --  | --             | --                            | --                              | -- | -- | -- |
|                |         |  | June 3, 1938       | 22                         | --        | 117          | 26             | 89          | --            | --                              | 202                        | 173           | 174          | .11                        | --        | --               | 704                                 | 399                                      | --  | --             | --                            | --                              | -- | -- | -- |
|                |         |  | Aug. 15, 1938      | 25                         | --        | 170          | 25             | 79          | --            | --                              | 200                        | 190           | 171          | --                         | --        | --               | 771                                 | 531                                      | --  | --             | --                            | --                              | -- | -- | -- |
|                |         |  | do                 | 38                         | .03       | 115          | 23             | 93          | 7.2           | --                              | 199                        | 172           | 176          | 0                          | .3        | --               | 722                                 | 362                                      | --  | --             | 34                            | --                              | -- | -- | -- |
|                |         |  | Aug. 23, 1939      | --                         | --        | 133          | 28             | 88          | --            | --                              | 216                        | 236           | 153          | --                         | 0         | --               | 792                                 | 447                                      | --  | --             | --                            | --                              | -- | -- | -- |
|                |         |  | do                 | 12                         | .5        | 126          | 25.1           | 111         | --            | --                              | 216                        | 260           | 149          | --                         | --        | --               | 820                                 | 417                                      | --  | --             | 7.1                           | --                              | -- | -- | -- |
|                |         |  | Sept. 23, 1939     | 27                         | --        | 120          | 25.3           | 129         | --            | --                              | 216                        | 260           | 170          | --                         | --        | --               | 828                                 | 404                                      | --  | --             | --                            | --                              | -- | -- | -- |
|                |         |  | 717                | Qtal 6                     | 509       | Jan. 7, 1935 | --             | --          | --            | --                              | --                         | --            | 173          | 112                        | 319       | --               | --                                  | --                                       | --  | 234            | --                            | --                              | -- | -- | -- |
| Aug. 23, 1935  | --      | --                                     |                    |                            |           | --           | --             | --          | --            | 164                             | --                         | 316           | --           | --                         | --        | --               | --                                  | 165                                      | --  | --             | --                            | --                              | -- |    |    |
| Apr. 22, 1936  | --      | --                                     |                    |                            |           | 49           | 16             | 230         | --            | --                              | 170                        | 107           | 310          | 0                          | --        | 796              | 188                                 | --                                       | --  | --             | --                            | --                              | -- |    |    |
| Oct. 28, 1936  | --      | --                                     |                    |                            |           | 56           | 17             | 240         | --            | --                              | 170                        | 97            | 348          | --                         | 0         | --               | 842                                 | 219                                      | --  | --             | --                            | --                              | -- |    |    |
| Apr. 19, 1937  | 31      | .06                                    |                    |                            |           | 57           | 17             | 247         | --            | --                              | 169                        | 105           | 352          | --                         | .1        | --               | 904                                 | 212                                      | --  | --             | --                            | --                              | -- |    |    |
| Nov. 2, 1937   | --      | --                                     |                    |                            |           | 56           | 17             | --          | --            | --                              | 174                        | 104           | 331          | --                         | 0         | --               | --                                  | 210                                      | --  | --             | --                            | --                              | -- | -- |    |
| Sept. 28, 1938 | 31      | --                                     |                    |                            |           | 56           | 17             | 244         | --            | --                              | 176                        | 109           | 342          | --                         | 0         | --               | 898                                 | 210                                      | --  | --             | --                            | --                              | -- |    |    |
| Nov. 14, 1939  | --      | --                                     |                    |                            |           | --           | --             | 222         | --            | --                              | 170                        | 110           | 380          | --                         | 0         | --               | 904                                 | 308                                      | --  | --             | --                            | --                              | -- |    |    |
| June 11, 1940  | --      | --                                     |                    |                            |           | 68           | 21             | 262         | --            | --                              | 172                        | 115           | 400          | --                         | 0         | --               | 951                                 | 256                                      | --  | --             | --                            | --                              | -- |    |    |
| Nov. 29, 1940  | --      | --                                     |                    |                            |           | 66           | 21             | 259         | --            | --                              | 178                        | 113           | 390          | --                         | 0         | --               | 937                                 | 251                                      | --  | --             | --                            | --                              | -- |    |    |
| June 17, 1941  | --      | --                                     |                    |                            |           | 55           | 22             | 268         | --            | --                              | 164                        | 113           | 408          | 0                          | 0         | --               | 937                                 | 228                                      | --  | --             | --                            | --                              | -- |    |    |
| Sept. 19, 1941 | --      | --                                     |                    |                            |           | 64           | 21             | 260         | --            | --                              | 168                        | 112           | 395          | --                         | 0         | --               | 935                                 | 246                                      | --  | --             | --                            | --                              | -- |    |    |
| Sept. 19, 1941 | --      | --                                     |                    |                            |           | 64           | 21             | 260         | --            | --                              | 170                        | 123           | 462          | --                         | 0         | --               | 1,059                               | 298                                      | --  | --             | --                            | --                              | -- |    |    |
| June 2, 1942   | --      | --                                     |                    |                            |           | 77           | 24             | 286         | --            | --                              | 165                        | 126           | 458          | --                         | 1.0       | --               | 1,053                               | 290                                      | --  | --             | --                            | --                              | -- |    |    |
| Sept. 15, 1942 | --      | --                                     |                    |                            |           | 82           | 24             | 286         | --            | --                              | 177                        | 127           | 460          | --                         | 0         | --               | 1,066                               | 303                                      | --  | --             | --                            | --                              | -- |    |    |
| Mar. 26, 1943  | --      | --                                     |                    |                            |           | 94           | 27             | 295         | --            | --                              | 166                        | 136           | 502          | --                         | 1.5       | --               | 1,140                               | 346                                      | --  | --             | --                            | --                              | -- |    |    |
| Feb. 12, 1944  | --      | --                                     |                    |                            |           | 85           | 30             | 289         | --            | --                              | 161                        | 136           | 490          | --                         | 0         | --               | 1,110                               | 336                                      | --  | --             | --                            | --                              | -- |    |    |
| May 8, 1944    | --      | --                                     |                    |                            |           | 89           | 27             | 270         | --            | --                              | 164                        | 134           | 458          | --                         | .2        | --               | 1,060                               | 333                                      | --  | --             | --                            | --                              | -- |    |    |
| May 23, 1945   | --      | --                                     |                    |                            |           | 97           | 29             | 285         | --            | --                              | 183                        | 140           | 485          | --                         | 1.0       | --               | 1,130                               | 361                                      | --  | --             | --                            | --                              | -- |    |    |
| Mar. 25, 1946  | --      | --                                     |                    |                            |           | --           | --             | --          | --            | --                              | 176                        | --            | 488          | --                         | --        | --               | --                                  | --                                       | --  | --             | --                            | --                              | -- |    |    |
| Apr. 28, 1947  | --      | --                                     | 92                 | 32                         | 280       | --           | --             | 170         | 151           | 478                             | --                         | .2            | --           | 1,150                      | 361       | --               | --                                  | --                                       | --  | --             |                               |                                 |    |    |    |
| Apr. 22, 1949  | 34      | --                                     | --                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | --                                  | --                                       | --  | --             |                               |                                 |    |    |    |
| 718            | Qal Rg  | 80                                     | Aug. 5, 1966       | 29                         | 1.3       | 228          | 44             | 238         | 9.5           | 362                             | 586                        | 270           | .6           | .8                         | --        | 1,590            | 752                                 | 2,380                                    | 7.3 | 40             | 3.8                           | 0                               |    |    |    |
| 719            | Qtal 6  | 646                                    | Jan. 5, 1935       | --                         | --        | --           | --             | --          | --            | 273                             | 200                        | 98            | --           | --                         | --        | --               | 444                                 | --                                       | --  | --             | --                            | --                              |    |    |    |
|                |         |  | Sept. 16, 1935     | --                         | --        | 124          | 23             | 99          | --            | --                              | 268                        | 227           | 115          | --                         | .3        | --               | 720                                 | 404                                      | --  | --             | --                            | --                              |    |    |    |
|                |         |  | Feb. 25, 1936      | --                         | --        | 130          | 26             | 92          | --            | --                              | 272                        | 238           | 113          | --                         | .3        | --               | 733                                 | 432                                      | --  | --             | --                            | --                              |    |    |    |
| 722            | Qtal 6  | 394                                    | Aug. 29, 1935      | --                         | --        | --           | --             | --          | --            | 129                             | --                         | 99            | --           | --                         | --        | --               | 222                                 | --                                       | --  | --             | --                            |                                 |    |    |    |
| 723            | Qtal 6  | 304                                    | Feb. 28, 1936      | --                         | --        | 123          | 23             | 178         | --            | 277                             | 281                        | 190           | .1           | .9                         | --        | 933              | 402                                 | --                                       | --  | --             | --                            |                                 |    |    |    |
|                |         |  | Dec. 11, 1938      | 28                         | .10       | 136          | 24             | 196         | 9.1           | 311                             | 313                        | 208           | 0            | .1                         | --        | 1,070            | 438                                 | --                                       | --  | 48             | --                            | --                              |    |    |    |
| 725            | Qtal 6  | 220                                    | June 3, 1976       | 29                         | --        | 230          | 71             | 790         | 18            | 222                             | 420                        | 1,400         | .8           | --                         | --        | 3,070            | 870                                 | 5,430                                    | 8.0 | 66             | 12                            | --                              |    |    |    |
| 801            | Qtal 6  | 802                                    | Sept. 1, 1933      | 16                         | --        | 25           | 5.2            | 161         | --            | 191                             | 66                         | 147           | --           | --                         | --        | 538              | 84                                  | --                                       | --  | --             | --                            |                                 |    |    |    |
|                |         |  | Mar. 30, 1935      | 14                         | --        | 31           | 7.4            | 147         | --            | 208                             | 61                         | 138           | --           | --                         | --        | 528              | 109                                 | --                                       | --  | --             | --                            |                                 |    |    |    |
|                |         |  | Aug. 19, 1935      | --                         | --        | --           | --             | --          | --            | --                              | 172                        | --            | 138          | --                         | --        | --               | 72                                  | --                                       | --  | --             | --                            | --                              |    |    |    |
|                |         |  | Sept. 16, 1935     | --                         | --        | 21           | 8.0            | 156         | --            | 183                             | 76                         | 139           | --           | 0                          | --        | 490              | 85                                  | --                                       | --  | --             | --                            |                                 |    |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH   | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|------|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-13-801 | Qtal 6        | 802                                    | Mar. 17, 1937      | 31                         | --        | 30           | 10             | 184         | --            | 174                             | 78                         | 202           | --           | 0.05                       | --        | 611              | 116                                 | --                                       | --   | 75             | --                            | --                              |    |    |
|              |               | 802                                    | June 13, 1938      | 25                         | 1.8       | 22           | 6.0            | 167         | --            | 187                             | 84                         | 132           | --           | --                         | --        | --               | 307                                 | 132                                      | --   | --             | --                            | --                              |    |    |
|              |               | 802                                    | Sept. 24, 1938     | 35                         | --        | 20           | 8.1            | 156         | --            | 186                             | 83                         | 130           | --           | 0                          | --        | --               | 316                                 | 83                                       | --   | --             | --                            | --                              |    |    |
|              |               | 802                                    | Aug. 31, 1938      | 26                         | 2.6       | 20           | 7.4            | 154         | --            | 187                             | 77                         | 129           | --           | --                         | --        | --               | 305                                 | 80                                       | --   | --             | --                            | --                              |    |    |
|              |               | 802                                    | May 1, 1939        | 23                         | 1.6       | 30           | 4.0            | 167         | --            | 183                             | 117                        | 130           | --           | --                         | --        | --               | 331                                 | 112                                      | --   | 7.5            | --                            | --                              |    |    |
|              |               | 802                                    | June 4, 1940       | 48                         | --        | 22           | 6.8            | 158         | --            | 169                             | 89                         | 124           | --           | --                         | --        | --               | 306                                 | 83                                       | --   | --             | --                            | --                              | -- |    |
|              |               | 802                                    | June 10, 1940      | --                         | --        | 22           | 8.0            | 158         | --            | 188                             | 90                         | 130           | --           | 0                          | --        | --               | 301                                 | 88                                       | --   | --             | --                            | --                              | -- |    |
|              |               | 802                                    | Aug. 29, 1940      | 28                         | --        | 23           | 8.2            | 148         | --            | 183                             | 85                         | 124           | --           | --                         | --        | --               | 315                                 | 92                                       | --   | 8.1            | --                            | --                              | -- |    |
|              |               | 802                                    | Nov. 28, 1940      | --                         | --        | 20           | 7.7            | 155         | --            | 188                             | 80                         | 129           | --           | 0                          | --        | --               | 484                                 | 82                                       | --   | --             | --                            | --                              | -- |    |
|              |               | 802                                    | Mar. 19, 1941      | 36                         | 3.8       | 26           | 8.3            | 138         | --            | 191                             | 82                         | 145           | --           | --                         | --        | --               | 545                                 | 99                                       | --   | 7.9            | --                            | --                              | -- |    |
|              |               | 802                                    | June 16, 1941      | --                         | --        | 23           | 6.9            | 156         | --            | 176                             | 74                         | 136           | 0.9          | 0                          | --        | --               | 489                                 | 86                                       | --   | --             | --                            | --                              | -- |    |
|              |               | 802                                    | Sept. 18, 1941     | 40                         | --        | 26           | 9.0            | 158         | --            | 195                             | 80                         | 142           | --           | 0                          | --        | --               | 518                                 | 102                                      | --   | 7.5            | --                            | --                              | -- |    |
|              |               | 802                                    | Feb. 6, 1942       | 40                         | --        | 25           | 10             | 162         | --            | 197                             | 85                         | 145           | --           | --                         | --        | --               | 515                                 | 104                                      | --   | 8.3            | --                            | --                              | -- |    |
|              |               | 802                                    | June 2, 1942       | --                         | --        | 20           | 7.4            | 152         | --            | 184                             | 66                         | 135           | --           | 0                          | --        | --               | 471                                 | 80                                       | --   | --             | --                            | --                              | -- |    |
|              |               | 802                                    | do                 | 44                         | --        | 25           | 12             | 172         | --            | 193                             | 105                        | 156           | --           | --                         | --        | --               | 521                                 | 117                                      | --   | 8.2            | --                            | --                              | -- |    |
|              |               | 802                                    | Mar. 23, 1943      | --                         | --        | 25           | 7.7            | 153         | --            | 186                             | 76                         | 137           | --           | --                         | --        | --               | 491                                 | 94                                       | --   | --             | --                            | --                              | -- |    |
|              |               | 802                                    | Feb. 11, 1944      | --                         | --        | 22           | 7.0            | 155         | --            | 185                             | 75                         | 136           | --           | --                         | 1.2       | --               | 486                                 | 84                                       | --   | --             | --                            | --                              | -- | -- |
|              |               | 802                                    | May 6, 1944        | --                         | --        | 20           | 6.7            | 158         | --            | 188                             | 76                         | 132           | --           | 1.0                        | --        | --               | 486                                 | 78                                       | --   | --             | --                            | --                              | -- | -- |
|              |               | 802                                    | May 22, 1945       | --                         | --        | 23           | 7.3            | 153         | --            | 181                             | 76                         | 136           | --           | 0                          | --        | --               | 526                                 | 88                                       | --   | --             | --                            | --                              | -- | -- |
|              |               | 802                                    | Mar. 25, 1946      | --                         | --        | 22           | 7.0            | 168         | --            | 205                             | 77                         | 142           | --           | 0                          | --        | --               | 544                                 | 84                                       | --   | --             | --                            | --                              | -- | -- |
|              |               | 802                                    | May 9, 1947        | 41                         | --        | 24           | 12             | 144         | --            | 180                             | 72                         | 138           | --           | --                         | --        | --               | 517                                 | 109                                      | --   | 8.0            | --                            | --                              | -- |    |
|              |               | 802                                    | June 23, 1948      | 34                         | 5         | 25           | --             | --          | --            | 184                             | 72                         | 141           | --           | --                         | --        | --               | 513                                 | --                                       | --   | --             | --                            | --                              | -- | -- |
|              |               | 802                                    | Apr. 22, 1949      | 32                         | --        | 19           | 7.1            | 76          | --            | 181                             | 77                         | 139           | --           | 0                          | --        | --               | 524                                 | 76                                       | 901  | 8.1            | 82                            | --                              | -- |    |
|              |               | 802                                    | Aug. 3, 1949       | --                         | --        | --           | --             | --          | --            | --                              | --                         | 137           | --           | --                         | --        | --               | --                                  | --                                       | 901  | --             | --                            | --                              | -- | -- |
|              |               | 802                                    | Feb. 9, 1950       | --                         | --        | --           | --             | --          | --            | 181                             | --                         | 133           | --           | --                         | --        | --               | --                                  | 74                                       | 895  | 8.1            | --                            | --                              | -- | -- |
|              |               | 802                                    | Aug. 1950          | --                         | --        | --           | --             | --          | --            | 181                             | --                         | 132           | --           | --                         | --        | --               | --                                  | 74                                       | 880  | 8.3            | --                            | --                              | -- | -- |
|              |               | 802                                    | Mar. 14, 1951      | --                         | --        | 20           | 6.1            | --          | --            | 178                             | 80                         | 135           | --           | --                         | --        | --               | 502                                 | 75                                       | --   | 8.1            | --                            | --                              | -- | -- |
|              |               | 802                                    | Mar. 22, 1951      | --                         | --        | --           | --             | --          | --            | 182                             | --                         | 131           | --           | --                         | --        | --               | --                                  | 76                                       | 864  | 7.7            | --                            | --                              | -- | -- |
|              |               | 802                                    | Mar. 28, 1952      | --                         | --        | 17           | 7.9            | --          | --            | 174                             | 86                         | 141           | --           | --                         | --        | --               | 520                                 | 75                                       | --   | 8.1            | --                            | --                              | -- | -- |
|              |               | 802                                    | Oct. 16, 1952      | --                         | --        | 20           | 7.9            | --          | --            | 173                             | 80                         | 138           | --           | --                         | --        | --               | 519                                 | 82                                       | --   | 8.1            | --                            | --                              | -- | -- |
|              |               | 802                                    | do                 | --                         | --        | --           | --             | --          | --            | 181                             | --                         | 130           | --           | --                         | --        | --               | --                                  | 74                                       | 872  | 8.1            | --                            | --                              | -- | -- |
|              |               | 802                                    | June 3, 1953       | --                         | 0         | --           | --             | --          | --            | 184                             | --                         | 134           | --           | --                         | --        | --               | --                                  | 74                                       | 884  | 8.2            | --                            | --                              | -- | -- |
|              |               | 802                                    | Aug. 22, 1953      | --                         | 1         | 18           | 6.7            | --          | --            | 183                             | 76                         | 129           | --           | --                         | --        | --               | 517                                 | 72                                       | --   | 8.2            | --                            | --                              | -- | -- |
|              |               | 802                                    | Feb. 8, 1954       | --                         | 1         | 15           | 8.5            | --          | --            | 183                             | 84                         | 141           | --           | 9                          | --        | --               | 521                                 | 73                                       | --   | 8.3            | --                            | --                              | -- | -- |
|              |               | 802                                    | June 23, 1954      | --                         | --        | --           | --             | --          | --            | 184                             | --                         | 135           | --           | --                         | --        | --               | --                                  | 70                                       | 837  | 8.0            | --                            | --                              | -- | -- |
|              |               | 802                                    | July 15, 1954      | --                         | 1         | 16           | 8              | --          | --            | 178                             | 84                         | 133           | 1.0          | --                         | --        | --               | 563                                 | 74                                       | --   | 8.3            | --                            | --                              | -- | -- |
|              |               | 802                                    | Sept. 19, 1955     | --                         | --        | --           | --             | --          | --            | 186                             | --                         | 134           | --           | --                         | --        | --               | --                                  | 74                                       | 880  | 8.2            | --                            | --                              | -- | -- |
|              |               | 802                                    | Nov. 1, 1955       | --                         | 0.01      | 17           | 7              | 188         | --            | 184                             | 84                         | 135           | 1.0          | --                         | --        | --               | 542                                 | 73                                       | --   | 8.2            | --                            | --                              | -- | -- |
|              |               | 802                                    | May 24, 1957       | --                         | 0.02      | 20           | 6              | --          | --            | --                              | 64                         | 136           | --           | 8                          | --        | --               | 536                                 | 76                                       | --   | 8.2            | --                            | --                              | -- | -- |
|              |               | 802                                    | Sept. 26, 1957     | --                         | 0.02      | 54           | 14             | --          | --            | --                              | 76                         | 276           | 7            | --                         | --        | --               | 787                                 | 208                                      | --   | 7.7            | --                            | --                              | -- | -- |
|              |               | 700                                    | Dec. 6, 1957       | --                         | 1         | 81           | 19             | --          | --            | --                              | 88                         | 467           | 6            | --                         | --        | --               | 1,119                               | 282                                      | --   | 8.4            | --                            | --                              | -- | -- |
|              |               | 725                                    | Dec. 9, 1957       | --                         | 0.08      | 76           | 23             | --          | --            | --                              | 86                         | 466           | 6            | --                         | --        | --               | 1,120                               | 284                                      | --   | 8.4            | --                            | --                              | -- | -- |
|              |               | 750                                    | do                 | --                         | 0.16      | 72           | 22             | --          | --            | --                              | 86                         | 451           | 6            | --                         | --        | --               | 1,085                               | 272                                      | --   | 8.4            | --                            | --                              | -- | -- |
|              |               | 790                                    | Dec. 11, 1957      | --                         | 0.22      | 74           | 22             | --          | --            | --                              | 85                         | 451           | 6            | --                         | --        | --               | 1,093                               | 276                                      | --   | 8.4            | --                            | --                              | -- | -- |
|              |               | 802                                    | Feb. 26, 1958      | --                         | 0.22      | 19           | 8              | --          | --            | 188                             | 77                         | 143           | 7            | --                         | --        | --               | 539                                 | 80                                       | --   | 8.2            | --                            | --                              | -- | -- |
|              |               | 802                                    | Apr. 7, 1964       | --                         | 0.02      | 82           | 13             | --          | --            | --                              | 91                         | 445           | 4            | --                         | --        | --               | 1,051                               | 259                                      | --   | 7.7            | --                            | --                              | -- | -- |
|              |               | 802                                    | July 20, 1964      | --                         | 0.02      | 20           | 7              | --          | --            | --                              | 80                         | 155           | 7            | --                         | --        | --               | 512                                 | 79                                       | --   | 8.4            | --                            | --                              | -- | -- |
| 802          | Sept. 8, 1967 | --                                     | 0.02               | 62                         | 16        | --           | --             | --          | 98            | 415                             | 6                          | --            | --           | --                         | 1,031     | 220              | --                                  | 8.1                                      | --   | --             | --                            | --                              |    |    |
| 802          | Nov. 4, 1970  | --                                     | 0.13               | 72                         | 23        | 301          | --             | --          | 115           | 485                             | 6                          | --            | --           | --                         | 1,079     | 276              | --                                  | 7.7                                      | --   | --             | --                            | --                              |    |    |
| 802          | Apr. 12, 1973 | --                                     | 0.01               | 72                         | 27        | 309          | --             | --          | 94            | 515                             | 4                          | --            | --           | --                         | 1,254     | 290              | --                                  | 7.9                                      | 76   | --             | --                            | --                              |    |    |
| 802          | Qtal 6        | 470                                    | May 24, 1957       | 20                         | 1         | 44.9         | 14.3           | 141.9       | --            | 195.2                           | 45.2                       | 192.0         | --           | --                         | --        | 681              | 171                                 | 1,103                                    | 7.78 | --             | --                            | --                              |    |    |
|              |               | 470                                    | Mar. 28, 1960      | 28                         | --        | 54           | 20             | 186         | --            | 166                             | 97                         | 272           | --           | 2                          | --        | 759              | 216                                 | 1,310                                    | 7.5  | 65             | --                            | --                              |    |    |
|              |               | 470                                    | Aug. 4, 1961       | --                         | --        | --           | --             | --          | --            | --                              | 153                        | 275           | --           | --                         | --        | --               | 217                                 | 1,300                                    | 7.6  | --             | --                            | --                              | -- |    |
|              |               | 470                                    | July 16, 1963      | --                         | --        | --           | --             | --          | --            | 168                             | --                         | 270           | --           | --                         | --        | --               | 236                                 | 1,270                                    | 7.2  | --             | --                            | --                              | -- |    |
|              |               | 470                                    | June 23, 1965      | --                         | --        | --           | --             | --          | --            | --                              | 94                         | 270           | --           | --                         | --        | --               | --                                  | 1,330                                    | --   | --             | --                            | --                              | -- |    |
| 803          | Qtal 6        | 354                                    | Apr. 24, 1951      | 28                         | --        | 47           | 20             | 136         | --            | 171                             | 80                         | 193           | --           | 5                          | --        | 601              | 200                                 | 1,040                                    | 8.1  | 60             | --                            | --                              |    |    |
| 804          | Qtal 6        | 882                                    | Jan. 1, 1935       | --                         | --        | --           | --             | --          | --            | 153                             | 60                         | 256           | --           | --                         | --        | --               | 204                                 | --                                       | --   | --             | --                            | --                              |    |    |
|              |               | 882                                    | Sept. 11, 1935     | --                         | --        | 45           | 15             | 170         | --            | 164                             | 54                         | 250           | --           | 1.1                        | --        | 616              | 174                                 | --                                       | --   | --             | --                            | --                              |    |    |
|              |               | 882                                    | Apr. 22, 1936      | --                         | --        | --           | --             | --          | --            | 160                             | --                         | 249           | --           | --                         | --        | --               | 210                                 | --                                       | --   | --             | --                            | --                              | -- |    |
|              |               | 882                                    | Oct. 28, 1936      | --                         | --        | 42           | 14             | 166         | --            | 166                             | 53                         | 235           | --           | --                         | --        | 593              | 162                                 | --                                       | --   | --             | --                            | --                              |    |    |

See footnotes at end of table.



Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-13-804 | Qtal 6        | 882                                    | May 26, 1937       | 36                         | 0.1       | 57           | 20             | 76          | 7.2           | 198                             | 85                         | 100           | --           | 6.5                        | --        | 491              | 224                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |               | 882                                    | June 13, 1938      | 31                         | 4.1       | 50           | 17             | 178         | --            | 165                             | 63                         | 270           | --           | --                         | --        | --               | 698                                 | 195                                      | --    | --             | --                            | --                              | -- |    |
|              |               | 882                                    | Nov. 4, 1938       | 26                         | 5         | 50           | 19             | 181         | --            | 162                             | 59                         | 285           | --           | --                         | --        | --               | 717                                 | 203                                      | --    | --             | --                            | --                              | -- |    |
|              |               | 882                                    | do                 | 31                         | --        | 51           | 16             | 177         | --            | 158                             | 56                         | 274           | --           | --                         | --        | --               | 669                                 | 193                                      | --    | --             | --                            | --                              | -- |    |
|              |               | 882                                    | May 15, 1939       | 24                         | --        | 64           | 17             | 167         | --            | 161                             | 80                         | 268           | --           | --                         | --        | --               | 730                                 | 249                                      | --    | 7.1            | --                            | --                              | -- |    |
|              |               | 882                                    | Dec. 21, 1939      | 26                         | --        | 51           | 15             | 195         | --            | 157                             | 75                         | 260           | --           | --                         | --        | --               | 715                                 | 190                                      | --    | 7.9            | --                            | --                              | -- |    |
|              |               | 882                                    | Apr. 16, 1940      | 31                         | 1.2       | 52           | 16             | 173         | --            | 160                             | 57                         | 272           | --           | --                         | --        | --               | 733                                 | 198                                      | --    | --             | --                            | --                              | -- |    |
|              |               | 882                                    | June 10, 1940      | --                         | --        | 52           | 17             | 185         | --            | 162                             | 70                         | 280           | --           | --                         | 1.0       | --               | 685                                 | 200                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 882                                    | Aug. 29, 1940      | 27                         | --        | 49           | 16             | 172         | --            | 161                             | 56                         | 264           | --           | --                         | 1         | --               | 715                                 | 190                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 882                                    | Apr. 16, 1941      | 36                         | --        | 59           | 30             | 173         | --            | 166                             | 65                         | 315           | --           | --                         | --        | --               | 789                                 | 268                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 882                                    | June 16, 1941      | --                         | --        | 52           | 17             | 178         | --            | 162                             | 56                         | 278           | 0.7          | --                         | .8        | --               | 662                                 | 200                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 882                                    | May 20, 1942       | 46                         | --        | 64           | 22             | 198         | --            | 160                             | 76                         | 350           | --           | --                         | --        | --               | 846                                 | 251                                      | --    | 8.2            | --                            | --                              | -- | -- |
|              |               | 882                                    | June 2, 1942       | --                         | --        | 52           | 17             | 187         | --            | 157                             | 60                         | 295           | --           | --                         | .5        | --               | 689                                 | 200                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 882                                    | Sept. 14, 1942     | --                         | --        | 52           | 17             | 182         | --            | 161                             | 58                         | 284           | --           | --                         | 2.5       | --               | 675                                 | 200                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 882                                    | May 22, 1945       | --                         | --        | 56           | 16             | 217         | --            | 145                             | 63                         | 350           | --           | --                         | .5        | --               | 836                                 | 206                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 882                                    | May 14, 1947       | 36                         | --        | 57           | 22             | 195         | --            | 155                             | 85                         | 312           | --           | --                         | --        | --               | 776                                 | 223                                      | --    | 7.8            | --                            | --                              | -- | -- |
|              |               | 882                                    | Apr. 22, 1949      | 31                         | --        | 42           | 19             | 213         | --            | 136                             | 144                        | 282           | --           | --                         | 3.2       | --               | 813                                 | 183                                      | 1,410 | 8.2            | 72                            | --                              | -- | -- |
|              |               | 882                                    | Aug. 2, 1949       | 28                         | --        | 39           | 18             | 184         | --            | 169                             | 57                         | 266           | --           | --                         | 0         | --               | 684                                 | 172                                      | 1,240 | 8.0            | 70                            | --                              | -- | -- |
|              |               | 882                                    | Feb. 9, 1950       | --                         | --        | --           | --             | --          | --            | 159                             | --                         | 268           | --           | --                         | --        | --               | --                                  | --                                       | 1,240 | 7.9            | --                            | --                              | -- | -- |
|              |               | 882                                    | Apr. 3, 1950       | --                         | --        | 49           | 16.7           | --          | --            | 152                             | 60                         | 297           | --           | --                         | --        | --               | 698                                 | 192                                      | --    | 8.4            | --                            | --                              | -- | -- |
|              |               | 882                                    | May 31, 1950       | 34                         | --        | 49           | 18             | 173         | --            | 160                             | 58                         | 268           | .7           | --                         | 1.0       | --               | 688                                 | 196                                      | 1,250 | 7.6            | 66                            | --                              | -- | -- |
|              |               | 882                                    | June 23, 1950      | --                         | --        | --           | --             | --          | --            | 160                             | --                         | 260           | --           | --                         | --        | --               | --                                  | 180                                      | 1,210 | 7.9            | --                            | --                              | -- | -- |
|              |               | 882                                    | Oct. 4, 1950       | --                         | --        | --           | --             | --          | --            | 160                             | --                         | 262           | --           | --                         | --        | --               | --                                  | 192                                      | 1,230 | 7.9            | --                            | --                              | -- | -- |
|              |               | 882                                    | Sept. 18, 1951     | --                         | --        | --           | --             | --          | --            | 161                             | 56                         | 278           | --           | --                         | --        | --               | --                                  | 200                                      | 1,270 | 8.2            | --                            | --                              | -- | -- |
|              |               | 882                                    | Nov. 30, 1951      | --                         | --        | 49           | 16.7           | --          | --            | 153                             | 57                         | 297           | --           | --                         | --        | --               | 715                                 | 190                                      | --    | 8.1            | --                            | --                              | -- | -- |
|              |               | 882                                    | Sept. 30, 1952     | 32                         | --        | 48           | 17             | 187         | --            | 159                             | 56                         | 286           | .6           | 3                          | --        | --               | 736                                 | 190                                      | 1,280 | 8.1            | 68                            | --                              | -- | -- |
|              |               | 882                                    | Aug. 27, 1953      | --                         | V         | 44           | 16             | --          | --            | 155                             | 73                         | 270           | .7           | --                         | --        | --               | 732                                 | 174                                      | --    | 8.2            | --                            | --                              | -- | -- |
|              |               | 882                                    | Feb. 1, 1954       | --                         | V         | 43           | 16.9           | --          | --            | 168                             | 70                         | 191           | .7           | --                         | --        | --               | 726                                 | 177                                      | --    | 8.1            | --                            | --                              | -- | -- |
|              |               | 882                                    | June 24, 1954      | --                         | V         | --           | --             | --          | --            | 159                             | --                         | 288           | --           | --                         | --        | --               | --                                  | 182                                      | 1,260 | 7.9            | --                            | --                              | -- | -- |
|              |               | 882                                    | July 15, 1954      | --                         | V         | 42           | 22             | --          | --            | 156                             | 60                         | 276           | .8           | --                         | --        | --               | 745                                 | 198                                      | --    | 8.1            | --                            | --                              | -- | -- |
|              |               | 882                                    | Sept. 30, 1957     | --                         | V         | 54           | 14             | --          | --            | --                              | 74                         | 279           | .7           | --                         | --        | --               | 729                                 | 206                                      | --    | 7.7            | --                            | --                              | -- | -- |
|              |               | 882                                    | July 3, 1958       | --                         | V         | 37           | 19             | --          | --            | --                              | 36                         | 285           | .8           | --                         | --        | --               | 718                                 | 174                                      | --    | 8.4            | --                            | --                              | -- | -- |
|              |               | 882                                    | Sept. 18, 1958     | --                         | V         | 51           | 17             | --          | --            | --                              | 48                         | 290           | .5           | --                         | --        | --               | 724                                 | 198                                      | --    | 8.1            | --                            | --                              | -- | -- |
|              |               | 882                                    | Apr. 30, 1959      | --                         | V         | 46           | 3              | --          | --            | --                              | 60                         | 270           | .6           | --                         | --        | --               | 702                                 | 124                                      | --    | 7.7            | --                            | --                              | -- | -- |
|              |               | 882                                    | Aug. 12, 1960      | --                         | V         | 56           | 9              | --          | --            | --                              | 16                         | 269           | .7           | --                         | --        | --               | 695                                 | 176                                      | --    | 8.5            | --                            | --                              | -- | -- |
|              |               | 882                                    | Aug. 2, 1961       | --                         | V         | --           | --             | --          | --            | 160                             | --                         | 272           | --           | --                         | --        | --               | --                                  | 180                                      | 1,220 | 7.5            | --                            | --                              | -- | -- |
|              |               | 882                                    | Aug. 10, 1961      | --                         | V         | 45           | 15             | --          | --            | --                              | 63                         | 290           | .5           | --                         | --        | --               | 719                                 | 180                                      | --    | 8.3            | --                            | --                              | -- | -- |
|              |               | 882                                    | Apr. 9, 1962       | --                         | V         | 46           | 11             | --          | --            | --                              | 66                         | 275           | .6           | --                         | --        | --               | 698                                 | 188                                      | --    | 8.1            | --                            | --                              | -- | -- |
|              |               | 882                                    | May 7, 1963        | --                         | V         | 48           | 17             | --          | --            | --                              | 71                         | 285           | .4           | --                         | --        | --               | 681                                 | 190                                      | --    | 8.7            | --                            | --                              | -- | -- |
|              |               | 882                                    | July 18, 1963      | --                         | V         | --           | --             | --          | --            | 160                             | --                         | 255           | --           | --                         | --        | --               | --                                  | 184                                      | 1,150 | 7.3            | --                            | --                              | -- | -- |
|              |               | 882                                    | June 23, 1965      | --                         | V         | --           | --             | --          | --            | --                              | --                         | 265           | --           | --                         | --        | --               | --                                  | --                                       | 1,180 | --             | --                            | --                              | -- | -- |
|              |               | 882                                    | Sept. 30, 1965     | --                         | V         | 52           | 15             | --          | --            | --                              | 22                         | 295           | .5           | --                         | --        | --               | 727                                 | 190                                      | --    | 8.3            | --                            | --                              | -- | -- |
|              |               | 882                                    | Aug. 8, 1967       | --                         | V         | 59           | 13             | --          | --            | --                              | 74                         | 270           | .7           | --                         | --        | --               | 693                                 | 201                                      | --    | 8.0            | --                            | --                              | -- | -- |
|              |               | 882                                    | do                 | --                         | V         | --           | --             | --          | --            | --                              | 64                         | 250           | --           | --                         | --        | --               | 232                                 | 246                                      | 1,180 | 7.9            | --                            | --                              | 0  | -- |
|              |               | 882                                    | Sept. 10, 1969     | --                         | V         | 73           | 15             | 147         | --            | --                              | 36                         | 280           | .5           | --                         | --        | --               | 732                                 | 244                                      | --    | 8.3            | 63                            | --                              | -- | -- |
|              |               | 882                                    | Sept. 9, 1970      | --                         | V         | 9            | 25             | 168         | --            | --                              | 77                         | 355           | .2           | --                         | --        | --               | 796                                 | 338                                      | --    | 7.4            | 58                            | --                              | -- | -- |
|              |               | 882                                    | Oct. 12, 1972      | --                         | V         | 96           | 25             | 162         | --            | --                              | 81                         | 340           | .1           | --                         | --        | --               | 1,152                               | 340                                      | --    | 7.9            | 57                            | --                              | -- | -- |
| 882          | Apr. 17, 1973 | --                                     | V                  | 109                        | 17        | 165          | --             | --          | 75            | 345                             | --                         | --            | --           | --                         | 958       | 340              | --                                  | 8.0                                      | 57    | --             | --                            | --                              |    |    |
| 805          | Qtal 6        | 862                                    | Aug. 30, 1926      | 31                         | --        | --           | --             | --          | --            | --                              | --                         | 196           | --           | --                         | --        | 558              | 133                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |               | 862                                    | Aug. 30, 1930      | 14                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 220          | --                         | --        | --               | 659                                 | 157                                      | --    | --             | --                            | --                              | -- |    |
|              |               | 862                                    | Sept. 3, 1931      | 24                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 189          | --                         | --        | --               | 668                                 | 151                                      | --    | --             | --                            | --                              | -- |    |
|              |               | 862                                    | Aug. 19, 1932      | 22                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 246          | --                         | --        | --               | 694                                 | 162                                      | --    | --             | --                            | --                              | -- |    |
|              |               | 862                                    | Aug. 30, 1933      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 284          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- |
|              |               | 862                                    | Aug. 18, 1934      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 397          | --                         | --        | --               | 984                                 | --                                       | --    | --             | --                            | --                              | -- | -- |
|              |               | 862                                    | June 29, 1936      | --                         | --        | 43           | 18             | 120         | --            | 184                             | 72                         | 152           | --           | 3.0                        | --        | --               | 499                                 | 181                                      | --    | --             | --                            | --                              | -- |    |
|              |               | 862                                    | Aug. 15, 1936      | 36                         | --        | --           | --             | --          | --            | --                              | --                         | 252           | --           | --                         | --        | --               | 699                                 | 231                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 862                                    | Oct. 28, 1936      | --                         | --        | 50           | 17             | 168         | --            | 162                             | 66                         | 253           | --           | 1.2                        | --        | --               | 635                                 | 195                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 862                                    | May 6, 1937        | --                         | --        | 49           | 19             | 128         | --            | 174                             | 66                         | 188           | --           | 3.3                        | --        | --               | 539                                 | 200                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 862                                    | June 25, 1937      | 33                         | --        | 48           | 16             | 166         | 9.6           | 158                             | 65                         | 252           | 1.0          | 1.7                        | --        | --               | 672                                 | 186                                      | --    | 64             | --                            | --                              | -- | -- |
|              |               | 862                                    | Oct. 29, 1937      | 0                          | --        | 50           | 18             | 161         | --            | 162                             | 66                         | 246           | --           | 1.4                        | --        | --               | 199                                 | --                                       | --    | 64             | --                            | --                              | -- | -- |
|              |               | 862                                    | Mar. 11, 1938      | 33                         | --        | 80           | 20             | 130         | --            | 162                             | 73                         | 252           | --           | --                         | --        | --               | 720                                 | 282                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 862                                    | June 13, 1938      | 24                         | --        | 51           | 15             | 165         | --            | 161                             | 71                         | 242           | --           | --                         | --        | --               | 684                                 | 189                                      | --    | --             | --                            | --                              | -- | -- |
|              |               | 862                                    | Sept. 23, 1938     | 32                         | --        | 52           | 18             | 174         | --            | 162                             | 71                         | 258           | --           | --                         | 1.2       | --               | 691                                 | 194                                      | --    | --             | --                            | --                              | -- | -- |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer                    | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |    |    |    |
|--------------|----------------------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|----|----|----|----|
| JL-49-13-805 | Qtal 6                     | 862                                    | Sept. 23, 1938     | 31                         | 5         | 49           | 18             | 170         | --            | 159                             | 76                         | 255           | --           | --                         | --        | 680              | 196                                 | --                                       | --    | --             | --                            | --                              |    |    |    |    |    |
|              |                            | 862                                    | May 1, 1939        | 25                         | .7        | 54           | 12             | 196         | --            | 159                             | 113                        | 258           | --           | --                         | --        | --               | 724                                 | 186                                      | --    | 7.9            | --                            | --                              | -- |    |    |    |    |
|              |                            | 862                                    | Feb. 29, 1940      | 28                         | --        | 63           | 24             | 137         | --            | 170                             | 72                         | 242           | --           | --                         | --        | --               | 702                                 | 257                                      | --    | 7.9            | --                            | --                              | -- |    |    |    |    |
|              |                            | 862                                    | Apr. 16, 1940      | 27                         | .35       | 53           | 17.5           | 166         | --            | 160                             | 82                         | 247           | --           | --                         | --        | --               | 670                                 | 205                                      | --    | --             | --                            | --                              | -- |    |    |    |    |
|              |                            | 862                                    | June 10, 1940      | --                         | --        | 54           | 19             | 168         | --            | 168                             | 72                         | 258           | --           | --                         | 1.8       | --               | 656                                 | 213                                      | --    | --             | --                            | --                              | -- | -- |    |    |    |
|              |                            | 862                                    | Aug. 29, 1940      | 31                         | --        | 50           | 16             | 160         | --            | 160                             | 79                         | 232           | --           | --                         | --        | --               | 705                                 | 192                                      | --    | 7.9            | --                            | --                              | -- | -- |    |    |    |
|              |                            | 862                                    | Mar. 5, 1941       | 37                         | --        | 2.8          | 64             | 23          | 155           | --                              | 181                        | 64            | 265          | --                         | --        | --               | 722                                 | 252                                      | --    | 7.7            | --                            | --                              | -- | -- |    |    |    |
|              |                            | 862                                    | June 16, 1941      | --                         | --        | --           | 53             | 17          | 164           | --                              | 163                        | 65            | 252          | 0.9                        | 1.5       | --               | 634                                 | 202                                      | --    | --             | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 862                                    | June 2, 1942       | 36                         | --        | --           | 64             | 24          | 182           | --                              | 167                        | 96            | 295          | --                         | --        | --               | 749                                 | 259                                      | --    | 8.0            | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 862                                    | June 7, 1942       | --                         | --        | --           | 57             | 21          | 172           | --                              | 162                        | 70            | 280          | --                         | --        | 1.2              | 681                                 | 229                                      | --    | --             | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 862                                    | May 22, 1945       | --                         | --        | --           | 60             | 20          | 175           | --                              | 158                        | 71            | 289          | --                         | --        | 2.2              | 780                                 | 232                                      | --    | --             | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | May 25, 1946       | --                         | --        | --           | 55             | 19          | 180           | --                              | 169                        | 67            | 282          | --                         | --        | 1.5              | 702                                 | 216                                      | --    | --             | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | June 7, 1948       | 36                         | --        | --           | 42             | 17          | 172           | --                              | 170                        | 82            | 228          | --                         | --        | 1.8              | 689                                 | 175                                      | 1,180 | --             | 68                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | June 8, 1948       | 29                         | 5         | --           | 46             | 16          | --            | --                              | 161                        | 82            | 228          | --                         | --        | --               | 671                                 | 176                                      | --    | 8.5            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Apr. 22, 1949      | 36                         | --        | --           | 56             | 21          | 172           | --                              | 161                        | 76            | 274          | --                         | --        | 2.2              | 743                                 | 226                                      | 1,270 | 8.0            | 62                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Aug. 2, 1949       | --                         | --        | --           | --             | --          | --            | --                              | 66                         | 66            | 279          | --                         | --        | --               | --                                  | --                                       | 1,310 | --             | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Feb. 15, 1950      | --                         | --        | --           | --             | --          | --            | --                              | 159                        | --            | 288          | --                         | --        | --               | --                                  | 250                                      | 1,320 | 8.0            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Apr. 3, 1950       | --                         | --        | --           | 63             | 22          | --            | --                              | 155                        | 71            | 297          | --                         | --        | --               | 601                                 | 250                                      | --    | 8.3            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | June 22, 1950      | --                         | --        | --           | --             | --          | --            | --                              | 160                        | --            | 292          | --                         | --        | --               | --                                  | 242                                      | 1,310 | 8.0            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Apr. 15, 1951      | --                         | --        | --           | --             | --          | --            | --                              | --                         | 76            | 290          | --                         | --        | --               | --                                  | --                                       | 1,330 | --             | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | May 2, 1951        | --                         | --        | --           | --             | --          | --            | --                              | --                         | 74            | 290          | --                         | --        | --               | --                                  | --                                       | 1,330 | --             | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Sept. 19, 1951     | --                         | --        | --           | --             | --          | --            | --                              | 162                        | --            | 296          | --                         | --        | --               | --                                  | --                                       | 1,350 | --             | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Nov. 30, 1951      | --                         | --        | --           | 61             | 24          | --            | --                              | 153                        | 72            | 303          | --                         | --        | --               | 776                                 | 260                                      | 1,350 | 7.9            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Mar. 19, 1952      | --                         | --        | --           | --             | --          | --            | --                              | 156                        | 73            | 288          | --                         | --        | --               | --                                  | 185                                      | 1,310 | 7.9            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Oct. 3, 1952       | --                         | --        | --           | --             | --          | --            | --                              | 160                        | --            | 308          | --                         | --        | --               | --                                  | 259                                      | 1,350 | 7.9            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | June 3, 1953       | --                         | --        | --           | --             | --          | --            | --                              | 160                        | --            | 301          | --                         | --        | --               | --                                  | 255                                      | 1,360 | 8.1            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Aug. 26, 1953      | --                         | --        | 4            | 66             | 23          | --            | --                              | 158                        | 70            | 301          | .2                         | --        | --               | --                                  | 884                                      | 260   | --             | 8.1                           | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Feb. 1, 1954       | --                         | --        | 1            | 44             | 23.1        | --            | --                              | 244                        | 80            | 546          | 1.4                        | --        | --               | --                                  | 887                                      | 236   | --             | 8.1                           | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | June 24, 1954      | 34                         | --        | --           | 71             | 29          | 167           | --                              | 160                        | 64            | 325          | .8                         | 2.0       | --               | 772                                 | 296                                      | 1,340 | 7.7            | 55                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | July 15, 1954      | --                         | --        | 1            | 70             | 30          | --            | --                              | 156                        | 72            | 334          | 1.4                        | --        | --               | 973                                 | 300                                      | --    | 8.2            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Dec. 17, 1955      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 490          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | do                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 475          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | Dec. 18, 1955      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 480          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | Dec. 19, 1955      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 485          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | do                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 485          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | Dec. 20, 1955      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 480          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | do                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 475          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | Dec. 21, 1955      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 470          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | do                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 465          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | Dec. 22, 1955      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 470          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | do                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 460          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | Dec. 23, 1955      | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 445          | --                         | --        | --               | --                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |
|              |                            | 862                                    | Sept. 30, 1957     | --                         | --        | .02          | 98             | 29          | --            | --                              | 88                         | 388           | .7           | --                         | --        | --               | 1,036                               | 364                                      | --    | 7.5            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | July 1, 1958       | --                         | --        | .002         | 90             | 27          | --            | --                              | 60                         | 424           | .7           | --                         | --        | --               | 1,149                               | 347                                      | --    | 8.3            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Sept. 18, 1958     | --                         | --        | .02          | 96             | 27          | --            | --                              | 60                         | 490           | .6           | --                         | --        | --               | 1,062                               | 338                                      | --    | 7.5            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Mar. 25, 1959      | --                         | --        | .02          | 137            | 31          | --            | --                              | 64                         | 597           | .6           | --                         | --        | --               | 1,561                               | 470                                      | --    | 7.3            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Aug. 12, 1960      | --                         | --        | .03          | 105            | 24          | --            | --                              | 70                         | 439           | 1.0          | --                         | --        | --               | 1,143                               | 362                                      | --    | 8.6            | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 862                                    | Aug. 2, 1961       | --                         | --        | --           | --             | --          | --            | --                              | 108                        | --            | 452          | --                         | --        | --               | --                                  | 346                                      | 1,730 | --             | 7.5                           | --                              | -- | -- | -- | -- |    |
| 862          | Aug. 10, 1961              | --                                     | --                 | .02                        | 102       | 33           | --             | --          | 86            | 475                             | .6                         | --            | --           | --                         | 1,420     | 392              | --                                  | 7.9                                      | --    | --             | --                            | --                              | -- | -- |    |    |    |
| 862          | May 1, 1962                | --                                     | --                 | .01                        | 99        | 35           | --             | --          | 72            | 470                             | .9                         | --            | --           | --                         | 1,318     | 394              | --                                  | 8.0                                      | --    | --             | --                            | --                              | -- | -- |    |    |    |
| 862          | May 7, 1963                | --                                     | --                 | .01                        | 105       | 24           | --             | --          | 77            | 527                             | .6                         | --            | --           | --                         | 1,849     | 362              | --                                  | 8.6                                      | --    | --             | --                            | --                              | -- | -- |    |    |    |
| 862          | July 18, 1963              | --                                     | --                 | --                         | --        | --           | --             | --          | 146           | --                              | 470                        | --            | --           | --                         | --        | 420              | 1,790                               | --                                       | 7.1   | --             | --                            | --                              | -- | -- |    |    |    |
| 806          | Qal Rg<br>Qal Rg<br>Qtal 6 | 59                                     | Nov. 14, 1938      | 39                         | --        | 129          | 30             | 254         | --            | 352                             | 378                        | 223           | --           | --                         | --        | 1,194            | 445                                 | --                                       | --    | --             | --                            | --                              | -- | -- |    |    |    |
|              |                            | 127                                    | Nov. 16, 1938      | 27                         | --        | 18           | 4.5            | 242         | --            | 313                             | 155                        | 115           | --           | --                         | --        | 677              | 63                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 200                                    | Nov. 17, 1938      | 25                         | --        | 16           | 7.5            | 197         | --            | 214                             | 104                        | 153           | --           | --                         | --        | 583              | 71                                  | --                                       | --    | --             | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 257                                    | Nov. 18, 1938      | 22                         | --        | 31           | 12             | 219         | --            | 249                             | 128                        | 201           | --           | --                         | --        | 736              | 127                                 | --                                       | --    | --             | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 337                                    | Nov. 22, 1938      | 21                         | --        | 42           | 17             | 100         | --            | 180                             | 70                         | 130           | --           | --                         | --        | 448              | 175                                 | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 840                                    | Nov. 30, 1938      | 30                         | --        | 51           | 11             | 385         | --            | 108                             | 101                        | 471           | --           | --                         | --        | 1,000            | 173                                 | --                                       | --    | --             | --                            | --                              | -- | -- | -- | -- |    |
|              |                            | 643                                    | Feb. 26, 1940      | 14                         | --        | 55           | 21             | 161         | --            | 185                             | 78                         | 253           | --           | --                         | --        | 738              | 224                                 | --                                       | 7.7   | --             | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 643                                    | Mar. 2, 1940       | 19                         | .05       | 53           | 20.1           | 184         | --            | 183                             | 97                         | 258           | --           | --                         | --        | 722              | 214                                 | --                                       | 7.8   | --             | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 643                                    | Mar. 3, 1940       | 23                         | --        | 55           | 22             | 215         | --            | 189                             | 101                        | 310           | --           | --                         | --        | 786              | 229                                 | --                                       | 7.9   | --             | --                            | --                              | -- | -- | -- |    |    |
|              |                            | 643                                    | Mar. 4, 1940       | --                         | --        | 67           | 27.8           | 204         | --            | 201                             | 122                        | 306           | --           | --                         | --        | 884              | 280                                 | --                                       | 7.7   | --             | --                            | --                              | -- | -- | -- |    |    |
| 643          | Mar. 5, 1940               | --                                     | --                 | 62                         | 25.4      | 223          | --             | 220         | 129           | 305                             | --                         | --            | --           | 873                        | 260       | --               | 7.8                                 | --                                       | --    | --             | --                            | --                              | -- |    |    |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer                    | Depth of well or sampled interval (ft.) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhmhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |    |    |    |     |    |
|--------------|----------------------------|---|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-------|----------------|-------------------------------|---------------------------------|----|----|----|----|----|-----|----|
| JL-49-13-806 | Qcal 6                     | 643                                     | Mar. 5, 1940       | 19                         | --            | --           | --             | --          | --            | --                              | --                         | 259           | --           | --                         | --        | 729              | 166                                 | --  | --    | --             | --                            | --                              |    |    |    |    |    |     |    |
|              |                            | 643                                     | Mar. 7, 1940       | --                         | --            | 63           | 26.3           | 290         | --            | 220                             | 163                        | 387           | --           | --                         | --        | --               | 1,109                               | 266                                       | --    | 7.8            | --                            | --                              | -- |    |    |    |    |     |    |
|              |                            | 643                                     | Mar. 8, 1940       | --                         | --            | 62           | 26.9           | 329         | --            | 231                             | 168                        | 437           | --           | --                         | --        | --               | 1,184                               | 265                                       | --    | 7.7            | --                            | --                              | -- |    |    |    |    |     |    |
|              |                            | 643                                     | Apr. 13, 1940      | 28                         | --            | 43           | 13             | 157         | --            | 179                             | 72                         | 198           | --           | --                         | --        | --               | 595                                 | 162                                       | --    | --             | --                            | --                              | -- |    |    |    |    |     |    |
|              |                            | 643                                     | Apr. 17, 1940      | 17                         | --            | --           | --             | --          | --            | --                              | --                         | --            | 202          | --                         | --        | --               | --                                  | 588                                       | 131   | --             | --                            | --                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | Aug. 30, 1940      | 31                         | --            | 41           | 15             | 145         | --            | 173                             | 68                         | 189           | --           | --                         | --        | --               | 595                                 | 165                                       | --    | 7.9            | --                            | --                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | May 12, 1941       | 34                         | --            | 64           | 21             | 125         | --            | 185                             | 92                         | 225           | --           | --                         | --        | --               | 667                                 | 285                                       | --    | --             | --                            | --                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | June 16, 1941      | 32                         | --            | 43           | 15             | 149         | --            | 170                             | 62                         | 203           | 0.4          | 0.35                       | --        | --               | 601                                 | 169                                       | --    | --             | --                            | --                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | Apr. 22, 1942      | 32                         | --            | 54           | 21             | 150         | --            | 191                             | 85                         | 223           | --           | --                         | --        | --               | 636                                 | 221                                       | --    | 8.5            | --                            | --                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | June 2, 1942       | 44                         | --            | 35           | 19             | 177         | --            | 181                             | 96                         | 215           | --           | --                         | --        | --               | 591                                 | 165                                       | --    | 7.8            | --                            | --                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | do                 | --                         | --            | 40           | 15             | 156         | --            | 180                             | 68                         | 200           | --           | 2                          | --        | --               | 568                                 | 162                                       | --    | --             | --                            | --                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | Apr. 2, 1949       | 28                         | --            | 50           | 24             | 123         | --            | 169                             | 70                         | 197           | --           | 1.8                        | --        | --               | 590                                 | 224                                       | --    | 1,060          | 7.9                           | 54                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | Apr. 22, 1949      | 29                         | --            | 55           | 21             | 146         | --            | 159                             | 89                         | 225           | --           | 2                          | --        | --               | 675                                 | 224                                       | --    | 1,160          | 7.8                           | 59                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | Feb. 24, 1950      | --                         | --            | --           | --             | --          | --            | --                              | --                         | 159           | --           | 230                        | --        | --               | --                                  | --  | 229   | --             | 1,140                         | 8.0                             | -- | -- | -- |    |    |     |    |
|              |                            | 643                                     | Apr. 3, 1950       | --                         | --            | 39           | 15.7           | --          | --            | 164                             | 75                         | 206           | --           | --                         | --        | --               | 596                                 | 164                                       | --    | 8.0            | --                            | --                              | -- | -- |    |    |    |     |    |
|              |                            | 643                                     | June 22, 1950      | --                         | --            | --           | --             | --          | --            | 166                             | --                         | 201           | --           | --                         | --        | --               | --                                  | 153                                       | --    | 1,030          | 8.0                           | --                              | -- | -- | -- |    |    |     |    |
|              |                            | 643                                     | Mar. 14, 1951      | --                         | --            | 54           | 14.5           | --          | --            | 159                             | 88                         | 224           | --           | --                         | --        | --               | 639                                 | 194                                       | --    | 8.0            | --                            | --                              | -- | -- | -- |    |    |     |    |
|              |                            | 643                                     | May 3, 1951        | 28                         | --            | 56           | 23             | 146         | --            | 162                             | 90                         | 230           | --           | 5                          | --        | --               | 719                                 | 234                                       | --    | 1,170          | 8.1                           | 58                              | -- | -- | -- |    |    |     |    |
|              |                            | 643                                     | Oct. 17, 1952      | --                         | --            | --           | --             | --          | --            | 160                             | --                         | 220           | --           | --                         | --        | --               | --                                  | 189                                       | --    | 1,100          | 7.9                           | --                              | -- | -- | -- | -- |    |     |    |
|              |                            | 643                                     | do                 | --                         | --            | 49           | 17.6           | --          | --            | 156                             | 86                         | 224           | --           | --                         | --        | --               | 644                                 | 196                                       | --    | 7.9            | --                            | --                              | -- | -- | -- | -- |    |     |    |
|              |                            | 643                                     | May 19, 1953       | --                         | --            | --           | --             | --          | --            | 163                             | --                         | 208           | --           | --                         | --        | --               | --                                  | 181                                       | --    | 1,090          | 7.9                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | Feb. 8, 1954       | --                         | --            | 45           | 18.2           | --          | --            | 161                             | 80                         | 237           | 4            | --                         | --        | --               | 638                                 | 188                                       | --    | 8.0            | --                            | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | June 23, 1954      | 33                         | --            | 38           | 16             | 147         | --            | 168                             | 70                         | 190           | 6            | 0                          | --        | --               | --                                  | 161                                       | --    | 1,020          | 7.9                           | 66                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | July 16, 1954      | --                         | --            | 36           | 16             | --          | --            | 163                             | 68                         | 212           | 6            | --                         | --        | --               | --                                  | 630                                       | 156   | --             | 8.1                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | Nov. 8, 1955       | --                         | --            | 34           | 21             | 153         | --            | 167                             | 80                         | 200           | 1.0          | --                         | --        | --               | --                                  | 631                                       | 170   | --             | 8.1                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | Sept. 26, 1957     | --                         | --            | 42           | 12             | --          | --            | 86                              | 179                        | 1.7           | --           | --                         | --        | --               | --                                  | 609                                       | 154   | --             | 7.7                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | Aug. 10, 1961      | --                         | --            | 37           | 14             | --          | --            | 71                              | 140                        | 1.1           | --           | --                         | --        | --               | --                                  | 589                                       | 150   | --             | 8.3                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | Aug. 22, 1962      | --                         | --            | 32           | 16             | --          | --            | 103                             | 200                        | 1.0           | --           | --                         | --        | --               | --                                  | 591                                       | 146   | --             | 7.9                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | May 7, 1963        | --                         | --            | 60           | 26             | --          | --            | 75                              | 195                        | 9             | --           | --                         | --        | --               | --                                  | 655                                       | 146   | --             | 8.9                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | May 15, 1964       | --                         | --            | 41           | 24             | --          | --            | 69                              | 180                        | 8             | --           | --                         | --        | --               | --                                  | 544                                       | 200   | --             | 8.7                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | Sept. 30, 1965     | --                         | --            | 40           | 13             | --          | --            | 89                              | 190                        | 6             | --           | --                         | --        | --               | --                                  | 574                                       | 156   | --             | 7.6                           | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 643                                     | Feb. 23, 1967      | --                         | --            | 70           | 8              | --          | --            | 100                             | 220                        | 2             | --           | --                         | --        | --               | --                                  | 628                                       | 206   | --             | --                            | --                              | -- | -- | -- | -- | -- |     |    |
| 643          | Sept. 30, 1965             | --                                      | --                 | 40                         | 13            | --           | --             | 89          | 190           | 6                               | --                         | --            | --           | --                         | --        | 574              | 156                                 | --  | 7.6   | --             | --                            | --                              | -- | -- | -- |    |    |     |    |
| 643          | Sept. 9, 1970              | --                                      | --                 | 54                         | 15            | 139          | --             | 86          | 195           | 4                               | --                         | --            | --           | --                         | --        | 569              | 196                                 | --  | 7.8   | 67             | --                            | --                              | -- | -- | -- |    |    |     |    |
| 643          | Sept. 9, 1970              | --                                      | --                 | 53                         | 17            | 163          | --             | 90          | 195           | 8                               | --                         | --            | --           | --                         | --        | 602              | 202                                 | --  | 7.7   | 70             | --                            | --                              | -- | -- | -- |    |    |     |    |
| 643          | Dec. 2, 1970               | --                                      | --                 | 51                         | 18            | 144          | --             | --          | 106           | 187                             | 6                          | --            | --           | --                         | --        | 656              | 198                                 | --  | 7.9   | 68             | --                            | --                              | -- | -- | -- |    |    |     |    |
| 643          | July 13, 1972              | --                                      | --                 | .01                        | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | --                                  | --  | --    | --             | --                            | --                              | -- | -- | -- | -- |    |     |    |
| B08          | Qal Kg<br>Qal Ks<br>Qcal 6 | 60                                      | Aug. 28, 1940      | 34                         | --            | 120          | 31             | 177         | --            | 268                             | 286                        | 208           | --           | --                         | --        | 1,050            | 426                                 | --  | 7.9   | --             | --                            | --                              | -- | -- | -- | -- |    |     |    |
|              |                            | 167                                     | Aug. 30, 1940      | 28                         | --            | 89           | 30             | 94          | --            | 201                             | 183                        | 139           | --           | --                         | --        | --               | 696                                 | 348                                       | --    | --             | --                            | --                              | -- | -- | -- | -- |    |     |    |
|              |                            | 343                                     | Sept. 3, 1940      | 23                         | --            | 74           | 25             | 117         | --            | 136                             | 120                        | 216           | --           | --                         | --        | --               | 732                                 | 287                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 400                                     | Sept. 4, 1940      | 20                         | --            | 45           | 18             | 143         | --            | 160                             | 78                         | 177           | --           | --                         | --        | --               | 586                                 | 187                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 460                                     | Sept. 5, 1940      | 23                         | --            | 49           | 17             | 137         | --            | 148                             | 85                         | 200           | --           | --                         | --        | --               | 618                                 | 194                                       | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 535                                     | Sept. 6, 1940      | 24                         | --            | 20           | 7.7            | 92          | --            | 174                             | 68                         | 48            | --           | --                         | --        | --               | 336                                 | 82  | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 617                                     | Sept. 10, 1940     | 23                         | --            | 16           | 4.4            | 99          | --            | 276                             | 63                         | 45            | --           | --                         | --        | --               | 337                                 | 58  | --    | --             | --                            | --                              | -- | -- | -- | -- | -- |     |    |
|              |                            | 681                                     | Sept. 11, 1940     | 28                         | --            | 14           | 3.6            | 120         | --            | 191                             | 87                         | 47            | --           | --                         | --        | --               | 370                                 | 50  | --    | --             | --                            | --                              | -- | -- | -- | -- | -- | --  |    |
|              |                            | 729                                     | Sept. 12, 1940     | 27                         | --            | 12           | 3.1            | 132         | --            | 198                             | 94                         | 51            | --           | --                         | --        | --               | 398                                 | 44  | --    | --             | --                            | --                              | -- | -- | -- | -- | -- | --  |    |
|              |                            | 835                                     | Sept. 14, 1940     | 30                         | --            | 16           | 4.8            | 182         | --            | 198                             | 150                        | 97            | --           | --                         | --        | --               | 576                                 | 61  | --    | --             | --                            | --                              | -- | -- | -- | -- | -- | --  |    |
|              |                            | 622                                     | Sept. 19, 1940     | 28                         | --            | 25           | 8.9            | 106         | --            | 170                             | 78                         | 77            | --           | --                         | --        | --               | 390                                 | 99  | --    | --             | --                            | --                              | -- | -- | -- | -- | -- | --  |    |
|              |                            | 623                                     | Aug. 30, 1966      | 27                         | --            | .39          | 60             | 22          | 112           | 8.3                             | 168                        | 125           | 165          | .4                         | 0         | 0.10             | 603                                 | 240                                       | --    | 7.8            | 49                            | 3.1                             | 0  | -- | -- | -- | -- |     |    |
|              |                            | 810                                     | Qcal 6             | 233-258                    | Jan. 16, 1964 | --           | .008           | 174         | 11            | --                              | --                         | --            | 644          | 925                        | .7        | --               | --                                  | 2,955                                     | 480   | --             | 7.5                           | --                              | -- | -- | -- | -- | -- | --  |    |
|              |                            |   |                    | 320-345                    | Jan. 17, 1964 | --           | .002           | 616         | 134           | --                              | --                         | --            | 571          | 3,250                      | .3        | --               | --                                  | --  | 7,420 | 2,092          | --                            | 7.6                             | -- | -- | -- | -- | -- | --  | -- |
|              |                            |   |                    | 431-456                    | Jan. 20, 1964 | --           | .006           | 433         | 71            | --                              | --                         | --            | 786          | 1,365                      | .3        | --               | --                                  | --  | 4,063 | 1,376          | --                            | 7.0                             | -- | -- | -- | -- | -- | --  | -- |
| 508-533      | do                         |   |                    | --                         | .004          | 171          | 32             | --          | --            | --                              | 430                        | 545           | .2           | --                         | --        | --               | 1,595                               | 558                                       | --    | 7.2            | --                            | --                              | -- | -- | -- | -- | -- |     |    |
| 580-605      | Jan. 21, 1964              |   |                    | --                         | .001          | 37           | 6              | --          | --            | --                              | 155                        | 85            | .2           | --                         | --        | --               | 402                                 | 116                                       | --    | 6.8            | --                            | --                              | -- | -- | -- | -- | -- |     |    |
| 681-706      | Jan. 22, 1964              |   |                    | --                         | .001          | 47           | 5              | --          | --            | --                              | 158                        | 160           | .2           | --                         | --        | --               | 525                                 | 138                                       | --    | 6.9            | --                            | --                              | -- | -- | -- | -- | -- |     |    |
| 776-801      | do                         |   |                    | --                         | .004          | 85           | 10             | --          | --            | --                              | 302                        | 510           | .2           | --                         | --        | --               | 1,138                               | 254                                       | --    | 7.2            | --                            | --                              | -- | -- | -- | -- | -- |     |    |
| 860-885      | Jan. 23, 1964              |   |                    | --                         | .003          | 75           | 17             | --          | --            | --                              | 335                        | 595           | .2           | --                         | --        | --               | 1,332                               | 258                                       | --    | 7.5            | --                            | --                              | -- | -- | -- | -- | -- | --  |    |
| 1,017-1,042  | Jan. 1964                  |   |                    | --                         | .004          | 190          | 43             | --          | --            | --                              | 535                        | 1,110         | .3           | --                         | --        | --               | 2,625                               | 652                                       | --    | 7.0            | --                            | --                              | -- | -- | -- | -- | -- | --  |    |
| 751          | Apr. 7, 1964               |   |                    | --                         | .01           | 58           | 11             | --          | --            | --                              | 71                         | 205           | .5           | --                         | --        | --               | 625                                 | 190                                       | --    | 7.7            | --                            | --                              | -- | -- | -- | -- | -- | --  |    |
| 751          | Aug. 8, 1967               |   |                    | --                         | --            | --           | --             | --          | --            | --                              | 179                        | 54            | 156          | --                         | --        | --               | --                                  | 130                                       | --    | 891            | 7.6                           | --                              | -- | -- | -- | -- | -- | .32 |    |
| 751          | Sept. 10, 1969             |   |                    | --                         | .04           | 40           | 10             | 128         | --            | --                              | 38                         | 168           | .9           | --                         | --        | --               | 557                                 | 142                                       | --    | 8.4            | 72                            | --                              | -- | -- | -- | -- | -- | --  |    |
| 751          | Sept. 9, 1970              |   |                    | --                         | .5            | 66           | 16             | 133         | --            | --                              | 36                         | 240           | .5           | --                         | --        | --               | 578                                 | 232                                       | --    | 7.9            | 62                            | --                              | -- | -- | -- | -- | -- | --  |    |
| 751          | Oct. 12, 1972              | --                                      | .01                | 74                         | 22            | 171          | --             | --          | 49            | 279                             | .4                         | --            | --           | --                         | 915       | 277              | --                                  | 8.1                                       | 64    | --             | --                            | --                              | -- | -- | -- | -- |    |     |    |
| 751          | Apr. 17, 1973              | --                                      | .01                | 105                        | 14            | 155          | --             | --          | --            | 50                              | 330                        | .3            | --           | --                         | 904       | 320              | --                                  | 7.8                                       | 57    | --             | --                            | --                              | -- | -- | -- | -- |    |     |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|
| JL-49-13-812 | Qal Eg  | 53                                     | July 20, 1967      | --                         | --        | --           | --             | --          | --            | 344                             | 168                        | 142           | --           | --                         | --        | --               | 308                                 | 1,270                                    | 7.6 | --             | --                            | 0                               |
| 813          | Qal Kg  | 51                                     | do                 | --                         | --        | --           | --             | --          | --            | 332                             | 764                        | 395           | --           | --                         | --        | --               | 880                                 | 2,900                                    | 7.4 | --             | --                            | 0                               |
| 814          | Qal Kg  | 160                                    | Aug. 1, 1968       | 29                         | --        | 103          | 30             | 114         | 10            | 212                             | 238                        | 162           | 0.6          | 0.3                        | 0.11      | --               | 380                                 | 1,300                                    | 7.6 | 39             | 2.5                           | 0                               |
|              |         | 100-160                                | June 1, 1975       | --                         | --        | 230          | 67             | --          | --            | 398                             | 620                        | 390           | --           | --                         | --        | --               | 850                                 | 2,770                                    | 7.9 | --             | --                            | --                              |
| 815          | Qtal 6  | 396                                    | Jan. 5, 1935       | --                         | --        | --           | --             | --          | --            | 176                             | 68                         | 158           | --           | --                         | --        | --               | 189                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Aug. 27, 1935      | --                         | --        | --           | --             | --          | --            | 150                             | --                         | 175           | --           | --                         | --        | --               | 165                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Apr. 22, 1936      | --                         | --        | 47           | 18             | 129         | --            | 168                             | 71                         | 185           | --           | 0                          | --        | 533              | 191                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Oct. 28, 1936      | --                         | --        | 50           | 19             | 136         | --            | 180                             | 70                         | 198           | --           | 0                          | --        | 562              | 203                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Mar. 19, 1937      | 29                         | 0.06      | 49           | 19             | 131         | 6.6           | 167                             | 73                         | 200           | .6           | .1                         | --        | 592              | 260                                 | --                                       | --  | 58             | --                            | --                              |
|              |         | 396                                    | Oct. 29, 1937      | --                         | --        | 48           | 20             | 134         | --            | 170                             | 64                         | 203           | --           | .2                         | --        | 602              | 202                                 | --                                       | --  | 59             | --                            | --                              |
|              |         | 396                                    | Oct. 3, 1938       | 27                         | --        | 48           | 19             | 142         | --            | 170                             | 79                         | 202           | --           | 0                          | --        | 605              | 198                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Nov. 18, 1939      | --                         | --        | 50           | 19             | 140         | --            | 166                             | 73                         | 209           | --           | 0                          | --        | 613              | 203                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | June 11, 1940      | --                         | --        | 49           | 20             | 152         | --            | 172                             | 80                         | 220           | --           | 0                          | --        | 606              | 204                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Nov. 28, 1940      | --                         | --        | 52           | 19             | 146         | --            | 174                             | 77                         | 215           | --           | 0                          | --        | 595              | 208                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | June 18, 1941      | --                         | --        | 53           | 19             | 144         | --            | 170                             | 73                         | 218           | .5           | .2                         | --        | 591              | 210                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Sept. 18, 1941     | --                         | --        | 50           | 20             | 149         | --            | 170                             | 74                         | 223           | --           | 0                          | --        | 600              | 207                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | June 2, 1942       | --                         | --        | 52           | 19             | 159         | --            | 172                             | 78                         | 235           | --           | 0                          | --        | 628              | 208                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Sept. 15, 1942     | --                         | --        | 54           | 20             | 154         | --            | 172                             | 76                         | 235           | --           | 1.0                        | --        | 625              | 217                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Mar. 27, 1943      | --                         | --        | 59           | 21             | 163         | --            | 170                             | 79                         | 260           | --           | .5                         | --        | 666              | 233                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | Feb. 11, 1944      | --                         | --        | 60           | 22             | 157         | --            | 170                             | 78                         | 256           | --           | .2                         | --        | 657              | 240                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | May 8, 1944        | --                         | --        | 60           | 24             | 157         | --            | 168                             | 80                         | 260           | --           | 1.0                        | --        | 665              | 248                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 396                                    | July 27, 1949      | 28                         | --        | 65           | 31             | 186         | --            | 167                             | 88                         | 330           | --           | 0                          | --        | 880              | 290                                 | 1,470                                    | 8.2 | 58             | --                            | --                              |
|              |         | 396                                    | Feb. 9, 1950       | 28                         | --        | 71           | 27             | 190         | --            | 169                             | 93                         | 329           | --           | 1.0                        | --        | 878              | 288                                 | 1,500                                    | 7.8 | 59             | --                            | --                              |
|              |         | 396                                    | Apr. 24, 1951      | 29                         | --        | 75           | 30             | 188         | --            | 172                             | 94                         | 340           | --           | 1.0                        | --        | 934              | 310                                 | 1,530                                    | 8.1 | 57             | --                            | --                              |
|              |         | 396                                    | Sept. 24, 1951     | --                         | --        | --           | --             | --          | --            | 169                             | --                         | 330           | --           | --                         | --        | 295              | 1,510                               | 7.9                                      | --  | --             | --                            | --                              |
|              |         | 396                                    | May 27, 1952       | --                         | --        | --           | --             | --          | --            | 168                             | 89                         | 340           | --           | --                         | --        | 284              | 1,520                               | 7.6                                      | --  | --             | --                            | --                              |
|              |         | 396                                    | June 3, 1953       | --                         | --        | --           | --             | --          | --            | 167                             | --                         | 348           | --           | --                         | --        | 298              | 1,540                               | 7.7                                      | --  | --             | --                            | --                              |
|              |         | 396                                    | June 24, 1954      | --                         | --        | --           | --             | --          | --            | 169                             | --                         | 348           | --           | --                         | --        | 278              | 1,550                               | 7.8                                      | --  | --             | --                            | --                              |
|              |         | 396                                    | Oct. 28, 1955      | --                         | --        | --           | --             | --          | --            | 169                             | --                         | 350           | --           | --                         | --        | 292              | 1,540                               | 7.9                                      | --  | --             | --                            | --                              |
|              |         | 396                                    | Apr. 10, 1956      | --                         | --        | --           | --             | --          | --            | 166                             | --                         | 345           | --           | --                         | --        | 310              | 1,540                               | 7.8                                      | --  | --             | --                            | --                              |
|              |         | 396                                    | May 22, 1957       | --                         | --        | --           | --             | --          | --            | 162                             | --                         | 375           | --           | --                         | --        | 304              | 1,600                               | 8.0                                      | --  | --             | --                            | --                              |
| 817          | Qtal 6  | 860                                    | Aug. 16, 1935      | --                         | --        | --           | --             | --          | --            | 140                             | --                         | 236           | --           | --                         | --        | --               | 170                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 860                                    | Sept. 11, 1935     | --                         | --        | 46           | 16             | 157         | --            | 167                             | 51                         | 235           | --           | 1.7                        | --        | 589              | 181                                 | 589                                      | --  | --             | --                            | --                              |
|              |         | 860                                    | Apr. 22, 1936      | --                         | --        | --           | --             | --          | --            | 164                             | --                         | 235           | --           | --                         | --        | --               | 225                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 860                                    | May 6, 1937        | --                         | --        | 51           | 19             | 158         | --            | 166                             | 57                         | 249           | --           | 2.5                        | --        | 618              | 205                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 860                                    | June 25, 1937      | 32                         | .24       | 50           | 17             | 158         | 8.0           | 166                             | 51                         | 250           | .9           | 5.0                        | --        | 646              | 195                                 | --                                       | --  | 63             | --                            | --                              |
|              |         | 860                                    | Sept. 11, 1939     | --                         | --        | 66           | 23             | 175         | --            | 174                             | 58                         | 305           | --           | 2.6                        | --        | 757              | 254                                 | --                                       | --  | --             | --                            | --                              |
| 821          | Qal Eg  | 53                                     | July 20, 1967      | --                         | --        | --           | --             | --          | --            | 422                             | 444                        | 230           | --           | --                         | --        | --               | 240                                 | 2,140                                    | 8.2 | --             | --                            | 2.12                            |
| 822          | --      | 260-280                                | Sept. 15, 1956     | --                         | .1        | 186          | 81             | 1,310       | --            | --                              | 370                        | 2,200         | .7           | --                         | --        | 4,810            | 796                                 | --                                       | 8.5 | --             | --                            | --                              |
|              |         | 362-382                                | Sept. 17, 1956     | --                         | .08       | 58           | 20             | 158         | --            | --                              | 56                         | 275           | .7           | --                         | --        | 742              | 228                                 | --                                       | 8.2 | --             | --                            | --                              |
|              |         | 463-483                                | do                 | --                         | .08       | 59           | 20             | 178         | --            | --                              | 62                         | 295           | .5           | --                         | --        | 813              | 228                                 | --                                       | 8.5 | --             | --                            | --                              |
|              |         | 550-570                                | Sept. 19, 1956     | --                         | .3        | 25           | 8              | 162         | --            | --                              | 37                         | 170           | .9           | --                         | --        | 506              | 94                                  | --                                       | 8.4 | --             | --                            | --                              |
|              |         | 658-678                                | Sept. 20, 1956     | --                         | .1        | 38           | 8              | 212         | --            | --                              | 44                         | 315           | .8           | --                         | --        | 724              | 129                                 | --                                       | 8.4 | --             | --                            | --                              |
|              |         | 781-801                                | do                 | --                         | .2        | 61           | 12             | 360         | --            | --                              | 78                         | 555           | .8           | --                         | --        | 1,190            | 202                                 | --                                       | 8.3 | --             | --                            | --                              |
| 823          | Qtal 6  | 770                                    | June 29, 1956      | 32                         | --        | 25           | 8              | 147         | --            | 162                             | 70                         | 147           | 1.0          | 0                          | --        | 510              | 96                                  | 878                                      | 7.8 | 77             | --                            | --                              |
|              |         | 770                                    | Oct. 13, 1958      | --                         | .02       | 25           | 12             | --          | --            | --                              | 53                         | 137           | .7           | --                         | --        | 501              | 112                                 | --                                       | 8.1 | --             | --                            | --                              |
|              |         | 770                                    | Sept. 13, 1960     | --                         | .02       | 26           | 8              | --          | --            | --                              | 66                         | 130           | .7           | --                         | --        | 481              | 98                                  | --                                       | 8.2 | --             | --                            | --                              |
|              |         | 770                                    | July 23, 1962      | --                         | .02       | 24           | 9              | --          | --            | --                              | 68                         | 110           | .5           | --                         | --        | 479              | 98                                  | --                                       | 7.9 | --             | --                            | --                              |
|              |         | 770                                    | July 27, 1965      | --                         | .06       | 24           | 8              | --          | --            | --                              | 73                         | 135           | .6           | --                         | --        | 479              | 93                                  | --                                       | 8.3 | --             | --                            | --                              |
|              |         | 770                                    | Apr. 18, 1966      | --                         | .05       | 27           | 13             | --          | --            | --                              | 84                         | 130           | .4           | --                         | --        | 509              | 120                                 | --                                       | 8.3 | --             | --                            | --                              |
|              |         | 770                                    | Aug. 1, 1966       | 28                         | 0         | 25           | 7.2            | 132         | 5.1           | 166                             | 70                         | 125           | 1.0          | 0                          | .11       | 476              | 93                                  | 819                                      | 7.8 | 74             | 6.0                           | .86                             |
|              |         | 770                                    | Feb. 4, 1967       | --                         | .04       | 60           | 6              | --          | --            | --                              | 89                         | 175           | .4           | --                         | --        | 543              | 184                                 | --                                       | 7.8 | --             | --                            | --                              |
|              |         | 770                                    | July 17, 1967      | --                         | .01       | 86           | 26             | --          | --            | --                              | 220                        | 165           | .5           | --                         | --        | 922              | 324                                 | --                                       | 8.0 | --             | --                            | --                              |
|              |         | 770                                    | do                 | --                         | .02       | 88           | 27             | --          | --            | --                              | 239                        | 165           | .5           | --                         | --        | 942              | 331                                 | --                                       | 8.0 | --             | --                            | --                              |
|              |         | 770                                    | May 12, 1969       | --                         | .01       | 23           | 9              | 134         | --            | --                              | 84                         | 135           | .8           | --                         | --        | 531              | 96                                  | --                                       | 8.1 | 81             | --                            | --                              |
|              |         | 770                                    | July 2, 1969       | --                         | .01       | 23           | 7              | 136         | --            | --                              | 75                         | 120           | .8           | --                         | --        | 527              | 88                                  | --                                       | 8.4 | --             | --                            | --                              |
|              |         | 770                                    | July 7, 1969       | --                         | --        | 24           | 7.2            | --          | --            | 168                             | 72                         | 122           | --           | --                         | --        | 90               | 795                                 | 7.4                                      | --  | --             | --                            | .96                             |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well          | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |     |    |
|---------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|-----|----|
| JL-49-13-823  | Qtal 6  | 770                                    | July 21, 1970      | --                         | --        | 25           | 8              | 128         | --            | --                              | 77                         | 115           | 0.7          | --                         | --        | 432              | 94                                  | --                                       | 8.1   | 80             | --                            | --                              |     |    |
|               |         |  | July 27, 1971      | --                         | 0.06      | 23           | 7.8            | 132         | --            | --                              | 73                         | 120           | .8           | --                         | --        | --               | 435                                 | 90                                       | --    | 8.3            | 81                            | --                              | --  |    |
|               |         |  | July 10, 1972      | --                         | .02       | 28           | 9.2            | 163         | --            | --                              | 84                         | 115           | .4           | --                         | --        | --               | 477                                 | 108                                      | --    | 8.3            | 82                            | --                              | --  |    |
|               |         |  | Mar. 28, 1973      | --                         | V         | 25           | 6              | 134         | --            | --                              | 68                         | 128           | 1.5          | --                         | --        | --               | 530                                 | 93                                       | --    | 8.0            | 80                            | --                              | --  |    |
|               |         |  | Feb. 5, 1974       | --                         | V         | 41           | 12             | 145         | --            | --                              | 92                         | 170           | .5           | --                         | --        | --               | 560                                 | 150                                      | --    | 8.0            | 73                            | --                              | --  |    |
| 824           | Qal Rg  | 67-92                                  | Mar. 10, 1967      | 39                         | .03       | 52           | 17             | 165         | 6.7           | 308                             | 161                        | 106           | .7           | 0.5                        | --        | 699              | 200                                 | 1,100                                    | 7.9   | 63             | 5.1                           | 1.06                            |     |    |
|               |         |  | July 11, 1967      | 32                         | .10       | 112          | 43             | 158         | 8.9           | 186                             | 274                        | 268           | .4           | .5                         | --        | 988              | 456                                 | 1,610                                    | 7.5   | 42             | 3.2                           | 0                               |     |    |
|               | Qtal 6  | 250                                    | July 12, 1967      | 36                         | .01       | 86           | 32             | 168         | 8.9           | 304                             | 299                        | 172           | .4           | 0                          | 0.22      | 883              | 346                                 | 1,400                                    | 7.6   | 51             | 3.9                           | 0                               |     |    |
| 828           | Qtal 6  | 250                                    | July 12, 1967      | 36                         | .05       | 86           | 32             | 170         | 9.2           | 301                             | 226                        | 174           | .5           | 0                          | .23       | 884              | 346                                 | 1,420                                    | 7.6   | 51             | 4.0                           | 0                               |     |    |
|               |         |  | July 14, 1967      | 36                         | .05       | 86           | 32             | 170         | 9.2           | 301                             | 226                        | 174           | .5           | 0                          | .23       | 884              | 346                                 | 1,420                                    | 7.6   | 51             | 4.0                           | 0                               |     |    |
| 829           | Qal Rg  | 150                                    | May 31, 1975       | 28                         | 0         | 39           | 14             | 110         | 5.3           | 164                             | 83                         | 130           | .4           | --                         | --        | 491              | 160                                 | 852                                      | 7.7   | 60             | 3.8                           | --                              |     |    |
|               |         |  | Mar. 30, 1977      | 28                         | --        | 37           | 12             | --          | --            | --                              | 154                        | 73            | 130          | --                         | --        | --               | 580                                 | 140                                      | 829   | 8.0            | --                            | --                              | --  |    |
| 829           | Qal Rg  | 150                                    | May 7, 1975        | 28                         | 0         | 70           | 20             | 140         | 9.7           | 180                             | 190                        | 170           | .5           | --                         | --        | 718              | 260                                 | 1,210                                    | 8.0   | 53             | 3.8                           | --                              |     |    |
| 830           | Qtal 6  | 788                                    | Sept. 22, 1975     | 29                         | --        | 25           | 7.5            | 150         | 6.2           | 180                             | 70                         | 150           | .8           | --                         | --        | 527              | 93                                  | 908                                      | 8.3   | 76             | 6.8                           | --                              |     |    |
| 832           | Qal Rg  | 160                                    | June 3, 1976       | 29                         | 0         | 82           | 23             | 500         | 9.5           | 240                             | 480                        | 450           | .9           | --                         | --        | 1,700            | 300                                 | 2,820                                    | 7.8   | 78             | 13                            | --                              |     |    |
| 902           | Qtal 6  | 704                                    | June 8, 1948       | 36                         | --        | 29           | 11             | 156         | --            | 190                             | 85                         | 150           | --           | 1.2                        | --        | 582              | 118                                 | 957                                      | --    | 74             | --                            | --                              |     |    |
|               |         |  | Nov. 9, 1950       | 32                         | --        | 28           | 11             | 151         | --            | 177                             | 87                         | 146           | --           | 1.5                        | --        | 550              | 115                                 | 923                                      | 7.9   | 74             | --                            | --                              |     |    |
|               |         |  | Oct. 13, 1954      | --                         | V         | 25           | 12             | 145         | --            | --                              | --                         | 80            | 148          | 1.2                        | --        | --               | 584                                 | 111                                      | --    | 8.1            | --                            | --                              | --  |    |
|               |         |  | July 13, 1956      | --                         | V         | --           | --             | --          | --            | --                              | --                         | 172           | --           | 179                        | --        | --               | --                                  | 116                                      | 1,010 | --             | 7.8                           | --                              | --  |    |
|               |         |  | Oct. 13, 1958      | --                         | V         | 33           | 12             | --          | --            | --                              | --                         | 54            | 190          | 1.8                        | --        | --               | 593                                 | 130                                      | --    | 8.1            | --                            | --                              | --  |    |
|               |         |  | Nov. 21, 1959      | --                         | V         | 42           | 13             | --          | --            | --                              | --                         | 73            | 185          | 1.6                        | --        | --               | 615                                 | 158                                      | --    | 7.9            | --                            | --                              | --  |    |
|               |         |  | Sept. 13, 1960     | --                         | V         | 33           | 11             | --          | --            | --                              | --                         | 69            | 200          | --                         | --        | --               | 628                                 | 128                                      | --    | 8.2            | --                            | --                              | --  |    |
|               |         |  | Apr. 5, 1961       | --                         | V         | 44           | 14             | --          | --            | --                              | --                         | 78            | 195          | 1.4                        | --        | --               | 611                                 | 167                                      | --    | 7.9            | --                            | --                              | --  |    |
|               |         |  | Apr. 5, 1962       | --                         | V         | 30           | 11             | --          | --            | --                              | --                         | 69            | 210          | 1.3                        | --        | --               | 604                                 | 120                                      | --    | 7.9            | --                            | --                              | --  |    |
|               |         |  | May 15, 1964       | --                         | V         | 28           | 9              | --          | --            | --                              | --                         | 72            | 200          | 1.0                        | --        | --               | 600                                 | 107                                      | --    | 8.1            | --                            | --                              | --  |    |
|               |         |  | Jan. 22, 1969      | --                         | V         | 27           | 13             | 177         | --            | --                              | --                         | 119           | 205          | .7                         | --        | --               | 654                                 | 122                                      | --    | 8.3            | --                            | --                              | --  |    |
|               |         |  | July 2, 1969       | --                         | V         | 40           | 16             | 153         | --            | --                              | --                         | 65            | 205          | 1.0                        | --        | --               | 653                                 | 166                                      | --    | 8.3            | --                            | --                              | --  |    |
|               |         |  | Sept. 10, 1969     | --                         | V         | 37           | 11             | 152         | --            | --                              | --                         | 50            | 195          | .8                         | --        | --               | 616                                 | 136                                      | --    | 8.3            | 76                            | --                              | --  |    |
|               |         |  | July 21, 1970      | --                         | V         | 40           | 11             | 164         | --            | --                              | --                         | 63            | 215          | .9                         | --        | --               | 574                                 | 146                                      | --    | 7.9            | 76                            | --                              | --  |    |
|               |         |  | July 23, 1971      | --                         | V         | 43           | 6.7            | 159         | --            | --                              | --                         | 56            | 205          | .9                         | --        | --               | 551                                 | 132                                      | --    | 7.9            | 76                            | --                              | --  |    |
|               |         |  | July 13, 1972      | --                         | V         | 39           | 12             | 182         | --            | --                              | --                         | 77            | 232          | 1.1                        | --        | --               | 657                                 | 146                                      | --    | 7.9            | 78                            | --                              | --  |    |
| June 16, 1973 | --      | V                                      | 68                 | 13                         | 185       | --           | --             | --          | 71            | 295                             | .5                         | --            | --           | 797                        | 224       | 1,362            | 7.8                                 | 70                                       | --    | --             |                               |                                 |     |    |
| Feb. 5, 1974  | --      | V                                      | 58                 | 16                         | 185       | --           | --             | --          | 73            | 295                             | .5                         | --            | --           | 806                        | 212       | --               | 7.8                                 | 71                                       | --    | --             |                               |                                 |     |    |
| 903           | Qtal 6  | 619                                    | June 18, 1958      | 36                         | --        | 28           | 10             | 144         | --            | 187                             | 102                        | 115           | --           | 3.0                        | --        | 530              | 111                                 | 867                                      | 8.0   | 74             | --                            | --                              |     |    |
|               |         |  | July 16, 1963      | --                         | --        | --           | --             | --          | --            | --                              | 190                        | --            | 112          | --                         | --        | --               | 110                                 | 836                                      | 7.4   | --             | --                            | .91                             |     |    |
|               |         |  | June 23, 1965      | --                         | --        | --           | --             | --          | --            | --                              | --                         | 92            | 120          | --                         | --        | --               | --                                  | 906                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Aug. 4, 1967       | --                         | --        | --           | --             | --          | --            | --                              | 182                        | 93            | 154          | --                         | --        | --               | 132                                 | 969                                      | 7.6   | --             | --                            | --                              | .34 |    |
|               |         |  | July 11, 1969      | --                         | --        | 43           | 15             | --          | --            | --                              | 182                        | 95            | 200          | --                         | --        | --               | 169                                 | 1,120                                    | 7.5   | --             | --                            | --                              | 0   |    |
| 904           | Qtal 6  | 299                                    | Mar. 13, 1936      | --                         | --        | 399          | 143            | 1,230       | --            | 284                             | 579                        | 2,310         | .3           | 5.8                        | --        | 4,740            | 1,430                               | --                                       | --    | --             | --                            | --                              |     |    |
| 906           | Qtal 6  | 694                                    | Jan. 5, 1935       | --                         | --        | --           | --             | --          | --            | 154                             | 80                         | 206           | --           | --                         | --        | --               | 144                                 | --                                       | --    | --             | --                            | --                              |     |    |
|               |         |  | Aug. 28, 1935      | --                         | --        | --           | --             | --          | --            | --                              | 150                        | --            | 212          | --                         | --        | --               | --                                  | 117                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Apr. 27, 1936      | --                         | --        | 33           | 11             | 172         | --            | --                              | 148                        | 81            | 210          | --                         | .8        | --               | 581                                 | 128                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Nov. 15, 1939      | --                         | --        | --           | --             | 178         | --            | --                              | 151                        | 79            | 218          | --                         | .7        | --               | 586                                 | 126                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Nov. 29, 1940      | --                         | --        | 35           | 11             | 176         | --            | --                              | 160                        | 83            | 210          | --                         | 2.0       | --               | 596                                 | 133                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Sept. 18, 1941     | --                         | --        | 38           | 14             | 155         | --            | --                              | 178                        | 71            | 189          | --                         | 2.5       | --               | 557                                 | 152                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | June 3, 1942       | --                         | --        | 34           | 10             | 176         | --            | --                              | 158                        | 77            | 212          | --                         | .5        | --               | 587                                 | 126                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Sept. 16, 1942     | --                         | --        | --           | --             | --          | --            | --                              | --                         | 75            | 208          | --                         | .5        | --               | --                                  | --                                       | --    | --             | --                            | --                              | --  | -- |
|               |         |  | Mar. 24, 1943      | --                         | --        | 47           | 15             | 171         | --            | --                              | 175                        | 79            | 228          | --                         | 4.0       | --               | 630                                 | 179                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Feb. 15, 1944      | --                         | --        | 36           | 11             | 176         | --            | --                              | 156                        | 76            | 219          | --                         | .8        | --               | 596                                 | 135                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | May 9, 1944        | --                         | --        | 37           | 11             | 178         | --            | --                              | 163                        | 79            | 217          | --                         | 3.5       | --               | 606                                 | 138                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | May 22, 1945       | --                         | --        | 42           | 12             | 165         | --            | --                              | 154                        | 77            | 217          | --                         | .5        | --               | 642                                 | 154                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Mar. 25, 1946      | --                         | --        | 36           | 11             | 181         | --            | --                              | 169                        | 76            | 220          | --                         | .4        | --               | 640                                 | 135                                      | --    | --             | --                            | --                              | --  |    |
|               |         |  | Apr. 26, 1947      | --                         | --        | --           | --             | --          | --            | --                              | 158                        | --            | 225          | --                         | --        | --               | --                                  | --                                       | 1,120 | --             | --                            | --                              | --  |    |
|               |         |  | June 8, 1948       | 40                         | --        | 36           | 12             | 182         | --            | --                              | 164                        | 77            | 227          | --                         | .8        | --               | 673                                 | 140                                      | 1,170 | --             | 74                            | --                              | --  |    |
|               |         |  | Apr. 22, 1949      | 34                         | --        | 35           | 11             | 180         | --            | --                              | 152                        | 77            | 225          | --                         | 3.2       | --               | 643                                 | 132                                      | 1,140 | 8.0            | 75                            | --                              | --  |    |
| Aug. 7, 1949  | 29      | --                                     | 46                 | 19                         | 181       | --           | --             | 163         | 79            | 262                             | --                         | 1.2           | --           | 706                        | 193       | 1,290            | 8.0                                 | 67                                       | --    | --             |                               |                                 |     |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer        | Depth of well or sampled interval (ft.) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)      | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |     |    |    |
|--------------|----------------|---|--------------------|----------------------------|----------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|-----|----|----|
| JL-49-13-906 | Qtal 6         | 694                                     | Feb. 10, 1950      | --                         | --             | --           | --             | --          | --            | 150                             | --                         | 224           | --           | --                         | --        | --               | 134                                 | 1,140                                    | 8.1   | --             | --                            | --                              |     |    |    |
|              |                | 694                                     | Apr. 24, 1951      | 36                         | --             | 39           | 13             | 178         | --            | 160                             | 76                         | 232           | --           | 1.5                        | --        | --               | 663                                 | 151                                      | 1,160 | 8.2            | 72                            | --                              | --  |    |    |
|              |                | 694                                     | May 26, 1952       | --                         | --             | --           | --             | --          | --            | 155                             | 73                         | 231           | --           | --                         | --        | --               | --                                  | 133                                      | 1,150 | 7.8            | --                            | --                              | --  |    |    |
|              |                | 694                                     | Oct. 2, 1952       | --                         | --             | --           | --             | --          | --            | 155                             | --                         | 230           | --           | --                         | --        | --               | --                                  | 132                                      | 1,120 | 8.0            | --                            | --                              | --  |    |    |
|              |                | 694                                     | June 4, 1953       | --                         | --             | --           | --             | --          | --            | 155                             | --                         | 230           | --           | --                         | --        | --               | --                                  | 135                                      | 1,140 | 8.1            | --                            | --                              | --  |    |    |
|              |                | 694                                     | June 23, 1954      | 35                         | --             | 61           | 13             | 192         | --            | 150                             | 75                         | 262           | 0.9          | .5                         | --        | --               | 702                                 | 156                                      | 1,240 | 7.8            | 73                            | --                              | --  |    |    |
|              |                | 694                                     | May 6, 1955        | --                         | --             | --           | --             | --          | --            | 142                             | --                         | 275           | --           | --                         | --        | --               | --                                  | 154                                      | 1,270 | 7.7            | --                            | --                              | --  |    |    |
|              |                | 694                                     | Apr. 10, 1956      | 33                         | --             | 80           | 28             | 204         | --            | 168                             | 70                         | 388           | --           | 1.8                        | --        | --               | 888                                 | 314                                      | 1,650 | 7.8            | 59                            | --                              | --  |    |    |
|              |                | 694                                     | July 10, 1957      | 41                         | --             | 38           | 11             | 180         | --            | 155                             | 67                         | 235           | --           | 3.0                        | --        | --               | 651                                 | 140                                      | 1,650 | 7.8            | 74                            | --                              | --  |    |    |
|              |                | 694                                     | June 17, 1958      | --                         | --             | --           | --             | --          | 152           | --                              | --                         | 248           | --           | --                         | --        | --               | 150                                 | --                                       | 8.0   | --             | --                            | --                              |     |    |    |
| 910          | Qtal 6         | 280-300                                 | May 1956           | --                         | 0.3            | 35           | 12             | 143         | --            | 181                             | 100                        | 134           | .7           | --                         | --        | 558              | 138                                 | --                                       | 8.7   | --             | --                            | --                              |     |    |    |
|              |                | 370-390                                 | do                 | --                         | .1             | 26           | 8              | 114         | --            | 178                             | 86                         | 89            | .7           | --                         | --        | --               | 475                                 | 99                                       | --    | 8.6            | --                            | --                              | --  |    |    |
|              |                | 462-482                                 | do                 | --                         | .15            | 26           | 7              | 138         | --            | 172                             | 80                         | 97            | .8           | --                         | --        | --               | 480                                 | 92                                       | --    | 8.8            | --                            | --                              | --  |    |    |
|              |                | 541-561                                 | do                 | --                         | .15            | 21           | 5              | 139         | --            | 162                             | 74                         | 90            | .8           | --                         | --        | --               | 492                                 | 72                                       | --    | 8.8            | --                            | --                              | --  |    |    |
|              |                | 631-651                                 | do                 | --                         | .15            | 26           | 5              | 144         | --            | 127                             | 54                         | 159           | .6           | --                         | --        | --               | 495                                 | 85                                       | --    | 8.5            | --                            | --                              | --  |    |    |
|              |                | 612                                     | June 12, 1956      | --                         | .1             | 25           | 6              | 138         | --            | 170                             | 80                         | 91            | .7           | --                         | --        | --               | 476                                 | 87                                       | --    | 8.4            | --                            | --                              | --  |    |    |
|              |                | 612                                     | July 31, 1956      | 32                         | --             | 25           | 8.9            | 128         | --            | 175                             | 98                         | 93            | --           | 2.0                        | --        | --               | 473                                 | 100                                      | 790   | 8.0            | 74                            | --                              | --  |    |    |
|              |                | 612                                     | June 9, 1959       | 30                         | --             | 27           | 7.8            | 126         | --            | 161                             | 89                         | 103           | .8           | 2.2                        | --        | --               | 465                                 | 100                                      | 780   | 7.6            | 73                            | --                              | --  |    |    |
|              |                | 612                                     | Aug. 3, 1961       | --                         | --             | --           | --             | --          | --            | 176                             | --                         | 125           | --           | --                         | --        | --               | --                                  | 113                                      | 859   | 7.9            | --                            | --                              | --  | -- |    |
|              |                | 612                                     | Aug. 15, 1963      | --                         | --             | --           | --             | --          | --            | --                              | --                         | 155           | --           | --                         | --        | --               | --                                  | --                                       | 136   | 991            | 7.3                           | --                              | --  | -- | -- |
|              |                | 612                                     | June 23, 1965      | --                         | --             | --           | --             | --          | --            | --                              | --                         | 80            | 192          | --                         | --        | --               | --                                  | --                                       | --    | 1,050          | --                            | --                              | --  | -- |    |
|              |                | 642                                     | Aug. 1, 1967       | --                         | --             | --           | --             | --          | --            | --                              | --                         | 152           | 81           | 222                        | --        | --               | --                                  | --                                       | 172   | 1,110          | 7.6                           | --                              | --  | 0  |    |
|              |                | 642                                     | July 20, 1969      | 31                         | --             | 63           | 19             | 180         | --            | 142                             | 81                         | 300           | .7           | .7                         | --        | --               | --                                  | 745                                      | 235   | 1,340          | 7.2                           | 62                              | 5.1 | 0  |    |
|              |                | 911                                     | Qtal 6             | 706                        | Aug. 29, 1935  | --           | --             | --          | --            | --                              | --                         | 133           | --           | 169                        | --        | --               | --                                  | --                                       | 106   | --             | --                            | --                              | --  | -- |    |
|              |                |   |                    | 706                        | Sept. 23, 1935 | --           | --             | 27          | 8.0           | 145                             | --                         | 130           | 68           | 170                        | --        | .2               | --                                  | --                                       | 483   | 102            | --                            | --                              | --  | -- | -- |
|              |                |   |                    | 706                        | Dec. 18, 1940  | 36           | .03            | 23          | 6.0           | 127                             | --                         | 136           | 65           | 128                        | --        | 0                | --                                  | --                                       | 453   | 83             | --                            | --                              | --  | -- | -- |
|              |                | 912                                     | Qtal 6             | 240-260                    | June 29, 1947  | --           | --             | 21          | --            | --                              | --                         | --            | --           | 99                         | --        | --               | --                                  | --                                       | 574   | 147            | --                            | --                              | --  | -- |    |
| 403-425      | June 30, 1947  |   |                    | --                         | --             | 21           | --             | --          | --            | --                              | --                         | 114           | --           | --                         | --        | --               | --                                  | 503                                      | 142   | --             | --                            | --                              | --  |    |    |
| 689          | Sept. 20, 1948 |   |                    | 28                         | .15            | 26           | 10             | 122         | 7.2           | 164                             | 88                         | 107           | .8           | 1.2                        | 0.42      | --               | 475                                 | 106                                      | 808   | 7.8            | 70                            | --                              | --  |    |    |
| 689          | Nov. 9, 1950   |   |                    | 30                         | --             | 26           | 10             | 123         | --            | 158                             | 91                         | 104           | --           | 1.5                        | --        | --               | 466                                 | 106                                      | 783   | 7.8            | 72                            | --                              | --  |    |    |
| 689          | Oct. 13, 1954  |   |                    | --                         | .1             | 22           | 12             | 124         | --            | --                              | 88                         | 87            | .8           | --                         | --        | --               | 504                                 | 104                                      | --    | 8.1            | --                            | --                              | --  |    |    |
| 689          | July 13, 1956  |   |                    | --                         | --             | --           | --             | --          | --            | 164                             | --                         | 99            | --           | --                         | --        | --               | --                                  | 95                                       | 765   | --             | --                            | --                              | --  |    |    |
| 689          | Oct. 13, 1958  |   |                    | --                         | .02            | 32           | 10             | --          | --            | --                              | 66                         | 119           | --           | --                         | --        | --               | --                                  | 485                                      | 120   | --             | 8.0                           | --                              | --  |    |    |
| 689          | Nov. 21, 1959  |   |                    | --                         | .02            | 36           | 11             | --          | --            | --                              | 89                         | 115           | --           | --                         | --        | --               | --                                  | 510                                      | 136   | --             | 8.0                           | --                              | --  |    |    |
| 689          | Apr. 5, 1961   |   |                    | --                         | .02            | 32           | 12             | --          | --            | --                              | 87                         | 145           | .3           | --                         | --        | --               | --                                  | 333                                      | 82    | --             | 8.3                           | --                              | --  |    |    |
| 689          | Jan. 22, 1969  |   |                    | --                         | .01            | 8            | 10             | 112         | --            | --                              | 81                         | 100           | .7           | --                         | --        | --               | --                                  | 410                                      | 62    | --             | 8.7                           | --                              | --  |    |    |
| 689          | July 28, 1971  |   |                    | --                         | .05            | 51           | 6.8            | 150         | --            | --                              | 86                         | 185           | .5           | --                         | --        | --               | --                                  | 558                                      | 172   | --             | 7.8                           | 72                              | --  |    |    |
| 689          | July 27, 1972  |   |                    | --                         | .02            | 54           | 15             | 160         | --            | --                              | 111                        | 210           | .7           | --                         | --        | --               | --                                  | 664                                      | 194   | --             | 7.1                           | 70                              | --  |    |    |
| 689          | June 28, 1973  |   |                    | --                         | .01            | 24           | 7              | 100         | --            | --                              | 81                         | 99            | .5           | --                         | --        | --               | --                                  | 464                                      | 90    | 715            | 8.4                           | 76                              | --  |    |    |
| 913          | Qtal 6         |   |                    | 228-248                    | June 24, 1957  | 13           | .1             | 377         | 165           | 2,170                           | --                         | --            | 660          | 3,850                      | --        | --               | --                                  | 7,490                                    | 1,620 | 12,400         | 7.8                           | --                              | --  | -- |    |
|              |                | 346-366                                 | do                 | 10                         | .1             | 114          | 43             | 342         | --            | --                              | 88                         | 700           | --           | --                         | --        | --               | 1,480                               | 462                                      | 2,660 | 7.9            | --                            | --                              | --  |    |    |
|              |                | 442-462                                 | June 25, 1957      | 8                          | .1             | 141          | 47             | 305         | --            | --                              | 88                         | 705           | --           | --                         | --        | --               | 1,470                               | 546                                      | 2,630 | 7.8            | --                            | --                              | --  |    |    |
|              |                | 528-548                                 | June 26, 1957      | 21                         | .1             | 19           | 5              | 148         | --            | --                              | 52                         | 118           | --           | --                         | --        | --               | 587                                 | 68                                       | 785   | 8.1            | --                            | --                              | --  |    |    |
|              |                | 649-669                                 | do                 | 14                         | .1             | 63           | 11             | 262         | --            | --                              | 66                         | 440           | --           | --                         | --        | --               | 979                                 | 203                                      | 1,740 | 7.9            | --                            | --                              | --  |    |    |
| 914          | Qtal 6         | 481-506                                 | Apr. 5, 1961       | --                         | .03            | 18           | 3              | --          | --            | --                              | 136                        | 60            | --           | --                         | --        | 452              | 67                                  | --                                       | 9.1   | --             | --                            | --                              |     |    |    |
|              |                | 577-602                                 | Apr. 6, 1961       | --                         | .03            | 16           | 5              | --          | --            | --                              | 71                         | 55            | --           | --                         | --        | --               | 409                                 | 60                                       | --    | 9.2            | --                            | --                              | --  |    |    |
|              |                | 687-712                                 | Apr. 7, 1961       | --                         | .02            | 13           | 2              | --          | --            | --                              | 110                        | 60            | --           | --                         | --        | --               | 439                                 | 40                                       | --    | 9.2            | --                            | --                              | --  |    |    |
|              |                | 743-768                                 | do                 | --                         | .02            | 13           | 4              | --          | --            | --                              | 82                         | 70            | --           | --                         | --        | --               | 408                                 | 50                                       | --    | 9.1            | --                            | --                              | --  |    |    |
|              |                | 847-872                                 | Apr. 8, 1961       | --                         | .02            | 18           | 2              | --          | --            | --                              | 68                         | 163           | --           | --                         | --        | --               | 499                                 | 52                                       | --    | 9.0            | --                            | --                              | --  |    |    |
|              |                | 968-993                                 | do                 | --                         | .02            | 34           | 3              | --          | --            | --                              | 78                         | 145           | --           | --                         | --        | --               | 451                                 | 97                                       | --    | 9.0            | --                            | --                              | --  |    |    |
|              |                | 838                                     | June 26, 1961      | --                         | .02            | 19           | 9              | --          | 165           | --                              | 89                         | 75            | .6           | --                         | --        | --               | 378                                 | 84                                       | --    | 8.1            | --                            | --                              | --  |    |    |
|              |                | 838                                     | June 18, 1964      | --                         | .03            | 19           | 9              | --          | --            | --                              | 92                         | 75            | .4           | --                         | --        | --               | 383                                 | 85                                       | --    | 8.2            | --                            | --                              | --  |    |    |
|              |                | 838                                     | Sept. 8, 1967      | --                         | .03            | 18           | 8              | --          | --            | --                              | 96                         | 70            | .4           | --                         | --        | --               | 335                                 | 78                                       | --    | 7.9            | --                            | --                              | --  |    |    |
|              |                | 838                                     | Dec. 12, 1968      | --                         | .02            | 18           | 5              | 88          | --            | --                              | 67                         | 40            | .5           | .05                        | --        | --               | 377                                 | 64                                       | --    | 8.3            | --                            | --                              | --  |    |    |
|              |                | 838                                     | July 3, 1969       | --                         | .02            | 18           | 6              | 104         | --            | --                              | 74                         | 60            | .5           | --                         | --        | --               | 427                                 | 71                                       | --    | 8.1            | --                            | --                              | --  |    |    |
|              |                | 838                                     | Sept. 9, 1970      | --                         | .01            | 18           | 5              | 92          | --            | --                              | 55                         | 55            | .5           | --                         | --        | --               | 303                                 | 67                                       | --    | 7.9            | 80                            | --                              | --  |    |    |
|              |                | 838                                     | May 28, 1971       | --                         | .03            | 19           | 4.9            | 86          | --            | --                              | 67                         | 42            | .5           | --                         | --        | --               | 296                                 | 68                                       | --    | 8.1            | 78                            | --                              | --  |    |    |
|              |                | 838                                     | May 16, 1972       | --                         | .02            | 18           | 5              | 82          | --            | --                              | --                         | 64            | 35           | .5                         | --        | --               | 364                                 | 68                                       | --    | 7.9            | 78                            | --                              | --  |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |      |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|------|
| JL-49-13-915 | Qtal 6        | 989                                    | May 15, 1975       | --                         | --        | 57           | 23             | --          | --            | 176                             | 140                        | 190           | --           | --                         | --        | 240              | 1,220                               | 7.8                                      | --  | --             | --                            | --                              |      |
|              |               | 830                                    | Mar. 30, 1977      | --                         | --        | 65           | 22             | --          | --            | 170                             | 150                        | 240           | --           | --                         | --        | 250              | 1,290                               | 7.7                                      | --  | --             | --                            | --                              | --   |
|              |               | 830                                    | Jun. 9, 1978       | --                         | --        | 61           | 22             | --          | --            | 240                             | 150                        | 220           | --           | --                         | --        | 240              | 1,250                               | 7.7                                      | --  | --             | --                            | --                              | --   |
| 916          | Qtal 6        | 295-318                                | Sept. 21, 1954     | --                         | --        | 310          | 140            | 1,380       | --            | --                              | 420                        | 2,660         | 0.2          | --                         | --        | 5,430            | 1,350                               | --                                       | 8.5 | --             | --                            | --                              | --   |
|              |               | 346-369                                | do                 | --                         | --        | 284          | 120            | 550         | --            | --                              | 160                        | 1,520         | .2           | --                         | --        | 3,160            | 1,200                               | --                                       | 8.5 | --             | --                            | --                              | --   |
|              |               | 398-421                                | Sept. 24, 1954     | --                         | --        | 33           | 17             | 167         | --            | --                              | 48                         | 204           | .6           | --                         | --        | 667              | 152                                 | --                                       | 8.7 | --             | --                            | --                              | --   |
|              |               | 457-480                                | do                 | --                         | --        | 32           | 9              | 161         | --            | --                              | 54                         | 213           | .6           | --                         | --        | 648              | 158                                 | --                                       | 8.6 | --             | --                            | --                              | --   |
|              |               | 532-555                                | Sept. 27, 1954     | --                         | --        | 41           | 15             | 175         | --            | --                              | 60                         | 243           | .5           | --                         | --        | 725              | 154                                 | --                                       | 8.6 | --             | --                            | --                              | --   |
| 644-657      | do            | --                                     | --                 | 33                         | 9         | 196          | --             | --          | 54            | 262                             | .6                         | --            | --           | 735                        | 120       | --               | 8.7                                 | --                                       | --  | --             | --                            | --                              |      |
| 917          | Qtal 6        | 678                                    | June 23, 1965      | 34                         | --        | 30           | 8.5            | 181         | --            | 154                             | 72                         | 212           | 1.0          | 1.2                        | --        | 616              | 110                                 | 1,100                                    | 7.3 | 78             | 7.5                           | 0.32                            |      |
|              |               | 678                                    | July 10, 1967      | --                         | --        | --           | --             | --          | --            | 148                             | 69                         | 235           | --           | --                         | --        | --               | 122                                 | 1,130                                    | 8.1 | --             | --                            | --                              | .00  |
|              |               | 678                                    | July 11, 1969      | --                         | --        | 36           | 8.8            | --          | --            | 148                             | 66                         | 246           | --           | .0                         | --        | --               | 126                                 | 1,170                                    | 7.9 | --             | --                            | --                              | .00  |
| 918          | Qal Rg        | 202                                    | Aug. 1, 1966       | 35                         | 0.14      | 92           | 40             | 625         | 9.2           | 400                             | 514                        | 612           | --           | .8                         | --        | 2,130            | 396                                 | 3,410                                    | 7.4 | 77             | 14                            | .00                             |      |
| 920          | Qtal 6        | 580                                    | June 12, 1959      | 28                         | --        | 22           | 7.0            | 106         | --            | 160                             | 85                         | 64            | .7           | 2.2                        | --        | 397              | 84                                  | 639                                      | 7.8 | 73             | --                            | --                              | --   |
| 921          | Qtal 6        | 765                                    | Apr. 10, 1968      | 33                         | --        | 24           | 6.9            | 159         | 7.1           | 176                             | 82                         | 151           | 1.2          | .1                         | --        | 551              | 88                                  | 944                                      | 7.7 | 78             | 7.4                           | 1.11                            |      |
| 922          | Qal Rg        | 50                                     | Apr. 26, 1968      | --                         | --        | 159          | 67             | --          | --            | 618                             | 1,070                      | 418           | --           | --                         | --        | --               | 672                                 | 3,970                                    | 7.9 | --             | --                            | --                              | .00  |
| 924          | Qtal 6        | 607                                    | Aug. 28, 1935      | --                         | --        | --           | --             | --          | --            | 133                             | --                         | 174           | --           | --                         | --        | --               | 102                                 | --                                       | --  | --             | --                            | --                              | --   |
| 925          | Qtal 6        | 644                                    | May 27, 1952       | 34                         | --        | 28           | 9.5            | 150         | --            | 155                             | 83                         | 155           | 1.0          | 1.0                        | --        | 576              | 109                                 | 937                                      | 8.0 | 75             | --                            | --                              | --   |
| 926          | Qtal 6        | 652                                    | June 18, 1958      | --                         | --        | --           | --             | --          | --            | 156                             | --                         | 198           | --           | --                         | --        | --               | 150                                 | 1,050                                    | 8.2 | --             | --                            | --                              | --   |
| 933          | Qal Rg        | 52                                     | July 20, 1967      | --                         | --        | --           | --             | --          | --            | 394                             | 305                        | 32            | --           | --                         | --        | --               | 492                                 | 1,180                                    | 8.0 | --             | --                            | --                              | .00  |
| 934          | Qal Rg        | 53                                     | do                 | --                         | --        | --           | --             | --          | --            | 276                             | 170                        | 92            | --           | --                         | --        | --               | 204                                 | 1,040                                    | 7.8 | --             | --                            | --                              | .44  |
| 936          | Qtal 6        | 502-522                                | Aug. 15, 1970      | 16                         | .11       | 18           | 3.9            | 96          | --            | --                              | 73                         | 50            | .32          | .00                        | --        | 331              | 60                                  | --                                       | 8.1 | 81             | --                            | --                              | --   |
|              |               | 413-433                                | Aug. 17, 1970      | 15                         | .10       | 14           | 2.4            | 89          | --            | --                              | 54                         | 50            | .42          | .00                        | --        | 292              | 44                                  | --                                       | 8.4 | 84             | --                            | --                              | --   |
|              |               | 630-650                                | Aug. 20, 1970      | 14                         | .44       | 20           | 3.4            | 151         | --            | --                              | 58                         | 175           | .56          | .00                        | --        | 474              | 64                                  | --                                       | 8.1 | 86             | --                            | --                              | --   |
|              |               | 650                                    | Sept. 21, 1970     | 7.4                        | .10       | 19           | 5.1            | 92          | --            | --                              | 65                         | 60            | .75          | 0                          | --        | 321              | 69                                  | --                                       | 8.3 | 79             | --                            | --                              | --   |
| 937          | Qal Rg        | 165                                    | Mar. 28, 1951      | 38                         | --        | 62           | 32             | 373         | --            | 363                             | 396                        | 308           | --           | .2                         | 0.24      | 1,370            | 286                                 | 2,160                                    | 8.3 | --             | --                            | --                              | --   |
|              |               | 165                                    | May 8, 1951        | --                         | --        | --           | --             | --          | --            | 356                             | --                         | 302           | --           | --                         | --        | --               | 308                                 | 2,180                                    | 8.1 | --             | --                            | --                              | --   |
| 938          | Qtal 6        | 215                                    | June 2, 1976       | 44                         | 0         | 90           | 37             | 400         | 16            | 376                             | 400                        | 380           | 1.4          | --                         | --        | 1,560            | 380                                 | 2,480                                    | 8.3 | 69             | 9.0                           | --                              | --   |
| 14-101       | Qtal 6        | 819                                    | Aug. 24, 1959      | 30                         | .01       | 18           | 5.4            | 77          | --            | 146                             | 43                         | 45            | .8           | 5.8                        | --        | 307              | 67                                  | 473                                      | 7.5 | 71             | --                            | --                              | --   |
|              |               | 819                                    | May 16, 1961       | 31                         | 0         | 17           | 5.6            | 78          | --            | 141                             | 44                         | 46            | 1            | 6.5                        | --        | 298              | 65                                  | 487                                      | 7.2 | 72             | 4.2                           | --                              | --   |
|              |               | 819                                    | May 19, 1967       | 28                         | .01       | 19           | 5.4            | 86          | --            | 160                             | 48                         | 49            | 1.4          | 3.5                        | --        | 324              | 70                                  | 529                                      | 7.4 | 74             | 7.0                           | 4.4                             | 1.23 |
|              |               | 819                                    | Feb. 23, 1973      | --                         | .05       | 18           | 5.5            | 80          | 10.8          | --                              | 32                         | 70            | 1.19         | .12                        | .1        | 371              | 78                                  | 530                                      | 7.9 | --             | --                            | --                              | --   |
|              |               | 819                                    | Feb. 25, 1974      | 32                         | .05       | 23           | 1.5            | 82          | 6.9           | --                              | 49                         | 68            | .94          | 1.30                       | .2        | 313              | 80                                  | 550                                      | 7.8 | --             | --                            | --                              | --   |
| 819          | Mar. 15, 1975 | 36                                     | .10                | 16.9                       | 3.5       | 72           | --             | --          | 43            | 61                              | .94                        | 2.0           | .06          | 340                        | 78        | 451              | 7.8                                 | --                                       | --  | --             | --                            | --                              |      |
| 102          | Qtal 6        | 404                                    | Feb. 25, 1952      | 24                         | --        | 23           | 7.0            | 110         | --            | 162                             | 50                         | 112           | --           | 2.5                        | --        | 444              | 86                                  | 718                                      | 8.0 | 73             | --                            | --                              | --   |
| 201          | Qtal 6        | 500                                    | Feb. 21, 1952      | 4.8                        | --        | 35           | 12             | 161         | --            | 90                              | 101                        | 225           | --           | 2.0                        | --        | 614              | 137                                 | 1,100                                    | 7.8 | 72             | --                            | --                              | --   |
| 301          | Qtal 6        | 420                                    | Mar. 30, 1953      | 28                         | .07       | 59           | 21             | 185         | 10            | 144                             | 206                        | 240           | .4           | 4.2                        | .19       | 810              | 234                                 | 1,380                                    | 7.7 | 62             | --                            | --                              | --   |
| 401          | Qtal 6        | 454-479                                | Oct. 5, 1960       | --                         | .03       | 10           | 6              | --          | --            | 125                             | 83                         | 40            | .2           | --                         | --        | 337              | 48                                  | --                                       | 8.4 | --             | --                            | --                              | --   |
|              |               | 573-598                                | do                 | --                         | .02       | 16           | 4              | --          | --            | 138                             | 70                         | 41            | .4           | --                         | --        | 322              | 54                                  | --                                       | 8.4 | --             | --                            | --                              | --   |
|              |               | 680-705                                | do                 | --                         | .02       | 21           | 0              | --          | --            | 122                             | 76                         | 45            | .3           | --                         | --        | 463              | 52                                  | --                                       | 8.3 | --             | --                            | --                              | --   |
|              |               | 805-830                                | do                 | --                         | .02       | 11           | 6              | --          | --            | 101                             | 84                         | 125           | .4           | --                         | --        | 381              | 52                                  | --                                       | 8.2 | --             | --                            | --                              | --   |
|              |               | 905-930                                | do                 | --                         | .04       | 33           | 3              | --          | --            | 82                              | 102                        | 300           | .9           | --                         | --        | 733              | 96                                  | --                                       | 8.2 | --             | --                            | --                              | --   |
|              |               | 830                                    | Dec. 27, 1960      | --                         | --        | 13           | 6              | --          | --            | 114                             | 64                         | 45            | .1           | --                         | --        | 423              | 56                                  | --                                       | 8.4 | --             | --                            | --                              | --   |
| 830          | May 10, 1962  | --                                     | --                 | .02                        | 26        | 2            | --             | --          | 186           | 76                              | 50                         | .4            | --           | --                         | 318       | 70               | --                                  | 8.1                                      | --  | --             | --                            | --                              |      |
| 830          | Jan. 14, 1963 | --                                     | --                 | .03                        | 15        | 10           | --             | --          | 137           | 74                              | 55                         | .5            | --           | --                         | 323       | 78               | --                                  | 8.3                                      | --  | --             | --                            | --                              |      |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |      |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|------|
| JL-49-14-401 | Qtal 6        | 830                                    | June 16, 1964      | --                         | 0.03      | 17           | 9              | --          | --            | 133                             | 81                         | 60            | 0.6          | --                         | --        | 344              | 90                                  | --                                       | --  | --             | --                            | --                              |      |
|              |               | 830                                    | July 27, 1965      | --                         | .03       | 18           | 5              | --          | --            | 138                             | 79                         | 55            | .8           | --                         | --        | 324              | 66                                  | --                                       | --  | --             | --                            | --                              |      |
|              |               | 830                                    | Dec. 12, 1968      | --                         | .04       | 17           | 6              | 73          | --            | --                              | 135                        | 54            | 25           | .58                        | 0         | --               | 340                                 | 66                                       | --  | --             | --                            | --                              | --   |
|              |               | 830                                    | July 3, 1969       | --                         | .03       | 18           | 7              | 96          | --            | --                              | 136                        | 69            | 53           | .5                         | --        | --               | 409                                 | 74                                       | --  | 8.0            | --                            | --                              | --   |
|              |               | 830                                    | Aug. 14, 1969      | 30                         | --        | 16           | 5.8            | 78          | 7.5           | --                              | 162                        | 56            | 32           | .9                         | 4.3       | 0.11             | 311                                 | 64                                       | 496 | 7.9            | 70                            | 4.2                             | 1.38 |
|              |               | 830                                    | July 22, 1970      | --                         | 0         | 19           | 5              | 74          | --            | --                              | 130                        | 54            | 30           | .62                        | --        | --               | 260                                 | 68                                       | --  | 8.1            | 76                            | --                              | --   |
|              |               | 830                                    | May 27, 1971       | --                         | .029      | 21           | 3.6            | 74          | --            | --                              | 129                        | 55            | 30           | .67                        | --        | --               | 261                                 | 67                                       | --  | 8.0            | 75                            | --                              | --   |
|              |               | 830                                    | Apr. 10, 1972      | --                         | .025      | 19           | 9              | 64          | --            | --                              | 133                        | 61            | 20           | .61                        | --        | --               | 341                                 | 70                                       | --  | 8.2            | 70                            | --                              | --   |
| 830          | Mar. 20, 1973 | --                                     | .02                | 20                         | 6         | 82           | --             | --          | 136           | 65                              | 35                         | .46           | --           | --                         | 376       | 74               | --                                  | 7.4                                      | 76  | --             | --                            |                                 |      |
| 402          | Qtal 6        | 503-528                                | Sept. 1960         | --                         | .02       | 12           | 6              | --          | --            | 94                              | 71                         | 95            | --           | --                         | --        | 456              | 54                                  | --                                       | 8.8 | --             | --                            | --                              |      |
|              |               | 620-645                                | do                 | --                         | .02       | 22           | 4              | --          | --            | 104                             | 119                        | 135           | --           | --                         | --        | 584              | 72                                  | --                                       | 8.6 | --             | --                            | --                              |      |
|              |               | 709-734                                | do                 | --                         | .02       | 22           | 7              | --          | --            | 102                             | 98                         | 170           | --           | --                         | --        | 656              | 86                                  | --                                       | 8.1 | --             | --                            | --                              |      |
|              |               | 806-831                                | do                 | --                         | .02       | 49           | 8              | --          | --            | 83                              | 104                        | 385           | --           | --                         | --        | 1,061            | 156                                 | --                                       | 8.0 | --             | --                            | --                              |      |
|              |               | 745                                    | May 10, 1962       | --                         | .02       | 22           | 7              | --          | --            | 119                             | 85                         | 115           | .6           | --                         | --        | --               | 403                                 | 90                                       | --  | 8.1            | --                            | --                              | --   |
|              |               | 745                                    | Feb. 11, 1963      | --                         | .013      | 23           | 7              | --          | --            | 120                             | 41                         | 125           | .4           | --                         | --        | --               | 407                                 | 88                                       | --  | 8.3            | --                            | --                              | --   |
|              |               | 745                                    | July 20, 1964      | --                         | .01       | 24           | 8              | --          | --            | 126                             | 49                         | 125           | .4           | --                         | --        | --               | 426                                 | 93                                       | --  | 8.9            | --                            | --                              | --   |
|              |               | 745                                    | Aug. 10, 1967      | --                         | .009      | 25           | 5              | --          | --            | 112                             | 58                         | 110           | .6           | --                         | --        | --               | 441                                 | 82                                       | --  | 8.3            | --                            | --                              | --   |
|              |               | 745                                    | Dec. 12, 1968      | --                         | .05       | 24           | 6              | --          | --            | 114                             | 60                         | 113           | .5           | 0                          | --        | --               | 457                                 | 86                                       | --  | 8.3            | --                            | --                              | --   |
|              |               | 745                                    | July 3, 1969       | --                         | .01       | 24           | 7              | 127         | --            | --                              | 120                        | 87            | 125          | .45                        | --        | --               | 496                                 | 90                                       | --  | 8.1            | --                            | --                              | --   |
|              |               | 745                                    | Aug. 14, 1969      | 31                         | --        | 22           | 6.7            | 111         | 7.5           | --                              | 136                        | 59            | 112          | .7                         | 2.1       | .10              | 419                                 | 82                                       | 714 | 7.5            | 72                            | 5.3                             | .58  |
|              |               | 745                                    | July 22, 1970      | --                         | 0         | 26           | 6              | 102         | --            | --                              | 110                        | 52            | 105          | .53                        | --        | --               | 358                                 | 90                                       | --  | 8.0            | --                            | --                              | --   |
|              |               | 745                                    | May 27, 1971       | --                         | .02       | 27           | 5.3            | 116         | --            | --                              | 107                        | 65            | 119          | .57                        | --        | --               | 397                                 | 90                                       | --  | 8.0            | --                            | --                              | --   |
|              |               | 745                                    | Apr. 10, 1972      | --                         | .021      | 28           | 7.7            | 131         | --            | --                              | 110                        | 67            | 110          | .07                        | --        | --               | 428                                 | 102                                      | --  | 8.0            | 78                            | --                              | --   |
| 745          | Apr. 30, 1973 | --                                     | .02                | 26                         | 8.2       | 121          | --             | --          | 107           | 65                              | 133                        | .28           | --           | --                         | 485       | 100              | --                                  | 7.8                                      | 78  | --             | --                            |                                 |      |
| 403          | Qtal 6        | 490                                    | July 29, 1964      | --                         | --        | --           | 14             | --          | --            | 127                             | 46                         | 199           | --           | --                         | --        | --               | 93                                  | 955                                      | 7.6 | --             | --                            | --                              |      |
|              |               | 490                                    | Aug. 29, 1966      | 27                         | .07       | 22           | 7.0            | 106         | 7.2           | --                              | 154                        | 61            | 96           | .7                         | 2.2       | --               | 405                                 | 84                                       | 701 | 7.9            | 71                            | 5.0                             | .84  |
|              |               | 490                                    | Sept. 10, 1969     | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | 107          | --                         | --        | --               | --                                  | --                                       | 713 | --             | --                            | --                              | --   |
| 404          | Qtal 6        | 750                                    | Jan. 1952          | 29                         | --        | 16           | 4.9            | 79          | --            | 135                             | 54                         | 50            | --           | 2.5                        | --        | 329              | 60                                  | 511                                      | 7.9 | 74             | --                            | --                              |      |
|              |               | 750                                    | Mar. 28, 1952      | --                         | --        | --           | --             | --          | --            | 138                             | --                         | 54            | --           | --                         | --        | --               | 61                                  | 536                                      | 7.8 | --             | --                            | --                              |      |
|              |               | 750                                    | Sept. 2, 1952      | --                         | --        | --           | --             | --          | --            | 133                             | --                         | 58            | --           | --                         | --        | --               | 65                                  | 542                                      | 8.0 | --             | --                            | --                              |      |
|              |               | 750                                    | July 16, 1957      | 19                         | --        | 18           | 4.5            | 84          | --            | --                              | 133                        | 52            | 57           | --                         | 3.0       | --               | 303                                 | 64                                       | 519 | 7.5            | 74                            | --                              | --   |
|              |               | 750                                    | July 18, 1963      | --                         | --        | --           | --             | --          | --            | --                              | 76                         | --            | 58           | --                         | --        | --               | --                                  | 17                                       | 452 | 6.0            | --                            | --                              | .91  |
|              |               | 750                                    | June 24, 1965      | --                         | --        | --           | --             | --          | --            | --                              | --                         | 56            | 57           | --                         | --        | --               | --                                  | --                                       | 548 | --             | --                            | --                              |      |
|              |               | 750                                    | Aug. 11, 1967      | --                         | --        | --           | --             | --          | --            | --                              | 134                        | 59            | 56           | --                         | --        | --               | --                                  | 70                                       | 528 | 7.4            | --                            | --                              | .80  |
| 750          | May 6, 1971   | --                                     | --                 | --                         | --        | --           | --             | --          | 136           | 61                              | 58                         | --            | --           | --                         | --        | 65               | 537                                 | 7.8                                      | --  | --             | .93                           |                                 |      |
| 405          | Qtal 6        | 550                                    | Dec. 15, 1951      | 26                         | --        | 17           | 6.4            | 76          | --            | 167                             | 53                         | 26            | 0            | 5.5                        | --        | 301              | 69                                  | 475                                      | 8.3 | 71             | --                            | --                              |      |
|              |               | 550                                    | Mar. 28, 1952      | --                         | --        | --           | --             | --          | --            | 169                             | --                         | 25            | --           | --                         | --        | --               | --                                  | 66                                       | 476 | 7.9            | --                            | --                              | --   |
|              |               | 550                                    | Sept. 2, 1952      | --                         | --        | --           | --             | --          | --            | 169                             | --                         | 25            | --           | --                         | --        | --               | --                                  | 66                                       | 470 | 8.1            | --                            | --                              | --   |
|              |               | 550                                    | Jan. 7, 1953       | --                         | --        | --           | --             | --          | --            | 169                             | --                         | 25            | --           | --                         | --        | --               | --                                  | 66                                       | 470 | 8.1            | --                            | --                              | --   |
|              |               | 550                                    | Feb. 3, 1953       | 27                         | --        | 17           | 6.7            | 76          | --            | --                              | 170                        | 51            | 26           | --                         | 6.8       | --               | 304                                 | 70                                       | 472 | 8.1            | 70                            | --                              | --   |
|              |               | 550                                    | Feb. 4, 1954       | --                         | --        | --           | --             | --          | --            | --                              | 176                        | --            | 25           | --                         | --        | --               | --                                  | 62                                       | 461 | 8.4            | --                            | --                              | --   |
| 550          | Apr. 18, 1955 | --                                     | --                 | --                         | --        | --           | --             | --          | 171           | --                              | 27                         | --            | --           | --                         | --        | 69               | 474                                 | 7.8                                      | --  | --             | --                            |                                 |      |
| 406          | Qtal 6        | 816                                    | Nov. 16, 1966      | --                         | .009      | 38           | 9              | --          | --            | 93                              | 170                        | 260           | --           | --                         | --        | 692              | 132                                 | --                                       | 8.3 | --             | --                            | --                              |      |
|              |               | 816                                    | Jan. 3, 1967       | --                         | .006      | 40           | 6              | --          | --            | 105                             | 141                        | 275           | .09          | --                         | --        | --               | 705                                 | 124                                      | --  | 8.4            | --                            | --                              | --   |
|              |               | 816                                    | Feb. 4, 1967       | --                         | .007      | 25           | 8              | --          | --            | 132                             | 76                         | 70            | .08          | --                         | --        | --               | 370                                 | 94                                       | --  | --             | --                            | --                              | --   |
|              |               | 816                                    | Jan. 22, 1969      | --                         | .0        | 24           | 14             | 104         | --            | --                              | 133                        | 81            | 90           | .6                         | --        | --               | 475                                 | 118                                      | --  | 8.2            | --                            | --                              | --   |
|              |               | 816                                    | July 3, 1969       | --                         | .008      | 22           | 6              | 111         | --            | --                              | 127                        | 70            | 85           | .48                        | --        | --               | 449                                 | 79                                       | --  | 8.2            | --                            | --                              | --   |
|              |               | 816                                    | Aug. 14, 1969      | 30                         | --        | 22           | 6.0            | 99          | 7.4           | --                              | 150                        | 60            | 79           | .8                         | 2.6       | .11              | 381                                 | 80                                       | 634 | 7.5            | 71                            | 4.8                             | .87  |
|              |               | 816                                    | Aug. 31, 1970      | --                         | .01       | 27           | 3              | 104         | --            | --                              | 119                        | 58            | 90           | .69                        | --        | --               | 353                                 | 80                                       | --  | 8.3            | --                            | --                              | --   |
|              |               | 816                                    | June 14, 1971      | --                         | .04       | 26           | 3.6            | 102         | --            | --                              | 117                        | 66            | 83           | .63                        | --        | --               | 351                                 | 79                                       | --  | 8.6            | --                            | --                              | --   |
|              |               | 816                                    | Apr. 10, 1972      | --                         | 0         | 25           | 6.3            | 128         | --            | --                              | 121                        | 69            | 80           | .24                        | --        | --               | 385                                 | 88                                       | --  | 7.7            | 81                            | --                              | --   |
| 816          | Mar. 20, 1973 | --                                     | .02                | 23                         | 6.8       | 103          | --             | --          | 120           | 67                              | 85                         | .46           | --           | --                         | 430       | 86               | --                                  | 7.7                                      | 77  | --             | --                            |                                 |      |
| 409          | Qtal 6        | 608                                    | Jan. 6, 1939       | 17                         | --        | 26           | 8.1            | 91          | --            | 60                              | 50                         | 72            | --           | --                         | --        | 423              | 98                                  | --                                       | --  | --             | --                            |                                 |      |
| 410          | Qtal 6        | 517                                    | Feb. 23, 1939      | 31                         | --        | 44           | 9.1            | 139         | --            | 124                             | 82                         | 188           | --           | --                         | --        | 528              | 148                                 | --                                       | 7.4 | --             | --                            | --                              |      |
|              |               | 652                                    | Feb. 25, 1939      | 29                         | --        | 51           | 10             | 216         | --            | 102                             | 74                         | 329           | --           | --                         | --        | 528              | 170                                 | --                                       | 7.6 | --             | --                            | --                              |      |
|              |               | 737                                    | Mar. 3, 1939       | 34                         | --        | 64           | 16             | 364         | --            | 97                              | 102                        | 594           | --           | --                         | --        | 1,280            | 184                                 | --                                       | 7.5 | --             | --                            | --                              |      |
|              |               | 877                                    | Mar. 9, 1939       | 42                         | --        | 480          | 78             | 1,010       | --            | 62                              | 647                        | 2,132         | --           | --                         | --        | 5,210            | 1,520                               | --                                       | 7.3 | --             | --                            | --                              |      |

See footnotes at end of table.



Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer      | Depth of well or sampled interval (ft.) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)    | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|--------------|---|--------------------|----------------------------|--------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-----|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-14-412 | Qtal 6       | 695                                     | July 20, 1976      | 34                         | --           | 27           | 6              | 90          | --            | 192                             | 62                         | 55            | --           | --                         | --        | 387              | 92                                  | 633                                     | 7.8 | 66             | 4.1                           | --                              |    |    |
| 413          | Qtal 6       | 697-722                                 | Nov. 15, 1960      | --                         | V .02        | 178          | 43             | --          | --            | 56                              | 395                        | 1,775         | 0.9          | --                         | --        | 3,619            | 624                                 | --                                      | 8.5 | --             | --                            | --                              |    |    |
|              |              | 490                                     | Nov. 22, 1960      | --                         | V .02        | 26           | 6              | --          | --            | 116                             | 67                         | 250           | .6           | --                         | --        | 572              | 92                                  | --                                      | 8.8 | --             | --                            | --                              |    |    |
|              |              | 490                                     | Dec. 27, 1960      | --                         | --           | 28           | 6              | --          | --            | 118                             | 105                        | 207           | .3           | --                         | --        | 688              | 96                                  | --                                      | 8.3 | --             | --                            | --                              |    |    |
|              |              | 490                                     | Sept. 22, 1966     | --                         | --           | 24           | 6              | --          | --            | 120                             | 83                         | 110           | .007         | --                         | --        | 419              | 86                                  | --                                      | 8.7 | --             | --                            | --                              |    |    |
|              |              | 490                                     | Sept. 9, 1969      | --                         | --           | 24           | 7              | 107         | --            | 122                             | 56                         | 100           | .65          | --                         | --        | 443              | 88                                  | --                                      | 8.4 | 78             | --                            | --                              |    |    |
|              |              | 600                                     | Oct. 2, 1970       | --                         | --           | 62           | 13             | 320         | --            | 95                              | 81                         | 515           | --           | --                         | --        | 1,048            | 208                                 | --                                      | 8.2 | 81             | --                            | --                              |    |    |
|              |              | 600                                     | Oct. 15, 1970      | --                         | --           | 42           | 5              | 214         | --            | 103                             | 56                         | 305           | --           | --                         | --        | 684              | 122                                 | --                                      | 7.9 | 82             | --                            | --                              |    |    |
|              |              | 600                                     | Aug. 2, 1971       | --                         | --           | 26           | 6              | 179         | --            | 104                             | 55                         | 225           | .51          | --                         | --        | 555              | 90                                  | --                                      | 8.2 | 85             | --                            | --                              |    |    |
|              |              | 600                                     | Apr. 21, 1973      | --                         | V .01        | 38           | 11             | 219         | --            | 100                             | 63                         | 320           | .44          | --                         | --        | 778              | 136                                 | --                                      | 8.4 | 82             | --                            | --                              |    |    |
| 414          | Qtal 6       | 700                                     | Sept. 1, 1971      | 30                         | .1           | 40           | 10             | 230         | 14            | 120                             | 70                         | 340           | .7           | 3.0                        | 0.10      | 803              | 140                                 | 1,420                                   | 7.8 | 76             | 8.6                           | --                              |    |    |
| 415          | Qtal 6       | 736-754                                 | July 19, 1972      | .5                         | --           | 16           | 5              | 83          | --            | 109                             | 60                         | 49            | .73          | --                         | --        | 339              | 58                                  | --                                      | 8.2 | 71             | --                            | --                              |    |    |
|              |              | 818-838                                 | do                 | .8                         | --           | 16           | 3              | 101         | --            | 97                              | 69                         | 74            | .75          | --                         | --        | 361              | 50                                  | --                                      | 8.2 | 84             | --                            | --                              |    |    |
|              |              | 860-880                                 | do                 | .6                         | --           | 16           | 3              | 111         | --            | 86                              | 65                         | 99            | .69          | --                         | --        | 392              | 54                                  | --                                      | 8.1 | 85             | --                            | --                              |    |    |
|              |              | 940-960                                 | do                 | .5                         | --           | 28           | 6              | 175         | --            | 75                              | 77                         | 227           | .71          | --                         | --        | 605              | 94                                  | --                                      | 8.0 | 84             | --                            | --                              |    |    |
|              |              | 960                                     | Aug. 23, 1972      | .75                        | .08          | 21           | 4              | 75          | --            | 112                             | 42                         | 54            | 1.71         | --                         | --        | 335              | 66                                  | --                                      | 8.8 | 75             | --                            | --                              |    |    |
|              |              | 960                                     | Aug. 25, 1972      | .5                         | .04          | 18           | 5              | 78          | --            | 110                             | 60                         | 45            | .76          | --                         | --        | 309              | 66                                  | --                                      | 8.5 | 77             | --                            | --                              |    |    |
| 960          | June 2, 1973 | --                                      | --                 | 21                         | 4            | --           | --             | 142         | 52            | 51                              | --                         | --            | --           | --                         | 69        | 520              | 7.9                                 | --                                      | --  | --             | --                            |                                 |    |    |
| 501          | Qtal 6       | 484-520                                 | Mar. 11, 1953      | 1.9                        | .01          | 20           | 7.5            | 146         | 9.4           | 111                             | 80                         | 168           | .6           | 3.5                        | .17       | 525              | 81                                  | 919                                     | 7.4 | 77             | --                            | --                              |    |    |
|              |              | 879-899                                 | Apr. 17, 1953      | 14                         | .01          | 911          | 135            | 2,440       | --            | 51                              | 1,370                      | 4,730         | .2           | --                         | --        | 9,630            | 2,830                               | 14,800                                  | 6.9 | 65             | --                            | --                              |    |    |
| 502          | Qtal 6       | 378                                     | Mar. 13, 1936      | --                         | --           | 28           | 11             | 130         | --            | 171                             | 123                        | 88            | --           | 4.6                        | --        | 471              | 115                                 | --                                      | --  | --             | --                            | --                              |    |    |
| 503          | Qtal 6       | 440                                     | July 7, 1976       | 28                         | --           | 55           | 13             | 152         | --            | 118                             | 74                         | 252           | .5           | 4.5                        | --        | 640              | 193                                 | 1,121                                   | 7.9 | --             | --                            | --                              |    |    |
| 504          | Qtal 6       | 318-337                                 | July 20, 1967      | 32                         | --           | 17           | 2.1            | 159         | 7.2           | 134                             | 147                        | 102           | 1.6          | .8                         | --        | 515              | 51                                  | 877                                     | 7.4 | 85             | 9.7                           | 1.18                            |    |    |
|              |              | 438-468                                 | do                 | 31                         | --           | 44           | 12             | 199         | 8.8           | 130                             | 128                        | 260           | .8           | 2.2                        | --        | 750              | 160                                 | 1,310                                   | 7.4 | 72             | 6.8                           | 0                               |    |    |
|              |              | 500                                     | May 23, 1973       | 17.5                       | .24          | 34           | 8.9            | 137         | 8.0           | --                              | 138                        | 205           | .7           | .35                        | .10       | 667              | 128                                 | 900                                     | 8.2 | --             | --                            | --                              |    |    |
|              |              | 500                                     | May 30, 1974       | 30.2                       | --           | --           | --             | --          | --            | --                              | 146                        | 119           | 1.4          | 1.08                       | .23       | 587              | 125                                 | 953                                     | 7.8 | --             | --                            | --                              |    |    |
|              |              | 500                                     | July 6, 1976       | 29                         | --           | 38           | 8              | 145         | --            | 154                             | 143                        | 120           | .7           | 5.3                        | --        | 570              | 127                                 | 920                                     | --  | --             | -1                            | --                              |    |    |
| 507          | Qtal 6       | 344                                     | Nov. 12, 1957      | 36                         | .02          | 37           | 11             | 152         | --            | 115                             | 103                        | 162           | .6           | 3.8                        | --        | 560              | 138                                 | 969                                     | --  | 71             | --                            | --                              |    |    |
| 601          | Qtal 6       | 487                                     | Aug. 1, 1966       | 29                         | .22          | 83           | 23             | 321         | 12            | 105                             | 536                        | 265           | .8           | 2.2                        | .18       | 1,330            | 303                                 | 2,080                                   | 7.4 | 69             | 8.0                           | 0                               |    |    |
| 602          | Qtal 6       | --                                      | July 7, 1976       | 30                         | --           | 94           | 18             | 355         | --            | 109                             | 570                        | 280           | .7           | 2.3                        | --        | 1,400            | 312                                 | 2,100                                   | 7.9 | --             | --                            | --                              |    |    |
| 605          | Qtal 6       | 463                                     | July 6, 1976       | 29                         | --           | 100          | 21             | 354         | --            | 100                             | 560                        | 301           | .6           | .4                         | --        | 1,420            | 315                                 | 2,140                                   | 7.3 | --             | --                            | --                              |    |    |
| 606          | Qtal 6       | 440                                     | July 5, 1976       | 22                         | --           | 81           | 17             | 332         | --            | 127                             | 530                        | 249           | .7           | .4                         | --        | 1,290            | 271                                 | 1,960                                   | 7.8 | --             | --                            | --                              |    |    |
| 701          | Qtal 6       | 514-541                                 | Apr. 7, 1959       | --                         | V .02        | 18           | 7              | --          | --            | --                              | 54                         | 37            | .4           | --                         | --        | 302              | 72                                  | --                                      | 7.9 | --             | --                            | --                              |    |    |
|              |              | 597-624                                 | do                 | --                         | V .02        | 25           | 2              | --          | --            | --                              | 68                         | 74            | .1           | --                         | --        | 372              | 72                                  | --                                      | 7.6 | --             | --                            | --                              |    |    |
|              |              | 693-725                                 | Apr. 9, 1959       | --                         | V .02        | 25           | 4              | --          | --            | --                              | 64                         | 159           | .2           | --                         | --        | 459              | 82                                  | --                                      | 7.6 | --             | --                            | --                              |    |    |
|              |              | 722                                     | May 14, 1959       | --                         | V .02        | 16           | 4              | --          | --            | --                              | --                         | 51            | .6           | --                         | --        | 351              | 58                                  | --                                      | 7.7 | --             | --                            | --                              |    |    |
|              |              | 722                                     | May 15, 1959       | --                         | V .02        | 16           | 3              | --          | --            | --                              | --                         | 49            | .6           | --                         | --        | 362              | 56                                  | --                                      | 6.8 | --             | --                            | --                              |    |    |
|              |              | 722                                     | do                 | 24                         | .03          | 18           | 4.7            | 91          | 7.7           | 162                             | 62                         | 47            | .8           | 4.2                        | .08       | 340              | 64                                  | 557                                     | 7.8 | 73             | --                            | --                              |    |    |
|              |              | 722                                     | July 23, 1962      | --                         | V .03        | 19           | 11             | --          | --            | --                              | 118                        | 80            | .6           | --                         | --        | 360              | 92                                  | --                                      | 8.3 | --             | --                            | --                              |    |    |
|              |              | 722                                     | May 15, 1964       | --                         | V .03        | 17           | 9              | --          | --            | --                              | 123                        | 65            | .5           | --                         | --        | 350              | 80                                  | --                                      | 8.4 | --             | --                            | --                              |    |    |
|              |              | 722                                     | Sept. 8, 1967      | --                         | V .03        | 26           | 5              | --          | --            | --                              | 136                        | 80            | .4           | --                         | --        | 426              | 86                                  | --                                      | 8.2 | --             | --                            | --                              |    |    |
|              |              | 722                                     | Dec. 12, 1968      | --                         | V .04        | 22           | 6              | 93          | --            | --                              | 57                         | 65            | .6           | --                         | .02       | 402              | 78                                  | --                                      | 8.3 | --             | --                            | --                              |    |    |
|              |              | 722                                     | July 3, 1969       | --                         | V .04        | 22           | 6              | 120         | --            | --                              | 70                         | 95            | .5           | --                         | --        | 476              | 81                                  | --                                      | 8.1 | --             | --                            | --                              |    |    |
|              |              | 722                                     | July 22, 1970      | --                         | V .08        | 24           | 6              | 124         | --            | --                              | 61                         | 115           | .6           | --                         | --        | 407              | 86                                  | --                                      | 8.0 | 81             | --                            | --                              |    |    |
|              |              | 722                                     | July 9, 1971       | --                         | V .18        | 25           | 5              | 96          | --            | --                              | 65                         | 70            | .8           | --                         | --        | 337              | 84                                  | --                                      | 8.1 | 76             | --                            | --                              |    |    |
|              |              | 722                                     | July 27, 1972      | --                         | V .05        | 23           | 7              | 100         | --            | --                              | 61                         | 78            | .8           | --                         | --        | 402              | 86                                  | --                                      | 7.9 | 77             | --                            | --                              |    |    |
|              |              | 722                                     | Apr. 12, 1973      | --                         | V .01        | 24           | 10             | 107         | --            | --                              | 81                         | 85            | .5           | --                         | --        | 418              | 100                                 | --                                      | 8.4 | 76             | --                            | --                              |    |    |
|              |              | 702                                     | Qal Rg<br>Qtal 6   | 152-175                    | Aug. 2, 1955 | 16           | .1             | 31          | 6             | 139                             | --                         | 163           | 78           | 134                        | --        | --               | --                                  | 585                                     | 102 | --             | 8.2                           | --                              | -- | -- |
|              |              |   |                    | 223-245                    | do           | 16           | .07            | 35          | 8             | 155                             | --                         | 134           | 60           | 200                        | --        | --               | --                                  | 628                                     | 120 | --             | 8.2                           | --                              | -- | -- |
| 285-310      | Aug. 3, 1955 |   |                    | 18                         | .07          | 35           | 11             | 158         | --            | 104                             | 56                         | 136           | --           | --                         | --        | 640              | 144                                 | --                                      | 8.2 | --             | --                            | --                              |    |    |
| 370-395      | Aug. 4, 1955 |   |                    | 16                         | .05          | 71           | 11             | 266         | --            | 90                              | 36                         | 490           | --           | --                         | --        | 1,032            | 223                                 | --                                      | 8.1 | --             | --                            | --                              |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well          | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)                     | Calcium (Ca)  | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |      |    |    |
|---------------|---------|--|--------------------|----------------------------|-------------------------------|---------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|------|----|----|
| JL-49-14-702  | Qtal 6  | 475-500<br>575-595                     | Aug. 4, 1955       | 14                         | 0.05                          | 192           | 24             | 660         | --            | 68                              | 63                         | 1,120         | --           | --                         | --        | 2,204            | 579                                 | --                                       | 7.9 | --             | --                            | --                              |      |    |    |
|               |         |  | Aug. 6, 1955       | 12                         | .05                           | 259           | 21             | 899         | --            | 31                              | 81                         | 81            | 1,530        | --                         | --        | --               | 2,871                               | 734                                      | --  | 7.8            | --                            | --                              | --   |    |    |
|               |         |  | Oct. 27, 1955      | --                         | <.02                          | 14            | 5              | 96          | --            | 96                              | --                         | 68            | 42.5         | 0.8                        | --        | --               | 346                                 | 55                                       | --  | 8.5            | --                            | --                              | --   | -- |    |
|               |         |  | June 29, 1956      | 34                         | --                            | 15            | 4.2            | 93          | --            | 93                              | --                         | 155           | 65           | 42                         | .8        | 2.5              | 332                                 | 55                                       | 526 | 8.1            | 79                            | --                              | --   | -- |    |
|               |         |  | Oct. 22, 1958      | --                         | <.02                          | 18            | 4              | --          | --            | --                              | --                         | 52            | 52           | 1.9                        | --        | --               | 355                                 | 59                                       | --  | 7.9            | --                            | --                              | --   | -- |    |
|               |         |  | Dec. 12, 1959      | --                         | .02                           | 32            | 3              | --          | --            | --                              | --                         | 60            | 48           | 1.0                        | --        | --               | 318                                 | 90                                       | --  | 7.6            | --                            | --                              | --   | -- |    |
|               |         |  | Sept. 13, 1960     | --                         | <.02                          | 18            | 5              | --          | --            | --                              | --                         | 64            | 50           | --                         | --        | --               | 322                                 | 68                                       | --  | 8.2            | --                            | --                              | --   | -- |    |
|               |         |  | Apr. 23, 1961      | --                         | .02                           | 21            | 7              | --          | --            | --                              | --                         | 66            | 80           | 1.0                        | --        | --               | 376                                 | 80                                       | --  | 7.9            | --                            | --                              | --   | -- | -- |
|               |         |  | Mar. 27, 1962      | --                         | .03                           | 19            | 5              | --          | --            | --                              | --                         | 59            | 65           | 1.3                        | --        | --               | 371                                 | 68                                       | --  | 8.1            | --                            | --                              | --   | -- | -- |
|               |         |  | May 15, 1964       | --                         | .02                           | 19            | 6              | --          | --            | --                              | --                         | 66            | 75           | .7                         | --        | --               | 353                                 | 72                                       | --  | 8.2            | --                            | --                              | --   | -- | -- |
|               |         |  | Dec. 12, 1968      | --                         | .06                           | 19            | 5              | 101         | --            | --                              | --                         | 69            | 65           | .6                         | 0         | --               | 412                                 | 68                                       | --  | 8.2            | --                            | --                              | --   | -- | -- |
|               |         |  | July 3, 1969       | --                         | .02                           | 19            | 4              | 112         | --            | --                              | --                         | 71            | 75           | .4                         | --        | --               | 436                                 | 64                                       | --  | 8.2            | --                            | --                              | --   | -- | -- |
|               |         |  | Aug. 26, 1970      | --                         | .01                           | 20            | 6              | 107         | --            | --                              | --                         | 71            | 80           | .7                         | --        | --               | 357                                 | 74                                       | --  | 8.4            | 80                            | --                              | --   | -- | -- |
|               |         |  | May 28, 1971       | --                         | .30                           | 20            | 4.1            | 99          | --            | --                              | --                         | 78            | 53           | .7                         | --        | --               | 331                                 | 67                                       | --  | 8.1            | 80                            | --                              | --   | -- | -- |
|               |         |  | Apr. 23, 1972      | --                         | .01                           | 18            | 5              | 121         | --            | --                              | --                         | 83            | 83           | .6                         | --        | --               | 379                                 | 68                                       | --  | 7.6            | 84                            | --                              | --   | -- | -- |
|               |         |  | Apr. 5, 1973       | --                         | .01                           | 19            | 6              | 98          | --            | --                              | --                         | 65            | 64           | .5                         | --        | --               | 406                                 | 72                                       | --  | 8.2            | 80                            | --                              | --   | -- | -- |
|               |         |  | 703                | Qtal 6                     | 762                           | May 18, 1956  | --             | --          | 16            | 5                               | 97                         | --            | --           | 65                         | 54        | .7               | --                                  | --                                       | 350 | 61             | --                            | 8.5                             | --   | -- | -- |
| July 23, 1962 | --      | <.03                                   |                    |                            |                               | 17            | 13             | --          | --            | --                              | 97                         | 60            | 1.0          | --                         | --        | 375              | 95                                  | --                                       | 8.0 | --             | --                            | --                              | --   |    |    |
| June 14, 1964 | --      | .03                                    |                    |                            |                               | 16            | 12             | --          | --            | --                              | 89                         | 55            | .9           | --                         | --        | 344              | 89                                  | --                                       | 7.9 | --             | --                            | --                              | --   |    |    |
| Aug. 1, 1966  | 31      | .00                                    |                    |                            |                               | 22            | 5.4            | 94          | 7.1           | 153                             | 70                         | 66            | .8           | 2.5                        | 0.11      | 375              | 78                                  | 614                                      | 7.5 | 79             | 4.6                           | 0.96                            | 0.96 |    |    |
| Sept. 8, 1967 | --      | .016                                   |                    |                            |                               | 24            | 7              | --          | --            | --                              | 64                         | 55            | .9           | --                         | --        | 362              | 88                                  | --                                       | 7.9 | --             | --                            | --                              | --   | -- |    |
| 704           | Qtal 6  | 610                                    | Oct. 13, 1954      | --                         | <.1                           | 12            | 6              | 115         | --            | --                              | 72                         | 47            | .8           | --                         | --        | 353              | 55                                  | --                                       | 8.4 | --             | --                            | --                              |      |    |    |
|               |         |  | July 2, 1956       | 34                         | --                            | 14            | 4.0            | 96          | --            | 159                             | 65                         | 41            | 1.8          | 2.5                        | --        | 336              | 52                                  | 531                                      | 7.9 | 80             | --                            | --                              | --   |    |    |
|               |         |  | Oct. 22, 1958      | --                         | <.02                          | 22            | 5              | --          | --            | --                              | 62                         | 110           | .7           | --                         | --        | 454              | 77                                  | --                                       | 7.9 | --             | --                            | --                              | --   |    |    |
|               |         |  | Dec. 12, 1959      | --                         | .02                           | 20            | 1              | --          | --            | --                              | 65                         | 43            | .5           | --                         | --        | 355              | 88                                  | --                                       | 7.9 | --             | --                            | --                              | --   |    |    |
|               |         |  | Sept. 13, 1960     | --                         | <.02                          | 14            | 0              | --          | --            | --                              | 65                         | 47            | .8           | --                         | --        | 386              | 42                                  | --                                       | 8.5 | --             | --                            | --                              | --   |    |    |
|               |         |  | Apr. 5, 1961       | --                         | .02                           | 22            | 6              | --          | --            | --                              | 57                         | 130           | 1.1          | --                         | --        | 443              | 78                                  | --                                       | 8.3 | --             | --                            | --                              | --   |    |    |
|               |         |  | Apr. 5, 1962       | --                         | <.03                          | 21            | 6              | --          | --            | --                              | 62                         | 110           | 1.2          | --                         | --        | 436              | 76                                  | --                                       | 7.9 | --             | --                            | --                              | --   |    |    |
|               |         |  | Aug. 21, 1963      | --                         | .04                           | 25            | 6              | --          | --            | --                              | 71                         | 85            | .8           | --                         | --        | 436              | 87                                  | --                                       | 8.5 | --             | --                            | --                              | --   |    |    |
|               |         |  | May 15, 1964       | --                         | .04                           | 25            | 5              | --          | --            | --                              | 74                         | 80            | .8           | --                         | --        | 436              | 86                                  | --                                       | 8.4 | --             | --                            | --                              | --   |    |    |
|               |         |  | July 27, 1965      | --                         | .07                           | 20            | 5              | --          | --            | --                              | 75                         | 85            | .7           | --                         | --        | 441              | 70                                  | --                                       | 8.4 | --             | --                            | --                              | --   |    |    |
|               |         |  | Aug. 1, 1966       | 30                         | .02                           | 22            | 4.6            | 116         | 5.9           | 146                             | 73                         | 102           | .8           | 1.5                        | .08       | 429              | 74                                  | 725                                      | 7.5 | 75             | 5.9                           | .90                             | .90  |    |    |
|               |         |  | Aug. 10, 1967      | --                         | .01                           | 22            | 4              | --          | --            | --                              | 87                         | 110           | .7           | --                         | --        | 473              | 72                                  | --                                       | 8.4 | --             | --                            | --                              | --   |    |    |
|               |         |  | Sept. 8, 1967      | --                         | .01                           | 22            | 4              | --          | --            | --                              | 87                         | 110           | .7           | --                         | --        | 473              | 72                                  | --                                       | 8.3 | --             | --                            | --                              | --   |    |    |
|               |         |  | July 21, 1970      | --                         | --                            | 18            | 5              | 100         | --            | --                              | 69                         | 65            | .6           | --                         | --        | 329              | 64                                  | --                                       | 8.1 | 81             | --                            | --                              | --   |    |    |
|               |         |  | May 27, 1971       | --                         | .03                           | 22            | 3.9            | 118         | --            | --                              | 73                         | 96            | .6           | --                         | --        | 382              | 70                                  | --                                       | 8.1 | 82             | --                            | --                              | --   |    |    |
|               |         |  | July 27, 1972      | --                         | .01                           | 22            | 6              | 161         | --            | --                              | 88                         | 156           | .8           | --                         | --        | 444              | 82                                  | --                                       | 7.9 | 85             | --                            | --                              | --   |    |    |
|               |         |  | May 25, 1973       | --                         | <.02                          | 15            | 6              | 124         | --            | --                              | --                         | 92            | 79           | .2                         | --        | --               | 412                                 | 72                                       | --  | 8.3            | 86                            | --                              | --   | -- |    |
| 705           | Qtal 6  | 369-389<br>580-600<br>743-762          | Oct. 31, 1956      | --                         | --                            | --            | --             | --          | --            | 165                             | --                         | 52            | --           | --                         | --        | 71               | 577                                 | 8.8                                      | --  | --             | --                            |                                 |      |    |    |
|               |         |  | Nov. 2, 1956       | --                         | --                            | --            | --             | --          | --            | 147                             | --                         | 40            | --           | --                         | --        | 52               | 515                                 | 8.5                                      | --  | --             | --                            | --                              |      |    |    |
|               |         |  | Nov. 5, 1956       | --                         | --                            | --            | --             | --          | --            | --                              | 96                         | --            | 355          | --                         | --        | 149              | 1,450                               | 8.1                                      | --  | --             | --                            | --                              |      |    |    |
|               |         |  | Nov. 5, 1958       | --                         | <.02                          | 19            | 7              | --          | --            | --                              | --                         | 60            | 56           | 2.0                        | --        | 359              | 78                                  | --                                       | 8.0 | --             | --                            | --                              |      |    |    |
|               |         |  | Dec. 12, 1959      | --                         | .02                           | 22            | 7              | --          | --            | --                              | --                         | 68            | 53           | 1.8                        | --        | 337              | 82                                  | --                                       | 7.6 | --             | --                            | --                              |      |    |    |
|               |         |  | Apr. 23, 1961      | --                         | .02                           | 20            | 5              | --          | --            | --                              | --                         | 63            | 85           | 1.8                        | --        | 380              | 70                                  | --                                       | 8.4 | --             | --                            | --                              |      |    |    |
|               |         |  | Aug. 27, 1962      | --                         | .02                           | 21            | 9              | --          | --            | --                              | --                         | 74            | 90           | 1.6                        | --        | 421              | 84                                  | --                                       | 8.0 | --             | --                            | --                              |      |    |    |
|               |         |  | Feb. 4, 1963       | --                         | .02                           | 18            | 6              | --          | --            | --                              | --                         | 70            | 85           | 1.1                        | --        | 394              | 72                                  | --                                       | 8.1 | --             | --                            | --                              |      |    |    |
|               |         |  | Mar. 1, 1967       | --                         | .02                           | 24            | 6              | --          | --            | --                              | --                         | 75            | 1.0          | --                         | --        | 373              | 72                                  | --                                       | 8.8 | --             | --                            | --                              |      |    |    |
|               |         |  | Dec. 12, 1968      | --                         | .05                           | 20            | 5              | 97          | --            | --                              | 69                         | 60            | .6           | .01                        | --        | 404              | 72                                  | --                                       | 8.3 | --             | --                            | --                              |      |    |    |
|               |         |  | July 3, 1969       | --                         | .04                           | 22            | 6              | 107         | --            | --                              | 75                         | 75            | .5           | --                         | --        | 440              | 78                                  | --                                       | 8.2 | --             | --                            | --                              |      |    |    |
|               |         |  | Aug. 26, 1970      | --                         | .08                           | 21            | 7              | 102         | --            | --                              | 73                         | 75            | .7           | --                         | --        | 351              | 82                                  | --                                       | 8.3 | 78             | --                            | --                              |      |    |    |
|               |         |  | July 9, 1971       | --                         | .02                           | 24            | 3.1            | 98          | --            | --                              | 63                         | 70            | .8           | --                         | --        | 332              | 74                                  | --                                       | 8.1 | 78             | --                            | --                              |      |    |    |
|               |         |  | Apr. 9, 1972       | --                         | .01                           | 21            | 6              | 111         | --            | --                              | 73                         | 83            | .7           | --                         | --        | 399              | 76                                  | --                                       | 7.8 | 80             | --                            | --                              |      |    |    |
|               |         |  | Apr. 5, 1973       | --                         | <.01                          | 22            | 7              | 100         | --            | --                              | --                         | 63            | 79           | .6                         | --        | --               | 425                                 | 74                                       | --  | 8.2            | 78                            | --                              | --   |    |    |
|               |         |  | 706                | Qtal 6                     | 498-523<br>588-613<br>680-705 | Dec. 15, 1960 | --             | --          | 10            | 7                               | --                         | --            | --           | 84                         | 90        | <.4              | --                                  | --                                       | 525 | 52             | --                            | 9.1                             | --   | -- |    |
|               |         |  |                    |                            |                               | Dec. 16, 1960 | --             | --          | 23            | 5                               | --                         | --            | --           | 111                        | 230       | .4               | --                                  | --                                       | 762 | 80             | --                            | 9.7                             | --   | -- |    |
| do            | --      | --                                     |                    |                            |                               | 52            | 7              | --          | --            | --                              | 119                        | 495           | .5           | --                         | --        | 1,225            | 170                                 | --                                       | 9.7 | --             | --                            |                                 |      |    |    |
| Jan. 24, 1961 | 30      | 0                                      |                    |                            |                               | 20            | 5.3            | 114         | 7.8           | 139                             | 59                         | 106           | .7           | 2.8                        | .11       | 414              | 72                                  | 698                                      | 7.5 | 75             | 5.8                           | 5.8                             |      |    |    |
| Jan. 26, 1961 | --      | <.02                                   |                    |                            |                               | 18            | 7              | --          | --            | --                              | 98                         | 116           | .4           | --                         | --        | 446              | 72                                  | --                                       | 8.0 | --             | --                            |                                 |      |    |    |
| May 15, 1964  | --      | .03                                    |                    |                            |                               | 16            | 8              | --          | --            | --                              | 102                        | 120           | .4           | --                         | --        | 416              | 73                                  | --                                       | 8.1 | --             | --                            |                                 |      |    |    |
| 706           | Qtal 6  | 618                                    | Sept. 10, 1966     | 29                         | .02                           | 21            | 5.9            | 123         | 7.6           | 140                             | 61                         | 122           | .8           | 1.8                        | --        | 441              | 77                                  | 764                                      | 7.4 | 76             | 6.1                           | .75                             |      |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (b) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhm/cm at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |      |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-----|----------------|-------------------------------|---------------------------------|------|
| JL-49-14-706 | Qtal 6        | 618                                    | Sept. 8, 1967      | --                         | 0.02      | 22           | 6              | --          | --            | --                              | 114                        | 130           | 0.3          | --                         | --        | 427              | 80                                  | --  | 8.3 | --             | --                            | --                              |      |
|              |               | 618                                    | Jan. 22, 1969      | --                         | 0         | 24           | 7              | 125         | --            | --                              | 58                         | 135           | .6           | --                         | --        | --               | 484                                 | 90  | --  | 8.2            | --                            | --                              | --   |
|              |               | 618                                    | July 2, 1969       | --                         | .04       | 22           | 7              | 132         | --            | --                              | 58                         | 160           | 1.0          | --                         | --        | --               | 496                                 | 84  | --  | 8.2            | --                            | --                              | --   |
|              |               | 618                                    | Aug. 14, 1969      | 30                         | --        | 22           | 6.4            | 127         | 7.5           | 136                             | 58                         | 134           | .7           | 1.6                        | 0.10      | --               | 454                                 | 82  | 780 | 7.5            | 75                            | 6.1                             | 0.60 |
|              |               | 618                                    | July 22, 1970      | --                         | 0         | 24           | 9              | 112         | --            | --                              | 54                         | 125           | .5           | --                         | --        | --               | 390                                 | 88  | --  | 8.0            | 77                            | --                              | --   |
|              |               | 618                                    | July 9, 1971       | --                         | .04       | 26           | 5              | 127         | --            | --                              | 49                         | 145           | .7           | --                         | --        | --               | 416                                 | 86  | --  | 8.1            | 80                            | --                              | --   |
| 618          | May 27, 1972  | --                                     | .04                | 24                         | 6         | 126          | --             | --          | 68            | 143                             | .5                         | --            | --           | --                         | 488       | 86               | --                                  | 8.2                                       | 81  | --             | --                            |                                 |      |
| 707          | Qtal 6        | 485-510                                | Apr. 18, 1961      | --                         | .02       | 10           | 6              | --          | --            | 145                             | 70                         | 40            | .6           | --                         | --        | 360              | 50                                  | --  | 8.9 | --             | --                            | --                              |      |
|              |               | 645-670                                | do                 | --                         | .02       | 8            | 3              | --          | --            | 137                             | 94                         | 50            | .6           | --                         | --        | 339              | 33                                  | --  | 9.2 | --             | --                            | --                              |      |
|              |               | 776-801                                | do                 | --                         | .02       | 16           | 2              | --          | --            | 133                             | 109                        | 115           | .7           | --                         | --        | 405              | 49                                  | --  | 9.0 | --             | --                            | --                              |      |
|              |               | 747                                    | July 27, 1965      | --                         | .02       | 16           | 5              | --          | --            | --                              | 43                         | 45            | .4           | --                         | --        | 311              | 60                                  | --  | 8.3 | --             | --                            | --                              |      |
|              |               | 747                                    | June 22, 1966      | --                         | .03       | 20           | 3              | --          | --            | --                              | 73                         | 40            | .3           | --                         | --        | 323              | 64                                  | --  | 8.1 | --             | --                            | --                              |      |
|              |               | 747                                    | Feb. 23, 1967      | --                         | .01       | 17           | 8              | --          | --            | --                              | 73                         | 55            | 1.3          | --                         | --        | 324              | 76                                  | --  | --  | --             | --                            | --                              |      |
|              |               | 747                                    | Dec. 12, 1968      | --                         | .03       | 43           | 5              | 50          | --            | --                              | 63                         | 30            | .6           | --                         | .01       | --               | 347                                 | 62  | --  | 8.4            | --                            | --                              | --   |
|              |               | 747                                    | July 3, 1969       | --                         | .03       | 18           | 6              | 104         | --            | --                              | 75                         | 60            | .5           | --                         | --        | 424              | 68                                  | --  | 8.2 | --             | --                            | --                              |      |
|              |               | 747                                    | Aug. 28, 1970      | --                         | .02       | 16           | 6              | 84          | --            | --                              | 65                         | 40            | .5           | --                         | --        | 285              | 66                                  | --  | 8.3 | 79             | --                            | --                              |      |
|              |               | 747                                    | Sept. 2, 1971      | --                         | .01       | 17           | 5              | 86          | --            | --                              | 71                         | 36            | .7           | --                         | --        | 291              | 62                                  | --  | 8.2 | 80             | --                            | --                              |      |
|              |               | 747                                    | July 27, 1972      | --                         | .04       | 18           | 5              | 95          | --            | --                              | --                         | 86            | 39           | .7                         | --        | --               | 340                                 | 64  | --  | 7.9            | 81                            | --                              | --   |
| 708          | Qtal 6        | 750                                    | May 25, 1962       | 32                         | .10       | 22           | 6.3            | 116         | --            | 156                             | 78                         | 85            | .8           | 2.5                        | --        | 420              | 81                                  | 694                                       | 7.3 | 76             | 3.6                           | --                              |      |
| 709          | Qtal 6        | 789-814                                | Jan. 3, 1967       | --                         | .004      | 23           | 5              | --          | --            | --                              | 78                         | 145           | .1           | --                         | --        | 482              | 80                                  | --  | 8.1 | --             | --                            | --                              |      |
|              |               | 814                                    | July 17, 1969      | --                         | .02       | 16           | 6              | 94          | --            | --                              | 65                         | 60            | .5           | --                         | --        | 383              | 64                                  | --  | 8.2 | --             | --                            | --                              |      |
|              |               | 814                                    | Aug. 28, 1970      | --                         | .01       | 19           | 4              | 97          | --            | --                              | 60                         | 70            | .5           | --                         | --        | 318              | 66                                  | --  | 8.3 | 81             | --                            | --                              |      |
|              |               | 814                                    | Sept. 8, 1971      | --                         | .02       | 22           | 2              | 98          | --            | --                              | 61                         | 67            | .7           | --                         | --        | 321              | 64                                  | --  | 8.2 | 80             | --                            | --                              |      |
|              |               | 814                                    | Apr. 10, 1972      | --                         | .03       | 19           | 4              | 81          | --            | --                              | 46                         | 55            | .1           | --                         | --        | 380              | 64                                  | --  | 8.2 | 79             | --                            | --                              |      |
| 814          | Apr. 30, 1973 | --                                     | .02                | 20                         | 4.8       | 88           | --             | --          | 38            | 74                              | .3                         | --            | --           | 389                        | 71        | --               | 8.0                                 | 78  | --  | --             |                               |                                 |      |
| 710          | Qtal 6        | 555                                    | Oct. 13, 1954      | --                         | .1        | 16           | 7              | 146         | --            | --                              | 80                         | 107           | 1.0          | --                         | --        | 430              | 69                                  | --  | 8.4 | --             | --                            | --                              |      |
|              |               | 555                                    | Apr. 29, 1956      | 34                         | .02       | 18           | 4.6            | 130         | --            | 152                             | 71                         | 102           | 1.0          | --                         | --        | 444              | 64                                  | 727                                       | 8.0 | 82             | --                            | --                              |      |
|              |               | 555                                    | Apr. 5, 1962       | --                         | .02       | 20           | 8              | --          | --            | --                              | 77                         | 130           | 1.1          | --                         | --        | 469              | 80                                  | --  | 8.0 | --             | --                            | --                              |      |
|              |               | 555                                    | Jan. 11, 1963      | --                         | .007      | 19           | 7              | --          | --            | --                              | 73                         | 123           | .6           | --                         | --        | 505              | 78                                  | --  | 8.4 | --             | --                            | --                              |      |
|              |               | 555                                    | July 27, 1965      | --                         | .01       | 20           | 5              | --          | --            | --                              | 75                         | 130           | .5           | --                         | --        | 468              | 70                                  | --  | 8.3 | --             | --                            | --                              |      |
|              |               | 555                                    | June 22, 1966      | --                         | .02       | 20           | 5              | --          | --            | --                              | 88                         | 110           | .3           | --                         | --        | 478              | 72                                  | --  | 8.1 | --             | --                            | --                              |      |
|              |               | 555                                    | Aug. 1, 1966       | 30                         | .03       | 18           | 4.9            | 131         | 6.1           | 156                             | 71                         | 109           | .9           | 2.8                        | .09       | --               | 451                                 | 66  | 768 | 7.7            | 79                            | 7.0                             | 1.25 |
|              |               | 555                                    | Aug. 10, 1967      | --                         | .013      | 26           | 1              | --          | --            | --                              | 83                         | 105           | .7           | --                         | --        | 443              | 70                                  | --  | 8.3 | --             | --                            | --                              |      |
| 711          | Qtal 6        | 490                                    | June 10, 1952      | 34                         | --        | 12           | 2.9            | 103         | --            | 153                             | 76                         | 39            | 2.4          | .2                         | --        | 375              | 42                                  | 553                                       | 7.8 | 84             | --                            | --                              |      |
|              |               | 490                                    | Oct. 13, 1954      | --                         | .2        | 16           | 7              | 142         | --            | --                              | 74                         | 106           | 1.0          | --                         | --        | 485              | 69                                  | --  | 8.4 | --             | --                            | --                              |      |
|              |               | 490                                    | July 13, 1956      | --                         | --        | --           | --             | --          | --            | --                              | 150                        | --            | 54           | --                         | --        | --               | 49                                  | 575                                       | 8.2 | --             | --                            | --                              |      |
| 713          | Qtal 6        | 562                                    | Aug. 4, 1966       | 31                         | .23       | 91           | 22             | 183         | 12            | 175                             | 236                        | 242           | .6           | 18                         | --        | 924              | 320                                 | 1,530                                     | 7.3 | 54             | 4.4                           | --                              |      |
| 714          | Qtal 6        | 650                                    | Aug. 1967          | --                         | .01       | 34           | 6              | --          | --            | --                              | 238                        | 460           | 1.1          | --                         | --        | 1,038            | 110                                 | --  | 8.3 | --             | --                            | --                              |      |
|              |               | 650                                    | Aug. 8, 1967       | 28                         | --        | 34           | 7.8            | 316         | 7.9           | 124                             | 87                         | 448           | 1.3          | .5                         | --        | 992              | 117                                 | 1,820                                     | 7.5 | 84             | 13                            | 0                               |      |
|              |               | 650                                    | Sept. 12, 1967     | 29                         | .02       | 20           | 5.4            | 139         | 6.9           | 141                             | 58                         | 144           | 1.3          | .8                         | .08       | 475              | 72                                  | 810                                       | 7.1 | 79             | 7.1                           | .87                             |      |
|              |               | 650                                    | Sept. 19, 1967     | --                         | .01       | 17           | 5              | --          | --            | --                              | 73                         | 145           | .3           | --                         | --        | 504              | 64                                  | --  | 8.2 | --             | --                            | --                              |      |
|              |               | 650                                    | do                 | --                         | .01       | 24           | 4              | --          | --            | --                              | 72                         | 150           | .1           | --                         | --        | 473              | 76                                  | --  | 8.3 | --             | --                            | --                              |      |
|              |               | 650                                    | July 2, 1969       | --                         | .02       | 20           | 9              | 142         | --            | --                              | 69                         | 150           | .7           | --                         | --        | 528              | 86                                  | --  | 8.3 | --             | --                            | --                              |      |
|              |               | 650                                    | Aug. 28, 1970      | --                         | .11       | 25           | 6              | 94          | --            | --                              | 54                         | 190           | 1.2          | --                         | --        | 435              | 88                                  | --  | 8.3 | 75             | --                            | --                              |      |
|              |               | 650                                    | June 14, 1971      | --                         | .07       | 26           | 5.3            | 152         | --            | --                              | 58                         | 179           | .6           | --                         | --        | 484              | 86                                  | --  | 8.4 | --             | --                            | --                              |      |
|              |               | 650                                    | July 27, 1972      | --                         | .04       | 24           | 7              | 77          | --            | --                              | 71                         | 181           | .8           | --                         | --        | 527              | 90                                  | --  | 7.8 | 71             | --                            | --                              |      |
|              |               | 650                                    | Apr. 21, 1973      | --                         | .01       | 25           | 5              | 159         | --            | --                              | 54                         | 187           | .5           | --                         | --        | 552              | 83                                  | --  | 8.4 | 84             | --                            | --                              |      |
| 715          | Qtal 6        | 415-440                                | Feb. 6, 1969       | --                         | .04       | 19           | 3              | 118         | --            | --                              | 88                         | 65            | .5           | --                         | --        | 456              | 66                                  | --  | 8.1 | 84             | --                            | --                              |      |
|              |               | 680                                    | Mar. 3, 1969       | --                         | --        | 17           | 4.4            | --          | --            | 168                             | 79                         | 74            | --           | --                         | --        | 60               | 680                                 | --  | 8.0 | --             | 1.54                          | --                              |      |
|              |               | 680                                    | Mar. 13, 1969      | --                         | .03       | 24           | 3              | 104         | --            | --                              | 67                         | 70            | 1.1          | --                         | --        | 427              | 72                                  | --  | 8.1 | 79             | --                            | --                              |      |
|              |               | 680                                    | Oct. 10, 1969      | --                         | .03       | 23           | 7              | 96          | --            | --                              | 60                         | 70            | 1.2          | 1.95                       | --        | 421              | 86                                  | --  | 8.0 | 76             | --                            | --                              |      |
|              |               | 680                                    | Aug. 28, 1970      | --                         | .01       | 22           | 6              | 104         | --            | --                              | 60                         | 80            | .5           | --                         | --        | 351              | 80                                  | --  | 8.4 | 78             | --                            | --                              |      |
|              |               | 680                                    | July 10, 1971      | --                         | .04       | 24           | 5              | 102         | --            | --                              | 65                         | 76            | .6           | --                         | --        | 348              | 80                                  | --  | 8.1 | 78             | --                            | --                              |      |
|              |               | 680                                    | July 27, 1972      | --                         | .01       | 22           | 6              | 103         | --            | --                              | 71                         | 68            | .7           | --                         | --        | 428              | 80                                  | --  | 8.0 | 79             | --                            | --                              |      |
|              |               | 680                                    | Apr. 21, 1973      | --                         | .01       | 23           | 6              | 97          | --            | --                              | --                         | 65            | 66           | .4                         | --        | --               | 418                                 | 82  | --  | 8.5            | 77                            | --                              | --   |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|---------|--|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-14-716 | Qtal 6  | 453-478                                | Sept. 20, 1969     | --                         | 0.08          | 19           | 6              | 142         | --            | --                              | 63                         | 140           | 0.2          | --                         | --        | 513              | 72                                  | --                                       | 8.4   | 85             | --                            | --                              |    |    |
|              |         | 560                                    | Oct. 16, 1969      | --                         | .02           | 27           | 5              | 157         | --            | --                              | 44                         | 195           | 3.3          | 1.3                        | --        | --               | 560                                 | 86                                       | --    | 8.2            | 83                            | --                              | -- |    |
|              |         | 560                                    | July 9, 1971       | --                         | .1            | 26           | 4              | 199         | --            | --                              | 49                         | 185           | .7           | --                         | --        | --               | 523                                 | 83                                       | --    | 8.2            | 87                            | --                              | -- |    |
|              |         | 560                                    | July 27, 1972      | --                         | .03           | 24           | 7              | 164         | --            | --                              | 60                         | 196           | .8           | --                         | --        | --               | 551                                 | 88                                       | --    | 7.9            | 84                            | --                              | -- |    |
|              |         | 560                                    | Apr. 21, 1973      | --                         | .02           | 26           | 6              | 163         | --            | --                              | 59                         | 195           | .4           | --                         | --        | 580              | 92                                  | --                                       | 8.3   | 84             | --                            | --                              |    |    |
| 717          | Qtal 6  | 555                                    | Oct. 16, 1969      | --                         | .02           | 27           | 5              | 157         | --            | --                              | 44                         | 195           | 3.3          | 1.3                        | --        | --               | 560                                 | 86                                       | --    | 8.2            | 83                            | --                              | -- |    |
|              |         | 501-526                                | Oct. 17, 1969      | --                         | .07           | 38           | 5              | 199         | --            | --                              | 67                         | 270           | .6           | --                         | --        | --               | 700                                 | 114                                      | --    | 8.8            | 59                            | --                              | -- |    |
|              |         | 555                                    | Dec. 15, 1969      | --                         | .07           | 51           | 9              | 282         | --            | --                              | 83                         | 420           | .8           | --                         | --        | --               | 966                                 | 164                                      | --    | 8.1            | 82                            | --                              | -- |    |
|              |         | 555                                    | May 14, 1970       | 15                         | .7            | 96           | 14             | 362         | --            | --                              | 93                         | 530           | .7           | --                         | --        | --               | 1,109                               | 199                                      | --    | 7.9            | 84                            | --                              | -- |    |
|              |         | 555                                    | Aug. 28, 1970      | --                         | .04           | 49           | 13             | 293         | --            | --                              | 71                         | 460           | .5           | --                         | --        | --               | 941                                 | 176                                      | --    | 8.3            | 83                            | --                              | -- |    |
|              |         | 555                                    | Sept. 23, 1970     | --                         | .06           | 46           | 15             | 399         | --            | --                              | 96                         | 605           | .6           | --                         | --        | --               | 1,217                               | 174                                      | --    | 7.7            | 87                            | --                              | -- |    |
|              |         | 555                                    | July 9, 1971       | --                         | .04           | 52           | 13             | 303         | --            | --                              | 81                         | 473           | .7           | --                         | --        | --               | 977                                 | 184                                      | --    | 8.1            | 82                            | --                              | -- |    |
|              |         | 555                                    | July 27, 1972      | --                         | .01           | 52           | 15             | 309         | --            | --                              | 86                         | 484           | .7           | --                         | --        | --               | 1,107                               | 193                                      | --    | 7.9            | 82                            | --                              | -- |    |
|              |         | 555                                    | Apr. 12, 1973      | --                         | .01           | 59           | 13             | 312         | --            | --                              | 84                         | 495           | .5           | --                         | --        | 1,106            | 200                                 | --                                       | 8.2   | 81             | --                            | --                              |    |    |
| 718          | Qtal 6  | 513-538                                | Mar. 14, 1969      | --                         | --            | 15           | 3              | 144         | --            | --                              | 75                         | 115           | .6           | --                         | --        | 501              | 52                                  | --                                       | 8.7   | 89             | --                            | --                              |    |    |
|              |         | 540                                    | Apr. 3, 1969       | --                         | --            | 16           | 3.9            | 110         | --            | --                              | 63                         | 75            | .4           | 3.3                        | --        | --               | 424                                 | 96                                       | --    | 8.5            | 85                            | --                              | -- |    |
|              |         | 540                                    | Aug. 28, 1970      | --                         | .07           | 18           | 6              | 123         | --            | --                              | 67                         | 105           | .7           | --                         | --        | --               | 392                                 | 70                                       | --    | 8.4            | 84                            | --                              | -- |    |
|              |         | 540                                    | Aug. 28, 1971      | --                         | .18           | 18           | 4              | 120         | --            | --                              | 70                         | 91            | .7           | --                         | --        | --               | 377                                 | 63                                       | --    | 8.0            | 85                            | --                              | -- |    |
|              |         | 540                                    | July 27, 1972      | --                         | .01           | 18           | 5              | 114         | --            | --                              | 71                         | 83            | .8           | --                         | --        | --               | 427                                 | 66                                       | --    | 8.5            | 83                            | --                              | -- |    |
|              |         | 540                                    | Apr. 27, 1973      | --                         | .01           | 18           | 5              | 114         | --            | --                              | 72                         | 82            | .5           | --                         | --        | 418              | 68                                  | --                                       | 8.5   | 83             | --                            | --                              |    |    |
| 801          | Qtal 6  | 350                                    | Apr. 22, 1936      | --                         | .48           | 54           | 17             | 488         | --            | 202                             | 179                        | 648           | --           | .8                         | --        | 1,490            | 205                                 | --                                       | --    | --             | --                            | --                              |    |    |
|              |         | 520                                    | Aug. 8, 1967       | 28                         | --            | 34           | 7.8            | 316         | 7.9           | 124                             | 87                         | 448           | 1.3          | .5                         | --        | 992              | 117                                 | 1,820                                    | 7.5   | 84             | 13.0                          | 0                               |    |    |
|              |         | 480                                    | Sept. 12, 1967     | 29                         | .02           | 20           | 5.4            | 139         | 6.9           | 141                             | 58                         | 144           | 1.3          | .8                         | --        | 475              | 72                                  | 810                                      | 7.1   | 79             | 7.1                           | 8.7                             |    |    |
| 15-301       | Qtal 6  | 558                                    | July 7, 1976       | 19                         | --            | 56           | 16             | 405         | --            | 221                             | 264                        | 461           | 2.7          | 23.0                       | --        | 1,370            | 206                                 | 2,240                                    | 7.7   | --             | --                            | --                              |    |    |
|              |         | 401                                    | Qtal 6             | 600                        | Mar. 25, 1952 | 31           | --             | 79          | 29            | 489                             | --                         | 120           | 685          | 4.10                       | .8        | 2.0              | 0.22                                | 1,780                                    | 316   | 2,790          | 8.2                           | 77                              | -- | -- |
|              |         | 600                                    | Nov. 8, 1971       | 28                         | .1            | 224          | 120            | 681         | --            | --                              | 1,103                      | 419           | 2.32         | --                         | --        | 2,454            | 344                                 | 2,670                                    | 7.4   | --             | --                            | --                              |    |    |
| 402          | Qtal 6  | 394                                    | Oct. 6, 1958       | 31                         | .2            | 158          | 74             | 474         | --            | 128                             | 759                        | 260           | .2           | --                         | --        | 1,760            | 232                                 | --                                       | 8.0   | --             | --                            | --                              |    |    |
|              |         | 456                                    | Oct. 10, 1958      | 23                         | .2            | 172          | 94             | 552         | --            | 110                             | 878                        | 327           | .2           | --                         | --        | 1,980            | 266                                 | --                                       | 7.9   | --             | --                            | --                              |    |    |
|              |         | 579                                    | Nov. 6, 1958       | 22                         | .89           | 220          | 100            | 600         | --            | 159                             | 917                        | 383           | .9           | --                         | --        | 2,190            | 320                                 | --                                       | 7.8   | --             | --                            | --                              |    |    |
| 404          | Qtal 6  | 490-510                                | Mar. 16, 1973      | 29                         | .25           | 240          | 140            | 672         | --            | --                              | --                         | --            | .82          | --                         | --        | 2,431            | --                                  | 3,178                                    | 8.1   | --             | --                            | --                              |    |    |
|              |         | 570-590                                | do                 | 25.6                       | .05           | 168          | 68             | 460         | --            | --                              | --                         | --            | .76          | --                         | --        | 1,620            | --                                  | 2,426                                    | 7.7   | --             | --                            | --                              |    |    |
|              |         | 640                                    | Mar. 27, 1973      | 27.6                       | .16           | 240          | 140            | 626         | --            | --                              | 1,025                      | 426           | 1.0          | --                         | --        | --               | 2,350                               | 398                                      | 3,000 | 8.1            | --                            | --                              | -- |    |
|              |         | 640                                    | Apr. 20, 1973      | 33                         | .09           | 248          | 152            | 568         | --            | --                              | 825                        | 476           | 1.54         | --                         | --        | --               | 2,163                               | 400                                      | 2,975 | 7.6            | --                            | --                              | -- |    |
|              |         | 640                                    | June 18, 1973      | 31.2                       | .11           | 264          | 148            | 610         | --            | --                              | 875                        | 520           | 1.7          | --                         | --        | --               | 2,297                               | 412                                      | 3,145 | 7.6            | --                            | --                              | -- |    |
|              |         | 640                                    | July 5, 1976       | 28                         | --            | 136          | 24             | 580         | --            | 123                             | 950                        | 462           | .8           | <.4                        | --        | 2,240            | 440                                 | 3,140                                    | 7.6   | --             | --                            | --                              |    |    |
| 406          | Qtal 6  | 440                                    | do                 | 29                         | --            | 82           | 16             | 381         | --            | 128                             | 580                        | 288           | .8           | 4.6                        | --        | 1,450            | 271                                 | 2,150                                    | 7.7   | --             | --                            | --                              |    |    |
| 407          | Qtal 6  | 400                                    | July 6, 1976       | 30                         | --            | 133          | 26             | 580         | --            | 127                             | 860                        | 496           | .8           | 3.2                        | --        | 2,190            | 438                                 | 3,200                                    | 7.7   | --             | --                            | --                              |    |    |
| 501          | Qtal 6  | 450                                    | July 5, 1976       | 31                         | --            | 23           | 5              | 253         | --            | 216                             | 219                        | 1.51          | 1.6          | 10.0                       | --        | 800              | 77                                  | 1,250                                    | 7.5   | --             | --                            | --                              |    |    |
| 503          | Qtal 6  | --                                     | July 7, 1976       | 32                         | --            | 48           | 9              | 334         | --            | 157                             | 282                        | 314           | 1.1          | 6.0                        | --        | 1,100            | 155                                 | 1,810                                    | 7.3   | --             | --                            | --                              |    |    |
| 504          | Qtal 6  | 417                                    | July 5, 1976       | 30                         | --            | 83           | 19             | 471         | --            | 110                             | 315                        | 610           | 1.0          | 10.0                       | --        | 1,590            | 284                                 | 2,600                                    | 7.5   | --             | --                            | --                              |    |    |
| 701          | Qtal 6  | 596                                    | June 17, 1953      | 33                         | .04           | 96           | 35             | 550         | --            | 124                             | 940                        | 350           | 1.3          | 2.2                        | --        | 2,070            | 384                                 | 2,950                                    | 7.8   | 76             | --                            | --                              |    |    |
|              |         | 596                                    | Mar. 1, 1958       | 33                         | --            | 216          | 132            | --          | --            | --                              | --                         | 345           | --           | --                         | --        | 2,400            | 348                                 | 2,650                                    | 7.8   | --             | --                            | --                              |    |    |
|              |         | 596                                    | May 1, 1958        | 35                         | --            | 228          | 133            | --          | --            | --                              | --                         | 348           | --           | --                         | --        | --               | 381                                 | --                                       | --    | 7.5            | --                            | --                              | -- |    |
|              |         | 596                                    | July 1, 1958       | --                         | --            | 228          | 132            | --          | --            | --                              | --                         | 366           | --           | --                         | --        | --               | 350                                 | --                                       | --    | 7.3            | --                            | --                              | -- |    |
|              |         | 596                                    | Sept. 1, 1958      | --                         | --            | 228          | 132            | --          | --            | --                              | --                         | 1,144         | 348          | --                         | --        | --               | 360                                 | --                                       | --    | 7.5            | --                            | --                              | -- |    |
|              |         | 596                                    | Nov. 1, 1958       | 38                         | .62           | 224          | 124            | --          | --            | --                              | --                         | 1,120         | 363          | --                         | --        | --               | --                                  | 330                                      | --    | 2,790          | 7.7                           | --                              | -- | -- |
|              |         | 596                                    | Jan. 2, 1959       | 31                         | .625          | 218          | 114            | --          | --            | --                              | --                         | 1,054         | 355          | --                         | --        | --               | 2,217                               | --                                       | --    | 2,850          | 7.2                           | --                              | -- | -- |
|              |         | 596                                    | Mar. 1, 1959       | --                         | --            | 224          | --             | --          | --            | --                              | --                         | --            | 348          | --                         | --        | --               | --                                  | 349                                      | --    | --             | 7.5                           | --                              | -- | -- |
|              |         | 596                                    | May 1, 1959        | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | 345          | --                         | --        | --               | --                                  | 388                                      | --    | --             | 7.0                           | --                              | -- | -- |
|              |         | 596                                    | Aug. 13, 1959      | --                         | --            | 247          | 137            | --          | --            | --                              | --                         | --            | 331          | --                         | --        | --               | --                                  | 351                                      | --    | 2,600          | 7.8                           | --                              | -- | -- |
|              |         | 596                                    | Nov. 1, 1959       | 28                         | .08           | 232          | 146            | --          | --            | --                              | 1,060                      | 356           | --           | --                         | --        | 2,310            | 348                                 | --                                       | 7.7   | --             | --                            | --                              |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |    |
|--------------|---------------|--|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|----|----|
| JL-49-15-701 | Qta1 6        | 596                                    | Jan. 4, 1960       | 29                         | 0.02          | 224          | 146            | --          | --            | --                              | 1,060                      | --            | --           | --                         | --        | 2,310            | 340                                 | 2,750                                    | 7.8   | --             | --                            | --                              |    |    |    |
|              |               | 596                                    | Mar. 1, 1960       | 27                         | .04           | --           | 142            | --          | --            | --                              | 1,023                      | 362           | --           | --                         | --        | --               | 2,270                               | 374                                      | 2,750 | 7.6            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Feb. 15, 1964      | --                         | --            | 220          | --             | --          | --            | --                              | --                         | 353           | 220          | --                         | --        | --               | --                                  | 352                                      | 3,115 | 7.8            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Jan. 15, 1965      | --                         | --            | 182          | --             | --          | --            | --                              | --                         | 359           | --           | --                         | --        | --               | --                                  | 284                                      | 2,995 | 7.5            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Apr. 15, 1965      | --                         | --            | 228          | --             | --          | --            | --                              | --                         | 353           | --           | --                         | --        | --               | --                                  | 376                                      | --    | 7.7            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Aug. 15, 1965      | 27                         | --            | 232          | 140            | --          | --            | --                              | --                         | 850           | 362          | --                         | --        | --               | 2,208                               | 372                                      | 3,099 | 7.5            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Nov. 15, 1965      | --                         | --            | 222          | --             | --          | --            | --                              | --                         | --            | 376          | --                         | --        | --               | --                                  | 360                                      | 3,204 | 7.2            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Feb. 14, 1966      | --                         | --            | 210          | --             | --          | --            | --                              | --                         | --            | 366          | --                         | --        | --               | --                                  | 348                                      | 3,133 | 7.3            | --                            | --                              | -- |    |    |
|              |               | 596                                    | May 15, 1966       | --                         | --            | 232          | --             | --          | --            | --                              | --                         | --            | 348          | --                         | --        | --               | --                                  | 374                                      | 3,204 | 7.4            | --                            | --                              | -- |    |    |
|              |               | 596                                    | July 14, 1966      | --                         | --            | 224          | --             | --          | --            | --                              | --                         | --            | 369          | --                         | --        | --               | --                                  | 368                                      | 3,377 | 7.7            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Aug. 25, 1966      | 27                         | --            | 230          | 146            | --          | --            | --                              | --                         | 925           | 341          | --                         | --        | --               | 2,061                               | 376                                      | 2,618 | 7.3            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Nov. 18, 1966      | --                         | --            | 236          | --             | --          | --            | --                              | --                         | --            | 341          | --                         | --        | --               | --                                  | 380                                      | 3,000 | 7.6            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Feb. 15, 1967      | --                         | --            | 224          | --             | --          | --            | --                              | --                         | 925           | 345          | --                         | --        | --               | --                                  | 360                                      | 3,103 | 7.6            | --                            | --                              | -- |    |    |
|              |               | 596                                    | May 14, 1967       | 36                         | --            | 230          | --             | --          | --            | --                              | --                         | 925           | 352          | 1.15                       | --        | --               | --                                  | 372                                      | 2,951 | 7.2            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Aug. 15, 1967      | 34                         | --            | 234          | 140            | --          | --            | --                              | --                         | 1,038         | 359          | 1.15                       | --        | --               | 2,497                               | 374                                      | 3,147 | 7.9            | --                            | --                              | -- |    |    |
|              |               | 596                                    | May 15, 1968       | --                         | --            | 240          | --             | --          | --            | --                              | --                         | --            | 376          | --                         | --        | --               | 1,872                               | 360                                      | 3,129 | 7.1            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Feb. 14, 1969      | --                         | --            | 240          | --             | --          | --            | --                              | --                         | --            | 350          | --                         | --        | --               | --                                  | 372                                      | 2,931 | 7.7            | --                            | --                              | -- |    |    |
|              |               | 596                                    | May 15, 1969       | --                         | --            | 236          | --             | --          | --            | --                              | --                         | --            | 352          | --                         | --        | --               | --                                  | 360                                      | 2,931 | 7.9            | --                            | --                              | -- |    |    |
|              |               | 596                                    | Aug. 25, 1969      | 33                         | --            | 236          | 128            | --          | --            | --                              | --                         | --            | 900          | 359                        | .12       | --               | --                                  | 361                                      | 3,044 | 8.0            | --                            | --                              | -- |    |    |
|              |               | 702                                    | Qta1 6             | 638                        | Mar. 1, 1958  | 33           | 4.29           | 228         | 114           | --                              | --                         | --            | 985          | 423                        | --        | --               | --                                  | 2,210                                    | 342   | 2,780          | 7.9                           | --                              | -- | -- |    |
|              |               |  |                    | 638                        | May 1, 1958   | 33           | --             | --          | 114           | --                              | --                         | --            | --           | 437                        | --        | --               | --                                  | --                                       | --    | --             | 7.4                           | --                              | -- | -- |    |
|              |               |  |                    | 638                        | July 1, 1958  | --           | --             | 230         | 136           | --                              | --                         | --            | --           | 391                        | --        | --               | --                                  | --                                       | --    | --             | 7.5                           | --                              | -- | -- |    |
|              |               |  |                    | 638                        | Sept. 1, 1958 | 38           | --             | 256         | 104           | --                              | --                         | --            | --           | 1,170                      | 369       | --               | --                                  | --                                       | --    | 360            | --                            | 7.5                             | -- | -- | -- |
|              |               |  |                    | 638                        | Jan. 1, 1959  | 35           | 1.30           | 214         | 92            | --                              | --                         | --            | --           | 816                        | 490       | --               | --                                  | --                                       | 2,151 | 306            | 2,775                         | 7.7                             | -- | -- | -- |
|              |               |  |                    | 638                        | Mar. 1, 1959  | --           | --             | 232         | --            | --                              | --                         | --            | --           | --                         | 412       | --               | --                                  | --                                       | --    | 358            | --                            | 7.7                             | -- | -- | -- |
|              |               |  |                    | 638                        | May 1, 1959   | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | 366       | --               | --                                  | --                                       | --    | 398            | --                            | 7.1                             | -- | -- | -- |
| 638          | Nov. 1, 1959  |  |                    | --                         | --            | .05          | 282            | 130         | --            | --                              | --                         | 960           | 406          | --                         | --        | --               | 2,020                               | 365                                      | 2,705 | 7.8            | --                            | --                              | -- |    |    |
| 638          | May 1, 1960   |  |                    | 39                         | .04           | 240          | 124            | --          | --            | --                              | --                         | 900           | 440          | --                         | --        | --               | 2,200                               | 364                                      | 2,750 | 7.6            | --                            | --                              | -- |    |    |
| 638          | May 15, 1961  |  |                    | --                         | --            | 245          | 140            | --          | --            | --                              | --                         | --            | 373          | --                         | --        | --               | --                                  | 380                                      | 3,000 | --             | --                            | --                              | -- |    |    |
| 638          | Nov. 15, 1962 |  |                    | --                         | --            | 210          | 134            | --          | --            | --                              | --                         | --            | 487          | --                         | --        | --               | 1,950                               | 314                                      | 2,750 | 7.7            | --                            | --                              | -- |    |    |
| 638          | Mar. 11, 1963 |  |                    | --                         | --            | 234          | 155            | --          | --            | --                              | --                         | --            | 483          | --                         | --        | --               | --                                  | 370                                      | 2,827 | 7.6            | --                            | --                              | -- |    |    |
| 638          | Dec. 1, 1963  |  |                    | 33                         | --            | 233          | 112            | --          | --            | --                              | --                         | 1,000         | 440          | --                         | --        | --               | 2,224                               | 345                                      | 2,927 | 7.6            | --                            | --                              | -- |    |    |
| 638          | Feb. 15, 1964 |  |                    | --                         | --            | 204          | 84             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | --                                  | 288                                      | 2,930 | 7.3            | --                            | --                              | -- |    |    |
| 638          | Nov. 25, 1964 |  |                    | --                         | --            | 214          | --             | --          | --            | --                              | --                         | --            | 511          | --                         | --        | --               | --                                  | 310                                      | 3,055 | 7.2            | --                            | --                              | -- |    |    |
| 638          | Feb. 15, 1965 |  |                    | --                         | --            | 208          | --             | --          | --            | --                              | --                         | --            | 561          | --                         | --        | --               | --                                  | 298                                      | 2,985 | 7.5            | --                            | --                              | -- |    |    |
| 638          | Mar. 15, 1965 |  |                    | --                         | --            | 232          | --             | --          | --            | --                              | --                         | --            | 473          | --                         | --        | --               | --                                  | 324                                      | 3,133 | 7.5            | --                            | --                              | -- |    |    |
| 638          | Aug. 15, 1965 |  |                    | 30                         | --            | 238          | 138            | --          | --            | --                              | --                         | 875           | 373          | --                         | --        | --               | 1,977                               | 376                                      | 3,104 | 7.6            | --                            | --                              | -- |    |    |
| 638          | Nov. 15, 1965 |  |                    | --                         | --            | 228          | --             | --          | --            | --                              | --                         | --            | 369          | --                         | --        | --               | --                                  | 374                                      | 3,204 | 7.4            | --                            | --                              | -- |    |    |
| 638          | Feb. 14, 1966 |  |                    | --                         | --            | 202          | --             | --          | --            | --                              | --                         | --            | 533          | --                         | --        | --               | --                                  | 302                                      | 3,049 | 7.3            | --                            | --                              | -- |    |    |
| 638          | May 15, 1966  |  |                    | --                         | --            | 232          | --             | --          | --            | --                              | --                         | --            | 440          | --                         | --        | --               | --                                  | 346                                      | 3,091 | 7.3            | --                            | --                              | -- |    |    |
| 638          | July 14, 1966 |  |                    | --                         | --            | 232          | --             | --          | --            | --                              | --                         | --            | 369          | --                         | --        | --               | --                                  | 372                                      | 3,077 | 7.7            | --                            | --                              | -- |    |    |
| 638          | Aug. 15, 1966 |  |                    | --                         | --            | 230          | 104            | --          | --            | --                              | --                         | 700           | 444          | --                         | --        | --               | 1,626                               | 334                                      | 2,375 | 7.2            | --                            | --                              | -- |    |    |
| 638          | Nov. 18, 1966 |  |                    | --                         | --            | 216          | --             | --          | --            | --                              | --                         | --            | 458          | --                         | --        | --               | --                                  | 336                                      | 2,930 | 7.6            | --                            | --                              | -- |    |    |
| 638          | Feb. 15, 1967 |  |                    | --                         | --            | 206          | --             | --          | --            | --                              | --                         | --            | 529          | --                         | --        | --               | --                                  | 304                                      | 3,005 | 7.5            | --                            | --                              | -- |    |    |
| 638          | May 14, 1967  |  |                    | 37                         | --            | 226          | --             | --          | --            | --                              | --                         | 850           | 383          | 1.3                        | --        | --               | --                                  | 368                                      | 2,940 | 7.5            | --                            | --                              | -- |    |    |
| 638          | May 15, 1968  |  |                    | --                         | --            | 240          | --             | --          | --            | --                              | --                         | --            | 395          | --                         | --        | --               | --                                  | 360                                      | 3,080 | 7.5            | --                            | --                              | -- |    |    |
| 638          | Aug. 15, 1968 |  |                    | --                         | --            | 240          | 94             | --          | --            | --                              | --                         | 550           | 464          | 1.0                        | --        | --               | 1,691                               | 334                                      | 2,113 | 7.9            | --                            | --                              | -- |    |    |
| 638          | Nov. 14, 1968 |  |                    | --                         | --            | 230          | --             | --          | --            | --                              | --                         | --            | 413          | --                         | --        | --               | --                                  | 315                                      | 2,911 | 7.5            | --                            | --                              | -- |    |    |
| 638          | Feb. 14, 1969 |  |                    | --                         | --            | 240          | --             | --          | --            | --                              | --                         | --            | 426          | --                         | --        | --               | --                                  | 340                                      | 2,931 | 7.7            | --                            | --                              | -- |    |    |
| 638          | May 15, 1969  |  |                    | --                         | --            | 236          | --             | --          | --            | --                              | --                         | --            | 355          | --                         | --        | --               | --                                  | 360                                      | 2,931 | 7.5            | --                            | --                              | -- |    |    |
| 638          | June 1969     |  |                    | 33                         | .05           | 240          | 130            | --          | --            | --                              | --                         | 775           | 362          | 1.63                       | --        | --               | 1,901                               | 370                                      | 2,967 | 7.4            | --                            | --                              | -- |    |    |
| 638          | July 23, 1969 | 35                                     | --                 | 233                        | 128           | --           | --             | --          | --            | 950                             | 316                        | 1.4           | --           | --                         | 2,173     | 360              | 2,734                               | 7.7                                      | --    | --             | --                            |                                 |    |    |    |
| 638          | Aug. 15, 1969 | 35                                     | --                 | 242                        | 128           | --           | --             | --          | --            | 855                             | 369                        | .81           | --           | --                         | 2,013     | 370              | 2,844                               | 7.9                                      | --    | --             | --                            |                                 |    |    |    |
| 638          | Oct. 1, 1969  | --                                     | --                 | 240                        | --            | --           | --             | --          | --            | --                              | 369                        | --            | --           | --                         | --        | 360              | 3,032                               | 7.2                                      | --    | --             | --                            |                                 |    |    |    |
| 638          | May 15, 1971  | --                                     | --                 | 242                        | --            | --           | --             | --          | --            | --                              | 376                        | --            | --           | --                         | --        | 360              | 2,868                               | 7.5                                      | --    | --             | --                            |                                 |    |    |    |
| 802          | Qta1 6        | 640                                    | June 19, 1972      | 22                         | 0             | 16           | 12             | --          | --            | --                              | 102                        | 192           | 1.7          | --                         | --        | 657              | 28                                  | 1,035                                    | 8.5   | --             | --                            | --                              |    |    |    |
|              |               | 640                                    | July 14, 1972      | 22                         | 0             | 20           | 12             | --          | --            | --                              | 62                         | 160           | 1.9          | --                         | --        | 544              | 32                                  | 890                                      | 8.3   | --             | --                            | --                              |    |    |    |
|              |               | 640                                    | Aug. 5, 1972       | 29                         | .2            | 80           | 17             | --          | --            | --                              | --                         | 75            | 192          | 1.0                        | --        | --               | 844                                 | 97                                       | 1,065 | 7.4            | --                            | --                              | -- |    |    |
|              |               | 640                                    | Aug. 15, 1972      | 25                         | 0             | 18           | 8              | --          | --            | --                              | --                         | 60            | 128          | 1.65                       | --        | --               | 490                                 | 26                                       | 802   | 8.5            | --                            | --                              | -- |    |    |
|              |               | 640                                    | Feb. 28, 1973      | --                         | --            | 20           | --             | --          | --            | --                              | --                         | --            | 163          | --                         | --        | --               | --                                  | 36                                       | 870   | 8.1            | --                            | --                              | -- |    |    |
|              |               | 640                                    | May 15, 1973       | --                         | --            | 14           | --             | --          | --            | --                              | --                         | --            | 142          | --                         | --        | --               | --                                  | 24                                       | 786   | 7.8            | --                            | --                              | -- |    |    |
| 640          | Aug. 15, 1973 | 27                                     | .09                | 12                         | 16            | --           | --             | --          | --            | 79                              | 122                        | 1.72          | --           | --                         | 520       | 28               | 786                                 | 8.6                                      | --    | --             | --                            |                                 |    |    |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhmhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-----|----------------|-------------------------------|---------------------------------|----|
| JL-49-15-803 | Qtal 6        | 415                                    | July 3, 1968       | 17                         | --        | 47           | 8              | --          | --            | --                              | 135                        | 142           | 1.5          | --                         | --        | 635              | 55                                  | 1,092                                     | 8.1 | --             | --                            | --                              |    |
|              |               | 415                                    | July 25, 1968      | --                         | --        | 180          | 20             | --          | --            | --                              | 450                        | 183           | --           | --                         | --        | 1,616            | --                                  | 2,467                                     | 7.9 | --             | --                            | --                              |    |
|              |               | 415                                    | Aug. 12, 1968      | --                         | --        | 120          | 30             | --          | --            | --                              | 290                        | 469           | 1.1          | --                         | --        | 1,277            | 150                                 | 1,980                                     | 7.8 | --             | --                            | --                              |    |
|              |               | 415                                    | Sept. 30, 1968     | 23                         | 0.2       | 22           | 2              | --          | --            | --                              | 100                        | 54            | 1.97         | --                         | --        | 436              | 24                                  | 610                                       | 7.8 | --             | --                            | --                              |    |
|              |               | 415                                    | Oct. 1, 1968       | 20                         | --        | 20           | 2              | --          | --            | --                              | 98                         | 64            | 1.7          | --                         | --        | 482              | 22                                  | 616                                       | 7.8 | --             | --                            | --                              |    |
|              |               | 552                                    | Feb. 15, 1971      | --                         | --        | 18           | --             | --          | --            | --                              | --                         | 57            | --           | --                         | --        | --               | 18                                  | 606                                       | 8.1 | --             | --                            | --                              | -- |
|              |               | 552                                    | Aug. 14, 1971      | 18                         | .36       | 20           | 8              | --          | --            | --                              | --                         | 150           | 66           | 1.68                       | --        | --               | 547                                 | 28  | 685 | 8.5            | --                            | --                              | -- |
|              |               | 552                                    | Nov. 15, 1971      | --                         | --        | 12           | --             | --          | --            | --                              | --                         | --            | 57           | --                         | --        | --               | 20                                  | 755                                       | 8.5 | --             | --                            | --                              | -- |
|              |               | 552                                    | Mar. 1, 1972       | --                         | --        | 12           | --             | --          | --            | --                              | --                         | --            | 57           | --                         | --        | --               | 18                                  | 625                                       | 8.6 | --             | --                            | --                              | -- |
|              |               | 552                                    | May 15, 1972       | --                         | --        | 8            | --             | --          | --            | --                              | --                         | --            | 50           | --                         | --        | --               | 18                                  | 600                                       | 8.7 | --             | --                            | --                              | -- |
|              |               | 552                                    | Aug. 17, 1972      | 19                         | .2        | 12           | 8              | --          | --            | --                              | --                         | 73            | 56           | 1.42                       | --        | --               | 401                                 | 20  | 620 | 8.7            | --                            | --                              | -- |
|              |               | 552                                    | Nov. 15, 1972      | --                         | --        | 12           | --             | --          | --            | --                              | --                         | --            | 54           | --                         | --        | --               | 18                                  | 625                                       | 8.6 | --             | --                            | --                              | -- |
| 901          | Qtal 6        | 440                                    | Aug. 20, 1935      | --                         | --        | --           | --             | --          | --            | 141                             | 44                         | --            | --           | --                         | --        | 5                | --                                  | --  | --  | --             | --                            | --                              |    |
|              |               | 440                                    | Apr. 10, 1936      | --                         | .40       | 7.5          | 2.3            | 74          | --            | 60                              | 80                         | 40            | --           | 1.0                        | --        | 234              | 28                                  | --  | --  | --             | --                            | --                              |    |
|              |               | 440                                    | Mar. 18, 1954      | 19                         | .88       | 4.6          | 1.5            | 128         | --            | 146                             | 77                         | 60            | 1.8          | 3.5                        | --        | 372              | 18                                  | 633                                       | 8.2 | 94             | --                            | --                              |    |
| 21-101       | Qal Rg        | 52                                     | Sept. 14, 1967     | 23                         | --        | 94           | 20             | 189         | 8.6           | 332                             | 268                        | 141           | .8           | .2                         | --        | 908              | 317                                 | 1,410                                     | 7.7 | 56             | 4.6                           | 0                               |    |
|              |               | 52                                     | Sept. 18, 1967     | --                         | --        | 96           | 17             | --          | --            | --                              | 259                        | 145           | .03          | --                         | --        | 903              | 308                                 | --  | 7.9 | --             | --                            | --                              |    |
|              |               | 52                                     | Sept. 19, 1967     | --                         | .01       | 100          | 15             | --          | --            | --                              | 265                        | 148           | .04          | --                         | --        | 935              | 310                                 | --  | 8.1 | --             | --                            | --                              |    |
| 102          | Qal Rg        | 52                                     | July 21, 1967      | --                         | --        | --           | --             | --          | --            | 252                             | 660                        | 450           | --           | --                         | --        | 785              | 2,830                               | 7.6                                       | --  | --             | 0                             |                                 |    |
| 103          | Qtal 6        | 398                                    | Aug. 23, 1935      | --                         | --        | --           | --             | --          | --            | 145                             | --                         | 64            | --           | --                         | --        | 189              | --                                  | --  | --  | --             | --                            |                                 |    |
| 301          | Qtal 6        | 248-268                                | July 11, 1957      | --                         | --        | 158          | 48             | --          | --            | --                              | 382                        | 1,160         | 1.6          | --                         | --        | 2,640            | 592                                 | --  | 8.0 | --             | --                            | --                              |    |
|              |               | 383-403                                | do                 | --                         | --        | 52           | 17             | --          | --            | --                              | 92                         | 304           | 1.4          | --                         | --        | 760              | 202                                 | --  | 8.0 | --             | --                            | --                              |    |
|              |               | 480-500                                | July 12, 1957      | --                         | --        | 22           | 17             | --          | --            | --                              | 84                         | 125           | 1.5          | --                         | --        | 503              | 92                                  | --  | 8.2 | --             | --                            | --                              |    |
|              |               | 571-591                                | do                 | --                         | --        | 20           | 11             | --          | --            | --                              | 72                         | 163           | 1.6          | --                         | --        | 526              | 76                                  | --  | 8.3 | --             | --                            | --                              |    |
|              |               | 649-669                                | July 13, 1957      | --                         | --        | 21           | 1              | --          | --            | --                              | 68                         | 165           | 1.5          | --                         | --        | 536              | 58                                  | --  | 8.2 | --             | --                            | --                              |    |
|              |               | 767-787                                | do                 | --                         | --        | 63           | 8              | --          | --            | --                              | 104                        | 514           | 1.6          | --                         | --        | 1,100            | 190                                 | --  | 8.1 | --             | --                            | --                              |    |
|              |               | 692                                    | Oct. 13, 1958      | --                         | .02       | 25           | 9              | --          | --            | --                              | 54                         | 160           | .7           | --                         | --        | 545              | 98                                  | --  | 8.2 | --             | --                            | --                              |    |
|              |               | 692                                    | Dec. 12, 1959      | --                         | .02       | 32           | 10             | --          | --            | --                              | 74                         | 115           | 1.0          | --                         | --        | 547              | 122                                 | --  | 7.9 | --             | --                            | --                              |    |
|              |               | 692                                    | Sept. 13, 1960     | --                         | .02       | 28           | 6              | --          | --            | --                              | 74                         | 160           | --           | --                         | --        | 536              | 94                                  | --  | 8.2 | --             | --                            | --                              |    |
|              |               | 692                                    | Apr. 23, 1961      | --                         | .02       | 30           | 9              | --          | --            | --                              | 84                         | 120           | 1.0          | --                         | --        | 535              | 108                                 | --  | 8.1 | --             | --                            | --                              |    |
|              |               | 692                                    | July 23, 1962      | --                         | .02       | 25           | 10             | --          | --            | --                              | 80                         | 190           | .7           | --                         | --        | 544              | 104                                 | --  | 8.3 | --             | --                            | --                              |    |
|              |               | 692                                    | May 15, 1964       | --                         | .03       | 26           | 8              | --          | --            | --                              | 83                         | 175           | .6           | --                         | --        | 483              | 98                                  | --  | 8.3 | --             | --                            | --                              |    |
|              |               | 692                                    | July 27, 1965      | --                         | .03       | 26           | 7              | --          | --            | --                              | 70                         | 175           | .7           | --                         | --        | 472              | 94                                  | --  | 8.2 | --             | --                            | --                              |    |
|              |               | 692                                    | Aug. 1, 1966       | --                         | .06       | 26           | 7.1            | 153         | 5.3           | 161                             | 68                         | 165           | .9           | 0                          | 0.05      | 535              | 95                                  | 942                                       | 7.7 | 77             | 6.8                           | .74                             |    |
|              |               | 692                                    | Feb. 4, 1967       | --                         | .03       | 66           | 13             | --          | --            | --                              | 91                         | 285           | .6           | --                         | --        | 728              | 216                                 | --  | --  | --             | --                            | --                              | -- |
| 692          | Jan. 22, 1969 | --                                     | --                 | 38                         | 17        | 178          | --             | --          | 90            | 235                             | .5                         | --            | --           | 713                        | 168       | --               | 8.0                                 | --  | --  | --             | --                            |                                 |    |
| 692          | July 2, 1969  | --                                     | .01                | 26                         | 10        | 155          | --             | --          | 78            | 160                             | .6                         | --            | --           | 595                        | 105       | --               | 8.4                                 | --  | --  | --             | --                            |                                 |    |
| 692          | July 13, 1972 | --                                     | .01                | 38                         | 12        | 167          | --             | --          | 71            | 217                             | .8                         | --            | --           | 650                        | 146       | --               | 8.1                                 | 77  | --  | --             | --                            |                                 |    |
| 305          | Qtal 6        | 283-303                                | Oct. 10, 1956      | --                         | --        | --           | --             | --          | --            | 121                             | --                         | 980           | --           | --                         | --        | 800              | 3,350                               | 7.9                                       | --  | --             | --                            |                                 |    |
|              |               | 372-392                                | do                 | --                         | --        | --           | --             | --          | --            | 151                             | --                         | 239           | --           | --                         | --        | 131              | 1,110                               | 8.2                                       | --  | --             | --                            | --                              |    |
|              |               | 494-514                                | Oct. 11, 1956      | --                         | --        | --           | --             | --          | --            | 157                             | --                         | 178           | --           | --                         | --        | 78               | 940                                 | 8.0                                       | --  | --             | --                            | --                              |    |
|              |               | 555-575                                | do                 | --                         | --        | --           | --             | --          | --            | 98                              | --                         | 362           | --           | --                         | --        | 162              | 1,410                               | 7.9                                       | --  | --             | --                            | --                              |    |
|              |               | 656-676                                | Oct. 12, 1956      | --                         | --        | --           | --             | --          | --            | 73                              | --                         | 580           | --           | --                         | --        | 252              | 2,130                               | 7.8                                       | --  | --             | --                            | --                              |    |
| 306          | Qal Rg        | 52                                     | July 20, 1967      | --                         | --        | --           | --             | --          | 368           | 202                             | 166                        | --            | --           | --                         | 352       | 1,450            | 7.7                                 | --  | --  | --             | 0                             |                                 |    |
| 22-102       | Qtal 6        | 210-230                                | Dec. 3, 1956       | 30                         | --        | 14           | 2.9            | 112         | --            | 162                             | 62                         | 64            | .6           | 2.5                        | --        | 368              | 47                                  | 592                                       | 8.2 | 84             | --                            | --                              |    |
|              |               | 280-300                                | Dec. 4, 1956       | 30                         | --        | 11           | 3.3            | 161         | --            | 143                             | 72                         | 140           | 1.0          | 0                          | --        | 488              | 41                                  | 614                                       | 8.1 | 90             | --                            | --                              |    |
|              |               | 394-414                                | do                 | 36                         | --        | --           | 14             | 460         | --            | 109                             | 149                        | 775           | 1.0          | 1.5                        | --        | 1,550            | 202                                 | 2,850                                     | 7.9 | 83             | --                            | --                              |    |
|              |               | 475-495                                | Dec. 3, 1956       | 30                         | --        | 58           | 34             | 1,290       | --            | 84                              | 1,290                      | 1,360         | .6           | 2.0                        | --        | 4,200            | 524                                 | 4,700                                     | 7.8 | 84             | --                            | --                              |    |
|              |               | 551-571                                | Dec. 6, 1956       | --                         | --        | --           | --             | --          | --            | 33                              | --                         | 1,420         | --           | --                         | --        | 550              | 4,630                               | 7.3                                       | --  | --             | --                            | --                              |    |
|              |               | 323                                    | Jan. 3, 1957       | --                         | --        | --           | --             | --          | --            | 153                             | --                         | 106           | --           | --                         | --        | 49               | 733                                 | --  | 8.1 | --             | --                            | --                              |    |
|              |               | 323                                    | do                 | 18                         | --        | .05          | 14             | 4.1         | 138           | --                              | 164                        | 68            | 104          | --                         | --        | 525              | 52                                  | --  | 8.2 | --             | --                            | --                              |    |
|              |               | 323                                    | Nov. 5, 1958       | --                         | .02       | 21           | 6              | --          | --            | --                              | 56                         | 149           | 1.1          | --                         | --        | 471              | 78                                  | --  | 8.1 | --             | --                            | --                              |    |
|              |               | 323                                    | Dec. 12, 1959      | --                         | .02       | 25           | 7              | --          | --            | --                              | 76                         | 183           | 1.2          | --                         | --        | 566              | 90                                  | --  | 7.8 | --             | --                            | --                              |    |
|              |               | 323                                    | Sept. 13, 1960     | --                         | .02       | 18           | 4              | --          | --            | --                              | 83                         | 157           | 1.3          | --                         | --        | 523              | 60                                  | --  | 8.5 | --             | --                            | --                              |    |
|              |               | 323                                    | Apr. 23, 1961      | --                         | .02       | 25           | 8              | --          | --            | --                              | 80                         | 165           | 1.1          | --                         | --        | 544              | 91                                  | --  | 8.3 | --             | --                            | --                              |    |
|              |               | 323                                    | Mar. 27, 1962      | --                         | .04       | 24           | 9              | --          | --            | --                              | 96                         | 135           | 1.2          | --                         | --        | 569              | 92                                  | --  | 8.2 | --             | --                            | --                              |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer        | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|----------------|--|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|----|
| JL-49-22-102 | Qtal 6         | 323                                    | Jan. 11, 1963      | --                         | 0.002         | 25           | 5              | --          | --            | --                              | 104                        | 140           | 0.8          | --                         | --        | 607              | 82                                  | --                                       | 8.3 | --             | --                            | --                              |    |
|              |                | 323                                    | June 14, 1964      | --                         | .03           | 28           | 7              | --          | --            | --                              | 97                         | 135           | .7           | --                         | --        | 657              | 99                                  | --                                       | 8.2 | --             | --                            | --                              |    |
|              |                | 323                                    | July 27, 1965      | --                         | .03           | 22           | 7              | --          | --            | --                              | 65                         | 135           | 1.0          | --                         | --        | 567              | 84                                  | --                                       | 8.2 | --             | --                            | --                              |    |
|              |                | 323                                    | June 22, 1966      | --                         | .03           | 20           | 10             | --          | --            | --                              | 80                         | 140           | .8           | --                         | --        | 588              | 90                                  | --                                       | 8.3 | --             | --                            | --                              |    |
|              |                | 323                                    | Aug. 1, 1966       | 29                         | .45           | 21           | 6.3            | 178         | 6.6           | 145                             | 77                         | 198           | .9           | 1.8                        | 0.09      | 591              | 80                                  | 1,050                                    | 7.6 | --             | --                            | --                              |    |
|              |                | 323                                    | Aug. 10, 1967      | --                         | .02           | 26           | 4              | --          | --            | --                              | 104                        | 215           | 1.2          | --                         | --        | 644              | 81                                  | --                                       | 8.3 | --             | --                            | --                              |    |
|              |                | 323                                    | Jan. 22, 1969      | --                         | --            | 20           | 6              | 195         | --            | --                              | 83                         | 215           | .8           | --                         | --        | 653              | 76                                  | --                                       | 8.3 | --             | --                            | --                              |    |
|              |                | 323                                    | July 2, 1969       | --                         | .01           | 22           | 7              | 184         | --            | --                              | 82                         | 195           | .7           | --                         | --        | 640              | 83                                  | --                                       | 8.3 | --             | --                            | --                              |    |
|              |                | 323                                    | July 9, 1971       | --                         | --            | .03          | 23             | 3           | 148           | --                              | --                         | 70            | 145          | .9                         | --        | --               | 458                                 | 69                                       | --  | 8.2            | 85                            | --                              | -- |
|              |                | 323                                    | July 27, 1972      | --                         | --            | .01          | 21             | 7           | 171           | --                              | --                         | 84            | 176          | .8                         | --        | --               | 558                                 | 80                                       | --  | 7.9            | 86                            | --                              | -- |
|              |                | 323                                    | June 27, 1973      | --                         | --            | .02          | 26             | 7.2         | 107           | --                              | --                         | 86            | 64           | .5                         | --        | --               | 422                                 | 96                                       | 868 | 8.3            | 76                            | --                              | -- |
|              |                | 103                                    | Qtal 6             | 230-308                    | Feb. 18, 1947 | --           | --             | --          | --            | --                              | --                         | --            | --           | 71                         | --        | --               | --                                  | 444                                      | 127 | --             | --                            | --                              | -- |
| 310-382      | Feb. 19, 1947  |  |                    | --                         | --            | --           | --             | --          | --            | --                              | --                         | 184           | --           | --                         | --        | --               | 323                                 | 137                                      | --  | --             | --                            | --                              | -- |
| 230-382      | Mar. 3, 1947   |  |                    | 11                         | --            | --           | --             | --          | --            | --                              | --                         | 170           | --           | --                         | --        | --               | 577                                 | 120                                      | --  | --             | --                            | --                              | -- |
| 386          | June 8, 1948   |  |                    | 34                         | --            | 15           | 5.4            | 191         | --            | 168                             | 84                         | 177           | --           | .8                         | --        | 593              | 60                                  | 987                                      | --  | 87             | --                            | --                              | -- |
| 386          | Nov. 9, 1950   |  |                    | 27                         | --            | 21           | 5.9            | 210         | --            | 135                             | 98                         | 228           | --           | 0                          | --        | 656              | 77                                  | 1,130                                    | 7.8 | 86             | --                            | --                              | -- |
| 386          | Oct. 13, 1954  |  |                    | --                         | --            | 20           | 9              | 216         | --            | --                              | 96                         | 241           | 1.0          | --                         | --        | 700              | 86                                  | --                                       | 8.4 | --             | --                            | --                              | -- |
| 386          | July 13, 1956  |  |                    | --                         | --            | --           | --             | --          | --            | 128                             | --                         | 295           | --           | --                         | --        | --               | 88                                  | 1,380                                    | 7.9 | --             | --                            | --                              | -- |
| 386          | Nov. 7, 1956   |  |                    | 30                         | --            | 28           | 6              | 242         | --            | 127                             | 100                        | 290           | 1.0          | .5                         | --        | 760              | 94                                  | 1,360                                    | 8.0 | 85             | --                            | --                              | -- |
| 386          | Nov. 5, 1958   |  |                    | --                         | --            | 28           | 4              | --          | --            | --                              | 72                         | 216           | 1.1          | --                         | --        | 783              | 86                                  | --                                       | 7.9 | --             | --                            | --                              | -- |
| 386          | Sept. 13, 1960 |  |                    | --                         | --            | 24           | 0              | --          | --            | --                              | 93                         | 312           | 1.0          | --                         | --        | 793              | 86                                  | --                                       | 8.3 | --             | --                            | --                              | -- |
| 386          | July 27, 1965  |  |                    | --                         | --            | 26           | 3              | --          | --            | --                              | 98                         | 305           | .9           | --                         | --        | 763              | 77                                  | --                                       | 7.9 | --             | --                            | --                              | -- |
| 386          | Sept. 9, 1969  |  |                    | --                         | --            | 20           | 4              | 199         | --            | --                              | 86                         | 165           | .9           | --                         | --        | 690              | 66                                  | --                                       | 8.3 | 89             | --                            | --                              | -- |
| 386          | Sept. 10, 1969 |  |                    | --                         | --            | 18           | 4              | 185         | --            | --                              | 88                         | 185           | 1.0          | --                         | --        | 615              | 64                                  | --                                       | 8.3 | 89             | --                            | --                              | -- |
| 386          | Oct. 10, 1969  |  |                    | --                         | --            | 36           | 5.3            | 262         | --            | --                              | 115                        | 325           | .8           | --                         | --        | 870              | 112                                 | --                                       | 8.1 | --             | --                            | --                              | -- |
| 386          | July 22, 1970  | --                                     | --                 | 34                         | 6             | 254          | --             | --          | 106           | 320                             | .8                         | --            | --           | 747                        | 110       | --               | 8.2                                 | 86                                       | --  | --             | --                            |                                 |    |
| 104          | Qal Rg         | 153-173                                | Aug. 1, 1955       | --                         | --            | 29           | 8              | 130         | --            | --                              | 84                         | 133           | .6           | --                         | --        | 486              | 106                                 | --                                       | 8.5 | --             | --                            | --                              |    |
|              | Qtal 6         | 223-243                                | Aug. 2, 1955       | --                         | --            | 34           | 8              | 154         | --            | --                              | 66                         | 200           | .4           | --                         | --        | 548              | 118                                 | --                                       | 8.1 | --             | --                            | --                              |    |
|              |                | 285-310                                | Aug. 3, 1955       | --                         | --            | 37           | 8              | 163         | --            | --                              | 60                         | 234           | .4           | --                         | --        | 609              | 125                                 | --                                       | 8.4 | --             | --                            | --                              |    |
|              |                | 370-395                                | do                 | --                         | --            | 73           | 12             | 250         | --            | --                              | 46                         | 473           | .4           | --                         | --        | 1,130            | 231                                 | --                                       | 8.3 | --             | --                            | --                              |    |
|              |                | 475-500                                | Aug. 5, 1955       | --                         | --            | 182          | 26             | 487         | --            | --                              | 84                         | 1,100         | .4           | --                         | --        | 2,330            | 563                                 | --                                       | 8.3 | --             | --                            | --                              |    |
| 106          | Qal Rg         | 50                                     | Apr. 25, 1968      | --                         | --            | 78           | 17             | --          | --            | 242                             | 238                        | 124           | --           | --                         | --        | 264              | 1,270                               | 7.3                                      | --  | --             | 0                             |                                 |    |
| 112          | Qal Rg         | 115                                    | July 31, 1956      | --                         | --            | --           | --             | --          | --            | 432                             | --                         | 358           | --           | --                         | --        | 715              | 2,730                               | 7.7                                      | --  | --             | --                            |                                 |    |
| 114          | Qtal 6         | 300                                    | Aug. 28, 1956      | --                         | --            | --           | --             | --          | --            | 214                             | --                         | 505           | --           | --                         | --        | 444              | 2,090                               | 7.6                                      | --  | --             | --                            |                                 |    |
| 116          | Qal Rg         | 151                                    | July 2, 1956       | 34                         | --            | 161          | 35             | 270         | --            | 286                             | 448                        | 305           | --           | 2.5                        | --        | 1,400            | 546                                 | 2,160                                    | 7.7 | 52             | --                            | --                              |    |
| 118          | Qal Rg         | 100                                    | Aug. 7, 1956       | 36                         | --            | 163          | 31             | 364         | --            | 356                             | 591                        | 288           | .8           | 1.5                        | --        | 1,650            | 534                                 | --                                       | --  | 58             | --                            | --                              |    |
| 122          | Qtal 6         | 278-303                                | Nov. 11, 1971      | --                         | .1            | 47           | 6              | 194         | --            | --                              | 75                         | 284           | .4           | --                         | --        | 659              | 144                                 | --                                       | 8.2 | 79             | --                            | --                              |    |
|              |                | 553-578                                | Nov. 15, 1971      | --                         | .03           | 324          | 20             | 635         | --            | --                              | 123                        | 1,500         | .4           | --                         | --        | 2,619            | 892                                 | --                                       | 7.3 | 63             | --                            | --                              |    |
|              |                | 360                                    | Dec. 6, 1971       | --                         | .12           | 77           | 10             | 239         | --            | --                              | 121                        | 385           | .4           | --                         | --        | 883              | 232                                 | --                                       | 8.4 | 73             | --                            | --                              |    |
|              |                | 360                                    | Dec. 7, 1971       | --                         | .06           | 84           | 6              | 245         | --            | --                              | 123                        | 376           | .5           | --                         | --        | 900              | 234                                 | --                                       | 8.2 | 73             | --                            | --                              |    |
|              |                | 360                                    | Dec. 8, 1971       | --                         | .03           | 75           | 14             | 239         | --            | --                              | 129                        | 380           | .6           | --                         | --        | 894              | 246                                 | --                                       | 8.0 | 73             | --                            | --                              |    |
|              |                | 360                                    | May 27, 1972       | --                         | .24           | 104          | 23             | 252         | --            | --                              | 265                        | 355           | .3           | --                         | --        | 1,201            | 354                                 | --                                       | 8.2 | 67             | --                            | --                              |    |
|              |                | 360                                    | July 27, 1972      | --                         | .22           | 102          | 30             | 250         | --            | --                              | 265                        | 362           | .4           | --                         | --        | 1,237            | 380                                 | --                                       | 7.7 | 65             | --                            | --                              |    |
| 201          | Qtal 6         | 219                                    | Nov. 9, 1950       | 28                         | .13           | 40           | 9.8            | 200         | --            | 130                             | 84                         | 269           | --           | 1.0                        | --        | 704              | 140                                 | 1,220                                    | 7.8 | 76             | --                            | --                              |    |
|              |                | 219                                    | Oct. 13, 1954      | --                         | --            | 37           | 16             | 173         | --            | --                              | 84                         | 233           | .6           | --                         | --        | 697              | 158                                 | --                                       | 8.1 | --             | --                            | --                              |    |
|              |                | 219                                    | July 13, 1956      | --                         | --            | --           | --             | --          | --            | --                              | 156                        | --            | 195          | --                         | --        | --               | 139                                 | 1,080                                    | 7.8 | --             | --                            | --                              |    |
| 205          | Qal Rg         | 87                                     | July 27, 1956      | --                         | --            | --           | --             | --          | --            | 298                             | --                         | 358           | --           | --                         | --        | 470              | 2,230                               | 8.1                                      | --  | --             | --                            |                                 |    |
| 206          | Qal Rg         | 98-121                                 | July 11, 1955      | --                         | --            | 46           | 15             | 194         | --            | --                              | 130                        | 249           | .5           | --                         | --        | 778              | 178                                 | --                                       | 8.2 | --             | --                            | --                              |    |
|              |                | 140-163                                | do                 | --                         | --            | 18           | 12             | 260         | --            | --                              | 140                        | 297           | .7           | --                         | --        | 849              | 155                                 | --                                       | 8.3 | --             | --                            | --                              |    |
|              | Qtal 6         | 200-223                                | July 13, 1955      | --                         | --            | 37           | 16             | 342         | --            | --                              | 200                        | 419           | .8           | --                         | --        | 1,120            | 155                                 | --                                       | 8.4 | --             | --                            | --                              |    |
|              |                | 272-295                                | do                 | --                         | --            | 63           | 13             | 559         | --            | --                              | 280                        | 728           | 1.0          | --                         | --        | 1,780            | 211                                 | --                                       | 8.5 | --             | --                            | --                              |    |
| 695-718      | Aug. 8, 1955   | --                                     | --                 | 426                        | --            | 1,570        | --             | --          | 208           | 3,680                           | --                         | --            | --           | 7,700                      | 2,050     | --               | 8.3                                 | --                                       | --  | --             |                               |                                 |    |
| 207          | --             | --                                     | Mar. 11, 1956      | 35                         | --            | 115          | 37             | 391         | 13            | 207                             | 393                        | 518           | .7           | 2.0                        | .25       | 1,610            | 439                                 | 2,680                                    | 7.6 | 65             | --                            | --                              |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)    | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------|--|--------------------|----------------------------|--------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|
| JL-49-22-401 | Qtal 6  | 314-334                                | Apr. 25, 1957      | 30                         | --           | 29           | 4.5            | 241         | --            | 120                             | 153                        | 250           | 1.0          | 0.2                        | --        | 768              | 90                                  | 1,310                                    | 8.1   | 85             | --                            | --                              |    |
|              |         | 504-524                                | Apr. 26, 1957      | 20                         | --           | 378          | 43             | 1,090       | --            | 31                              | 190                        | 2,320         | .4           | --                         | --        | 4,060            | 1,120                               | 7,270                                    | 7.4   | 68             | --                            | --                              |    |
|              |         | 854-874                                | do                 | --                         | --           | --           | --             | 4,780       | --            | 27                              | 423                        | 11,700        | --           | --                         | --        | --               | 6,720                               | 29,200                                   | 6.8   | 61             | --                            | --                              |    |
|              |         | 1,179-1,199                            | Apr. 27, 1957      | --                         | --           | --           | --             | 8,490       | --            | 25                              | 1,270                      | 21,600        | --           | --                         | --        | --               | 13,400                              | 48,300                                   | 7.5   | 58             | --                            | --                              |    |
|              |         | 1,479-1,499                            | Apr. 28, 1957      | --                         | --           | --           | --             | 11,700      | --            | 23                              | 1,690                      | 26,200        | --           | --                         | --        | --               | 13,700                              | 56,300                                   | 7.0   | 65             | --                            | --                              |    |
|              | Qal Rg  | 103                                    | Sept. 24, 1957     | 30                         | --           | 85           | 25             | 200         | 7.6           | 274                             | 193                        | .4            | --           | 0.16                       | 936       | 315              | 1,500                               | 7.7                                      | 57    | --             | --                            |                                 |    |
| 402          | Qal Rg  | 98                                     | Sept. 5, 1956      | --                         | --           | --           | --             | --          | --            | 334                             | 323                        | 320           | --           | --                         | --        | --               | 490                                 | 2,000                                    | 7.6   | --             | --                            | --                              |    |
| 403          | Qal Rg  | 100                                    | Sept. 27, 1948     | 28                         | --           | 200          | 72             | 459         | --            | 188                             | 319                        | 925           | --           | 2.8                        | --        | 2,100            | 795                                 | 3,670                                    | --    | --             | --                            | --                              |    |
| 404          | Qal Rg  | 90                                     | Apr. 2, 1951       | 35                         | --           | 163          | 51             | 292         | --            | 275                             | 336                        | 492           | --           | 1.5                        | --        | 1,510            | 616                                 | 2,490                                    | 8.1   | 51             | --                            | --                              |    |
| 405          | Qal Rg  | 90                                     | July 27, 1956      | --                         | --           | --           | --             | --          | --            | 271                             | --                         | 332           | --           | --                         | --        | --               | 435                                 | 1,920                                    | 8.2   | --             | --                            | --                              |    |
| 407          | Qal Rg  | 40-90                                  | Feb. 5, 1977       | 30                         | --           | 67           | 14             | 172         | 10            | 254                             | 244                        | 120           | .5           | .4                         | --        | 780              | 225                                 | 1,170                                    | 8.1   | --             | --                            | --                              |    |
|              |         | 40-60                                  | do                 | --                         | D.15         | 72           | 12             | 177         | --            | --                              | 242                        | 110           | .45          | --                         | --        | --               | 863                                 | 228                                      | 1,100 | 8.3            | 68                            | --                              | -- |
|              |         | 120-140                                | do                 | --                         | --           | 52           | 18             | 250         | --            | 294                             | 274                        | 175           | .5           | .4                         | --        | --               | 950                                 | 206                                      | 1,460 | 8.3            | --                            | --                              | -- |
|              |         | 120-140                                | do                 | --                         | .15          | 60           | 19             | 248         | --            | --                              | 280                        | 165           | .5           | --                         | --        | --               | 1,067                               | 230                                      | 1,400 | 8.5            | 76                            | --                              | -- |
|              |         | 170-190                                | do                 | --                         | --           | 289          | 103            | 540         | --            | 139                             | 312                        | 1,380         | .4           | .4                         | --        | --               | 2,720                               | 1,140                                    | 4,270 | 7.9            | --                            | --                              | -- |
|              |         | 170-190                                | do                 | --                         | .15          | 292          | 104            | 538         | --            | --                              | 360                        | 1,300         | .35          | --                         | --        | --               | 2,738                               | 1,160                                    | 4,000 | 8.1            | 58                            | --                              | -- |
|              |         | 270-290                                | do                 | --                         | --           | 246          | 74             | 398         | --            | 96                              | 196                        | 1,090         | .3           | .4                         | --        | --               | 2,080                               | 920                                      | 3,450 | 7.9            | --                            | --                              | -- |
|              |         | 270-290                                | do                 | --                         | .15          | 232          | 85             | 579         | --            | --                              | 230                        | 1,325         | .34          | --                         | --        | --               | 2,551                               | 930                                      | 3,500 | 8.0            | 65                            | --                              | -- |
|              |         | 380-400                                | do                 | --                         | --           | 15           | 3              | 161         | --            | 154                             | 96                         | 84            | .9           | .4                         | --        | --               | 445                                 | 50                                       | 760   | 8.5            | --                            | --                              | -- |
|              |         | 380-400                                | do                 | --                         | .15          | 15           | 3.4            | 135         | --            | --                              | 97                         | 80            | .88          | --                         | --        | --               | 487                                 | 52                                       | 700   | 8.4            | 88                            | --                              | -- |
|              |         | 480-500                                | do                 | --                         | --           | 18           | 2              | 174         | --            | 143                             | 142                        | 120           | 1.0          | .4                         | --        | --               | 560                                 | 53                                       | 877   | 8.3            | --                            | --                              | -- |
|              |         | 480-500                                | do                 | --                         | --           | .15          | 17             | 2.9         | 167           | --                              | --                         | 137           | 105          | 1.0                        | --        | --               | 578                                 | 54                                       | 900   | 8.4            | 89                            | --                              | -- |
|              |         | 501                                    | Qal Rg             | 50                         | Apr. 2, 1968 | --           | --             | 188         | 59            | --                              | --                         | 304           | 836          | 378                        | --        | --               | --                                  | --                                       | 712   | 3,030          | 7.5                           | --                              | -- |
| 502          | Qal Rg  | 50                                     | Apr. 22, 1968      | --                         | --           | 187          | 58             | --          | --            | 452                             | 1,080                      | 720           | --           | --                         | --        | --               | 705                                 | 4,570                                    | 7.6   | --             | --                            | --                              |    |
| 506          | Qal Rg  | 128                                    | July 13, 1956      | --                         | --           | --           | --             | --          | --            | 326                             | --                         | 235           | --           | --                         | --        | --               | 530                                 | 1,970                                    | 7.7   | --             | --                            | --                              |    |
|              |         | 128                                    | July 12, 1972      | 36                         | --           | 236          | 46             | 275         | --            | 417                             | 620                        | 275           | 1.0          | .4                         | --        | 1,690            | 770                                 | 2,220                                    | 7.5   | --             | --                            | --                              |    |
| 509          | Qal Rg  | 67                                     | Sept. 4, 1956      | --                         | --           | --           | --             | --          | --            | 425                             | 625                        | 270           | --           | --                         | --        | --               | 615                                 | 2,510                                    | 7.7   | --             | --                            | --                              |    |
| 512          | Qal Rg  | 160                                    | Mar. 28, 1951      | 29                         | --           | 78           | 34             | 295         | --            | 182                             | 238                        | 414           | .8           | 2.5                        | .29       | 1,180            | 334                                 | 2,020                                    | 7.9   | --             | --                            | --                              |    |
| 514          | Qal Rg  | 138                                    | Sept. 4, 1956      | --                         | --           | --           | --             | --          | --            | 270                             | --                         | 610           | --           | --                         | --        | --               | 640                                 | 3,050                                    | 7.6   | --             | --                            | --                              |    |
| 522          | Qal Rg  | 90                                     | Sept. 5, 1956      | --                         | --           | --           | --             | --          | --            | 295                             | 370                        | 190           | --           | --                         | --        | --               | 410                                 | 1,710                                    | 7.8   | --             | --                            | --                              |    |
| 528          | Qal Rg  | 120                                    | July 27, 1956      | --                         | --           | --           | --             | --          | --            | 373                             | --                         | 265           | --           | --                         | --        | --               | 562                                 | 2,240                                    | 8.1   | --             | --                            | --                              |    |
| 530          | Qal Rg  | 93                                     | Jan. 17, 1976      | 11                         | --           | 109          | 37             | 347         | --            | 397                             | 444                        | 298           | 1.1          | .4                         | --        | 1,440            | 426                                 | 2,290                                    | 7.9   | --             | --                            | --                              |    |
| 541          | Qal Rg  | 100                                    | July 13, 1956      | --                         | --           | --           | --             | --          | --            | 328                             | --                         | 265           | --           | --                         | --        | --               | 553                                 | 2,060                                    | 7.6   | --             | --                            | --                              |    |
|              |         | 100                                    | Aug. 24, 1972      | --                         | --           | --           | --             | --          | --            | 340                             | 460                        | 300           | --           | --                         | --        | --               | 640                                 | 2,210                                    | 7.9   | --             | --                            | --                              |    |
| 545          | Qal Rg  | 137                                    | Aug. 7, 1956       | --                         | --           | --           | --             | --          | --            | 319                             | --                         | 640           | --           | --                         | --        | --               | 581                                 | 3,260                                    | 8.0   | --             | --                            | --                              |    |
| 553          | Qal Rg  | 50                                     | June 5, 1970       | 20                         | 6.4          | 217          | 51             | 846         | --            | --                              | 950                        | 830           | .9           | --                         | --        | 3,450            | 752                                 | --                                       | 7.5   | 75             | --                            | --                              |    |
| 601          | Qal Rg  | 50                                     | Apr. 18, 1968      | --                         | --           | 26           | 8.9            | --          | --            | 228                             | 620                        | 282           | --           | --                         | --        | --               | 102                                 | 2,520                                    | 7.4   | --             | --                            | 1.71                            |    |
| 606          | Qal Rg  | 70                                     | July 13, 1956      | --                         | --           | --           | --             | --          | --            | 341                             | --                         | 305           | --           | --                         | --        | --               | 456                                 | 2,280                                    | 7.6   | --             | --                            | --                              |    |
| 613          | Qtal 6  | 312                                    | Apr. 6, 1960       | 32                         | --           | 64           | 21             | 346         | --            | 106                             | 303                        | 422           | --           | 1.0                        | --        | 1,240            | 246                                 | 2,080                                    | 7.5   | 75             | --                            | --                              |    |
|              |         | 312                                    | Jan. 17, 1976      | 19                         | --           | 45           | 17             | 312         | --            | 82                              | 775                        | 366           | .6           | .4                         | --        | 1,080            | 182                                 | 1,850                                    | 7.7   | --             | --                            | --                              |    |
| 616          | Qtal 6  | 220                                    | Dec. 9, 1969       | 15                         | .05          | --           | --             | --          | --            | 172                             | 304                        | 168           | --           | --                         | --        | 880              | 178                                 | --                                       | 7.6   | --             | --                            | --                              |    |
|              |         | 220                                    | May 15, 1974       | 31                         | --           | 43           | 13             | 305         | --            | 155                             | 385                        | 218           | 1.5          | .6                         | --        | 1,070            | 161                                 | 1,610                                    | 6.9   | --             | --                            | --                              |    |

See footnotes at end of table.



Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer          | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH     | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |      |    |
|--------------|------------------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|--------|----------------|-------------------------------|---------------------------------|------|----|
| JL-49-22-617 | Qal 6            | 153-168                                | Nov. 5, 1969       | 16                         | 0.05      | --           | --             | --          | --            | 144                             | 502                        | 180           | --           | --                         | --        | 1,424            | 190                                 | --                                       | 7.9    | --             | --                            | --                              |      |    |
|              |                  | 300-315                                | do                 | 18                         | .05       | --           | --             | 340         | --            | --                              | 96                         | 482           | 295          | --                         | --        | --               | 1,394                               | 419                                      | --     | 7.9            | --                            | --                              | --   |    |
| 803          | Qal Rg           | 50                                     | Apr. 10, 1968      | --                         | --        | 69           | 15             | --          | --            | 308                             | 179                        | 115           | --           | --                         | --        | --               | 234                                 | 1,180                                    | 7.8    | --             | --                            | 0.38                            |      |    |
|              |                  |  | Dec. 17, 1969      | --                         | --        | 92           | 19             | --          | --            | 278                             | 260                        | 140           | --           | --                         | --        | --               | --                                  | 308                                      | 1,350  | 7.6            | --                            | --                              | --   |    |
| 809          | Qal Rg           | 85                                     | Sept. 6, 1956      | --                         | --        | --           | --             | --          | --            | 353                             | 469                        | 390           | --           | --                         | --        | --               | 410                                 | 2,560                                    | 7.8    | --             | --                            | --                              |      |    |
|              |                  |  | Dec. 8, 1969       | --                         | --        | 46           | 17             | --          | --            | 338                             | 484                        | 282           | --           | --                         | --        | --               | --                                  | 185                                      | 2,300  | 7.9            | --                            | --                              | 1.84 |    |
| 818          | Qal Rg<br>Qtal 6 | 163-183                                | Apr. 3, 1957       | 36                         | --        | 570          | 99             | 705         | 15            | 100                             | 358                        | 2,050         | 0.1          | --                         | 0.15      | 3,880            | 1,830                               | 6,630                                    | 7.5    | 45             | --                            | --                              |      |    |
|              |                  | 641-661                                | Apr. 4, 1957       | --                         | --        | --           | --             | 4,110       | --            | 30                              | 407                        | 9,900         | --           | --                         | --        | --               | 5,490                               | 25,600                                   | 7.0    | 62             | --                            | --                              |      |    |
|              |                  | 939-959                                | Apr. 5, 1957       | --                         | --        | --           | --             | 9,260       | --            | 22                              | 1,480                      | 22,600        | --           | --                         | --        | --               | 13,300                              | 51,000                                   | 6.9    | 60             | --                            | --                              |      |    |
|              |                  | 1,497-1,517                            | Apr. 9, 1957       | --                         | --        | --           | --             | 4,780       | --            | 24                              | 1,390                      | 9,790         | --           | --                         | --        | --               | 4,710                               | 26,000                                   | 7.0    | 69             | --                            | --                              |      |    |
|              |                  | 1,497-1,517                            | do                 | 20                         | .4        | 1,970        | 104            | 4,505       | --            | 37                              | 1,356                      | 9,700         | --           | --                         | --        | 18,000           | 5,353                               | 27,700                                   | 7.3    | --             | --                            | --                              |      |    |
| 822          | Qal Rg           | 102                                    | Sept. 3, 1956      | --                         | --        | --           | --             | --          | --            | 450                             | 817                        | 960           | --           | --                         | --        | --               | 1,040                               | 4,670                                    | 7.6    | --             | --                            | --                              |      |    |
| 825          | Qal Rg           | 74                                     | July 13, 1958      | --                         | --        | --           | --             | --          | --            | 338                             | --                         | 265           | --           | --                         | --        | --               | 436                                 | 2,030                                    | 7.8    | --             | --                            | --                              |      |    |
| 826          | Qal Rg           | 83                                     | Aug. 8, 1956       | --                         | --        | --           | --             | --          | --            | 277                             | --                         | 362           | --           | --                         | --        | --               | 436                                 | 1,870                                    | 7.6    | --             | --                            | --                              |      |    |
| 829          | Qal Rg           | 72                                     | -- 1964            | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,135            | --                                  | 3,050                                    | --     | --             | --                            | --                              |      |    |
|              |                  | 72                                     | -- 1971            | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | 1,680                               | --                                       | 2,400  | --             | --                            | --                              | --   |    |
|              |                  | 72                                     | Aug. 31, 1971      | 35                         | --        | 144          | 40             | 490         | --            | --                              | 468                        | 700           | 338          | --                         | --        | --               | 1,979                               | 524                                      | 2,400  | 8.0            | --                            | --                              | --   |    |
| 830          | Qal Rg           | 100                                    | July 13, 1956      | --                         | --        | --           | --             | --          | --            | 425                             | --                         | 250           | --           | --                         | --        | --               | 424                                 | 2,110                                    | 7.9    | --             | --                            | --                              |      |    |
| 837          | Qal Rg<br>Qtal 6 | 24-43                                  | Aug. 19, 1972      | --                         | --        | 68           | 16             | 321         | --            | --                              | 365                        | 244           | 1.5          | --                         | --        | 1,339            | 236                                 | --                                       | 7.8    | 79             | --                            | --                              |      |    |
|              |                  | 61-80                                  | do                 | 30                         | --        | 106          | 22             | 247         | --            | --                              | 276                        | 171           | 209          | .7                         | 8.0       | --               | 1,130                               | 355                                      | 1,650  | 7.4            | --                            | --                              | --   |    |
|              |                  | 61-80                                  | do                 | --                         | --        | 7.2          | 104            | 24          | 249           | --                              | --                         | 394           | 196          | .8                         | --        | --               | 1,180                               | 360                                      | --     | 7.9            | 66                            | --                              | --   |    |
|              |                  | 107-126                                | do                 | 31                         | --        | 192          | 35             | 496         | --            | --                              | 178                        | 335           | 880          | .7                         | 1.5       | --               | 2,060                               | 620                                      | 3,220  | 7.4            | --                            | --                              | --   |    |
|              |                  | 107-126                                | do                 | --                         | --        | 188          | 36             | 204         | --            | --                              | --                         | 346           | 393          | .5                         | --        | --               | 2,447                               | 620                                      | --     | 8.1            | 48                            | --                              | --   |    |
|              |                  | 152-171                                | do                 | 30                         | --        | 276          | 49             | 660         | --            | --                              | 88                         | 276           | 1,420        | .7                         | 1.0       | --               | 2,760                               | 890                                      | 4,430  | 7.3            | --                            | --                              | --   |    |
|              |                  | 152-171                                | do                 | --                         | --        | 1.0          | 276            | 49          | 679           | --                              | --                         | 278           | 1,418        | .5                         | --        | --               | 4,025                               | 890                                      | --     | 8.0            | 68                            | --                              | --   |    |
|              |                  | 202-221                                | do                 | 28                         | --        | 314          | 47             | 970         | --            | --                              | 73                         | 300           | 1,910        | .7                         | 1.5       | --               | 3,610                               | 980                                      | 5,630  | 7.3            | --                            | --                              | --   |    |
|              |                  | 202-221                                | do                 | --                         | --        | .5           | 394            | 49          | 980           | --                              | --                         | --            | 326          | 1,907                      | .5        | --               | --                                  | 4,985                                    | 960    | --             | 8.0                           | 74                              | --   | -- |
|              |                  | 250-269                                | do                 | 28                         | --        | 499          | 70             | 1,130       | --            | --                              | 54                         | 443           | 2,470        | .6                         | 2.5       | --               | 4,670                               | 1,540                                    | 6,820  | 7.3            | --                            | --                              | --   |    |
|              |                  | 250-269                                | do                 | --                         | --        | 1.0          | 484            | 70          | 1,096         | --                              | --                         | --            | 442          | 2,396                      | .4        | --               | --                                  | 6,834                                    | 1,500  | --             | 7.9                           | 66                              | --   | -- |
|              |                  | 304-323                                | do                 | 23                         | --        | 740          | 108            | 1,690       | --            | --                              | 39                         | 492           | 3,850        | .7                         | <.4       | --               | 6,900                               | 2,300                                    | 9,680  | 6.9            | --                            | --                              | --   |    |
|              |                  | 304-323                                | do                 | --                         | --        | .5           | 724            | 102         | 1,872         | --                              | --                         | 854           | 3,813        | .5                         | --        | --               | 10,374                              | 2,230                                    | --     | 7.8            | 69                            | --                              | --   |    |
|              |                  | 335-354                                | do                 | 20                         | --        | 900          | 126            | 2,050       | --            | --                              | 34                         | 570           | 4,690        | .7                         | <.4       | --               | 8,400                               | 2,770                                    | 11,300 | 7.1            | --                            | --                              | --   |    |
|              |                  | 335-354                                | do                 | --                         | --        | 2.0          | 880            | 121         | 1,938         | --                              | --                         | --            | 518          | 4,498                      | .4        | --               | --                                  | 12,521                                   | 2,700  | --             | 7.8                           | 66                              | --   | -- |
|              |                  | 386-405                                | do                 | 17                         | --        | 880          | 126            | 2,030       | --            | --                              | 44                         | 610           | 4,690        | .7                         | <.4       | --               | 8,400                               | 2,730                                    | 11,120 | 7.1            | --                            | --                              | --   |    |
|              |                  | 386-405                                | do                 | --                         | --        | 2.0          | 868            | 121         | 1,982         | --                              | --                         | --            | 576          | 4,498                      | .4        | --               | --                                  | 12,390                                   | 2,680  | --             | 7.7                           | 67                              | --   | -- |
| 839          | Qal Rg<br>Qtal 6 | 60-80                                  | Jan. 12, 1977      | 39                         | --        | 103          | 18             | 209         | --            | --                              | 368                        | 242           | 156          | .5                         | .7        | --               | 950                                 | 332                                      | 1,470  | 8.1            | --                            | --                              | --   |    |
|              |                  | 60-80                                  | do                 | --                         | --        | .73          | 100            | 17          | 140           | --                              | --                         | 88            | 165          | .62                        | --        | --               | 876                                 | 320                                      | --     | 8.2            | 55                            | --                              | --   |    |
|              |                  | 80-100                                 | Jan. 13, 1977      | 36                         | --        | 60           | 7              | 276         | --            | --                              | 350                        | 246           | 157          | .5                         | .4        | --               | 960                                 | 178                                      | 1,470  | 8.3            | --                            | --                              | --   |    |
|              |                  | 80-100                                 | do                 | --                         | --        | .76          | 60             | 6.8         | 180           | --                              | --                         | 49            | 165          | .6                         | --        | --               | 810                                 | 178                                      | --     | 7.8            | 73                            | --                              | --   |    |
|              |                  | 150-170                                | do                 | 29                         | --        | 191          | 18             | 790         | --            | --                              | 54                         | 228           | 1,400        | .4                         | .4        | --               | 2,680                               | 550                                      | 4,320  | 7.5            | --                            | --                              | --   |    |
|              |                  | 150-170                                | do                 | --                         | --        | .45          | 188            | 27          | 1,281         | --                              | --                         | --            | 1,225        | 1,450                      | .54       | --               | --                                  | 4,228                                    | 570    | --             | 6.9                           | 86                              | --   | -- |
|              |                  | 210-230                                | do                 | 24                         | --        | 293          | 32             | 1,150       | --            | --                              | 73                         | 327           | 2,970        | .5                         | .7        | --               | 3,930                               | 860                                      | 6,190  | 7.6            | --                            | --                              | --   |    |
|              |                  | 210-230                                | do                 | --                         | --        | 7.0          | 284            | 41          | 1,604         | --                              | --                         | --            | 1,225        | 2,150                      | .64       | --               | --                                  | 5,377                                    | 880    | --             | 6.9                           | 83                              | --   | -- |
| 840          | Qal Rg<br>Qtal 6 | 44-64                                  | Jan. 26, 1977      | 30                         | --        | 93           | 20             | 196         | --            | --                              | 268                        | 299           | 137          | .5                         | .4        | --               | 910                                 | 314                                      | 1,420  | 8.0            | --                            | --                              | --   |    |
|              |                  | 44-64                                  | do                 | --                         | --        | .15          | 92             | 21          | 126           | --                              | --                         | 286           | 160          | .52                        | --        | --               | 950                                 | 316                                      | --     | 8.3            | 53                            | --                              | --   |    |
|              |                  | 80-100                                 | do                 | 30                         | --        | 44           | 13             | 233         | --            | --                              | 268                        | 255           | 135          | .6                         | .4        | --               | 840                                 | 165                                      | 1,310  | 8.2            | --                            | --                              | --   |    |
|              |                  | 80-100                                 | do                 | --                         | --        | .15          | 46             | 12          | 229           | --                              | --                         | 242           | 135          | .66                        | --        | --               | 927                                 | 164                                      | --     | 8.4            | 80                            | --                              | --   |    |
|              |                  | 150-170                                | do                 | 28                         | --        | 31           | 7              | 261         | --            | --                              | 266                        | 255           | 132          | .9                         | .4        | --               | 850                                 | 105                                      | 1,320  | --             | --                            | --                              | --   |    |
|              |                  | 150-170                                | do                 | --                         | --        | .15          | 30             | 7.8         | 251           | --                              | --                         | 242           | 130          | .93                        | --        | --               | 917                                 | 108                                      | --     | 8.5            | 87                            | --                              | --   |    |
|              |                  | 190-210                                | do                 | 28                         | --        | 8            | 2              | 150         | --            | --                              | 194                        | 90            | 62           | 1.4                        | .4        | --               | 440                                 | 27                                       | 652    | --             | --                            | --                              | --   |    |
|              |                  | 190-210                                | do                 | --                         | --        | .15          | 7.6            | 1.7         | 149           | --                              | --                         | --            | 97           | 60                         | 1.5       | --               | 509                                 | 26                                       | --     | 8.6            | 94                            | --                              | --   |    |
|              |                  | 230-250                                | do                 | 28                         | --        | --           | 10             | 2           | 171           | --                              | --                         | 189           | 110          | 87                         | 1.4       | .4               | --                                  | 510                                      | 33     | 807            | --                            | --                              | --   | -- |
|              |                  | 230-250                                | do                 | --                         | --        | .15          | 9.2            | 2.2         | 171           | --                              | --                         | --            | 112          | 90                         | 1.25      | --               | 571                                 | 32                                       | --     | 8.6            | 94                            | --                              | --   |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH      | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|---------|----------------|-------------------------------|---------------------------------|----|
| JL-49-22-840 | Qtal 6  | 295-315                                | Jan. 26, 1977      | 29                         | --        | 24           | 3              | 302         | --            | 137                             | 187                        | 313           | 0.9          | 0.4                        | --        | 930              | 75                                  | 1,530                                    | 8.3     | --             | --                            | --                              |    |
|              |         | 295-315                                | do                 | --                         | 0.15      | 25           | 3.2            | 296         | --            | --                              | 183                        | 295           | .93          | --                         | --        | --               | 918                                 | 75                                       | --      | 8.3            | 91                            | --                              | -- |
|              |         | 380-400                                | Jan. 25, 1977      | 30                         | --        | 46           | 7              | 411         | --            | 107                             | 203                        | 520           | .7           | .4                         | --        | 1,270            | 142                                 | 2,150                                    | 8.2     | --             | --                            | --                              |    |
|              |         | 380-400                                | do                 | --                         | .15       | 46           | 8.3            | 404         | --            | --                              | 203                        | 515           | .75          | --                         | --        | --               | 1,283                               | 148                                      | --      | 8.2            | 88                            | --                              | -- |
| 907          | Qal Rg  | 111                                    | Sept. 5, 1956      | --                         | --        | --           | --             | --          | --            | 386                             | --                         | 880           | --           | --                         | --        | --               | 845                                 | 4,390                                    | 7.6     | --             | --                            | --                              |    |
| 908          | Qal Rg  | 145                                    | Mar. 28, 1951      | 32                         | --        | 353          | 108            | 965         | --            | 162                             | 938                        | 1,650         | --           | .5                         | 0.3       | 4,130            | 1,320                               | 6,460                                    | 7.7     | 61             | --                            | --                              |    |
| 911          | Qal Rg  | 138                                    | do                 | 36                         | --        | 219          | 71             | 855         | --            | 154                             | 844                        | 1,230         | .9           | 2.0                        | .4        | 3,330            | 838                                 | 5,200                                    | 7.9     | --             | --                            | --                              |    |
| 914          | Qal Rg  | 113                                    | Aug. 28, 1956      | --                         | --        | --           | --             | --          | --            | 402                             | --                         | 322           | --           | --                         | --        | --               | 560                                 | 2,560                                    | 7.4     | --             | --                            | --                              |    |
| 918          | Qal Rg  | 90                                     | Aug. 24, 1972      | --                         | --        | --           | --             | --          | --            | 376                             | 750                        | 440           | --           | --                         | --        | --               | 660                                 | 3,230                                    | 7.8     | --             | --                            | --                              |    |
| 925          | Qal Rg  | --                                     | Sept. 4, 1956      | --                         | --        | --           | --             | --          | --            | 249                             | --                         | 1,130         | --           | --                         | --        | --               | 1,000                               | 4,940                                    | 7.8     | --             | --                            | --                              |    |
| 929          | Qal Rg  | 127                                    | July 30, 1956      | --                         | --        | --           | --             | --          | --            | 432                             | --                         | 345           | --           | --                         | --        | --               | 750                                 | 2,700                                    | 8.0     | --             | --                            | --                              |    |
| 930          | Qal Rg  | 126                                    | Jan. 15, 1976      | 23                         | --        | 286          | 61             | 700         | --            | 228                             | 1,120                      | 780           | .5           | .7                         | --        | --               | 960                                 | 4,160                                    | 8.0     | --             | --                            | --                              |    |
| 933          | Qal Rg  | 72                                     | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,666            | --                                  | 2,380                                    | --      | --             | --                            | --                              |    |
|              |         | 72                                     | 1965               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | 1,855                               | --                                       | 2,650   | --             | --                            | --                              | -- |
|              |         | 72                                     | Aug. 27, 1971      | 32                         | --        | 78           | 27             | 351         | --            | --                              | 486                        | 380           | 196          | --                         | --        | --               | 1,305                               | 306                                      | 1,500   | 7.7            | --                            | --                              | -- |
|              |         | 72                                     | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | 1,050                               | --                                       | 1,500   | --             | --                            | --                              | -- |
| 939          | Qal Rg  | 80-100                                 | Jan. 25, 1974      | 32                         | --        | 124          | 18             | 490         | --            | 256                             | 550                        | 479           | .9           | 3.1                        | --        | 1,820            | 385                                 | 2,690                                    | 8.3     | --             | --                            | --                              |    |
|              |         | 80-100                                 | Jan. 30, 1974      | --                         | .01       | 120          | 61             | 654         | --            | --                              | 950                        | 600           | 1.1          | --                         | --        | --               | 1,860                               | 550                                      | --      | 8.3            | 78                            | --                              | -- |
|              |         | 178-198                                | Jan. 25, 1974      | 26                         | --        | 360          | 49             | 1,040       | --            | 77                              | 326                        | 2,140         | .4           | 2.1                        | --        | --               | 3,980                               | 1,100                                    | 6,000   | 7.5            | --                            | --                              | -- |
|              |         | 178-198                                | Jan. 30, 1974      | --                         | .01       | 360          | 85             | 1,268       | --            | --                              | 526                        | 2,400         | .7           | --                         | --        | --               | 4,605                               | 1,250                                    | --      | 8.0            | 74                            | --                              | -- |
|              |         | 460-480                                | Jan. 25, 1974      | 26                         | --        | 2,180        | 446            | 3,800       | --            | 41                              | 1,930                      | 9,900         | 1.1          | <.4                        | --        | --               | 17,400                              | 7,300                                    | >12,000 | 7.4            | --                            | --                              | -- |
|              |         | 460-480                                | Jan. 30, 1974      | --                         | .01       | 2,060        | 298            | 4,213       | --            | --                              | 950                        | 10,275        | <.01         | --                         | --        | --               | 20,749                              | 6,350                                    | --      | 7.6            | 64                            | --                              | -- |
| 23-201       | Qtal 6  | 440                                    | Dec. 8, 1952       | 25                         | --        | 60           | 15             | 477         | --            | 83                              | 219                        | 675           | --           | .2                         | --        | 1,520            | 211                                 | 2,670                                    | 7.8     | 83             | --                            | --                              |    |
| 501          | Qtal 6  | 500                                    | do                 | 21                         | .53       | 25           | 8.2            | 318         | --            | 134                             | 146                        | 370           | --           | 2.8                        | --        | 958              | 96                                  | 1,700                                    | 7.9     | 88             | --                            | --                              |    |
| 502          | Qtal 6  | 560                                    | Feb. 2, 1962       | 8                          | --        | 32           | 10             | 235         | 10            | 136                             | 97                         | 307           | --           | --                         | --        | 840              | --                                  | --                                       | 7.0     | 79             | --                            | --                              |    |
| 504          | Qtal 6  | 458-478                                | Nov. 6, 1961       | 12                         | --        | 33           | 5              | 250         | 8             | 160                             | 213                        | 210           | --           | --                         | --        | 880              | --                                  | --                                       | 7.0     | 83             | --                            | --                              |    |
|              |         | 478-530                                | do                 | 12                         | --        | 29           | 5              | 269         | 8             | 180                             | 230                        | 210           | --           | --                         | --        | 940              | --                                  | --                                       | 7.0     | 84             | --                            | --                              |    |
|              |         | 500                                    | Jan. 25, 1962      | --                         | .38       | 27           | 6              | 272         | --            | 140                             | 105                        | 335           | .9           | 6.2                        | --        | 936              | 93                                  | 1,560                                    | 7.9     | --             | --                            | --                              |    |
|              |         | 530                                    | Mar. 20, 1967      | --                         | .36       | 24           | 10             | 256         | --            | 165                             | 126                        | 296           | 1.1          | .6                         | --        | 880              | 102                                 | 1,606                                    | 8.0     | --             | --                            | --                              |    |
|              |         | 530                                    | do                 | --                         | .02       | 25           | 9              | 223         | --            | 162                             | 120                        | 226           | 1.1          | 14                         | --        | 780              | 98                                  | 1,360                                    | 8.1     | --             | --                            | --                              |    |
|              |         | 530                                    | Jan. 17, 1968      | --                         | .01       | 36           | 6              | --          | --            | --                              | 162                        | 290           | --           | --                         | --        | 908              | 116                                 | --                                       | 7.4     | --             | --                            | --                              |    |
| 505          | Qtal 6  | 558                                    | do                 | --                         | .02       | 26           | 7              | 268         | --            | 142                             | 109                        | 315           | 1.0          | 5.0                        | --        | 880              | 93                                  | 1,650                                    | 8.5     | --             | --                            | --                              |    |
| 506          | Qtal 6  | 495                                    | Nov. 2, 1961       | 12                         | --        | 36           | 9              | 237         | 10            | 140                             | 99                         | 310           | --           | --                         | --        | 860              | --                                  | --                                       | 7.1     | 79             | --                            | --                              |    |
|              |         | 495                                    | Sept. 26, 1965     | --                         | .02       | 26           | 7              | --          | --            | --                              | 165                        | 330           | .3           | --                         | --        | 851              | 94                                  | --                                       | 8.9     | --             | --                            | --                              |    |
|              |         | 495                                    | Mar. 20, 1967      | --                         | .08       | 22           | 7              | 274         | --            | 144                             | 125                        | 323           | 1.0          | .6                         | --        | 900              | 84                                  | 1,683                                    | 8.3     | --             | --                            | --                              |    |
|              |         | 495                                    | Feb. 9, 1968       | --                         | --        | 102          | 11             | --          | --            | --                              | 180                        | 950           | --           | --                         | --        | 2,151            | 300                                 | --                                       | 7.7     | --             | --                            | --                              |    |
| 507          | Qtal 6  | 460-480                                | Dec. 9, 1961       | 10                         | --        | 28           | 8              | 205         | 10            | 160                             | 121                        | 200           | --           | --                         | --        | 762              | --                                  | --                                       | 7.0     | 85             | --                            | --                              |    |
|              |         | 500-520                                | do                 | 12                         | --        | 62           | 10             | 285         | 10            | 180                             | 236                        | 309           | --           | --                         | --        | 1,140            | --                                  | --                                       | 7.1     | 75             | --                            | --                              |    |
|              |         | 520                                    | July 31, 1968      | 17                         | .01       | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | 2,140                               | --                                       | --      | 8.1            | --                            | --                              | -- |
| 509          | Qtal 6  | 480-490                                | Jan. 13, 1962      | 12                         | --        | 74           | 12             | 370         | 10            | 116                             | 157                        | 562           | --           | --                         | --        | 1,350            | --                                  | --                                       | 7.0     | 76             | --                            | --                              |    |
|              |         | 510-530                                | do                 | 8                          | --        | 110          | 12             | 310         | 8             | 120                             | 84                         | 443           | --           | --                         | --        | 1,100            | --                                  | --                                       | 7.0     | 83             | --                            | --                              |    |
| 601          | Qtal 6  | 478-500                                | July 25, 1953      | 8.8                        | .04       | 22           | 4.3            | 315         | 4.7           | 85                              | 97                         | 412           | .8           | 1.5                        | .24       | 930              | 72                                  | 1,780                                    | 7.2     | 89             | --                            | --                              |    |
|              |         | 657-677                                | Aug. 1, 1953       | 16                         | .12       | 28           | 3.1            | 369         | 3.5           | 84                              | 65                         | 520           | 1.0          | 1.0                        | .36       | 1,050            | 82                                  | 2,070                                    | 7.7     | 90             | --                            | --                              |    |
| 701          | Qal Rg  | 50                                     | May 31, 1968       | --                         | .02       | 261          | 18             | --          | --            | --                              | 895                        | 527           | --           | 1.7                        | --        | 2,651            | 726                                 | --                                       | 8.0     | --             | --                            | --                              |    |
|              |         | 20-50                                  | June 5, 1968       | --                         | --        | 216          | 39             | --          | --            | 216                             | 900                        | 520           | --           | --                         | --        | --               | 700                                 | 3,690                                    | 7.7     | --             | --                            | --                              |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|
| JL-49-23-702 | Qtal 6  | 225                                    | Jan. 15, 1976      | 18                         | --        | 220          | 57             | 580         | --            | 67                              | 570                        | 1,010         | 0.7          | <0.6                       | --        | 2,490            | 770                                 | 3,850                                    | 7.9 | --             | --                            | --                              |
| 704          | Qal Rg  | 50                                     | Sept. 5, 1956      | --                         | --        | --           | --             | --          | --            | 397                             | 1,090                      | 940           | --           | --                         | --        | --               | 1,000                               | 5,060                                    | 7.5 | --             | --                            | --                              |
| 801          | Qcal 6  | 500                                    | Apr. 29, 1952      | --                         | --        | --           | --             | --          | --            | 57                              | --                         | 1,530         | --           | --                         | --        | --               | 430                                 | 5,210                                    | 7.7 | --             | --                            | --                              |
| 902          | Qcal 6  | 450                                    | May 16, 1974       | 27                         | --        | 83           | 17             | 500         | --            | 63                              | 188                        | 790           | .8           | <.4                        | --        | 1,640            | 277                                 | 2,730                                    | 7.5 | --             | --                            | --                              |
|              |         | 560                                    | do                 | 27                         | --        | 144          | 18             | 700         | --            | 67                              | 165                        | 1,220         | .8           | .4                         | --        | 2,310            | 435                                 | 3,750                                    | 7.2 | --             | --                            | --                              |
| 24-401       | Qtal 6  | 460                                    | Apr. 2, 1936       | --                         | 1.0       | 29           | 15             | 134         | --            | 195                             | 132                        | 75            | --           | 27                         | --        | 508              | 134                                 | --                                       | --  | --             | --                            | --                              |
|              |         | 460                                    | Mar. 18, 1954      | 31                         | .01       | 28           | 12             | 151         | --            | 206                             | 122                        | 83            | 1.4          | 29                         | --        | 574              | 120                                 | 936                                      | 8.2 | 73             | --                            | --                              |
| 405          | Qtal 6  | 515                                    | Mar. 6, 1961       | 10                         | --        | 36           | 5              | 120         | 5             | 108                             | 151                        | 94            | --           | --                         | --        | 580              | --                                  | --                                       | 7.0 | 69             | --                            | --                              |
|              |         | 515                                    | --                 | --                         | <.02      | 32           | 10             | 144         | --            | 173                             | 127                        | 86            | 1.0          | 32.5                       | --        | 610              | 121                                 | 990                                      | 8.4 | --             | --                            | --                              |
|              |         | 515                                    | Sept. 26, 1965     | --                         | .04       | 34           | 112            | --          | --            | 146                             | 95                         | .3            | --           | --                         | --        | 580              | 134                                 | --                                       | 8.2 | --             | --                            | --                              |
|              |         | 515                                    | Jan. 17, 1968      | --                         | --        | 31           | 8              | --          | --            | 132                             | 70                         | --            | --           | --                         | --        | 477              | 112                                 | --                                       | 7.7 | --             | --                            | --                              |
| 406          | Qtal 6  | 490-521                                | July 17, 1961      | 8                          | --        | 36           | 8              | 130         | 7             | 154                             | 154                        | 97            | --           | --                         | --        | 550              | --                                  | --                                       | 7.0 | 68             | --                            | --                              |
|              |         | --                                     | --                 | --                         | <.02      | 27           | 9              | 135         | --            | 178                             | 111                        | 72            | 1.0          | 31.5                       | --        | 570              | 103                                 | 918                                      | 7.7 | --             | --                            | --                              |
|              |         | 521                                    | Jan. 17, 1968      | --                         | .01       | 34           | 10             | --          | --            | --                              | 153                        | 85            | --           | --                         | --        | 574              | 126                                 | --                                       | 7.6 | --             | --                            | --                              |
| 407          | Qtal 6  | 440                                    | July 1961          | 8                          | --        | 33           | 6              | 123         | 8             | 174                             | 125                        | 80            | --           | --                         | --        | 560              | --                                  | --                                       | 7.0 | 70             | --                            | --                              |
|              |         | 494-513                                | do                 | 10                         | --        | 66           | 7              | 140         | 8             | 210                             | 173                        | 111           | --           | --                         | --        | 745              | --                                  | --                                       | 7.0 | 60             | --                            | --                              |
|              |         | 605                                    | Jan. 17, 1968      | --                         | --        | 33           | 10             | --          | --            | --                              | 148                        | 85            | --           | --                         | --        | 575              | 124                                 | --                                       | 7.7 | --             | --                            | --                              |
| 408          | Qtal 6  | 500-525                                | July 15, 1961      | 10                         | --        | 33           | 6              | 145         | 5             | 164                             | 149                        | 99            | --           | --                         | --        | 620              | --                                  | --                                       | 7.0 | 74             | --                            | --                              |
| 409          | Qtal 6  | 490-520                                | Sept. 18, 1961     | 10                         | --        | 40           | 12             | 135         | 10            | 176                             | 85                         | 169           | --           | --                         | --        | 660              | --                                  | --                                       | 7.2 | 64             | --                            | --                              |
|              |         | 520-560                                | do                 | 10                         | --        | 40           | 10             | 125         | 10            | 170                             | 85                         | 150           | --           | --                         | --        | 570              | --                                  | --                                       | 7.2 | 65             | --                            | --                              |
| 410          | Qtal 6  | 550                                    | Oct. 20, 1961      | 6                          | --        | 66           | 8              | 145         | 8             | 210                             | 206                        | 96            | --           | --                         | --        | 740              | --                                  | --                                       | 7.0 | 68             | --                            | --                              |
|              |         | 550                                    | Sept. 26, 1965     | --                         | .03       | 25           | 8              | --          | --            | --                              | 162                        | 75            | .4           | --                         | --        | 560              | 96                                  | --                                       | 7.8 | --             | --                            | --                              |
|              |         | 550                                    | Mar. 20, 1967      | --                         | .10       | 28           | 11             | 138         | --            | 183                             | 123                        | 89            | 1.0          | 35                         | --        | 610              | 116                                 | 975                                      | 7.9 | --             | --                            | --                              |
| 411          | Qtal 6  | 500                                    | Sept. 13, 1968     | 10                         | .10       | 32           | --             | 222         | --            | 99                              | 156                        | 220           | --           | --                         | --        | 720              | --                                  | --                                       | 7.8 | --             | --                            | --                              |
| 412          | Qtal 6  | 574                                    | do                 | 20                         | .05       | 21           | --             | 205         | --            | 110                             | 127                        | 205           | --           | --                         | --        | 640              | --                                  | --                                       | 7.9 | --             | --                            | --                              |
| 601          | Qtal 6  | 500                                    | Apr. 2, 1936       | --                         | 3.1       | 136          | 45             | 905         | --            | 237                             | 478                        | 1,260         | --           | 24                         | --        | 2,970            | 524                                 | --                                       | --  | --             | --                            | --                              |
| 603          | Qtal 6  | --                                     | Apr. 1, 1963       | 15                         | --        | 230          | 10             | 420         | 10            | 220                             | 523                        | 580           | --           | --                         | --        | 2,075            | --                                  | --                                       | 7.0 | 59             | --                            | --                              |
|              |         | --                                     | Oct. 4, 1971       | --                         | .01       | 90           | 51             | 698         | --            | 173                             | 221                        | 534           | --           | --                         | --        | 1,821            | 290                                 | 2,000                                    | 7.4 | --             | --                            | --                              |
| 801          | Qtal 6  | 643                                    | Apr. 2, 1936       | --                         | --        | 66           | 27             | 778         | --            | 246                             | 668                        | 758           | --           | 1.2                        | --        | 2,420            | 276                                 | --                                       | --  | --             | --                            | --                              |
| 30-201       | Qal Rg  | 86                                     | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,470            | --                                  | 2,100                                    | --  | --             | --                            | --                              |
|              |         | 86                                     | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,155            | --                                  | 1,650                                    | --  | --             | --                            | --                              |
|              |         | 86                                     | Sept. 1, 1971      | 32                         | --        | 122          | 28             | 338         | --            | 417                             | 400                        | 282           | --           | --                         | --        | 1,409            | 420                                 | 1,650                                    | 7.6 | --             | --                            | --                              |
| 202          | Qal Rg  | 156                                    | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,680            | --                                  | 2,400                                    | --  | --             | --                            | --                              |
|              |         | 156                                    | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,015            | --                                  | 1,450                                    | --  | --             | --                            | --                              |
|              |         | 156                                    | Sept. 1, 1971      | 22                         | --        | 106          | 29             | 286         | --            | 371                             | 390                        | 210           | --           | --                         | --        | 1,227            | 385                                 | 1,450                                    | 7.6 | --             | --                            | --                              |
| 203          | Qal Rg  | 80                                     | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,540            | --                                  | 2,200                                    | --  | --             | --                            | --                              |
|              |         | 80                                     | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,155            | --                                  | 1,650                                    | --  | --             | --                            | --                              |
|              |         | 80                                     | Aug. 25, 1971      | 37                         | --        | 138          | 41             | 297         | --            | 388                             | 470                        | 248           | --           | --                         | --        | 1,423            | 512                                 | 1,650                                    | 7.6 | --             | --                            | --                              |
| 205          | Qal Rg  | 120                                    | July 29, 1956      | --                         | --        | --           | --             | --          | --            | 316                             | --                         | 275           | --           | --                         | --        | --               | 504                                 | 2,040                                    | 7.6 | --             | --                            | --                              |
|              |         | 120                                    | 1956               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,428            | --                                  | 2,040                                    | --  | --             | --                            | --                              |
| 206          | Qal Rg  | 80                                     | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,295            | --                                  | 1,850                                    | --  | --             | --                            | --                              |
|              |         | 80                                     | 1965               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,225            | --                                  | 1,750                                    | --  | --             | --                            | --                              |
|              |         | 80                                     | 1966               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,190            | --                                  | 1,700                                    | --  | --             | --                            | --                              |
|              |         | 80                                     | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,050            | --                                  | 1,500                                    | --  | --             | --                            | --                              |
|              |         | 80                                     | Aug. 25, 1971      | 31                         | --        | 124          | 30             | 296         | --            | 398                             | 470                        | 186           | --           | --                         | --        | 1,334            | 434                                 | 1,500                                    | 7.8 | --             | --                            | --                              |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------|--|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|
| JL-49-30-207 | Qal Rg  | 30-50                                  | July 19, 1974      | --                         | 0.02          | 146          | 17             | 175         | --            | --                              | 215                        | 175           | 0.9          | --                         | --        | 1,161            | 434                                 | 1,605                                    | 8.1   | 52             | --                            | --                              |    |
|              |         | 50-70                                  | do                 | --                         | .02           | 178          | 21             | 261         | --            | --                              | 323                        | 350           | .8           | --                         | --        | 1,474            | 528                                 | 2,000                                    | 8.1   | 57             | --                            | --                              |    |
|              |         | 122-142                                | do                 | --                         | .09           | 129          | 6              | 243         | --            | --                              | 201                        | 335           | .7           | --                         | --        | 1,161            | 346                                 | 1,806                                    | 8.1   | 64             | --                            | --                              |    |
|              |         | 176-196                                | do                 | --                         | .02           | 109          | 5              | 440         | --            | --                              | 167                        | 670           | .7           | --                         | --        | 1,568            | 294                                 | 2,456                                    | 8.1   | 79             | --                            | --                              |    |
|              |         | 200                                    | do                 | --                         | .02           | 112          | 6              | 195         | --            | --                              | 179                        | 260           | .6           | --                         | --        | 990              | 304                                 | 1,810                                    | 8.2   | 62             | --                            | --                              |    |
|              | Qtal 6  | 484-504                                | do                 | --                         | .08           | 4,040        | 1,023          | 11,571      | --            | --                              | 11,449                     | 19,500        | .5           | --                         | --        | 47,769           | 5,226                               | 49,020                                   | 7.5   | 71             | --                            | --                              |    |
| 303          | Qal Rg  | 50                                     | June 3, 1968       | --                         | --            | 112          | 20             | --          | --            | 340                             | 418                        | 190           | --           | --                         | --        | --               | 362                                 | 1,920                                    | 7.9   | --             | --                            | 0                               |    |
|              |         | 50                                     | June 7, 1968       | --                         | .17           | 117          | 16             | --          | --            | --                              | 445                        | 205           | --           | 1.42                       | --        | --               | 1,276                               | 356                                      | --    | 8.1            | --                            | --                              | 0  |
|              |         | 50                                     | Dec. 17, 1969      | --                         | --            | 233          | 47             | --          | --            | --                              | 438                        | 672           | 420          | --                         | --        | --               | 775                                 | 2,940                                    | 7.6   | --             | --                            | --                              |    |
| 304          | --      | --                                     | gl                 | Aug. 24, 1972              | --            | --           | --             | --          | --            | 360                             | 690                        | 570           | --           | --                         | --        | --               | 780                                 | 3,430                                    | 7.2   | --             | --                            | --                              |    |
| 307          | Qal Rg  | 83                                     | Aug. 28, 1956      | --                         | --            | --           | --             | --          | --            | 374                             | --                         | 1,470         | --           | --                         | --        | --               | 1,390                               | 6,290                                    | 7.4   | --             | --                            | --                              |    |
| 308          | Qal Rg  | 81                                     | 1965               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,520            | --                                  | 3,600                                    | --    | --             | --                            | --                              |    |
|              |         | 81                                     | 1971               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,505            | --                                  | 2,150                                    | --    | --             | --                            | --                              |    |
|              |         | 81                                     | Sept. 1, 1971      | 31                         | --            | 149          | 27             | 475         | --            | --                              | 525                        | 600           | 326          | --                         | --        | --               | 1,868                               | 482                                      | 2,150 | 7.6            | --                            | --                              | -- |
| 310          | Qal Rg  | 74                                     | 1964               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 3,500            | --                                  | 5,000                                    | --    | --             | --                            | --                              |    |
|              |         | 74                                     | 1965               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 3,150            | --                                  | 4,500                                    | --    | --             | --                            | --                              |    |
|              |         | 74                                     | 1966               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 3,136            | --                                  | 4,400                                    | --    | --             | --                            | --                              |    |
|              |         | 74                                     | 1971               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,380            | --                                  | 3,400                                    | --    | --             | --                            | --                              |    |
|              |         | 74                                     | Aug. 25, 1971      | 40                         | --            | 174          | 35             | 735         | --            | --                              | 515                        | 880           | 596          | --                         | --        | --               | 2,715                               | 580                                      | 3,400 | 7.8            | --                            | --                              | -- |
| 314          | Qal Rg  | 74                                     | 1965               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 3,500            | --                                  | 5,000                                    | --    | --             | --                            | --                              |    |
|              |         | 74                                     | 1971               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 945              | --                                  | 1,350                                    | --    | --             | --                            | --                              |    |
|              |         | 74                                     | Aug. 28, 1971      | 37                         | --            | 90           | 20             | 289         | --            | --                              | 298                        | 440           | 166          | --                         | --        | --               | 1,190                               | 308                                      | 1,350 | 7.7            | --                            | --                              | -- |
| 317          | Qal Rg  | 80                                     | 1965               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,380            | --                                  | 3,400                                    | --    | --             | --                            | --                              |    |
|              |         | 80                                     | 1971               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,590            | --                                  | 3,700                                    | --    | --             | --                            | --                              |    |
|              |         | 80                                     | Aug. 31, 1971      | 60                         | --            | 270          | 56             | 657         | --            | --                              | 386                        | 760           | 870          | --                         | --        | --               | 2,864                               | 906                                      | 3,700 | 7.7            | --                            | --                              | -- |
| 319          | Qal Rg  | 78                                     | Sept. 7, 1956      | --                         | --            | --           | --             | --          | --            | 388                             | --                         | 670           | --           | --                         | --        | --               | 720                                 | 3,890                                    | 7.8   | --             | --                            | --                              |    |
|              |         | 78                                     | 1956               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,786            | --                                  | 3,980                                    | --    | --             | --                            | --                              |    |
|              |         | 78                                     | 1965               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,345            | --                                  | 3,350                                    | --    | --             | --                            | --                              |    |
|              |         | 78                                     | 1966               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,324            | --                                  | 3,320                                    | --    | --             | --                            | --                              |    |
|              |         | 78                                     | 1971               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,030            | --                                  | 2,900                                    | --    | --             | --                            | --                              |    |
|              |         | 78                                     | Sept. 1, 1971      | 36                         | --            | 144          | 46             | 594         | --            | --                              | 454                        | 760           | 480          | --                         | --        | --               | 2,285                               | 548                                      | 2,900 | 7.6            | --                            | --                              | -- |
| 321          | Qal Rg  | 79                                     | Aug. 27, 1971      | 35                         | --            | 284          | 70             | 584         | --            | 403                             | 860                        | 740           | --           | --                         | --        | 2,773            | 998                                 | 3,500                                    | 7.5   | --             | --                            | --                              |    |
|              |         | 322                                    | Qal Rg             | 86                         | Sept. 4, 1956 | --           | --             | --          | --            | --                              | 483                        | --            | 700          | --                         | --        | --               | --                                  | 970                                      | 4,200 | 7.6            | --                            | --                              | -- |
| 325          | Qal Rg  | 70                                     | 1964               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,870            | --                                  | 4,100                                    | --    | --             | --                            | --                              |    |
|              |         | 70                                     | 1965               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,660            | --                                  | 3,800                                    | --    | --             | --                            | --                              |    |
|              |         | 70                                     | 1971               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,170            | --                                  | 3,100                                    | --    | --             | --                            | --                              |    |
|              |         | 70                                     | Aug. 27, 1971      | 36                         | --            | 222          | 47             | 591         | --            | --                              | 483                        | 760           | 598          | --                         | --        | --               | 2,494                               | 746                                      | 3,100 | 7.6            | --                            | --                              | -- |
| 326          | --      | --                                     | Sept. 3, 1956      | --                         | --            | --           | --             | --          | --            | 337                             | --                         | 328           | --           | --                         | --        | --               | 600                                 | 2,320                                    | 7.7   | --             | --                            | --                              |    |
|              |         | --                                     | 1936               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,624            | --                                  | 2,320                                    | --    | --             | --                            | --                              |    |
|              |         | --                                     | 1964               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,365            | --                                  | 1,950                                    | --    | --             | --                            | --                              |    |
|              |         | --                                     | 1971               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 910              | --                                  | 1,300                                    | --    | --             | --                            | --                              |    |
|              |         | --                                     | Sept. 2, 1971      | 28                         | --            | 103          | 21             | 268         | --            | --                              | 325                        | 390           | 182          | --                         | --        | --               | 1,153                               | 346                                      | 1,300 | 7.5            | --                            | --                              | -- |
| 327          | Qal Rg  | 147                                    | 1964               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,100            | --                                  | 3,000                                    | --    | --             | --                            | --                              |    |
|              |         | 147                                    | 1971               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,260            | --                                  | 1,800                                    | --    | --             | --                            | --                              |    |
|              |         | 147                                    | Aug. 28, 1971      | 32                         | --            | 144          | 25             | 366         | --            | --                              | 439                        | 510           | 262          | --                         | --        | --               | 1,556                               | 464                                      | 1,600 | 7.6            | --                            | --                              | -- |
| 328          | Qal Rg  | 168                                    | Sept. 24, 1948     | 23                         | --            | 30           | 10             | 291         | --            | 170                             | 107                        | 352           | --           | 2.5                        | --        | 913              | 116                                 | 1,650                                    | --    | 85             | --                            | --                              |    |
| 330          | Qal Rg  | 91                                     | 1964               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,456            | --                                  | 2,080                                    | --    | --             | --                            | --                              |    |
|              |         | 91                                     | 1965               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,240            | --                                  | 3,200                                    | --    | --             | --                            | --                              |    |
|              |         | 91                                     | 1966               | --                         | --            | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,219            | --                                  | 3,170                                    | --    | --             | --                            | --                              |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhm-cm at 25°C) | pH     | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |    |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|--------|----------------|-------------------------------|---------------------------------|----|----|
| JL-49-30-330 | Qal Rg  | 91                                     | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,295            | --                                  | 1,850                                     | --     | --             | --                            | --                              |    |    |
|              |         | 91                                     | Aug. 18, 1971      | 34                         | --        | 126          | 22             | 340         | --            | 403                             | 410                        | 275           | --           | --                         | --        | 1,407            | 406                                 | 1,850                                     | 7.5    | --             | --                            | --                              |    |    |
| 331          | Qal Rg  | 90                                     | Aug. 28, 1956      | --                         | --        | --           | --             | --          | --            | 380                             | --                         | 362           | --           | --                         | --        | --               | 522                                 | 2,640                                     | 7.5    | --             | --                            | --                              |    |    |
| 333          | Qal Rg  | 85                                     | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,540            | --                                  | 2,200                                     | --     | --             | --                            | --                              |    |    |
|              |         | 85                                     | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,015            | --                                  | 1,450                                     | --     | --             | --                            | --                              |    |    |
|              |         | 85                                     | Apr. 28, 1971      | 29                         | --        | 78           | 18             | 329         | --            | 325                             | 284                        | 178           | --           | --                         | --        | 1,078            | 270                                 | 1,400                                     | 7.8    | --             | --                            | --                              |    |    |
|              |         | 81                                     | June 14, 1971      | 32                         | --        | 66           | 28             | 261         | --            | 342                             | 295                        | 186           | --           | --                         | 1,038     | 282              | 1,450                               | 7.9                                       | --     | --             | --                            |                                 |    |    |
| 335          | Qal Rg  | 68                                     | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,114            | --                                  | 3,020                                     | --     | --             | --                            | --                              |    |    |
|              |         | 68                                     | 1965               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,380            | --                                  | 3,400                                     | --     | --             | --                            | --                              |    |    |
|              |         | 68                                     | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,960            | --                                  | 2,800                                     | --     | --             | --                            | --                              |    |    |
|              |         | 68                                     | Sept. 1, 1971      | 32                         | --        | 152          | 27             | 546         | --            | 612                             | 740                        | 404           | --           | --                         | --        | 2,105            | 490                                 | 2,800                                     | 7.5    | --             | --                            | --                              |    |    |
| 337          | Qal Rg  | 72                                     | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 3,570            | --                                  | 5,100                                     | --     | --             | --                            | --                              |    |    |
|              |         | 72                                     | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,660            | --                                  | 3,800                                     | --     | --             | --                            | --                              |    |    |
|              |         | 72                                     | Aug. 18, 1971      | 36                         | --        | 297          | 56             | 786         | --            | 529                             | 1,200                      | 710           | --           | --                         | --        | 3,347            | 974                                 | 3,800                                     | 7.4    | --             | --                            | --                              |    |    |
| 341          | Qal Rg  | 110-130                                | Dec. 15, 1976      | 28                         | --        | 460          | 141            | 1,450       | 15            | 160                             | 830                        | 2,790         | 0.3          | 0.4                        | --        | 5,800            | 1,730                               | 8,200                                     | 7.3    | --             | --                            | --                              |    |    |
|              |         | do                                     | do                 | --                         | 0.27      | 536          | 92             | 1,632       | --            | --                              | 1,000                      | 2,900         | .32          | --                         | --        | 6,325            | 1,720                               | --  | 8.0    | 72             | --                            | --                              |    |    |
|              | Qal Rg  | 220-240                                | do                 | do                         | 24        | --           | 520            | 81          | 1,550         | 15                              | 48                         | 820           | 3,090        | .4                         | .4        | --               | 5,900                               | 1,620                                     | 8,300  | 7.3            | --                            | --                              | -- |    |
|              |         | do                                     | do                 | do                         | --        | .20          | 520            | 83          | 1,535         | --                              | --                         | 610           | 3,050        | .4                         | --        | --               | 5,849                               | 1,640                                     | --     | 7.7            | 72                            | --                              | -- |    |
|              |         | do                                     | do                 | do                         | 20        | --           | 4,510          | 650         | 6,000         | 45                              | 20                         | 479           | 18,700       | .3                         | .4        | --               | 30,400                              | 13,900                                    | 12,000 | 6.3            | --                            | --                              | -- |    |
|              |         | do                                     | do                 | do                         | --        | .15          | 5,160          | 606         | 5,530         | --                              | --                         | 480           | 19,050       | .2                         | --        | --               | 30,890                              | 15,400                                    | 23,250 | 8.3            | 48                            | --                              | -- |    |
| Qtal 6       | 540-560 | do                                     | do                 | 20                         | --        | 4,510        | 650            | 6,000       | 45            | 20                              | 479                        | 18,700        | .3           | .4                         | --        | 30,400           | 13,900                              | 12,000                                    | 6.3    | --             | --                            | --                              |    |    |
|              | do      | do                                     | do                 | --                         | .15       | 5,160        | 606            | 5,530       | --            | --                              | 480                        | 19,050        | .2           | --                         | --        | 30,890           | 15,400                              | 23,250                                    | 8.3    | 48             | --                            | --                              |    |    |
|              | do      | do                                     | do                 | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | --               | --                                  | --  | --     | --             | --                            | --                              |    |    |
| 601          | Qtal 6  | 300-320                                | Mar. 22, 1957      | --                         | --        | --           | --             | 3,670       | --            | 33                              | 538                        | 9,600         | --           | --                         | --        | --               | 6,060                               | 25,000                                    | 6.9    | 57             | --                            | --                              |    |    |
|              |         | 1,279-1,299                            | Mar. 25, 1957      | --                         | --        | --           | --             | 10,100      | --            | 17                              | 1,230                      | 28,000        | --           | --                         | --        | --               | 18,800                              | 60,800                                    | 6.7    | 54             | --                            | --                              |    |    |
|              |         | 1,488-1,508                            | Mar. 27, 1957      | --                         | --        | --           | --             | 3,310       | --            | 30                              | 1,980                      | 4,950         | --           | --                         | --        | --               | 1,710                               | 16,200                                    | 7.6    | 81             | --                            | --                              |    |    |
| 603          | Qal Rg  | 70                                     | Sept. 6, 1956      | --                         | --        | --           | --             | --          | --            | 480                             | 993                        | 740           | --           | --                         | --        | 665              | 4,480                               | 7.8                                       | --     | --             | --                            |                                 |    |    |
| 606          | Qal Rg  | 131                                    | 1964               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,100            | --                                  | 3,000                                     | --     | --             | --                            | --                              |    |    |
|              |         | 131                                    | 1965               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 2,100            | --                                  | 3,000                                     | --     | --             | --                            | --                              |    |    |
|              |         | 131                                    | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,155            | --                                  | 1,650                                     | --     | --             | --                            | --                              |    |    |
|              |         | 131                                    | Aug. 31, 1971      | 30                         | --        | 127          | 26             | 328         | --            | 368                             | 510                        | 216           | --           | --                         | --        | 1,420            | 424                                 | 1,650                                     | 7.5    | --             | --                            | --                              |    |    |
| 608          | Qal Rg  | 120                                    | 1965               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,610            | --                                  | 2,300                                     | --     | --             | --                            | --                              |    |    |
|              |         | 120                                    | 1971               | --                         | --        | --           | --             | --          | --            | --                              | --                         | --            | --           | --                         | --        | 1,470            | --                                  | 2,100                                     | --     | --             | --                            | --                              |    |    |
|              |         | 120                                    | Aug. 18, 1971      | 34                         | --        | 161          | 31             | 310         | --            | 354                             | 380                        | 368           | --           | --                         | --        | 1,460            | 530                                 | 2,100                                     | 7.6    | --             | --                            | --                              |    |    |
| 609          | Qal Rg  | 124                                    | July 21, 1971      | --                         | --        | 150          | 37             | --          | --            | 320                             | 540                        | 300           | --           | --                         | --        | --               | 2,350                               | 7.9                                       | --     | --             | --                            |                                 |    |    |
| 611          | Qal Rg  | --                                     | Sept. 10, 1956     | --                         | --        | --           | --             | --          | --            | 355                             | --                         | 740           | --           | --                         | --        | --               | 515                                 | 3,940                                     | 7.8    | --             | --                            | --                              |    |    |
|              |         | --                                     | June 11, 1971      | --                         | --        | 190          | 52             | --          | --            | --                              | 206                        | 1,100         | 1,000        | --                         | --        | --               | 690                                 | 5,170                                     | 7.8    | --             | --                            | --                              |    |    |
| 612          | Qal Rg  | 178                                    | Sept. 3, 1956      | --                         | --        | --           | --             | --          | --            | 285                             | 426                        | 378           | --           | --                         | --        | --               | 440                                 | 2,350                                     | 7.7    | --             | --                            | --                              |    |    |
| 613          | Qal Rg  | 73                                     | July 13, 1956      | --                         | --        | --           | --             | --          | --            | 328                             | --                         | 182           | --           | --                         | --        | --               | 414                                 | 1,630                                     | 7.7    | --             | --                            | --                              |    |    |
| 616          | Qal Rg  | 120                                    | Apr. 20, 1977      | 32                         | --        | 108          | 18             | 255         | --            | 393                             | 276                        | 226           | .6           | .8                         | --        | 1,010            | 347                                 | 1,700                                     | 7.9    | --             | --                            | --                              |    |    |
| 618          | Qal Rg  | 98                                     | July 20, 1971      | --                         | --        | 240          | 52             | --          | --            | 302                             | 810                        | 620           | --           | --                         | --        | --               | 810                                 | 3,540                                     | 7.8    | --             | --                            | --                              |    |    |
| 619          | Qal Rg  | 71-80                                  | Oct. 12, 1973      | --                         | --        | 109          | 11             | 325         | --            | --                              | 382                        | 270           | .36          | --                         | --        | 1,268            | 330                                 | --  | 7.8    | 73             | --                            | --                              |    |    |
| 623          | Qtal 6  | 631-651                                | May 22, 1974       | --                         | .15       | 2,256        | 129            | 4,507       | --            | --                              | 844                        | 10,675        | .9           | --                         | --        | 18,738           | 6,170                               | --  | 7.4    | 65             | --                            | --                              |    |    |
|              |         | do                                     | do                 | 22                         | --        | 2,250        | 102            | 5,500       | --            | 26                              | 1,290                      | 12,400        | 1.8          | .6                         | --        | 21,900           | 6,700                               | >   | 12,000 | 7.1            | --                            | --                              |    |    |
|              |         | 504-524                                | May 23, 1974       | --                         | .5        | 1,720        | 112            | 3,790       | --            | --                              | 998                        | 8,500         | .8           | --                         | --        | 15,778           | 4,760                               | --  | 7.4    | 67             | --                            | --                              |    |    |
|              |         | do                                     | do                 | 2                          | --        | 1,600        | 68             | 3,680       | --            | 34                              | 770                        | 8,200         | 1.4          | .8                         | --        | 14,300           | 4,270                               | >   | 12,000 | 7.0            | --                            | --                              |    |    |
|              | Qal Rg  | 80-100                                 | June 15, 1974      | --                         | .01       | 58           | 7              | 225         | --            | --                              | 213                        | 210           | .0           | --                         | --        | 899              | 176                                 | --  | 1,459  | 8.5            | 77                            | --                              |    |    |
|              |         | do                                     | do                 | 29                         | --        | 56           | 8              | 236         | --            | 173                             | 268                        | 200           | .8           | >                          | .4        | --               | 880                                 | 174                                       | --     | 1,370          | 7.9                           | --                              | -- |    |
|              |         | 120-140                                | do                 | do                         | --        | .01          | 14             | 3           | 261           | --                              | --                         | 184           | 205          | .68                        | >         | .4               | --                                  | 847                                       | 48     | --             | 1,126                         | 8.7                             | 94 | -- |
|              |         | 120-140                                | do                 | do                         | 29        | --           | 11             | 2           | 220           | --                              | 173                        | 175           | 134          | 1.5                        | >         | .4               | --                                  | 660                                       | 37     | --             | 1,058                         | 8.3                             | -- | -- |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhm-cm at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-----|----------------|-------------------------------|---------------------------------|----|
| JL-49-30-623 | Qal Rg  | 160-180                                | June 15, 1974      | --                         | >0.02     | 21           | 3              | 369         | --            | --                              | 177                        | 375           | 0.68         | --                         | --        | 1,142            | 64                                  | 1,855                                     | 8.6 | 94             | --                            | --                              |    |
|              |         | 160-180                                | do                 | 26                         | --        | 21           | 2              | 353         | --            | 196                             | 178                        | 353           | 1.6          | < 0.4                      | --        | 1,030            | 61                                  | 1,660                                     | 8.2 | --             | --                            | --                              |    |
|              | Qal Rg  | 198                                    | do                 | --                         | --        | 24           | 2              | 232         | --            | --                              | 186                        | 175           | --           | --                         | --        | 813              | 70                                  | 1,180                                     | 9.2 | 90             | --                            | --                              |    |
|              | Qtal 6  | 229-249                                | do                 | --                         | >.02      | 74           | 52             | 1,266       | --            | --                              | 255                        | 1,999         | .12          | --                         | --        | 3,763            | 392                                 | 5,318                                     | 8.0 | 91             | --                            | --                              |    |
| 31-101       | Qal Rg  | 229-249                                | do                 | 19                         | --        | 140          | 9              | 960         | --            | 76                              | 235                        | 1,540         | 1.7          | <.4                        | --        | 2,940            | 388                                 | 4,270                                     | 7.5 | --             | --                            | --                              |    |
|              |         | 200                                    | Jan. 16, 1976      | 28                         | --        | 14           | 2              | 242         | --            | 174                             | 194                        | 164           | 1.1          | <.4                        | --        | 730              | 42                                  | 1,170                                     | 8.3 | --             | --                            | --                              |    |
|              | Qal Rg  | 50                                     | May 30, 1968       | --                         | --        | 585          | 133            | --          | --            | 288                             | 1,390                      | 2,380         | --           | --                         | --        | --               | 2,010                               | 9,340                                     | 7.4 | --             | --                            | --                              |    |
|              |         | 50                                     | May 31, 1968       | --                         | .009      | 775          | 37             | --          | --            | --                              | 1,417                      | 2,550         | >.01         | 1.43                       | --        | 6,849            | 2,090                               | 7,405                                     | 7.7 | --             | --                            | --                              |    |
|              | 50      | Dec. 17, 1969                          | --                 | --                         | 440       | 16           | --             | --          | 592           | 1,550                           | 1,570                      | --            | --           | --                         | --        | 1,580            | 7,405                               | 7.4                                       | --  | --             | --                            |                                 |    |
| 110          | Qal Rg  | --                                     | Aug. 28, 1956      | --                         | --        | --           | --             | --          | --            | 600                             | --                         | 920           | --           | --                         | --        | --               | 865                                 | 5,980                                     | 7.5 | --             | --                            | --                              |    |
| 113          | Qal Rg  | 100                                    | Sept. 3, 1956      | --                         | --        | --           | --             | --          | --            | 429                             | --                         | 2,640         | --           | --                         | --        | --               | 2,400                               | 9,740                                     | 7.5 | --             | --                            | --                              |    |
| 118          | Qal Rg  | 65                                     | do                 | --                         | --        | --           | --             | --          | --            | 393                             | --                         | 1,200         | --           | --                         | --        | --               | 1,260                               | 5,690                                     | 7.6 | --             | --                            | --                              |    |
| 124          | Qal Rg  | --                                     | Aug. 28, 1956      | --                         | --        | --           | --             | --          | --            | 383                             | --                         | 480           | --           | --                         | --        | --               | 598                                 | 3,030                                     | 7.4 | --             | --                            | --                              |    |
| 130          | Qal Rg  | --                                     | Aug. 18, 1971      | 42                         | --        | 246          | 110            | 816         | --            | 454                             | 790                        | 1,170         | --           | --                         | --        | 3,399            | 1,070                               | 4,400                                     | 7.4 | --             | --                            | --                              |    |
| 132          | Qtal 6  | 5,010-5,173                            | June 17, 1970      | --                         | 2.8       | 700          | 600            | --          | --            | 125                             | 1,280                      | 3,900         | --           | --                         | --        | --               | 1,300                               | --  | 7.6 | --             | --                            | --                              |    |
|              |         | 5,010-5,173                            | do                 | --                         | 1.2       | 900          | 350            | --          | --            | 55                              | 1,050                      | 4,100         | --           | --                         | --        | --               | 1,250                               | --  | 7.3 | --             | --                            | --                              |    |
|              |         | 5,010-5,173                            | do                 | --                         | .5        | 950          | 150            | --          | --            | 43                              | 720                        | 4,300         | --           | --                         | --        | --               | 1,100                               | --  | 7.1 | --             | --                            | --                              |    |
|              |         | 5,010-5,173                            | do                 | --                         | .3        | 1,250        | 300            | --          | --            | 30                              | 845                        | 4,850         | --           | --                         | --        | 9,140            | 1,550                               | --  | 6.6 | --             | --                            | --                              |    |
| 201          | Qtal 6  | 400                                    | May 16, 1958       | --                         | .03       | 364          | 6              | --          | 39            | 799                             | 2,670                      | 2,760         | .4           | --                         | --        | 5,140            | 1,140                               | --  | 8.2 | --             | --                            | --                              |    |
|              |         | 240                                    | May 15, 1974       | 22                         | --        | 396          | 62             | 1,350       | --            | 34                              | 264                        | 2,760         | 1.0          | .4                         | --        | 6,870            | 1,250                               | 7,100                                     | 7.1 | --             | --                            | --                              |    |
| 203          | Qtal 6  | 182                                    | Sept. 6, 1956      | 34                         | --        | 58           | 17             | 391         | --            | 147                             | 156                        | 550           | --           | 6.9                        | --        | 1,280            | 214                                 | 2,270                                     | 7.8 | 80             | --                            | --                              |    |
| 401          | Qal Rg  | 108                                    | July 30, 1956      | 36                         | --        | 159          | 29             | 243         | --            | 399                             | 388                        | 218           | --           | .5                         | 0.2       | 1,270            | 515                                 | 1,930                                     | 7.7 | 50             | --                            | --                              |    |
| 403          | Qal Rg  | 79                                     | Sept. 12, 1956     | --                         | --        | --           | --             | --          | --            | 381                             | --                         | 1,250         | --           | --                         | --        | --               | 1,230                               | 5,730                                     | 7.9 | --             | --                            | --                              |    |
|              |         | --                                     | Aug. 28, 1956      | --                         | --        | --           | --             | --          | --            | 405                             | --                         | 730           | --           | --                         | --        | --               | 1,050                               | 3,960                                     | 7.5 | --             | --                            | --                              |    |
| 409          | Qal Rg  | 90                                     | July 20, 1971      | --                         | --        | --           | --             | --          | --            | 492                             | 1,100                      | 1,100         | --           | --                         | --        | --               | 1,300                               | 5,620                                     | 7.5 | --             | --                            | --                              |    |
|              |         | 90                                     | Aug. 24, 1972      | --                         | --        | --           | --             | --          | --            | 522                             | 1,100                      | 1,100         | --           | --                         | --        | --               | 1,400                               | 5,870                                     | 7.6 | --             | --                            | --                              |    |
| 412          | Qal Rg  | 142                                    | Aug. 27, 1971      | 21                         | --        | 174          | 35             | 444         | --            | 366                             | 700                        | 365           | --           | --                         | --        | 1,921            | 578                                 | 2,400                                     | 7.7 | --             | --                            | --                              |    |
| 416          | Qal Rg  | 77                                     | Aug. 7, 1956       | --                         | --        | --           | --             | --          | --            | 320                             | --                         | 260           | --           | --                         | --        | --               | 490                                 | 1,850                                     | 8.1 | --             | --                            | --                              |    |
| 425          | Qal Rg  | 70                                     | July 20, 1971      | --                         | --        | --           | --             | --          | --            | 512                             | 660                        | 380           | --           | --                         | --        | --               | 540                                 | 3,020                                     | 7.9 | --             | --                            | --                              |    |
|              | 432     | Qal Rg                                 | 31                 | Jan. 20, 1951              | --        | --           | 79             | 43          | 761           | --                              | 500                        | 930           | 464          | --                         | --        | --               | 2,777                               | --  | --  | 8.1            | --                            | --                              | -- |
|              |         |  | do                 | do                         | --        | --           | 81             | 21          | 672           | --                              | 421                        | 525           | 592          | --                         | --        | --               | 2,312                               | --  | --  | 8.3            | 84                            | --                              | -- |
|              |         |  | 57                 | do                         | --        | --           | 73             | 41          | 653           | --                              | 495                        | 525           | 568          | --                         | --        | --               | 2,355                               | --  | --  | 8.0            | 80                            | --                              | -- |
|              |         |  | 65                 | do                         | --        | --           | 144            | 54          | 796           | --                              | 482                        | 600           | 880          | --                         | --        | --               | 2,956                               | --  | --  | 7.9            | 75                            | --                              | -- |
|              |         |  | 73                 | do                         | --        | --           | 450            | 116         | 897           | --                              | 287                        | 200           | 2,072        | --                         | --        | --               | 4,022                               | --  | --  | 7.9            | 55                            | --                              | -- |
|              |         |  | 81                 | do                         | --        | --           | 1,492          | 342         | 3,183         | --                              | 61                         | 300           | 7,482        | --                         | --        | --               | 11,860                              | --  | --  | 7.5            | 57                            | --                              | -- |
|              | 64      | Aug. 6, 1956                           | --                 | --                         | --        | --           | --             | --          | 461           | --                              | 1,200                      | --            | --           | --                         | --        | 890              | 3,680                               | 7.8                                       | --  | --             | --                            |                                 |    |
| 433          | Qal Rg  | 78                                     | Aug. 31, 1956      | --                         | --        | --           | --             | --          | --            | 412                             | --                         | 1,120         | --           | --                         | --        | --               | 1,410                               | 5,230                                     | 7.6 | --             | --                            | --                              |    |
| 434          | Qtal 6  | 8,710-8,777                            | May 2, 1968        | --                         | 84        | 7,612        | 2,180          | 85,148      | --            | 123                             | 832                        | 150,560       | --           | --                         | --        | 246,540          | 28,000                              | --  | 6.7 | --             | --                            | --                              |    |
|              |         | 4,430-4,461                            | June 11, 1968      | --                         | 188       | 5,280        | 1,507          | 64,405      | --            | 332                             | 1,210                      | 112,210       | --           | --                         | --        | 185,132          | 19,400                              | --  | 6.9 | --             | --                            | --                              |    |
| 436          | Qal Rg  | --                                     | Apr. 25, 1977      | 35                         | --        | 393          | 77             | 680         | --            | 520                             | 970                        | 940           | .4           | <.4                        | --        | 3,370            | 1,300                               | 4,600                                     | 7.7 | --             | --                            | --                              |    |
| 501          | Qal Rg  | 76                                     | Sept. 3, 1956      | --                         | --        | --           | --             | --          | --            | 378                             | 864                        | 1,120         | --           | --                         | --        | --               | 1,360                               | 5,010                                     | 7.5 | --             | --                            | --                              |    |
|              |         | 17                                     | Dec. 17, 1969      | --                         | --        | 116          | 25             | --          | --            | 418                             | 356                        | 160           | --           | --                         | --        | --               | 392                                 | 1,740                                     | 7.4 | --             | --                            | --                              |    |
|              |         | 42                                     | do                 | --                         | --        | 142          | 27             | --          | --            | 454                             | 398                        | 210           | --           | --                         | --        | --               | 466                                 | 1,990                                     | 7.9 | --             | --                            | --                              |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH     | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|--------|----------------|-------------------------------|---------------------------------|
| JL-49-31-516 | Qal Rg  | 80                                     | Sept. 3, 1956      | --                         | --        | --           | --             | --          | --            | 418                             | --                         | 630           | --           | --                         | --        | --               | 725                                 | 3,650                                    | 7.7    | --             | --                            | --                              |
|              |         | 80                                     | June 20, 1971      | --                         | --        | 240          | 61             | --          | --            | 350                             | 1,000                      | 750           | --           | --                         | --        | --               | 860                                 | 4,360                                    | 7.8    | --             | --                            | --                              |
| 520          | Qal Rg  | --                                     | May 18, 1977       | 35                         | --        | 391          | 52             | 443         | --            | 412                             | 900                        | 650           | 0.3          | 0.9                        | --        | 2,680            | 1,190                               | 3,550                                    | 7.8    | --             | --                            | --                              |
| 527          | Qal Rg  | 180                                    | Jan. 13, 1976      | 13                         | --        | 154          | 80             | 950         | --            | 124                             | 1,470                      | 850           | 1.1          | 3.6                        | --        | 3,580            | 710                                 | 5,010                                    | 8.1    | --             | --                            | --                              |
| 601          | Qtal 6  | 240                                    | May 16, 1958       | --                         | 0.2       | 400          | 9              | --          | --            | 244                             | 286                        | 2,010         | .4           | --                         | --        | 5,040            | 1,360                               | --                                       | 8.1    | --             | --                            | --                              |
|              |         | 240                                    | May 17, 1974       | .2                         | --        | 222          | 83             | 1,210       | --            | 34                              | 750                        | 1,940         | .8           | .6                         | --        | 4,230            | 900                                 | 5,900                                    | 6.9    | --             | --                            | --                              |
| 701          | Qal Rg  | 174                                    | May 11, 1957       | 33                         | --        | 196          | 35             | 444         | 7             | 343                             | 624                        | 498           | .6           | .5                         | 0.3       | 2,010            | 633                                 | 3,100                                    | 7.5    | 60             | --                            | --                              |
|              |         | 174                                    | July 21, 1971      | --                         | --        | 330          | 62             | --          | --            | 332                             | 950                        | 800           | --           | --                         | --        | --               | 1,100                               | 4,290                                    | 7.7    | --             | --                            | --                              |
| 705          | Qal Rg  | 130                                    | Apr. 20, 1977      | 30                         | --        | 159          | 28             | 246         | --            | 429                             | 424                        | 204           | .6           | 2.1                        | --        | 1,310            | 510                                 | 1,850                                    | 7.8    | --             | --                            | --                              |
| 710          | Qal Rg  | 130                                    | July 21, 1971      | --                         | --        | 190          | 37             | --          | --            | 406                             | 530                        | 340           | --           | --                         | --        | --               | 300                                 | 2,510                                    | 8.0    | --             | --                            | --                              |
|              |         | 130                                    | Apr. 20, 1977      | 33                         | --        | 182          | 37             | 312         | 37            | 410                             | 497                        | 347           | .4           | .4                         | --        | 1,620            | 610                                 | 2,350                                    | 7.9    | --             | --                            | --                              |
| 712          | Qal Rg  | 200                                    | Aug. 28, 1956      | --                         | --        | --           | --             | --          | --            | 304                             | --                         | 770           | --           | --                         | --        | --               | 582                                 | 3,540                                    | 7.6    | --             | --                            | --                              |
| 718          | Qal Rg  | 100                                    | Jan. 16, 1976      | 4                          | --        | 54           | 22             | 227         | --            | 212                             | 279                        | 186           | .4           | .4                         | --        | 880              | 226                                 | 1,480                                    | 8.0    | --             | --                            | --                              |
| 801          | Qal Rg  | 100                                    | July 20, 1971      | --                         | --        | 220          | 49             | --          | --            | 402                             | 730                        | 630           | --           | --                         | --        | --               | 420                                 | 3,650                                    | 7.8    | --             | --                            | --                              |
| 808          | Qal Rg  | 144                                    | Sept. 4, 1956      | --                         | --        | --           | --             | --          | --            | 304                             | --                         | 265           | --           | --                         | --        | --               | 610                                 | 2,010                                    | 7.7    | --             | --                            | --                              |
| 810          | Qal Rg  | 132                                    | Aug. 26, 1970      | 27                         | --        | 121          | 26             | 371         | 4             | 245                             | 365                        | 455           | .5           | .4                         | --        | 1,490            | 408                                 | 2,250                                    | --     | --             | --                            | --                              |
| 811          | Qal Rg  | 74                                     | Sept. 4, 1956      | --                         | --        | --           | --             | --          | --            | 360                             | --                         | 1,040         | --           | --                         | --        | --               | 1,400                               | 4,430                                    | 7.6    | --             | --                            | --                              |
| 813          | Qal Rg  | 100                                    | Aug. 28, 1956      | --                         | --        | --           | --             | --          | --            | 328                             | --                         | 260           | --           | --                         | --        | --               | 566                                 | 2,130                                    | 7.5    | --             | --                            | --                              |
|              |         | 100                                    | Apr. 20, 1977      | 30                         | --        | 254          | 46             | 369         | --            | 423                             | 700                        | 408           | .5           | 1                          | --        | 2,010            | 820                                 | 2,760                                    | 7.7    | --             | --                            | --                              |
| 815          | Qal Rg  | 85                                     | do                 | 33                         | --        | 280          | 48             | 370         | --            | 393                             | 740                        | 460           | .5           | 2                          | --        | 2,130            | 900                                 | 2,920                                    | 7.7    | --             | --                            | --                              |
| 816          | Qal Rg  | 79                                     | Sept. 4, 1956      | --                         | --        | --           | --             | --          | --            | 379                             | --                         | 520           | --           | --                         | --        | --               | 980                                 | 3,060                                    | 7.7    | --             | --                            | --                              |
|              |         | 79                                     | Aug. 26, 1970      | 12                         | --        | 245          | 62             | 315         | 9             | 250                             | 740                        | 426           | .7           | .4                         | --        | 1,920            | 870                                 | 2,660                                    | 7.3    | --             | --                            | --                              |
| 817          | Qal Rg  | 120                                    | Apr. 25, 1977      | 38                         | --        | 300          | 61             | 405         | --            | 460                             | 850                        | 459           | .5           | .4                         | --        | 2,350            | 1,020                               | 3,150                                    | 7.6    | --             | --                            | --                              |
| 819          | Qal Rg  | 110                                    | Sept. 5, 1956      | --                         | --        | --           | --             | --          | --            | 350                             | --                         | 260           | --           | --                         | --        | --               | 630                                 | 1,990                                    | 7.7    | --             | --                            | --                              |
| 824          | --      | --                                     | Aug. 31, 1956      | --                         | --        | --           | --             | --          | --            | 373                             | --                         | 282           | --           | --                         | --        | --               | 695                                 | 2,230                                    | 7.6    | --             | --                            | --                              |
| 825          | --      | --                                     | Sept. 5, 1956      | --                         | --        | --           | --             | --          | --            | 352                             | --                         | 1,010         | --           | --                         | --        | --               | 1,130                               | 4,220                                    | 7.5    | --             | --                            | --                              |
| 836          | Qtal 6  | 210                                    | Aug. 31, 1956      | --                         | --        | --           | --             | --          | --            | 296                             | --                         | 402           | --           | --                         | --        | --               | 533                                 | 2,400                                    | 7.6    | --             | --                            | --                              |
| 839          | Qal Rg  | 105                                    | Feb. 14, 1974      | 32                         | --        | 336          | 53             | 500         | --            | 311                             | 469                        | 960           | .6           | .4                         | --        | 2,500            | 1,060                               | 3,700                                    | 7.6    | --             | --                            | --                              |
| 845          | Qal Rg  | --                                     | Apr. 20, 1977      | 32                         | --        | 556          | 102            | 570         | --            | 366                             | 810                        | 1,390         | .3           | .4                         | --        | 3,630            | 1,810                               | 5,050                                    | 7.7    | --             | --                            | --                              |
| 847          | Qal Rg  | 90                                     | Aug. 27, 1969      | 40                         | --        | 360          | 70             | 550         | 9             | 530                             | 1,030                      | 640           | 1.2          | .4                         | --        | 2,960            | 1,190                               | 3,840                                    | 7.5    | --             | --                            | --                              |
| 901          | Qtal 6  | 324-344                                | Apr. 15, 1957      | 1                          | --        | --           | --             | 1,550       | --            | 41                              | 273                        | 3,400         | --           | --                         | --        | --               | 1,650                               | 10,000                                   | 7.2    | 67             | --                            | --                              |
|              |         | 324-344                                | do                 | 16                         | .1        | 534          | 103            | 1,485       | --            | 51                              | 275                        | 3,300         | --           | --                         | --        | 5,767            | 1,759                               | 10,200                                   | 7.4    | --             | --                            | --                              |
|              |         | 793-813                                | Apr. 17, 1957      | 31                         | .01       | 163          | 18             | 975         | --            | 65                              | 438                        | 4,480         | .8           | .5                         | --        | 3,140            | 480                                 | 5,370                                    | 7.8    | 82             | --                            | --                              |
|              |         | 793-813                                | do                 | 24                         | .05       | 170          | 18             | 978         | --            | 74                              | 479                        | 4,460         | --           | --                         | --        | 3,240            | 503                                 | 5,465                                    | 7.9    | --             | --                            | --                              |
|              |         | 1,325-1,345                            | Apr. 18, 1957      | --                         | --        | --           | --             | 2,910       | --            | 17                              | 791                        | 7,250         | --           | --                         | --        | --               | 4,570                               | 20,000                                   | 6.6    | 57             | --                            | --                              |
|              |         | 1,325-1,345                            | do                 | 18                         | .2        | 2,032        | 14             | 2,763       | --            | 22                              | 788                        | 7,300         | --           | --                         | --        | 12,940           | 5,083                               | 20,800                                   | 7.2    | --             | --                            | --                              |
|              |         | 1,596-1,616                            | Apr. 19, 1957      | --                         | --        | --           | --             | 4,490       | --            | 31                              | 1,110                      | 8,620         | --           | --                         | --        | --               | 3,610                               | 23,800                                   | 7.2    | 73             | --                            | --                              |
|              |         | 1,596-1,616                            | do                 | 16                         | .1        | 1,470        | 38             | 4,400       | --            | 34                              | --                         | 1,100         | 8,650        | --                         | --        | --               | 15,711                              | 3,831                                    | 25,450 | 7.5            | --                            | --                              |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)     | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------|--|--------------------|----------------------------|---------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-------|----------------|-------------------------------|---------------------------------|----|
| JL-49-31-902 | Qtal 6  | 315                                    | Mar. 4, 1964       | --                         | 0.10          | 111          | 24             | 130         | --            | 233                             | 188                        | 199           | 0.6          | 0.4                        | --        | 890              | 375                                 | 1,542                                    | 7.8   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 4, 1965       | --                         | .04           | 56           | 10             | 102         | --            | 226                             | 102                        | 86            | .6           | .4                         | --        | 580              | 182                                 | 888                                      | 7.8   | --             | --                            | --                              |    |
|              |         | 315                                    | do                 | --                         | .04           | 58           | 14             | 101         | --            | 227                             | 102                        | 85            | .5           | .4                         | --        | 590              | 201                                 | 905                                      | 7.9   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 7, 1967       | --                         | .04           | 54           | 13             | 104         | --            | 231                             | 90                         | 92            | .5           | .4                         | --        | 590              | 188                                 | 910                                      | 7.8   | --             | --                            | --                              |    |
|              |         | 315                                    | Feb. 12, 1968      | --                         | .06           | 55           | 11             | 106         | --            | 227                             | 100                        | 92            | .5           | .4                         | --        | 590              | 185                                 | 930                                      | 7.9   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 2, 1969       | --                         | .04           | 57           | 16             | 100         | --            | 229                             | 100                        | 86            | .6           | .4                         | --        | 590              | 198                                 | 924                                      | 7.7   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 9, 1970       | --                         | .02           | 130          | 26             | 141         | --            | 233                             | 220                        | 233           | .5           | .4                         | --        | 980              | 432                                 | 1,696                                    | 7.7   | --             | --                            | --                              |    |
|              |         | 315                                    | Aug. 25, 1970      | 31                         | --            | 131          | 25             | 138         | 5             | 235                             | 205                        | 237           | .4           | .4                         | --        | 890              | 430                                 | 1,600                                    | 7.8   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 20, 1971      | --                         | --            | 133          | 25             | 134         | --            | 234                             | 220                        | 237           | .4           | .4                         | --        | 990              | 438                                 | 1,705                                    | 7.7   | --             | --                            | --                              |    |
| 903          | Qal Eg  | 135                                    | Sept. 10, 1956     | --                         | --            | --           | --             | --          | --            | 321                             | --                         | 252           | --           | --                         | --        | 595              | 2,110                               | 7.7                                      | --    | --             | --                            |                                 |    |
| 910          | Qtal 6  | 310                                    | Mar. 4, 1964       | --                         | .20           | 83           | 19             | 118         | --            | 199                             | 177                        | 146           | .6           | .4                         | --        | 740              | 285                                 | 1,275                                    | 7.8   | --             | --                            | --                              |    |
|              |         | 310                                    | Jan. 4, 1965       | --                         | .29           | 78           | 16             | 113         | --            | 195                             | 154                        | 132           | .6           | .4                         | --        | 690              | 261                                 | 1,165                                    | 7.7   | --             | --                            | --                              |    |
|              |         | 310                                    | do                 | --                         | .46           | 66           | 12             | 112         | --            | 168                             | 132                        | 134           | .4           | .4                         | --        | 620              | 216                                 | 1,035                                    | 7.9   | --             | --                            | --                              |    |
|              |         | 310                                    | Jan. 7, 1967       | --                         | .14           | 72           | 17             | 109         | --            | 194                             | 164                        | 126           | .5           | .4                         | --        | 680              | 247                                 | 1,100                                    | 7.8   | --             | --                            | --                              |    |
|              |         | 310                                    | Feb. 12, 1968      | --                         | .58           | 31           | 9              | 97          | --            | 155                             | 50                         | 107           | .4           | .4                         | --        | 450              | 116                                 | 745                                      | 8.0   | --             | --                            | --                              |    |
|              |         | 310                                    | Jan. 2, 1969       | --                         | .30           | 39           | 8              | 174         | --            | 227                             | 117                        | 152           | .7           | .4                         | --        | 720              | 131                                 | 1,184                                    | 8.0   | --             | --                            | --                              |    |
| 911          | Qtal 6  | 315                                    | Mar. 4, 1964       | --                         | .06           | 54           | 12             | 104         | --            | 229                             | 108                        | 85            | .7           | .4                         | --        | 590              | 186                                 | 940                                      | 7.9   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 4, 1965       | --                         | .08           | 114          | 24             | 133         | --            | 231                             | 192                        | 209           | .6           | .4                         | --        | 900              | 385                                 | 1,576                                    | 7.7   | --             | --                            | --                              |    |
|              |         | 315                                    | do                 | --                         | .14           | 119          | 24             | 135         | --            | 229                             | 207                        | 211           | .5           | .4                         | --        | 930              | 398                                 | 1,576                                    | 7.8   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 7, 1967       | --                         | .04           | 117          | 25             | 133         | --            | 232                             | 176                        | 232           | .5           | .4                         | --        | 920              | 395                                 | 1,584                                    | 7.8   | --             | --                            | --                              |    |
|              |         | 315                                    | Feb. 12, 1968      | --                         | .22           | 122          | 26             | 137         | --            | 234                             | 184                        | 232           | .5           | .4                         | --        | 940              | 410                                 | 1,672                                    | 7.8   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 2, 1969       | --                         | .16           | 144          | 23             | 138         | --            | 233                             | 226                        | 249           | .6           | .4                         | --        | 1,020            | 457                                 | 1,804                                    | 7.7   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 9, 1970       | --                         | .02           | 56           | 12             | 105         | --            | 228                             | 99                         | 88            | .5           | .4                         | --        | 590              | 191                                 | 906                                      | 7.9   | --             | --                            | --                              |    |
|              |         | 315                                    | Jan. 20, 1971      | --                         | --            | 59           | 11             | 102         | --            | 228                             | 102                        | 89            | .5           | .4                         | --        | 590              | 192                                 | 903                                      | 7.8   | --             | --                            | --                              |    |
| 914          | Qtal 6  | 85                                     | May 16, 1974       | 22                         | --            | 138          | 43             | 311         | --            | 255                             | 322                        | 459           | .6           | .4                         | --        | 1,420            | 520                                 | 2,050                                    | 7.8   | --             | --                            | --                              |    |
| 32-301       | Qtal 6  | 643                                    | Apr. 29, 1952      | 14                         | --            | 50           | 24             | 786         | --            | 212                             | 661                        | 760           | --           | --                         | --        | 2,400            | 224                                 | 3,980                                    | 8.1   | 88             | --                            | --                              |    |
| 501          | Qtal 6  | 521                                    | Apr. 30, 1952      | 35                         | --            | 23           | 8              | 426         | --            | 204                             | 322                        | 365           | --           | .2                         | --        | 1,280            | 90                                  | 2,180                                    | 8.4   | 91             | --                            | --                              |    |
| 504          | Qtal 6  | 1,073                                  | Nov. 16, 1971      | --                         | .70           | 96           | 35             | 3,628       | --            | --                              | 2,212                      | 4,050         | 3.55         | --                         | --        | 10,176           | 384                                 | --                                       | 7.9   | 97             | --                            | --                              |    |
| 505          | Qtal 6  | 1,305                                  | Jan. 10, 1972      | --                         | .65           | 106          | 31             | 3,667       | --            | --                              | 2,241                      | 4,100         | 3.88         | --                         | --        | 10,300           | 394                                 | --                                       | 8.3   | 96             | --                            | --                              |    |
| 703          | Qtal 6  | 250                                    | June 18, 1967      | --                         | .03           | 18           | 5              | --          | --            | --                              | 113                        | 140           | .01          | --                         | --        | 435              | 66                                  | --                                       | 8.0   | --             | --                            | --                              |    |
| 705          | Qtal 6  | 261                                    | June 5, 1970       | 20                         | 1.6           | 370          | 138            | 489         | --            | --                              | 386                        | 1,405         | .91          | --                         | --        | 3,024            | 1,394                               | --                                       | 7.5   | 49             | --                            | --                              |    |
| 706          | Qtal 6  | 253                                    | do                 | 25                         | 1.6           | 152          | 44             | 300         | --            | --                              | 202                        | 590           | .94          | --                         | --        | 1,525            | 560                                 | --                                       | 7.7   | 60             | --                            | --                              |    |
| 39-102       | Qal Rg  | 125                                    | June 11, 1971      | --                         | --            | 290          | 63             | --          | --            | 61                              | 1,000                      | 780           | --           | --                         | --        | 990              | 4,100                               | 7.8                                      | --    | --             | --                            | --                              |    |
| 202          | Qtal 6  | 1,275-1,295                            | Mar. 11, 1957      | 22                         | .02           | 20           | .7             | 450         | 2.4           | 77                              | 696                        | 165           | 3.6          | 0                          | --        | 1,400            | 53                                  | 2,190                                    | 8.1   | 95             | --                            | --                              |    |
|              |         | 1,454-1,473                            | Apr. 10, 1957      | 25                         | --            | 15           | .4             | 384         | 2.0           | 88                              | 523                        | 178           | --           | 0                          | --        | 1,170            | 39                                  | 1,820                                    | 8.5   | 95             | --                            | --                              |    |
|              |         | 1,647                                  | Jan. 19, 1959      | 24                         | .02           | 12           | .3             | 366         | 1.8           | 98                              | 476                        | 180           | 3.4          | 0                          | 0.84      | 1,110            | 31                                  | 1,749                                    | 8.6   | --             | --                            | --                              |    |
|              |         | 1,647                                  | May 7, 1968        | --                         | .01           | 12           | .0             | --          | --            | --                              | 464                        | 185           | .02          | .14                        | --        | 1,109            | --                                  | --                                       | 8.7   | --             | --                            | --                              |    |
|              |         | 1,647                                  | Sept. 26, 1969     | --                         | .04           | 9            | 1              | 329         | --            | --                              | 438                        | 165           | 2.85         | 0                          | --        | 1,000            | 26                                  | --                                       | 9.3   | --             | --                            | --                              |    |
|              |         | 1,647                                  | Mar. 25, 1970      | 25                         | .04           | 10           | .5             | 455         | --            | --                              | 695                        | 165           | 2.5          | --                         | --        | 1,366            | 28                                  | --                                       | 8.9   | --             | --                            | --                              |    |
|              |         | 1,647                                  | Dec. 21, 1970      | --                         | .22           | 10           | .5             | 464         | --            | --                              | 735                        | 165           | 5.0          | --                         | --        | 1,413            | 26                                  | --                                       | 9.4   | --             | --                            | --                              |    |
|              |         | 1,647                                  | Mar. 11, 1971      | --                         | --            | 10           | .6             | --          | --            | --                              | 41                         | 650           | 170          | --                         | --        | --               | 28                                  | --                                       | 2,020 | 9.0            | --                            | --                              | -- |
|              |         | 1,647                                  | Mar. 25, 1971      | 31                         | --            | 8            | .5             | 479         | --            | --                              | 51                         | 740           | 169          | --                         | --        | 1,461            | 22                                  | --                                       | 1,750 | 9.2            | --                            | --                              | -- |
|              |         | 1,647                                  | Sept. 20, 1973     | 4                          | --            | 4            | 1              | 425         | --            | --                              | 24                         | 600           | 181          | 3.8                        | .6        | --               | 1,250                               | 11                                       | 2,240 | 9.7            | --                            | --                              | -- |
|              |         | 1,647                                  | Apr. 20, 1977      | 13                         | --            | 9            | 1              | 451         | --            | --                              | 27                         | 580           | 172          | 3.4                        | .4        | --               | 1,350                               | 28                                       | 1,980 | 9.2            | --                            | --                              | -- |
|              |         | 204                                    | Qal Rg             | 90                         | Sept. 5, 1956 | --           | --             | --          | --            | --                              | --                         | 422           | --           | 770                        | --        | --               | --                                  | 1,160                                    | 3,880 | 7.5            | --                            | --                              | -- |
|              |         |  |                    | 90                         | Dec. 9, 1969  | --           | --             | 222         | 39            | --                              | --                         | 484           | 622          | 400                        | --        | --               | --                                  | 714                                      | 2,890 | 7.5            | --                            | --                              | -- |
| 205          | Qal Rg  | 156                                    | Aug. 31, 1956      | --                         | --            | --           | --             | --          | --            | 298                             | --                         | 1,010         | --           | --                         | --        | 1,220            | 4,180                               | 7.7                                      | --    | --             | --                            |                                 |    |
|              |         | 6.5                                    | Dec. 9, 1969       | --                         | --            | 71           | 16             | --          | --            | 278                             | 274                        | 198           | --           | --                         | --        | 243              | 1,560                               | 7.8                                      | --    | --             | --                            | --                              |    |
|              |         | 13.2                                   | do                 | --                         | --            | 107          | 20             | --          | --            | 338                             | 302                        | 190           | --           | --                         | --        | 350              | 1,630                               | 8.1                                      | --    | --             | --                            | --                              |    |
|              |         | 41                                     | do                 | --                         | --            | 158          | 27             | --          | --            | 274                             | 448                        | 372           | --           | --                         | --        | 505              | 2,330                               | 7.4                                      | --    | --             | --                            | --                              |    |

See footnotes at end of table.



Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer       | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe)    | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |
|--------------|---------------|--|--------------------|----------------------------|--------------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|
| JL-49-39-207 | Qtal 6        | 1,357-1,381                            | June 6, 1959       | --                         | 0.02         | 30           | 2              | --          | --            | 63                              | 572                        | 159           | 0.7          | --                         | --        | 1,470            | 86                                  | --                                       | 7.0 | --             | --                            | --                              |
|              |               | 1,462-1,487                            | do                 | --                         | .02          | 14           | 0              | --          | --            | 65                              | 396                        | 198           | .7           | --                         | --        | 1,080            | 46                                  | --                                       | 7.9 | --             | --                            | --                              |
|              |               | 1,613-1,637                            | June 7, 1959       | --                         | .02          | 12           | 0              | --          | --            | 83                              | 286                        | 178           | .7           | --                         | --        | 958              | 26                                  | --                                       | 6.9 | --             | --                            | --                              |
|              |               | 1,704-1,728                            | June 9, 1959       | --                         | .02          | 11           | 1              | --          | --            | 110                             | 396                        | 210           | .7           | --                         | --        | 1,540            | 33                                  | --                                       | 7.9 | --             | --                            | --                              |
|              |               | 1,794-1,818                            | do                 | 18                         | --           | 17           | .8             | 448         | 2.3           | 97                              | 570                        | 242           | 2.9          | 0.2                        | --        | 1,350            | 46                                  | 2,120                                    | 8.0 | --             | --                            | --                              |
| 208          | Qtal 6        | 490-506                                | Feb. 1956          | --                         | --           | 144          | 17             | 1,102       | --            | --                              | 1,800                      | 625           | --           | --                         | --        | 3,556            | 428                                 | --                                       | --  | 87             | --                            | --                              |
|              |               | 715-747                                | do                 | --                         | --           | 380          | 59             | 2,308       | --            | --                              | 5,600                      | 213           | --           | --                         | --        | 7,486            | 1,192                               | --                                       | --  | 84             | --                            | --                              |
|              |               | 806-830                                | do                 | --                         | --           | 414          | 89             | 2,137       | --            | --                              | 5,400                      | 246           | --           | --                         | --        | 9,124            | 1,400                               | --                                       | --  | 81             | --                            | --                              |
|              |               | 1,003-1,017                            | do                 | --                         | --           | 413          | 77             | 2,446       | --            | --                              | 5,800                      | 410           | --           | --                         | --        | 9,114            | 1,348                               | --                                       | --  | 83             | --                            | --                              |
| 211          | Qal Rg        | 140                                    | Aug. 28, 1956      | --                         | --           | --           | --             | --          | --            | 323                             | --                         | 312           | --           | --                         | --        | 668              | 2,260                               | 7.5                                      | --  | --             | --                            |                                 |
| 214          | Qal Rg        | 84                                     | Sept. 5, 1956      | --                         | --           | --           | --             | --          | --            | 340                             | --                         | 3,390         | --           | --                         | --        | 1,890            | 11,000                              | 7.6                                      | --  | --             | --                            |                                 |
| 216          | Qal Rg        | 185                                    | Sept. 3, 1956      | --                         | --           | --           | --             | --          | --            | 240                             | --                         | 2,360         | --           | --                         | --        | --               | 1,680                               | 8,030                                    | 7.6 | --             | --                            | --                              |
|              |               | 40                                     | Jan. 13, 1976      | 13                         | --           | 88           | 15             | 204         | --            | 253                             | 264                        | 187           | .6           | .4                         | --        | 900              | 285                                 | 1,490                                    | 7.3 | --             | --                            | --                              |
| 222          | Qal Rg        | 140                                    | do                 | 29                         | --           | 344          | 64             | 760         | --            | 320                             | 670                        | 1,300         | .6           | 13                         | --        | 3,340            | 1,120                               | 5,160                                    | 7.5 | --             | --                            | --                              |
|              |               | 120                                    | June 11, 1971      | --                         | --           | 230          | 43             | --          | --            | 254                             | 680                        | 220           | --           | --                         | --        | --               | 760                                 | 2,740                                    | 7.7 | --             | --                            | --                              |
| 225          | Qal Rg        | 120                                    | Aug. 22, 1972      | --                         | --           | --           | --             | --          | --            | 264                             | 860                        | 1,500         | --           | --                         | --        | --               | 1,100                               | 6,200                                    | 7.6 | --             | --                            | --                              |
|              |               | 140                                    | do                 | --                         | --           | --           | --             | --          | --            | 359                             | --                         | 1,850         | --           | --                         | --        | --               | 1,275                               | 7,240                                    | 7.5 | --             | --                            | --                              |
| 303          | Qtal 6        | 328                                    | July 19, 1956      | 32                         | --           | 38           | 8.4            | 132         | 3.8           | 230                             | 103                        | 91            | .5           | --                         | --        | 522              | 129                                 | 851                                      | 8.0 | --             | --                            | --                              |
|              |               | 328                                    | Mar. 4, 1964       | --                         | .04          | 34           | 9              | 117         | --            | 220                             | 93                         | 76            | .7           | .4                         | --        | 550              | 121                                 | 844                                      | 7.9 | --             | --                            | --                              |
|              |               | 328                                    | Jan. 4, 1965       | --                         | .02          | 35           | 7              | 117         | --            | 210                             | 90                         | 75            | .6           | .4                         | --        | 540              | 115                                 | 808                                      | 7.9 | --             | --                            | --                              |
|              |               | 328                                    | do                 | --                         | .04          | 36           | 7              | 115         | --            | 207                             | 96                         | 73            | .5           | .4                         | --        | 540              | 117                                 | 792                                      | 8.0 | --             | --                            | --                              |
|              |               | 328                                    | Jan. 7, 1967       | --                         | .04          | 35           | 9              | 111         | --            | 211                             | 79                         | 78            | .5           | .4                         | --        | 520              | 122                                 | 815                                      | 8.0 | --             | --                            | --                              |
|              |               | 328                                    | Feb. 12, 1968      | --                         | .06          | 35           | 9              | 117         | --            | 211                             | 88                         | 80            | .5           | .4                         | --        | 540              | 124                                 | 830                                      | 8.0 | --             | --                            | --                              |
|              |               | 328                                    | Jan. 2, 1969       | --                         | .84          | 47           | 11             | 91          | --            | 168                             | 98                         | 87            | .5           | .4                         | --        | 500              | 165                                 | 820                                      | 8.0 | --             | --                            | --                              |
|              |               | 328                                    | Jan. 9, 1970       | --                         | .02          | 39           | 7              | 114         | --            | 210                             | 96                         | 77            | .6           | .4                         | --        | 540              | 128                                 | 816                                      | 8.0 | --             | --                            | --                              |
|              |               | 328                                    | Jan. 20, 1971      | --                         | --           | 40           | 8              | 112         | --            | 209                             | 97                         | 80            | .5           | .4                         | --        | 550              | 134                                 | 825                                      | 8.1 | --             | --                            | --                              |
|              |               | 304                                    | Qtal 6             | 350                        | Mar. 4, 1964 | --           | .02            | 32          | 8             | 175                             | --                         | 224           | 116          | 144                        | .7        | .4               | --                                  | 700                                      | 116 | 1,170          | 8.0                           | --                              |
| 350          | Jan. 4, 1965  |  |                    | --                         | .02          | 33           | 8              | 178         | --            | 223                             | 116                        | 147           | .6           | .4                         | --        | 710              | 114                                 | 1,152                                    | 8.0 | --             | --                            | --                              |
| 350          | do            |  |                    | --                         | .02          | 35           | 8              | 182         | --            | 222                             | 119                        | 149           | .5           | .4                         | --        | 720              | 118                                 | 1,135                                    | 8.1 | --             | --                            | --                              |
| 350          | Jan. 9, 1967  |  |                    | --                         | .02          | 33           | 9              | 178         | --            | 226                             | 96                         | 154           | .5           | .4                         | --        | 700              | 121                                 | 1,146                                    | 8.0 | --             | --                            | --                              |
| 350          | Feb. 12, 1968 |  |                    | --                         | .06          | 37           | 9              | 179         | --            | 227                             | 113                        | 158           | .5           | .4                         | --        | 720              | 129                                 | 1,200                                    | 8.0 | --             | --                            | --                              |
| 350          | Jan. 2, 1969  |  |                    | --                         | .42          | 37           | 9              | 107         | --            | 209                             | 88                         | 76            | .9           | .4                         | --        | 530              | 130                                 | 820                                      | 8.0 | --             | --                            | --                              |
| 350          | Jan. 9, 1970  |  |                    | --                         | .02          | 40           | 8              | 182         | --            | 226                             | 118                        | 157           | .5           | .4                         | --        | 730              | 135                                 | 1,166                                    | 8.2 | --             | --                            | --                              |
| 350          | Jan. 20, 1971 |  |                    | --                         | --           | 41           | 8              | 177         | --            | 227                             | 114                        | 160           | .4           | .4                         | --        | 730              | 137                                 | 1,192                                    | 8.0 | --             | --                            | --                              |
| 308          | Qal Rg        | 169                                    | May 4, 1977        | 35                         | --           | 257          | 40             | 300         | --            | 384                             | 610                        | 361           | .4           | .4                         | --        | 1,790            | 810                                 | 2,500                                    | 7.7 | --             | --                            | --                              |
| 311          | Qal Rg        | 171                                    | Aug. 10, 1956      | --                         | --           | --           | --             | --          | --            | 472                             | --                         | 552           | --           | --                         | --        | --               | 340                                 | 2,210                                    | 7.4 | --             | --                            | --                              |
| 313          | Qal Rg        | 194                                    | do                 | --                         | --           | --           | --             | --          | --            | 221                             | --                         | 165           | --           | --                         | --        | --               | 134                                 | 1,070                                    | 8.2 | --             | --                            | --                              |
| 315          | Qal Rg        | 200                                    | Aug. 31, 1956      | --                         | --           | --           | --             | --          | --            | 336                             | 521                        | 442           | --           | --                         | --        | --               | 760                                 | 2,690                                    | 7.7 | --             | --                            | --                              |
| 317          | Qtal 6        | 217                                    | May 4, 1977        | 35                         | --           | 236          | 36             | 320         | --            | 248                             | 550                        | 382           | .5           | .8                         | --        | 1,770            | 740                                 | 2,500                                    | 7.6 | --             | --                            | --                              |
| 318          | Qal Rg        | 204                                    | Aug. 6, 1956       | --                         | --           | --           | --             | --          | --            | 233                             | --                         | 150           | --           | --                         | --        | --               | 130                                 | 1,130                                    | 8.5 | --             | --                            | --                              |
| 319          | Qal Rg        | 160                                    | Aug. 31, 1956      | --                         | --           | --           | --             | --          | --            | 363                             | --                         | 298           | --           | --                         | --        | --               | 740                                 | 2,170                                    | 7.8 | --             | --                            | --                              |
| 322          | Qal Rg        | 192                                    | Sept. 6, 1956      | --                         | --           | --           | --             | --          | --            | 322                             | --                         | 600           | --           | --                         | --        | --               | 660                                 | 3,120                                    | 7.7 | --             | --                            | --                              |
| 328          | Qal Rg        | 176                                    | July 20, 1971      | --                         | --           | 290          | 42             | --          | --            | 396                             | 840                        | 510           | --           | --                         | --        | --               | 890                                 | 3,380                                    | 7.7 | --             | --                            | --                              |
| 329          | Qal Rg        | 153                                    | Aug. 31, 1956      | --                         | --           | --           | --             | --          | --            | 355                             | --                         | 750           | --           | --                         | --        | --               | 870                                 | 3,770                                    | 7.6 | --             | --                            | --                              |
|              |               | 153                                    | Dec. 9, 1969       | --                         | --           | 135          | 31             | --          | --            | 212                             | 560                        | 485           | --           | --                         | --        | --               | 464                                 | 2,780                                    | 7.7 | --             | --                            | --                              |
|              |               | 153                                    | July 20, 1971      | --                         | --           | 380          | 50             | --          | --            | 448                             | 1,000                      | 900           | --           | --                         | --        | --               | 1,100                               | 4,710                                    | 7.7 | --             | --                            | --                              |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (microhmhos at 25°C) | pH    | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |    |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|---|-------|----------------|-------------------------------|---------------------------------|----|
| JL-49-39-331 | Qal Rg  | 114                                    | Sept. 5, 1956      | --                         | --        | --           | --             | --          | --            | 333                             | --                         | 1,570         | --           | --                         | --        | --               | 1,380                               | 5,920                                     | 7.5   | --             | --                            | --                              |    |
|              |         | 114                                    | Jan. 14, 1976      | 14                         | --        | 102          | 24             | 285         | --            | 296                             | 341                        | 271           | 0.6          | < 0.4                      | --        | 1,180            | 354                                 | 1,900                                     | 8.3   | --             | --                            | --                              |    |
| 332          | Qal Rg  | 147                                    | Sept. 5, 1956      | --                         | --        | --           | --             | --          | --            | 370                             | --                         | 325           | --           | --                         | --        | --               | 580                                 | 2,250                                     | 7.6   | --             | --                            | --                              |    |
| 333          | Qal Rg  | 147                                    | do                 | --                         | --        | --           | --             | --          | --            | 313                             | --                         | 448           | --           | --                         | --        | --               | 510                                 | 2,680                                     | 7.8   | --             | --                            | --                              |    |
| 334          | Qal Rg  | 187                                    | July 1956          | 33                         | --        | 152          | 29             | 342         | --            | 294                             | 389                        | 418           | --           | .5                         | --        | 1,510            | 498                                 | 2,400                                     | 7.6   | --             | --                            | --                              |    |
|              |         | 187                                    | July 21, 1971      | --                         | --        | 330          | 70             | --          | --            | 360                             | 950                        | 880           | --           | --                         | --        | --               | 1,100                               | 4,490                                     | 7.7   | --             | --                            | --                              |    |
|              |         | 187                                    | Aug. 24, 1972      | --                         | --        | --           | --             | --          | --            | 296                             | 520                        | 520           | --           | --                         | --        | --               | 720                                 | 2,950                                     | 8.0   | --             | --                            | --                              |    |
| 344          | Qal Rg  | 110                                    | May 18, 1961       | 16                         | --        | 114          | 13             | 175         | 10            | 164                             | 278                        | 218           | --           | --                         | --        | 1,002            | --                                  | --  | 7.0   | 52             | --                            | --                              |    |
|              |         | 237                                    | do                 | 14                         | --        | 78           | 10             | 130         | 10            | 176                             | 202                        | 125           | --           | --                         | --        | --               | 741                                 | --  | --    | 7.0            | 53                            | --                              | -- |
|              |         | 350-370                                | do                 | 12                         | --        | 66           | 9              | 145         | 8             | 132                             | 198                        | 149           | --           | --                         | --        | --               | 850                                 | --  | --    | 7.0            | 60                            | --                              | -- |
| 345          | Qal Rg  | 130-140                                | June 24, 1961      | 14                         | --        | 129          | 33             | 320         | 12            | 274                             | 379                        | 390           | --           | --                         | --        | 1,597            | --                                  | --  | 6.8   | 60             | --                            | --                              |    |
|              |         | 300                                    | do                 | 10                         | --        | 72           | 13             | 175         | 8             | 210                             | 160                        | 202           | --           | --                         | --        | --               | 875                                 | --  | --    | 7.0            | 61                            | --                              | -- |
| 345          | Qal 6   | 380-400                                | do                 | 12                         | --        | 75           | 15             | 200         | 10            | 208                             | 185                        | 237           | --           | --                         | --        | 957              | --                                  | --  | 7.0   | 62             | --                            | --                              |    |
|              |         | 107-123                                | Jan. 12, 1970      | 61                         | 0.10      | 134          | 9              | 650         | --            | 240                             | 407                        | 408           | --           | --                         | --        | 1,846            | 444                                 | --  | 8.4   | --             | --                            | --                              |    |
| 346          | Qal Rg  | 257-291                                | do                 | 23                         | .05       | 84           | 4              | 200         | --            | 240                             | 120                        | 116           | --           | --                         | --        | 772              | 252                                 | --  | 8.3   | --             | --                            | --                              |    |
|              |         | 380-396                                | do                 | 34                         | .05       | 63           | 4              | 260         | --            | 216                             | 191                        | 125           | --           | --                         | --        | 869              | 215                                 | --  | 8.2   | --             | --                            | --                              |    |
|              |         | 527-543                                | do                 | 10                         | .05       | 167          | 5              | 380         | --            | 216                             | 177                        | 132           | --           | --                         | --        | 982              | 248                                 | --  | 8.3   | --             | --                            | --                              |    |
| 40-102       | Qtal 6  | 198                                    | Sept. 3, 1956      | --                         | --        | --           | --             | --          | --            | 318                             | --                         | 540           | --           | --                         | --        | --               | 680                                 | 2,980                                     | 7.7   | --             | --                            | --                              |    |
|              |         | 198                                    | Oct. 25, 1973      | --                         | .04       | 192          | 41             | 716         | --            | --                              | 950                        | 750           | 50           | --                         | --        | --               | 2,981                               | 650                                       | 3,100 | 7.7            | 75                            | --                              | -- |
| 104          | Qtal 6  | 400                                    | Feb. 5, 1960       | --                         | .13       | 420          | 165            | --          | --            | --                              | 466                        | 1,906         | --           | --                         | --        | 5,120            | 1,730                               | --  | 7.4   | --             | --                            | --                              |    |
|              |         | 400                                    | Jan. 16, 1976      | 30                         | --        | 441          | 170            | 770         | --            | 73                              | 426                        | 2,100         | .3           | < .4                       | --        | 3,470            | 1,800                               | 6,300                                     | 7.9   | --             | --                            | --                              |    |
| 105          | Qal Rg  | 108-126                                | Jan. 27, 1970      | --                         | .05       | 554          | 84             | 250         | --            | 336                             | 526                        | 441           | --           | --                         | --        | 2,136            | 1,200                               | 2,300                                     | 8.0   | --             | --                            | --                              |    |
|              |         | 234-252                                | do                 | --                         | .05       | 227          | 58             | 280         | --            | 308                             | 325                        | 246           | --           | --                         | --        | 1,397            | 554                                 | 1,550                                     | 8.2   | --             | --                            | --                              |    |
|              |         | 318-336                                | do                 | --                         | .05       | 143          | 23             | 390         | --            | 308                             | 293                        | 242           | --           | --                         | --        | 1,348            | 314                                 | 1,500                                     | 8.5   | --             | --                            | --                              |    |
|              |         | 549-567                                | do                 | --                         | .05       | 151          | 37             | 470         | --            | 266                             | 322                        | 300           | --           | --                         | --        | 1,447            | 365                                 | 1,600                                     | 8.1   | --             | --                            | --                              |    |
| 106          | Qal Rg  | 190                                    | July 13, 1953      | --                         | --        | 348          | --             | 460         | --            | --                              | --                         | --            | --           | --                         | --        | 2,310            | --                                  | 3,590                                     | 7.3   | 54             | --                            | --                              |    |
|              |         | 428                                    | Sept. 15, 1960     | 8                          | .21       | 36           | 7              | 100         | 8             | 194                             | 100                        | 59            | --           | --                         | --        | 530              | 43                                  | 820                                       | 7.0   | 63             | --                            | --                              |    |
|              |         | 428                                    | Apr. 25, 1962      | 29                         | --        | 40           | 11             | 208         | 3.6           | 218                             | 143                        | 195           | 1.4          | .5                         | --        | 738              | 145                                 | 1,250                                     | 7.7   | --             | --                            | --                              |    |
| 405          | Qtal 6  | 428                                    | Feb. 11, 1976      | 28                         | --        | 91           | 18             | 287         | --            | 214                             | 192                        | 387           | 1.1          | < .4                       | --        | 1,110            | 304                                 | 1,860                                     | 7.7   | --             | --                            | --                              |    |
|              |         | 250-270                                | Mar. 7, 1961       | 14                         | --        | 54           | 7              | 181         | 8             | 142                             | 241                        | 112           | --           | --                         | --        | 800              | 61                                  | --  | 6.8   | 69             | --                            | --                              |    |
|              |         | 390-410                                | do                 | 10                         | --        | 40           | 5              | 150         | 5             | 144                             | 159                        | 120           | --           | --                         | --        | 700              | 45                                  | --  | 6.8   | 72             | --                            | --                              |    |
| 412          | Qal Rg  | 160                                    | May 17, 1974       | 6                          | --        | 13           | 3              | 209         | --            | 178                             | 55                         | 205           | 1.4          | .4                         | --        | 580              | 45                                  | 1,040                                     | 8.1   | --             | --                            | --                              |    |
|              |         | 300                                    | do                 | 24                         | --        | 48           | 13             | 253         | --            | 224                             | 177                        | 255           | 1.6          | .2                         | --        | 880              | 176                                 | 1,460                                     | 7.7   | --             | --                            | --                              |    |
| 416          | Qal Rg  | 128                                    | 1956               | --                         | --        | 573          | --             | 582         | --            | --                              | --                         | --            | --           | --                         | 4,180     | --               | 6,300                               | --  | 47    | --             | --                            |                                 |    |
| 502          | Qtal 6  | 257                                    | Feb. 11, 1976      | 30                         | --        | 46           | 9              | 206         | 3             | 282                             | 173                        | 147           | 1.2          | < .4                       | --        | 750              | 151                                 | 1,170                                     | 8.0   | --             | --                            | --                              |    |
| 503          | Qtal 6  | 420                                    | July 19, 1956      | 30                         | --        | 120          | 30             | 362         | --            | 209                             | 237                        | 560           | .9           | .2                         | --        | 1,444            | 423                                 | 2,500                                     | 7.8   | --             | --                            | --                              |    |
| 512          | Qtal 6  | 190-210                                | Aug. 19, 1976      | 27                         | --        | 66           | 18             | 386         | 6             | 251                             | 306                        | 419           | .6           | .4                         | --        | 1,350            | 240                                 | 2,160                                     | 8.0   | --             | --                            | --                              |    |
|              |         | 190-210                                | do                 | --                         | 8.4       | 68           | 15             | 460         | --            | --                              | 414                        | 420           | .62          | --                         | --        | 1,633            | 232                                 | 2,000                                     | 8.5   | 84             | --                            | --                              |    |
|              |         | 400-420                                | Aug. 18, 1976      | 30                         | --        | 156          | 42             | 433         | 10            | 178                             | 307                        | 760           | .3           | .4                         | --        | 1,830            | 560                                 | 2,920                                     | 7.6   | --             | --                            | --                              |    |
|              |         | 400-420                                | do                 | --                         | 4.0       | 164          | 36             | 563         | --            | --                              | 518                        | 770           | .27          | --                         | --        | 2,244            | 560                                 | 2,650                                     | 8.1   | 73             | --                            | --                              |    |
|              |         | 670-690                                | Aug. 17, 1976      | 32                         | --        | 120          | 30             | 405         | 10            | 138                             | 273                        | 650           | .4           | .4                         | --        | 1,590            | 422                                 | 2,600                                     | 7.7   | --             | --                            | --                              |    |
|              |         | 670-690                                | do                 | --                         | 11.0      | 120          | 29             | 477         | --            | --                              | 403                        | 650           | .34          | --                         | --        | 1,836            | 420                                 | 2,850                                     | 8.1   | 75             | --                            | --                              |    |
| 960-980      | Qtal 6  | 960-980                                | do                 | 29                         | --        | 360          | 95             | 1,320       | 16            | 73                              | 423                        | 3,010         | .5           | .4                         | --        | 5,500            | 1,290                               | 8,200                                     | 7.3   | --             | --                            | --                              |    |
|              |         | 960-980                                | do                 | --                         | 2.1       | 352          | 90             | 1,449       | --            | --                              | 576                        | 2,650         | .39          | --                         | --        | 5,193            | 1,250                               | 9,500                                     | 7.7   | 77             | --                            | --                              |    |
| 513          | Qtal 6  | 250                                    | June 1, 1977       | 38                         | --        | 203          | 43             | 660         | --            | 334                             | 760                        | 780           | 1.1          | 4.0                        | --        | 2,650            | 680                                 | 3,720                                     | 7.9   | --             | --                            | --                              |    |
| 601          | Qtal 6  | 350                                    | Apr. 6, 1960       | 42                         | --        | 47           | 16             | 440         | --            | 180                             | 201                        | 535           | --           | .8                         | --        | 1,390            | 184                                 | 2,400                                     | 7.5   | --             | --                            | --                              |    |
|              |         | 250                                    | May 18, 1974       | 21                         | --        | 55           | 19             | 427         | --            | 201                             | 172                        | 560           | 2.2          | .4                         | --        | 1,360            | 217                                 | 2,290                                     | 7.7   | --             | --                            | --                              |    |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well            | Aquifer          | Depth of Well or sampled interval (ft)  | Date of collection  | Silica (SiO <sub>2</sub> )                         | Iron (Fe)  | Calcium (Ca)   | Magnesium (Mg)                                       | Sodium (Na)  | Potassium (K)                                      | Bicarbonate (HCO <sub>3</sub> )                      | Sulfate (SO <sub>4</sub> )   | Chloride (Cl)  | Fluoride (F)   | Nitrate (NO <sub>3</sub> )                         | Boron (B)  | Dissolved solids   | Total hardness as CaCO <sub>3</sub>                | Specific conductance (microhmhos at 25°C)                   | pH   | Percent sodium                                     | Sodium adsorption ratio (SAR)                      | Residual sodium carbonate (RSC) |
|-----------------|------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|---------------------------------|
| JL-49-40-602    | Qcal 6           | 350   | Feb. 11, 1976   | 44   | --   | 86   | 4  | 331  | 12   | 192  | 205  | 436  | 1.4  | < 0.4  | --   | 1,210  | 231  | 1,980   | 8.0  | --   | --   | --                              |
| 707             | Qal Rg           | 40<br>140   | Jan. 14, 1976<br>do   | 14<br>17   | --   | 91<br>420  | 18<br>85   | 169<br>990   | --   | 282<br>437   | 240<br>1,310   | 145<br>1,330   | .8<br>.4   | < .4<br>3.4  | --   | 820<br>4,370   | 302<br>1,400                                       | 1,290<br>5,980  | 8.3<br>8.0   | --   | --   | --                              |
| 710             | Qcal 6           | 234   | --  | --   | --   | 223  | 15   | 379  | 9.8  | 344  | 433  | 505  | --   | ≤ 10   | --   | 1,694  | --   | 2,733   | 8.1  | 57   | 6.6  | --                              |
| 712             | Qcal 6           | 232   | June 1, 1977  | 33   | --   | 246  | 31   | 309  | --   | 321  | 530  | 452  | .3   | < .4   | --   | 1,750  | 740  | 2,520   | 7.7  | --   | --   | --                              |
| 801             | Qal Rg<br>Qcal 6 | 182-214<br>314-338<br>419-443<br>524-543<br>636-660<br>737-761<br>846-875<br>973-1,002<br>1,078-1,104 | June 23, 1959<br>do<br>do<br>do<br>do<br>do<br>do<br>do<br>do | --<br>--<br>--<br>--<br>--<br>--<br>--<br>--<br>-- | 0.02<br>.02<br>.02<br>.02<br>.02<br>.02<br>.02<br>.02<br>.02 | 22<br>210<br>1,128<br>1,248<br>1,340<br>1,840<br>328<br>408<br>651 | 0<br>9<br>138<br>240<br>234<br>332<br>29<br>65<br>95 | --<br>--<br>--<br>--<br>--<br>--<br>--<br>--<br>-- | --<br>--<br>--<br>--<br>--<br>--<br>--<br>--<br>-- | 217<br>239<br>89<br>61<br>52<br>38<br>52<br>72<br>79 | 80<br>320<br>480<br>560<br>800<br>1,080<br>1,086<br>1,730<br>4,560 | 89<br>890<br>4,870<br>6,930<br>7,560<br>9,400<br>2,890<br>4,200<br>6,800 | .5<br>.5<br>.8<br>1.0<br>1.0<br>1.1<br>.6<br>.6<br>1.2 | --<br>--<br>--<br>--<br>--<br>--<br>--<br>--<br>-- | --<br>2,559<br>10,769<br>13,768<br>15,500<br>19,400<br>6,690<br>10,900<br>18,700 | 52<br>564<br>3,390<br>4,210<br>4,320<br>5,980<br>940<br>1,290<br>2,020 | --<br>--<br>--<br>--<br>--<br>--<br>--<br>--<br>-- | 7.3<br>7.3<br>7.1<br>7.1<br>7.4<br>7.2<br>7.6<br>7.6<br>7.2 | --<br>--<br>--<br>--<br>--<br>--<br>--<br>--<br>-- | --<br>--<br>--<br>--<br>--<br>--<br>--<br>--<br>-- | --<br>--<br>--<br>--<br>--<br>--<br>--<br>--<br>-- |                                 |
| 803             | Qcal 6           | 213   | --  | --   | --   | 274  | 43   | 357  | 7.8  | 334  | 538  | 569  | --   | ≤ 10   | --   | 1,959  | --   | 3,160   | 7.9  | 47   | 5.3  | --                              |
| 806             | Qal Rg           | 200   | May 9, 1972   | 32   | --   | 262  | 67   | 500  | --   | 212  | 760  | 760  | .8   | 2.0  | --   | 2,490  | 930  | 3,500   | 7.6  | --   | --   | --                              |
| 808             | Qal Rg           | 200   | Nov. 10, 1951   | --   | --   | 208  | --   | 258  | --   | --   | --   | --   | --   | --   | --   | 1,390  | --   | 2,080   | 7.6  | 52   | --   | --                              |
| 810             | Qal Rg           | 205   | Apr. 6, 1964  | --   | --   | 437  | 48   | 580  | --   | 340  | 521  | 885  | --   | --   | --   | 2,750  | 887  | --  | 8.0  | 55   | --   | --                              |
| 811             | Qal Rg           | 44-54<br>66-76<br>110-120<br>121  | June 24, 1964<br>do<br>do<br>do                               | --<br>--<br>--<br>--                               | --<br>--<br>--<br>--   | 398<br>347<br>146<br>345   | --<br>--<br>--<br>77                                 | --<br>--<br>--<br>580                              | --<br>--<br>--<br>--                               | --<br>--<br>--<br>497                                | 761<br>567<br>391<br>890   | 945<br>940<br>390<br>810   | --<br>--<br>--<br>.7                                   | --<br>--<br>--<br>2.0                              | --<br>--<br>--<br>--   | 3,176<br>2,993<br>1,792<br>2,990                                       | --<br>--<br>--<br>1,180                            | --<br>--<br>--<br>4,000                                     | --<br>--<br>--<br>7.6                              | --<br>70<br>70<br>7.6                              | --<br>--<br>--<br>--                               | --<br>--<br>--<br>--            |
| 812             | Qal Rg           | 152   | Apr. 6, 1964  | --   | --   | 392  | 44   | 230  | --   | 292  | 500  | 510  | --   | --   | --   | 1,730  | 798  | --  | 8.3  | 33   | --   | --                              |
| 813             | Qal Rg           | 159<br>159  | June 6, 1968<br>May 9, 1972                                   | --<br>32   | --<br>--   | --<br>245  | --<br>59   | --<br>530  | --<br>--   | --<br>268  | 682<br>810   | 790<br>690   | --<br>.8   | --<br>2.0  | --<br>--   | 2,554<br>2,500   | 888<br>850   | --<br>3,470   | 7.7<br>7.9   | 20<br>--   | --<br>--   | --<br>--                        |
| HUDSPETH COUNTY |                  |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |                                 |
| PD-48-33-707    | Qal Rg           | 63<br>63  | 1951<br>May 1955  | --<br>--   | --<br>--   | 125<br>76  | 36<br>54   | 498<br>667   | --<br>--   | --<br>242  | --<br>437  | 605<br>867   | --<br>--   | --<br>--   | --<br>--   | 1,960<br>2,271   | --<br>--   | 3,500<br>--   | --<br>--   | 70<br>78   | --<br>14.5   | --<br>--                        |
| 711             | Qal Rg           | 125   | June 15, 1955   | --   | --   | 188  | 105  | 1,058  | --   | --   | --   | --   | --   | --   | --   | 3,513  | --   | 5,500   | --   | 72   | 15.3   | --                              |
| 712             | Qal Rg           | 90  | do  | --   | --   | 160  | 118  | 1,007  | --   | --   | --   | --   | --   | --   | --   | 3,197  | --   | 5,000   | --   | 71   | 14.6   | --                              |
| 713             | Qcal 6           | 225   | do  | --   | --   | 136  | 116  | 1,346  | --   | --   | --   | --   | --   | --   | --   | 4,028  | --   | 6,300   | --   | 78   | 20.9   | --                              |
| 714             | Qal Rg           | 90  | do  | --   | --   | 124  | 131  | 1,012  | --   | --   | --   | --   | --   | --   | --   | 3,197  | --   | 5,000   | --   | 72   | 14.6   | --                              |
| 34-801          | Qcal 6           | 906   | Dec. 11, 1959   | --   | --   | 77   | 16   | 837  | --   | 154  | 1,440  | 310  | 4.4  | 4.2  | --   | 2,780  | 258  | 3,730   | 7.0  | 88   | 24.2   | --                              |
| 41-102          | Qal Rg           | 130<br>130  | May 1955<br>Apr. 8, 1974                                      | --<br>28   | --<br>--   | 112<br>312   | 82<br>65   | 943<br>860   | --<br>--   | 294<br>406   | 548<br>1,040   | 1,219<br>1,090   | --<br>1.9  | --<br>1.0  | --<br>--   | 3,116<br>3,600   | --<br>1,050  | 4,800<br>4,730  | --<br>7.6  | 76<br>64   | 16.7<br>11.5                                       | --<br>--                        |
| 103             | Qal Rg           | 100   | do  | 37   | --   | 334  | 83   | 1,090  | --   | 381  | 1,160  | 1,480  | 2.1  | .8   | --   | 4,370  | 1,180  | 5,800   | 7.6  | 67   | 13.8   | --                              |
| 104             | Qal Rg           | 189   | May 1955  | --   | --   | 86   | 73   | 736  | --   | 329  | 456  | 957  | --   | --   | --   | 2,470  | --   | 3,800   | --   | 76   | 15.5   | --                              |
| 202             | Qal Rg           | 132<br>132  | do<br>July 23, 1956   | --<br>--   | --<br>--   | 204<br>246   | 89<br>66   | 943<br>802   | --<br>14   | 344<br>382   | 720<br>871   | 1,321<br>1,040   | --<br>--   | --<br>--   | --<br>--   | 3,447<br>3,270   | --<br>--   | 5,300<br>4,990  | --<br>7.6  | 70<br>66   | 13.6<br>12.0                                       | --<br>--                        |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft.)                                     | Date of collection              | Silica (SiO <sub>2</sub> ) | Iron (Fe)      | Calcium (Ca)   | Magnesium (Mg) | Sodium (Na)    | Potassium (K)  | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl)         | Fluoride (F)   | Nitrate (NO <sub>3</sub> ) | Boron (B)      | Dissolved solids         | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH             | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |          |
|--------------|---------|---|---------------------------------|----------------------------|----------------|----------------|----------------|----------------|----------------|---------------------------------|----------------------------|-----------------------|----------------|----------------------------|----------------|--------------------------|-------------------------------------|--|----------------|----------------|-------------------------------|---------------------------------|----------|
| PD-48-41-203 | Qal Rg  | 153 $\frac{1}{2}$   | June 11, 1955                   | --                         | --             | 226            | 79             | 964            | --             | --                              | --                         | --                    | --             | --                         | --             | 3,771                    | --                                  | 5,900                                    | --             | 70             | 13.9                          | --                              |          |
| 204          | Qal Rg  | 159 $\frac{1}{2}$   | do                              | --                         | --             | 210            | 72             | 867            | --             | --                              | --                         | --                    | --             | --                         | --             | 3,580                    | --                                  | 4,700                                    | --             | 64             | 10.3                          | --                              |          |
| 205          | Qal Rg  | 120 $\frac{1}{2}$   | do                              | --                         | --             | 190            | 79             | 736            | --             | --                              | --                         | --                    | --             | --                         | --             | 3,131                    | --                                  | 4,900                                    | --             | 67             | 11.4                          | --                              |          |
| 207          | Qal Rg  | 142 $\frac{1}{2}$   | do                              | --                         | --             | 401            | 128            | 1,495          | --             | --                              | --                         | --                    | --             | --                         | --             | 6,321                    | --                                  | 9,900                                    | --             | 68             | 16.5                          | --                              |          |
| 208          | Qal Rg  | 80 $\frac{1}{2}$  | do                              | --                         | --             | 329            | 105            | 1,826          | --             | --                              | --                         | --                    | --             | --                         | --             | 6,387                    | --                                  | 10,000                                   | --             | 76             | 22.4                          | --                              |          |
| 211          | Qal Rg  | 150 $\frac{1}{2}$   | May 1955                        | --                         | --             | 114            | 82             | 886            | --             | 257                             | 605                        | 1,106                 | --             | --                         | --             | 2,925                    | --                                  | 4,500                                    | --             | 76             | 15.4                          | --                              |          |
| 212          | Qal Rg  | 92 $\frac{1}{2}$  | June 11, 1955                   | --                         | --             | 160            | 63             | 506            | --             | --                              | --                         | --                    | --             | --                         | --             | 2,301                    | --                                  | 3,600                                    | --             | 62             | 8.8                           | --                              |          |
| 213          | Qal Rg  | 81 $\frac{1}{2}$  | do                              | --                         | --             | 180            | 75             | 644            | --             | --                              | --                         | --                    | --             | --                         | --             | 3,102                    | --                                  | 3,300                                    | --             | 65             | 10.3                          | --                              |          |
| 223          | Qtal 6  | 160 $\frac{1}{2}$   | do                              | --                         | --             | 226            | 71             | 1,132          | --             | --                              | --                         | --                    | --             | --                         | --             | 4,219                    | --                                  | 6,600                                    | --             | 74             | 17.0                          | --                              |          |
| 501          | Qal Rg  | 68 $\frac{1}{2}$  | May 1955                        | --                         | --             | 565            | 250            | 1,622          | --             | 308                             | 889                        | 2,415                 | --             | --                         | --             | 6,821                    | --                                  | 10,500                                   | --             | 59             | 14.4                          | --                              |          |
| 602          | Qtal 6  | 253-273 $\frac{1}{2}$<br>309-329 $\frac{3}{4}$<br>2,300-2,335 $\frac{1}{2}$ | Feb. 1957<br>do<br>Mar. 7, 1957 | --<br>--<br>--             | --<br>--<br>-- | --<br>--<br>-- | --<br>--<br>-- | --<br>--<br>-- | --<br>--<br>-- | --<br>--<br>--                  | --<br>--<br>--             | 1,400<br>--<br>16,300 | --<br>--<br>-- | --<br>--<br>--             | --<br>--<br>-- | 3,527<br>2,791<br>30,500 | --<br>--<br>--                      | --<br>--<br>--                           | --<br>--<br>-- | --<br>--<br>-- | --<br>--<br>--                | --<br>--<br>--                  |          |
| 604          | Qtal 6  | 100 $\frac{1}{2}$   | May 1955                        | --                         | --             | 551            | 198            | 1,651          | --             | 367                             | 865                        | 3,113                 | --             | --                         | --             | 6,821                    | --                                  | 10,500                                   | --             | 62             | 15.3                          | --                              |          |
| 605          | Qtal 6  | 102 $\frac{1}{2}$<br>102 $\frac{1}{2}$                                      | Nov. 1, 1973<br>Jan. 3, 1974    | --<br>--                   | 0.06<br>.05    | 600<br>1,184   | 291<br>281     | 1,050<br>2,237 | 40<br>--       | 488<br>--                       | 2,000<br>1,075             | 2,350<br>5,400        | 3.0<br>1.4     | <0.05<br>--                | --<br>--       | 6,822<br>12,800          | 2,700<br>4,120                      | --<br>--                                 | 7.6<br>7.5     | --<br>59       | --<br>--                      | --<br>--                        | --<br>-- |
| 606          | Qal Rg  | 90 $\frac{1}{2}$  | May 1955                        | --                         | --             | 301            | 153            | 759            | --             | 286                             | 463                        | 1,627                 | --             | --                         | --             | 3,638                    | --                                  | 5,600                                    | --             | 54             | 8.9                           | --                              |          |
| 612          | --      | -- $\frac{1}{2}$  | do                              | --                         | --             | 381            | 172            | 1,028          | --             | 262                             | 576                        | 2,096                 | --             | --                         | --             | 4,550                    | --                                  | 7,000                                    | --             | 57             | 10.9                          | --                              |          |
| 613          | --      | -- $\frac{1}{2}$  | June 15, 1955                   | --                         | --             | 228            | 131            | 794            | --             | --                              | --                         | --                    | --             | --                         | --             | 3,388                    | --                                  | 5,300                                    | --             | 61             | 10.5                          | --                              |          |
| 614          | Qal Rg  | 104 $\frac{1}{2}$   | do                              | --                         | --             | 200            | 98             | 315            | --             | --                              | --                         | --                    | --             | --                         | --             | 1,948                    | --                                  | 3,050                                    | --             | 43             | 4.6                           | --                              |          |
| 42-404       | Qtal 6  | 267 $\frac{1}{2}$   | Mar. 16, 1973                   | --                         | .13            | 30             | 14             | 392            | --             | 259                             | 408                        | 252                   | 2.3            | 5.5                        | --             | 1,360                    | 132                                 | 2,256                                    | 8.0            | --             | --                            | --                              |          |
| 701          | Qtal 6  | 283 $\frac{1}{2}$   | July 23, 1956                   | --                         | --             | 181            | 48             | 612            | 86             | 262                             | 614                        | 810                   | --             | 1.0                        | --             | 2,440                    | --                                  | 3,870                                    | --             | 67             | --                            | --                              |          |
| 702          | Qtal 6  | 213 $\frac{1}{2}$<br>213 $\frac{1}{2}$                                      | Dec. 4, 1961<br>Aug. 31, 1973   | --<br>--                   | 1.5<br>.18     | 28<br>79       | 7.6<br>20      | 258<br>398     | 3.3<br>--      | 272<br>237                      | 210<br>313                 | 157<br>430            | 1.4<br>1.3     | .2<br>.7                   | --<br>--       | 830<br>1,480             | 102<br>280                          | 1,340<br>2,656                           | 7.5<br>8.0     | 84<br>--       | --<br>--                      | --<br>--                        |          |
| 703          | Qtal 6  | 2,375-2,440   | Feb. 1957                       | --                         | --             | --             | --             | --             | --             | --                              | --                         | --                    | --             | --                         | --             | 23,260                   | --                                  | --                                       | --             | --             | --                            | --                              |          |
| 707          | Qal Rg  | 169 $\frac{1}{2}$   | June 15, 1955                   | --                         | --             | 204            | 123            | 782            | --             | --                              | --                         | --                    | --             | --                         | --             | 3,065                    | --                                  | 4,800                                    | --             | 63             | --                            | --                              |          |
| 708          | Qal Rg  | 189 $\frac{1}{2}$   | Aug. 31, 1973                   | --                         | .88            | 399            | 105            | 485            | --             | 279                             | 760                        | 1,000                 | .8             | .5                         | --             | 3,010                    | 1,430                               | 5,760                                    | 7.5            | --             | --                            | --                              |          |
| 711          | Qal Rg  | 163 $\frac{1}{2}$   | May 1955                        | --                         | --             | 109            | 89             | 644            | --             | 329                             | 668                        | 872                   | --             | --                         | --             | 2,470                    | --                                  | 3,800                                    | --             | 69             | 11.2                          | --                              |          |
| 712          | Qal Rg  | 173 $\frac{1}{2}$   | do                              | --                         | --             | 204            | 79             | 734            | --             | 330                             | 581                        | 1,046                 | --             | --                         | --             | 2,793                    | --                                  | 4,300                                    | --             | 66             | 11.0                          | --                              |          |
| 714          | Qal Rg  | 108 $\frac{1}{2}$   | do                              | --                         | --             | 204            | 83             | 1,070          | --             | 329                             | 764                        | 1,368                 | --             | --                         | --             | 3,572                    | --                                  | 5,500                                    | --             | 73             | 16.0                          | --                              |          |
| 715          | Qtal 6  | 210 $\frac{1}{2}$   | do                              | --                         | --             | 200            | 90             | 759            | --             | 359                             | 696                        | 1,104                 | --             | --                         | --             | 2,925                    | --                                  | 4,500                                    | --             | 65             | 11.3                          | --                              |          |
| 726          | Qal Rg  | 110 $\frac{1}{2}$   | June 11, 1955                   | --                         | --             | 347            | 109            | 1,242          | --             | --                              | --                         | --                    | --             | --                         | --             | 5,292                    | --                                  | 7,500                                    | --             | 67             | 15.0                          | --                              |          |
| 727          | Qal Rg  | 140 $\frac{1}{2}$   | May 1955                        | --                         | --             | 160            | 76             | 851            | --             | 354                             | 701                        | 1,064                 | --             | --                         | --             | 2,859                    | --                                  | 4,400                                    | --             | 72             | 13.9                          | --                              |          |
| 730          | Qal Rg  | 60 $\frac{1}{2}$<br>120 $\frac{1}{2}$                                       | May 21, 1974<br>do              | 1<br>1                     | --<br>--       | 580<br>710     | 85<br>167      | 1,530<br>1,920 | --<br>--       | 0<br>0                          | 24<br>9                    | 3,850<br>4,810        | .7<br>.7       | 1.0<br>.6                  | --<br>--       | 6,000<br>7,600           | 1,800<br>2,470                      | 8,850<br>10,150                          | 8.3<br>8.3     | --<br>--       | --<br>--                      | --<br>--                        |          |

See footnotes at end of table.

Table 7.--Chemical Analyses of Water from Selected Wells--Continued

| Well         | Aquifer | Depth of well or sampled interval (ft) | Date of collection | Silica (SiO <sub>2</sub> ) | Iron (Fe) | Calcium (Ca) | Magnesium (Mg) | Sodium (Na) | Potassium (K) | Bicarbonate (HCO <sub>3</sub> ) | Sulfate (SO <sub>4</sub> ) | Chloride (Cl) | Fluoride (F) | Nitrate (NO <sub>3</sub> ) | Boron (B) | Dissolved solids | Total hardness as CaCO <sub>3</sub> | Specific conductance (micromhos at 25°C) | pH  | Percent sodium | Sodium adsorption ratio (SAR) | Residual sodium carbonate (RSC) |
|--------------|---------|--|--------------------|----------------------------|-----------|--------------|----------------|-------------|---------------|---------------------------------|----------------------------|---------------|--------------|----------------------------|-----------|------------------|-------------------------------------|--|-----|----------------|-------------------------------|---------------------------------|
| PD-48-50-201 | Qa1 Rg  | 90                                     | July 1951          | --                         | --        | 286          | 64             | 726         | --            | --                              | --                         | 1,076         | --           | --                         | --        | --               | --                                  | --                                       | --  | 62             | --                            | --                              |
|              |         | 90                                     | May 1955           | --                         | --        | 419          | 210            | 1,426       | --            | 365                             | 1,369                      | 2,514         | --           | --                         | --        | 6,174            | --                                  | 9,500                                    | --  | 62             | 14.0                          | --                              |
| 203          | Qa1 Rg  | 80                                     | June 15, 1955      | --                         | --        | 265          | 199            | 920         | --            | --                              | --                         | --            | --           | --                         | --        | 4,094            | --                                  | 6,400                                    | --  | --             | 10.5                          | --                              |
| 206          | Qa1 Rg  | 65                                     | May 20, 1974       | 7                          | --        | 260          | 109            | 1,050       | --            | 310                             | 540                        | 1,760         | 0.7          | 73.0                       | --        | 3,990            | 1,100                               | 5,650                                    | 7.2 | 68             | 13.7                          | --                              |
| 604          | Qa1 Rg  | 60                                     | do                 | 16                         | --        | 520          | 135            | 870         | --            | 218                             | 1,120                      | 1,740         | 1.2          | 2.7                        | --        | 4,510            | 1,860                               | 5,880                                    | 7.4 | 50             | 8.7                           | --                              |
| 615          | Qa1 Rg  | 60                                     | do                 | 2                          | --        | 82           | 62             | 990         | --            | 23                              | 820                        | 1,190         | 1.0          | 59.0                       | --        | 3,220            | 457                                 | 4,650                                    | 6.1 | 82             | 20.0                          | --                              |
| 901          | Qa1 Rg  | --                                     | June 15, 1955      | --                         | --        | 244          | 303            | 1,840       | --            | --                              | --                         | --            | --           | --                         | --        | 6,395            | --                                  | 10,000                                   | --  | 68             | 18.6                          | --                              |
| 51-702       | Qa1 Rg  | 83                                     | do                 | --                         | --        | 220          | 148            | 1,265       | --            | --                              | --                         | --            | --           | --                         | --        | 4,476            | --                                  | 7,000                                    | --  | 70             | 16.1                          | --                              |
| 713          | Qa1 Rg  | 18                                     | Feb. 14, 1974      | 35                         | --        | 217          | 49             | 570         | --            | 412                             | 640                        | 720           | 1.1          | .6                         | --        | 2,440            | 750                                 | 3,400                                    | 7.3 | 62             | 9.0                           | --                              |
| 802          | Qa1 Rg  | 90                                     | June 11, 1955      | --                         | --        | 455          | 353            | 1,587       | --            | --                              | --                         | --            | --           | --                         | --        | 7,034            | --                                  | 11,000                                   | --  | 57             | 13.5                          | --                              |
| 804          | Qa1 Rg  | 85                                     | June 15, 1955      | --                         | --        | 315          | 179            | 1,099       | --            | --                              | --                         | --            | --           | --                         | --        | 4,470            | --                                  | 7,000                                    | --  | 62             | 12.2                          | --                              |
| 805          | Qa1 Rg  | 81                                     | do                 | --                         | --        | 321          | 209            | 1,380       | --            | --                              | --                         | --            | --           | --                         | --        | 5,307            | --                                  | 8,300                                    | --  | 64             | 14.8                          | --                              |
| 901          | Qa1 Rg  | 32                                     | May 21, 1974       | 2                          | --        | 32           | 48             | 910         | --            | 226                             | 660                        | 970           | 1.6          | 1.7                        | --        | 2,740            | 280                                 | 4,090                                    | 7.5 | 88             | 23.7                          | --                              |
|              |         | 64                                     | do                 | 2                          | --        | 143          | 163            | 2,110       | --            | 72                              | 1,290                      | 2,960         | 2.1          | 24.0                       | --        | 6,700            | 1,030                               | 8,700                                    | 6.5 | 82             | 28.6                          | --                              |
| 60-101       | Qa1 Rg  | 60                                     | May 21, 1974       | 7                          | --        | 351          | 136            | 1,540       | --            | 403                             | 1,240                      | 2,200         | 1.9          | 3.1                        | --        | 5,700            | 1,440                               | 7,030                                    | 7.6 | 70             | 17.6                          | --                              |
| 50-04-201    | Qa1 Rg  | 85                                     | Jan. 28, 1974      | 35                         | --        | 840          | 170            | 1,070       | 17            | 331                             | 1,330                      | 2,530         | 1.7          | 8.0                        | --        | 6,200            | 2,960                               | 7,320                                    | 7.1 | --             | --                            | --                              |

g Analysis made by U.S. Geological Survey.  
 h Analysis made by City of El Paso Water Utilities.  
 i Analysis made by El Paso Electric Company.  
 j Analysis made by El Paso Testing Laboratories.  
 k Analysis made by Curtis Laboratories, Houston.  
 l Analysis made by Health Unit Laboratory, El Paso.  
 m Analysis made by Texas Department of Health.  
 n Analysis made by Dickinson Laboratories, El Paso.  
 o Analysis made by Texas Agricultural Extension Service.  
 p Analysis made by Farm Services Laboratories, El Paso.  
 q Analysis made by Martin Water Laboratories, Midland.  
 r Analysis made by El Paso Natural Gas Company, El Paso.  
 s Analysis made by U.S. Geological Survey-Field Test.  
 t Analysis from Texas Water Commission Bulletin 6203.  
 u Analysis from Texas Board of Water Engineers Bulletin 5615.  
 v Analysis from Texas Water Commission Bulletin 6204.  
 w Analysis from Texas Water Development Board Report 153.  
 x Analysis obtained from U.S. Army at Fort Bliss, Texas.

**Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium**

Specific conductance, and tons of salt per acre-foot of water, determined by the U.S. Bureau of Reclamation. The equivalent values for dissolved-solids content, in milligrams per liter, are estimates obtained by multiplying the number of tons per acre-foot by 735.

| Well                  | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|-----------------------|---------------|--|-----------------------------|-------------------------|
|                       |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| <b>El Paso County</b> |               |  |                             |                         |
| JL-49-03-321          | Aug. 1954     | —  | 1.05                        | 772                     |
|                       | Mar. 14, 1956 | 1,550  | 1.48                        | 1,088                   |
|                       | Aug. 27, 1956 | 1,453  | 1.38                        | 1,014                   |
|                       | June 21, 1963 | 1,349  | 1.28                        | 941                     |
|                       | Mar. 31, 1965 | 830  | .79                         | 581                     |
| JL-49-03-908          | June 1954     | —  | 1.87                        | 1,374                   |
|                       | Apr. 20, 1955 | 2,140  | 2.04                        | 1,499                   |
|                       | Mar. 8, 1956  | 2,320  | 2.21                        | 1,624                   |
|                       | Aug. 11, 1956 | 2,378  | 2.26                        | 1,661                   |
| JL-49-03-911          | June 1954     | —  | 5.51                        | 4,050                   |
|                       | June 4, 1955  | 4,340  | 4.13                        | 3,036                   |
|                       | Mar. 14, 1956 | 4,300  | 4.10                        | 3,013                   |
|                       | Aug. 10, 1956 | 4,482  | 4.27                        | 3,138                   |
| JL-49-03-912          | June 8, 1955  | 1,114  | 1.06                        | 779                     |
|                       | Mar. 5, 1956  | 3,200  | 3.05                        | 2,242                   |
|                       | Aug. 18, 1956 | 3,066  | 2.92                        | 2,146                   |
| JL-49-03-913          | July 1, 1953  | 1,667  | 1.59                        | 1,169                   |
|                       | May 12, 1955  | 1,366  | 1.30                        | 956                     |
|                       | Mar. 20, 1956 | 2,010  | 1.91                        | 1,404                   |
|                       | Aug. 15, 1956 | 1,875  | 1.79                        | 1,316                   |
|                       | June 18, 1957 | 1,953  | 1.86                        | 1,367                   |
|                       | July 2, 1963  | 1,979  | 1.88                        | 1,382                   |
|                       | Mar. 26, 1965 | 2,275  | 2.17                        | 1,595                   |
| JL-49-03-915          | May 1954      | —  | 1.91                        | 1,404                   |
|                       | May 6, 1955   | 1,971  | 1.88                        | 1,382                   |
|                       | Mar. 5, 1956  | 2,350  | 2.24                        | 1,646                   |
| JL-49-03-919          | June 1954     | —  | 1.96                        | 1,441                   |
|                       | May 13, 1955  | 2,048  | 1.95                        | 1,433                   |
|                       | Mar. 27, 1956 | 2,147  | 2.04                        | 1,499                   |
|                       | Sept. 6, 1956 | 2,433  | 2.32                        | 1,705                   |
| JL-49-03-921          | May 19, 1955  | 1,470  | 1.40                        | 1,029                   |
|                       | Mar. 20, 1956 | 1,780  | 1.70                        | 1,250                   |
| JL-49-04-140          | May 1954      | —  | 1.41                        | 1,036                   |
|                       | May 10, 1955  | 968  | .92                         | 676                     |
|                       | Mar. 12, 1956 | 2,400  | 2.29                        | 1,683                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date           | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|----------------|--|-----------------------------|-------------------------|
|              |                |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-04-141 | May 1954       | —  | 2.15                        | 1,580                   |
|              | May 11, 1955   | 2,000  | 1.90                        | 1,397                   |
|              | Aug. 27, 1956  | 2,013  | 1.92                        | 1,411                   |
| JL-49-04-160 | May 16, 1955   | 1,830  | 1.74                        | 1,279                   |
|              | Sept. 18, 1956 | 2,045  | 1.95                        | 2,792                   |
|              | Apr. 21, 1965  | 2,383  | 2.27                        | 1,668                   |
| JL-49-04-434 | May 1954       | —  | 2.02                        | 1,485                   |
|              | July 9, 1953   | 2,127  | 2.03                        | 1,492                   |
|              | May 16, 1955   | 1,522  | 1.45                        | 1,066                   |
|              | Mar. 19, 1956  | 2,200  | 2.10                        | 1,544                   |
| JL-49-04-458 | May 1954       | —  | .99                         | 728                     |
|              | May 28, 1955   | 1,153  | 1.10                        | 809                     |
|              | Mar. 15, 1956  | 1,500  | 1.43                        | 1,051                   |
|              | May 16, 1957   | 1,948  | 1.86                        | 1,367                   |
|              | June 21, 1963  | 1,613  | 1.54                        | 1,332                   |
|              | Mar. 17, 1965  | 2,092  | 1.99                        | 1,463                   |
| JL-49-04-708 | May 1954       | —  | 2.49                        | 1,830                   |
|              | May 6, 1955    | 2,425  | 2.31                        | 1,698                   |
|              | Mar. 5, 1956   | 3,000  | 2.86                        | 2,102                   |
|              | Aug. 19, 1956  | 2,524  | 2.40                        | 1,764                   |
| JL-49-04-709 | May 1954       | —  | 3.86                        | 2,837                   |
| JL-49-04-711 | Oct. 4, 1954   | 1,638  | 1.56                        | 1,147                   |
|              | July 17, 1956  | 1,613  | 1.54                        | 1,132                   |
| JL-49-04-712 | Oct. 3, 1954   | 1,747  | 1.66                        | 1,220                   |
|              | May 5, 1955    | 1,752  | 1.67                        | 1,227                   |
|              | July 6, 1956   | 1,656  | 1.58                        | 1,161                   |
| JL-49-04-717 | Oct. 1954      | —  | 1.56                        | 1,447                   |
|              | May 9, 1955    | 1,639  | 1.56                        | 1,147                   |
|              | July 14, 1956  | 1,892  | 1.80                        | 1,323                   |
| JL-49-04-718 | May 1954       | —  | 1.75                        | 1,286                   |
|              | Oct. 4, 1954   | 2,073  | 1.97                        | 1,448                   |
|              | Apr. 9, 1956   | 1,915  | 1.82                        | 1,338                   |
|              | June 18, 1957  | 2,039  | 1.94                        | 1,426                   |
|              | Aug. 7, 1963   | 1,724  | 1.64                        | 1,205                   |
|              | Aug. 12, 1964  | 1,854  | 1.77                        | 1,301                   |
|              | Mar. 31, 1965  | 2,024  | 1.93                        | 1,419                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-04-724 | Aug. 8, 1953  | 3,553  | 3.38                        | 2,484                   |
|              | May 1954      | —  | 2.24                        | 1,646                   |
|              | May 5, 1955   | 3,474  | 3.31                        | 2,433                   |
|              | Mar. 15, 1956 | 4,300  | 4.10                        | 3,014                   |
|              | Mar. 26, 1965 | 3,167  | 3.02                        | 2,220                   |
| JL-49-04-727 | Mar. 15, 1956 | 1,900  | 1.81                        | 1,330                   |
|              | Aug. 12, 1956 | 1,650  | 1.57                        | 1,154                   |
|              | June 5, 1957  | 1,717  | 1.64                        | 1,205                   |
|              | Mar. 16, 1965 | 1,864  | 1.78                        | 1,308                   |
| JL-49-04-733 | Apr. 1, 1955  | 1,608  | 1.53                        | 1,125                   |
|              | May 11, 1955  | 2,091  | 1.99                        | 1,463                   |
|              | Mar. 14, 1956 | 1,870  | 1.78                        | 1,308                   |
|              | Aug. 19, 1957 | 1,616  | 1.54                        | 1,132                   |
|              | Aug. 5, 1963  | 2,061  | 1.96                        | 1,441                   |
|              | Apr. 12, 1965 | 2,337  | 2.23                        | 1,639                   |
| JL-49-04-734 | May 1954      | —  | 2.45                        | 1,801                   |
|              | May 1955      | —  | 1.67                        | 1,227                   |
| JL-49-04-737 | May 16, 1955  | 2,300  | 2.19                        | 1,610                   |
|              | Mar. 5, 1956  | 2,550  | 2.43                        | 1,786                   |
|              | Aug. 19, 1956 | 2,418  | 2.30                        | 1,691                   |
|              | Mar. 1, 1965  | 2,384  | 2.27                        | 1,668                   |
| JL-49-12-102 | May 1954      | —  | 2.58                        | 1,896                   |
|              | May 12, 1955  | 2,466  | 2.35                        | 1,727                   |
|              | Mar. 22, 1956 | 3,100  | 2.95                        | 2,168                   |
|              | Mar. 14, 1956 | 2,970  | 2.83                        | 2,080                   |
|              | May 24, 1957  | 2,886  | 2.75                        | 2,021                   |
|              | Aug. 8, 1963  | 2,061  | 1.96                        | 1,441                   |
|              | Mar. 31, 1965 | 2,838  | 2.70                        | 1,985                   |
| JL-49-12-108 | July 1, 1953  | 4,378  | 4.17                        | 3,065                   |
|              | May 1954      | —  | 3.55                        | 2,609                   |
|              | May 16, 1955  | 3,559  | 3.39                        | 2,492                   |
|              | Mar. 14, 1956 | 3,250  | 3.10                        | 2,279                   |
|              | Aug. 14, 1956 | 3,159  | 3.01                        | 2,212                   |
| JL-49-12-109 | Aug. 4, 1953  | 4,270  | 4.07                        | 2,991                   |
| JL-49-12-110 | Aug. 4, 1953  | 4,412  | 4.20                        | 3,087                   |
|              | May 1954      | —  | 3.99                        | 2,933                   |
|              | May 24, 1957  | 4,698  | 4.47                        | 3,285                   |
|              | Mar. 26, 1965 | 4,434  | 4.22                        | 3,102                   |



Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-12-123 | June 1954     | —  | 3.23                        | 2,374                   |
|              | May 15, 1955  | 2,830  | 2.70                        | 1,985                   |
|              | Mar. 31, 1965 | 2,962  | 2.82                        | 2,073                   |
| JL-49-12-127 | May 3, 1955   | 1,860  | 1.77                        | 1,301                   |
|              | Mar. 28, 1956 | 1,919  | 1.83                        | 1,345                   |
|              | May 24, 1957  | 1,942  | 1.85                        | 1,360                   |
|              | Mar. 31, 1965 | 2,067  | 1.97                        | 1,448                   |
|              | Apr. 27, 1966 | 2,089  | 1.99                        | 1,463                   |
| JL-49-12-510 | July 17, 1956 | 4,107  | 3.91                        | 2,874                   |
|              | Aug. 13, 1963 | 2,964  | 2.82                        | 2,072                   |
|              | Apr. 23, 1966 | 2,981  | 2.84                        | 2,087                   |
| JL-49-13-931 | May 13, 1955  | —  | 2.19                        | 1,610                   |
|              | Mar. 28, 1956 | 2,400  | 2.29                        | 1,683                   |
|              | Mar. 12, 1957 | —  | 2.12                        | 1,558                   |
|              | Mar. 9, 1964  | 2,190  | 1.94                        | 1,426                   |
|              | Apr. 2, 1965  | —  | 2.08                        | 1,529                   |
| JL-49-13-937 | June 1951     | —  | 2.30                        | 1,691                   |
| JL-49-21-307 | June 26, 1954 | 1,377  | 1.31                        | 963                     |
|              | Feb. 24, 1955 | 1,495  | 1.42                        | 1,044                   |
|              | Mar. 18, 1956 | 1,720  | 1.64                        | 1,205                   |
|              | June 3, 1957  | —  | 1.46                        | 1,073                   |
|              | July 8, 1963  | 1,513  | 1.44                        | 1,058                   |
| JL-49-21-308 | Mar. 16, 1955 | 3,550  | 3.38                        | 2,484                   |
|              | Aug. 3, 1956  | —  | 3.05                        | 2,242                   |
|              | July 3, 1957  | —  | 2.79                        | 2,051                   |
| JL-49-22-101 | Mar. 23, 1955 | 2,419  | 2.30                        | 1,691                   |
|              | July 11, 1956 | —  | 2.43                        | 1,786                   |
|              | Apr. 17, 1957 | —  | 2.02                        | 1,485                   |
| JL-49-22-109 | May 1951      | —  | 3.20                        | 2,352                   |
|              | Feb. 24, 1954 | 3,656  | 3.48                        | 2,558                   |
|              | Mar. 8, 1955  | 3,523  | 3.36                        | 2,470                   |
|              | Mar. 14, 1956 | 4,300  | 4.10                        | 3,014                   |
|              | Feb. 25, 1957 | —  | 3.80                        | 2,793                   |
|              | Apr. 6, 1965  | —  | 3.36                        | 2,470                   |
| JL-49-22-111 | May 20, 1955  | —  | 1.42                        | 1,044                   |
| JL-49-22-112 | Apr. 1, 1955  | 2,339  | 2.23                        | 1,639                   |
|              | June 10, 1956 | —  | 1.90                        | 1,397                   |

**Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued**

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-113 | May 1951      | —  | 1.50                        | 1,103                   |
|              | Feb. 24, 1954 | 2,536  | 2.42                        | 1,779                   |
|              | Mar. 8, 1955  | 3,785  | 3.60                        | 2,646                   |
|              | Mar. 20, 1956 | 3,800  | 3.62                        | 2,661                   |
|              | Mar. 20, 1957 | —  | 3.63                        | 2,668                   |
| JL-49-22-114 | May 1951      | —  | 2.40                        | 1,764                   |
|              | Mar. 8, 1955  | 2,243  | 2.14                        | 1,573                   |
|              | Mar. 20, 1956 | 2,550  | 2.43                        | 1,786                   |
|              | Mar. 20, 1957 | —  | 3.49                        | 2,565                   |
| JL-49-22-115 | Aug. 12, 1956 | —  | 3.43                        | 2,521                   |
|              | May 21, 1957  | —  | 2.02                        | 1,485                   |
|              | June 7, 1963  | 2,504  | 2.38                        | 1,749                   |
|              | May 2, 1966   | 2,408  | 2.29                        | 1,683                   |
| JL-49-22-116 | July 1951     | —  | 1.56                        | 1,147                   |
|              | Sept. 1951    | —  | 1.54                        | 1,132                   |
|              | Mar. 3, 1954  | 1,830  | 1.74                        | 1,279                   |
|              | Mar. 15, 1955 | 1,966  | 1.87                        | 1,374                   |
|              | June 8, 1956  | —  | 1.95                        | 1,433                   |
|              | Mar. 19, 1957 | —  | 2.03                        | 1,492                   |
|              | Mar. 22, 1964 | 2,320  | 2.05                        | 1,507                   |
|              | June 2, 1966  | 2,300  | 2.19                        | 1,610                   |
| JL-49-22-117 | Mar. 21, 1954 | 1,368  | 1.30                        | 956                     |
|              | Aug. 12, 1956 | —  | 2.40                        | 1,764                   |
|              | Apr. 10, 1957 | —  | 2.43                        | 1,786                   |
| JL-49-22-118 | Mar. 14, 1955 | 2,176  | 2.07                        | 1,521                   |
|              | June 12, 1956 | —  | 2.11                        | 1,551                   |
|              | Mar. 20, 1957 | —  | 2.12                        | 1,558                   |
|              | Apr. 16, 1957 | —  | 2.19                        | 1,610                   |
|              | Mar. 11, 1964 | —  | 2.48                        | 1,823                   |
|              | May 3, 1966   | 2,760  | 2.63                        | 1,933                   |
| JL-49-22-119 | June 28, 1954 | 4,230  | 4.03                        | 2,962                   |
|              | Mar. 11, 1955 | 4,103  | 3.91                        | 2,874                   |
|              | June 8, 1956  | —  | 3.19                        | 2,345                   |
| JL-49-22-120 | Mar. 15, 1955 | 3,034  | 2.89                        | 2,124                   |
|              | Apr. 29, 1955 | —  | 2.76                        | 2,029                   |
|              | Mar. 23, 1956 | 2,520  | 2.40                        | 1,764                   |
|              | June 13, 1957 | —  | 2.94                        | 2,161                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-123 | June 1951     | —  | 2.05                        | 1,507                   |
|              | Mar. 2, 1955  | 2,975  | 2.83                        | 2,080                   |
|              | Mar. 20, 1956 | 3,990  | 3.80                        | 2,793                   |
|              | Mar. 4, 1957  | —  | 2.87                        | 2,109                   |
|              | June 10, 1963 | 3,969  | 3.78                        | 2,778                   |
|              | Apr. 2, 1964  | 5,000  | 4.42                        | 3,249                   |
|              | Apr. 1, 1965  | —  | 3.54                        | 2,602                   |
| JL-49-22-205 | June 23, 1954 | 1,620  | 1.54                        | 1,132                   |
|              | Mar. 8, 1955  | 2,094  | 1.99                        | 1,463                   |
|              | Apr. 29, 1955 | —  | 2.10                        | 1,544                   |
|              | May 3, 1955   | —  | 1.98                        | 1,455                   |
|              | June 11, 1956 | —  | 1.95                        | 1,433                   |
|              | Mar. 26, 1964 | 3,100  | 2.74                        | 2,014                   |
|              | Apr. 27, 1966 | 3,120  | 2.97                        | 2,183                   |
| JL-49-22-207 | Feb. 20, 1957 | 2,348  | 2.24                        | 1,646                   |
|              | Mar. 6, 1964  | —  | 2.56                        | 1,882                   |
|              | May 3, 1966   | 2,860  | 2.72                        | 1,999                   |
| JL-49-22-211 | Mar. 24, 1955 | 2,464  | 2.35                        | 1,727                   |
|              | Apr. 11, 1956 | —  | 2.48                        | 1,823                   |
| JL-49-22-212 | Aug. 8, 1956  | —  | 2.10                        | 1,544                   |
| JL-49-22-401 | June 25, 1957 | —  | 1.37                        | 1,007                   |
|              | June 12, 1963 | 1,393  | 1.33                        | 978                     |
| JL-49-22-402 | Apr. 1955     | —  | 2.00                        | 1,470                   |
|              | Apr. 25, 1956 | —  | 2.00                        | 1,470                   |
|              | Mar. 18, 1957 | —  | 1.72                        | 1,264                   |
|              | June 12, 1963 | 1,795  | 1.71                        | 1,257                   |
|              | Apr. 2, 1964  | 1,520  | 1.34                        | 985                     |
| JL-49-22-403 | May 1951      | —  | 2.90                        | 2,132                   |
|              | Oct. 1951     | —  | 2.80                        | 2,058                   |
|              | Mar. 15, 1955 | 3,331  | 3.17                        | 2,330                   |
|              | Mar. 20, 1956 | 3,500  | 3.33                        | 2,448                   |
|              | Mar. 12, 1957 | —  | 2.87                        | 2,109                   |
|              | Mar. 4, 1964  | —  | 2.30                        | 1,691                   |
|              | —             | —  | —                           | —                       |
| JL-49-22-404 | June 1951     | —  | 2.50                        | 1,838                   |
|              | Mar. 15, 1955 | 3,034  | 2.89                        | 2,124                   |
|              | Mar. 20, 1956 | 3,100  | 2.95                        | 2,168                   |
|              | Mar. 17, 1957 | —  | 2.55                        | 1,874                   |
|              | June 10, 1963 | 2,623  | 2.50                        | 1,838                   |
|              | May 27, 1966  | 2,611  | 2.49                        | 1,830                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25°C) | Dissolved-solids<br>content |                         |
|--------------|---------------|---|-----------------------------|-------------------------|
|              |               |   | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-405 | Mar. 26, 1954 | 2,041   | 1.94                        | 1,426                   |
|              | Mar. 8, 1955  | 3,057   | 2.91                        | 2,139                   |
|              | Mar. 14, 1956 | 2,650   | 2.52                        | 1,852                   |
|              | Mar. 12, 1957 | —   | 2.12                        | 1,558                   |
|              | July 8, 1963  | 2,663   | 2.54                        | 1,867                   |
|              | Mar. 4, 1964  | —   | 2.48                        | 1,823                   |
|              | Apr. 23, 1966 | 2,611   | 2.49                        | 1,830                   |
| JL-49-22-406 | May 1951      | —   | 2.00                        | 1,470                   |
|              | Mar. 14, 1955 | 2,048   | 1.95                        | 1,433                   |
|              | Mar. 20, 1956 | 2,120   | 2.02                        | 1,485                   |
|              | Mar. 17, 1957 | —   | 1.59                        | 1,169                   |
|              | June 11, 1963 | 1,449   | 1.38                        | 1,014                   |
|              | Mar. 18, 1964 | 1,600   | 1.41                        | 1,036                   |
|              | Apr. 23, 1966 | 1,428   | 1.36                        | 1,000                   |
| JL-49-22-503 | Mar. 3, 1954  | 2,629   | 2.50                        | 1,838                   |
|              | Apr. 29, 1955 | —   | 3.29                        | 2,418                   |
|              | Aug. 9, 1956  | —   | 3.62                        | 2,661                   |
|              | Mar. 12, 1957 | —   | 3.45                        | 2,536                   |
|              | Mar. 9, 1964  | —   | 2.30                        | 1,691                   |
|              | Mar. 15, 1965 | —   | 3.01                        | 2,212                   |
| JL-49-22-504 | Apr. 29, 1955 | —   | 1.90                        | 1,397                   |
|              | Apr. 12, 1956 | —   | 2.19                        | 1,610                   |
| JL-49-22-505 | Mar. 15, 1954 | 1,743   | 1.66                        | 1,220                   |
|              | May 23, 1955  | —   | 2.33                        | 1,713                   |
|              | June 8, 1956  | —   | 2.43                        | 1,786                   |
|              | Mar. 12, 1957 | —   | 2.48                        | 1,823                   |
| JL-49-22-506 | Feb. 25, 1954 | 1,817   | 1.73                        | 1,272                   |
|              | Mar. 14, 1955 | 1,972   | 1.88                        | 1,382                   |
|              | June 13, 1956 | —   | 1.81                        | 1,330                   |
|              | Mar. 20, 1957 | —   | 1.77                        | 1,301                   |
|              | Aug. 18, 1963 | 2,096   | 2.00                        | 1,470                   |
|              | 1964          | 2,000   | 1.77                        | 1,301                   |
|              | June 2, 1966  | 1,930   | 1.84                        | 1,352                   |
| JL-49-22-507 | Mar. 5, 1954  | 2,178   | 2.07                        | 1,521                   |
|              | Apr. 19, 1955 | —   | 2.19                        | 1,610                   |
|              | Apr. 3, 1956  | —   | 2.19                        | 1,610                   |
|              | Mar. 20, 1957 | —   | 1.96                        | 1,441                   |
|              | Mar. 9, 1964  | —   | 2.39                        | 1,757                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific conductance (micromhos at 25° C) | Dissolved-solids content |                      |
|--------------|---------------|---|--------------------------|----------------------|
|              |               |   | Tons per acre-foot       | Milligrams per liter |
| JL-49-22-508 | Apr. 17, 1955 | —   | 2.29                     | 1,683                |
|              | Apr. 18, 1955 | —   | 2.24                     | 1,646                |
|              | Apr. 3, 1956  | —   | 2.21                     | 1,624                |
|              | Aug. 1964     | —   | 1.76                     | 1,294                |
|              | May 3, 1966   | 2,070                                     | 1.97                     | 1,448                |
| JL-49-22-509 | Apr. 29, 1955 | —   | 2.00                     | 1,470                |
|              | Aug. 1, 1956  | —   | 2.48                     | 1,823                |
| JL-49-22-510 | Apr. 11, 1955 | —   | 1.90                     | 1,397                |
|              | Mar. 25, 1956 | 2,350                                     | 2.24                     | 1,646                |
| JL-49-22-511 | July 8, 1955  | 2,465                                     | 2.35                     | 1,727                |
|              | June 13, 1956 | —   | 2.19                     | 1,610                |
|              | Mar. 20, 1957 | —   | 2.25                     | 1,654                |
| JL-49-22-512 | Feb. 24, 1954 | 2,968                                     | 2.83                     | 2,080                |
|              | Mar. 15, 1955 | 2,830                                     | 2.70                     | 1,985                |
|              | Apr. 30, 1955 | —   | 2.76                     | 2,029                |
|              | Mar. 27, 1956 | 3,200                                     | 3.05                     | 2,242                |
|              | Feb. 25, 1957 | —   | 2.70                     | 1,985                |
|              | Aug. 16, 1963 | 2,892                                     | 2.75                     | 2,021                |
|              | Mar. 6, 1964  | —   | 2.70                     | 1,985                |
|              | Dec. 8, 1964  | 2,404                                     | 2.29                     | 1,683                |
| JL-49-22-513 | Feb. 23, 1954 | 2,796                                     | 2.66                     | 1,955                |
|              | Mar. 15, 1955 | 3,057                                     | 2.91                     | 2,139                |
|              | May 11, 1955  | —   | 2.86                     | 2,102                |
|              | Mar. 20, 1956 | 3,200                                     | 3.05                     | 2,242                |
|              | Mar. 4, 1957  | —   | 2.74                     | 2,014                |
|              | Mar. 6, 1964  | —   | 2.74                     | 2,014                |
|              | Mar. 12, 1954 | 2,334                                     | 2.22                     | 1,632                |
| JL-49-22-514 | May 11, 1955  | —   | 2.19                     | 1,610                |
|              | Mar. 20, 1956 | 2,700                                     | 2.57                     | 1,889                |
|              | Mar. 28, 1957 | —   | 2.96                     | 2,176                |
|              | Aug. 15, 1963 | 2,816                                     | 2.68                     | 1,970                |
|              | Mar. 16, 1964 | —   | 2.76                     | 2,029                |
|              | Mar. 17, 1965 | —   | 2.65                     | 1,948                |
|              | Apr. 27, 1966 | 2,960                                     | 2.82                     | 2,073                |
|              | Mar. 12, 1954 | 2,334                                     | 2.22                     | 1,632                |
| JL-49-22-515 | June 1951     | —   | 3.13                     | 2,301                |
|              | Apr. 7, 1954  | 3,281                                     | 3.12                     | 2,293                |
|              | Mar. 14, 1955 | 3,313                                     | 3.16                     | 2,323                |
|              | May 11, 1955  | —   | 3.14                     | 2,308                |
|              | June 27, 1956 | —   | 3.14                     | 2,308                |
|              | Mar. 13, 1957 | —   | 3.09                     | 2,271                |
|              | Mar. 5, 1964  | —   | 3.23                     | 2,374                |
|              | Mar. 17, 1965 | —   | 2.74                     | 2,014                |
|              | May 3, 1966   | 3,600                                     | 3.43                     | 2,521                |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-516 | May 1951      | —  | 2.80                        | 2,058                   |
|              | Feb. 24, 1954 | 2,631  | 2.51                        | 1,845                   |
|              | Aug. 1, 1956  | —  | 2.67                        | 1,962                   |
| JL-49-22-518 | Mar. 15, 1955 | 1,747  | 1.66                        | 1,220                   |
|              | Apr. 30, 1955 | —  | 1.90                        | 1,397                   |
|              | Mar. 20, 1956 | 2,320  | 2.21                        | 1,624                   |
|              | June 11, 1957 | —  | 2.30                        | 1,691                   |
|              | Mar. 30, 1964 | 2,350  | 2.08                        | 1,529                   |
|              | May 3, 1966   | 2,320  | 2.21                        | 1,624                   |
| JL-49-22-519 | June 1951     | —  | 2.88                        | 2,117                   |
|              | Mar. 10, 1954 | 2,700  | 2.57                        | 1,889                   |
|              | Mar. 15, 1955 | 2,818  | 2.68                        | 1,970                   |
|              | June 5, 1956  | —  | 2.67                        | 1,962                   |
|              | Mar. 4, 1957  | —  | 3.31                        | 2,433                   |
|              | Mar. 9, 1964  | —  | 3.36                        | 2,470                   |
| JL-49-22-520 | Mar. 15, 1955 | 2,369  | 2.26                        | 1,661                   |
|              | Apr. 5, 1956  | —  | 2.48                        | 1,823                   |
|              | Aug. 13, 1956 | —  | 2.48                        | 1,823                   |
|              | May 24, 1957  | —  | 2.30                        | 1,691                   |
|              | June 12, 1957 | —  | 2.34                        | 1,720                   |
|              | Mar. 10, 1964 | —  | 2.96                        | 2,176                   |
|              | —             | —  | —                           | —                       |
| JL-49-22-521 | June 28, 1954 | 2,230  | 2.12                        | 1,558                   |
|              | Aug. 23, 1956 | —  | 2.67                        | 1,962                   |
| JL-49-22-522 | June 19, 1954 | 1,831  | 1.74                        | 1,279                   |
|              | Dec. 15, 1954 | 1,616  | 1.54                        | 1,132                   |
|              | Apr. 19, 1955 | —  | 1.52                        | 1,117                   |
|              | Apr. 20, 1955 | —  | 1.64                        | 1,205                   |
|              | Mar. 20, 1956 | 1,920  | 1.83                        | 1,345                   |
|              | Mar. 21, 1957 | —  | 1.64                        | 1,205                   |
|              | Aug. 14, 1963 | 1,514  | 1.44                        | 1,058                   |
|              | Mar. 9, 1964  | —  | 1.64                        | 1,205                   |
| JL-49-22-523 | Mar. 8, 1954  | 3,532  | 3.36                        | 2,470                   |
|              | Mar. 10, 1955 | 3,011  | 2.87                        | 2,109                   |
|              | Apr. 29, 1955 | —  | 2.71                        | 1,992                   |
|              | Mar. 22, 1957 | —  | 2.87                        | 2,109                   |
| JL-49-22-524 | June 1951     | —  | 1.65                        | 1,213                   |
|              | Mar. 8, 1954  | 2,128  | 2.03                        | 1,492                   |
|              | Mar. 22, 1957 | —  | 2.10                        | 1,544                   |
| JL-49-22-525 | Apr. 18, 1956 | —  | 2.57                        | 1,889                   |
|              | Mar. 22, 1957 | —  | 3.27                        | 2,403                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-526 | Apr. 29, 1954 | 2,254  | 2.15                        | 1,580                   |
|              | Mar. 14, 1955 | 2,290  | 2.18                        | 1,602                   |
|              | May 3, 1955   | —  | 2.57                        | 1,889                   |
|              | Mar. 20, 1956 | 2,870  | 2.73                        | 2,007                   |
|              | Mar. 28, 1957 | —  | 2.65                        | 1,948                   |
|              | Mar. 4, 1964  | —  | 3.18                        | 2,337                   |
| JL-49-22-527 | Mar. 14, 1955 | 2,925  | 2.79                        | 2,051                   |
|              | Apr. 29, 1955 | —  | 1.57                        | 1,154                   |
|              | May 11, 1955  | —  | 2.81                        | 2,065                   |
|              | Mar. 28, 1957 | —  | 3.01                        | 2,212                   |
|              | Mar. 4, 1964  | —  | 3.62                        | 2,661                   |
| JL-49-22-528 | May 4, 1954   | 1,665  | 1.59                        | 1,169                   |
|              | Mar. 24, 1955 | 2,239  | 2.13                        | 1,566                   |
|              | May 11, 1955  | —  | 2.00                        | 1,470                   |
|              | Mar. 20, 1956 | 2,400  | 2.29                        | 1,683                   |
|              | Mar. 22, 1957 | —  | 2.20                        | 1,617                   |
|              | Mar. 16, 1964 | —  | 2.70                        | 1,985                   |
|              | May 3, 1966   | 3,000  | 2.86                        | 2,102                   |
| JL-49-22-529 | June 25, 1955 | —  | 2.48                        | 1,823                   |
|              | Apr. 24, 1956 | —  | 2.48                        | 1,823                   |
|              | Apr. 11, 1957 | —  | 2.30                        | 1,691                   |
|              | Mar. 31, 1964 | 2,480  | 2.19                        | 1,610                   |
| JL-49-22-530 | Apr. 3, 1955  | —  | 1.88                        | 1,382                   |
|              | Apr. 29, 1955 | —  | 1.90                        | 1,397                   |
|              | Apr. 24, 1956 | —  | 1.90                        | 1,397                   |
|              | Apr. 9, 1957  | —  | 1.68                        | 1,235                   |
| JL-49-22-531 | Apr. 16, 1954 | 1,776  | 1.69                        | 1,242                   |
|              | July 2, 1955  | 2,079  | 1.98                        | 1,455                   |
|              | May 21, 1956  | —  | 2.43                        | 1,786                   |
|              | Mar. 26, 1964 | 2,000  | 1.77                        | 1,301                   |
|              | Mar. 29, 1966 | 2,000  | 1.90                        | 1,397                   |
| JL-49-22-532 | Mar. 18, 1954 | 3,460  | 3.30                        | 2,426                   |
|              | Aug. 11, 1954 | 3,107  | 2.96                        | 2,176                   |
|              | June 25, 1955 | —  | 4.10                        | 3,014                   |
|              | June 4, 1956  | —  | 3.71                        | 2,727                   |
| JL-49-22-533 | Apr. 29, 1955 | —  | 7.05                        | 5,182                   |
|              | Aug. 28, 1956 | —  | 2.10                        | 1,544                   |
|              | Mar. 11, 1964 | 1,750  | 1.55                        | 1,139                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-534 | Feb. 28, 1955 | 2,495  | 2.38                        | 1,749                   |
|              | Mar. 20, 1956 | 3,200  | 3.05                        | 2,242                   |
|              | Mar. 19, 1957 | —  | 2.48                        | 1,823                   |
|              | Mar. 10, 1964 | 3,200  | 2.83                        | 2,080                   |
|              | May 27, 1966  | 2,630  | 2.50                        | 1,838                   |
| JL-49-22-535 | May 1951      | —  | 2.20                        | 1,617                   |
|              | Feb. 26, 1954 | 2,339  | 2.23                        | 1,639                   |
|              | Mar. 22, 1954 | 2,272  | 2.16                        | 1,588                   |
|              | Mar. 8, 1955  | 2,416  | 2.30                        | 1,691                   |
|              | Mar. 22, 1956 | 3,500  | 2.38                        | 1,749                   |
|              | Mar. 12, 1957 | —  | 1.87                        | 1,374                   |
|              | June 11, 1963 | 1,922  | 1.83                        | 1,345                   |
|              | Apr. 8, 1964  | 2,400  | 2.12                        | 1,558                   |
|              | May 27, 1966  | 1,889  | 1.80                        | 1,323                   |
| JL-49-22-536 | Apr. 29, 1955 | —  | 2.14                        | 1,573                   |
|              | May 25, 1956  | —  | 2.00                        | 1,470                   |
|              | Apr. 16, 1957 | —  | 1.77                        | 1,301                   |
|              | Mar. 9, 1964  | 1,950  | 1.72                        | 1,264                   |
| JL-49-22-537 | Aug. 9, 1956  | —  | 2.29                        | 1,683                   |
| JL-49-22-538 | Mar. 31, 1954 | 1,526  | 1.45                        | 1,066                   |
|              | Mar. 6, 1956  | —  | 1.81                        | 1,330                   |
| JL-49-22-539 | Mar. 6, 1954  | 2,562  | 2.44                        | 1,793                   |
|              | Apr. 13, 1955 | —  | 2.36                        | 1,735                   |
|              | Apr. 29, 1955 | —  | 2.29                        | 1,683                   |
|              | May 8, 1956   | —  | 3.14                        | 2,308                   |
|              | Apr. 12, 1957 | —  | 1.86                        | 1,367                   |
|              | Mar. 29, 1964 | 2,300  | 2.03                        | 1,492                   |
|              | Mar. 15, 1965 | —  | 3.09                        | 2,271                   |
| JL-49-22-540 | June 16, 1955 | —  | 4.76                        | 3,499                   |
|              | May 25, 1956  | —  | 4.29                        | 3,153                   |
|              | Mar. 27, 1957 | —  | 3.89                        | 2,859                   |
|              | Mar. 31, 1964 | 3,400  | 3.01                        | 2,212                   |
| JL-49-22-541 | July 12, 1954 | 1,414  | 1.35                        | 992                     |
|              | Apr. 7, 1955  | —  | 1.75                        | 1,286                   |
|              | Apr. 21, 1955 | —  | 1.95                        | 1,433                   |
|              | May 23, 1956  | —  | 1.98                        | 1,455                   |
|              | Apr. 10, 1957 | —  | 1.78                        | 1,308                   |
|              | Mar. 9, 1964  | —  | 1.71                        | 1,257                   |
| JL-49-22-542 | June 1, 1956  | —  | 1.81                        | 1,330                   |
|              | May 3, 1957   | —  | 1.87                        | 1,374                   |



Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-543 | June 25, 1955 | —  | 2.59                        | 1,904                   |
|              | June 30, 1955 | 2,238  | 2.13                        | 1,566                   |
|              | May 8, 1956   | —  | 2.38                        | 1,749                   |
|              | Mar. 12, 1957 | —  | 2.25                        | 1,654                   |
|              | Mar. 30, 1964 | 2,700  | 2.39                        | 1,757                   |
|              | Mar. 29, 1966 | 2,780  | 2.65                        | 1,948                   |
| JL-49-22-545 | Sept. 1951    | —  | 2.84                        | 2,087                   |
|              | Mar. 5, 1954  | 3,186  | 3.03                        | 2,227                   |
|              | Apr. 14, 1955 | —  | 3.05                        | 2,242                   |
|              | Apr. 21, 1955 | —  | 3.43                        | 2,521                   |
|              | Mar. 5, 1956  | —  | 3.14                        | 2,308                   |
|              | Mar. 18, 1964 | 3,100  | 2.74                        | 2,014                   |
| JL-49-22-546 | July 8, 1955  | 1,641  | 1.56                        | 1,147                   |
|              | Aug. 4, 1956  | —  | 2.14                        | 1,573                   |
| JL-49-22-547 | Mar. 24, 1955 | 3,261  | 3.11                        | 2,286                   |
|              | Mar. 20, 1956 | 3,400  | 3.24                        | 2,381                   |
|              | Mar. 22, 1957 | —  | 2.83                        | 2,080                   |
| JL-49-22-548 | Dec. 14, 1956 | 2,584  | 2.46                        | 1,808                   |
|              | Mar. 12, 1957 | —  | 2.28                        | 1,676                   |
|              | May 27, 1966  | 2,499  | 2.38                        | 1,749                   |
| JL-49-22-552 | June 1956     | —  | 3.79                        | 2,786                   |
|              | Aug. 20, 1956 | —  | 2.52                        | 1,852                   |
|              | Mar. 31, 1964 | 2,350  | 2.08                        | 1,529                   |
| JL-49-22-602 | June 1951     | —  | 2.52                        | 1,852                   |
|              | Feb. 24, 1954 | 4,164  | 3.97                        | 2,918                   |
|              | Mar. 23, 1955 | 2,170  | 2.07                        | 1,521                   |
|              | May 3, 1955   | —  | 4.29                        | 3,153                   |
|              | Mar. 20, 1956 | 4,000  | 3.81                        | 2,800                   |
|              | Mar. 28, 1957 | —  | 3.54                        | 2,602                   |
|              | Mar. 4, 1964  | —  | 4.16                        | 3,058                   |
| JL-49-22-603 | Sept. 1951    | —  | 1.82                        | 1,338                   |
|              | Mar. 11, 1954 | 2,178  | 2.07                        | 1,521                   |
|              | Mar. 14, 1955 | 2,342  | 2.23                        | 1,639                   |
|              | May 11, 1955  | —  | 2.38                        | 1,749                   |
|              | Apr. 3, 1956  | —  | 2.29                        | 1,683                   |
|              | Mar. 20, 1957 | —  | 2.48                        | 1,823                   |
|              | Mar. 16, 1964 | —  | 2.83                        | 2,080                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-604 | Mar. 12, 1954 | 2,357  | 2.24                        | 1,646                   |
|              | June 21, 1954 | 2,211  | 2.11                        | 1,551                   |
|              | Mar. 14, 1955 | 2,316  | 2.21                        | 1,624                   |
|              | May 11, 1955  | —  | 2.50                        | 1,838                   |
|              | Mar. 20, 1956 | 2,650  | 2.52                        | 1,852                   |
|              | Mar. 28, 1957 | —  | 2.70                        | 1,985                   |
| JL-49-22-605 | May 10, 1954  | 1,640  | 1.56                        | 1,147                   |
|              | May 20, 1955  | —  | 2.00                        | 1,470                   |
|              | Aug. 13, 1956 | —  | 2.86                        | 2,102                   |
| JL-49-22-606 | June 28, 1955 | —  | 2.05                        | 1,507                   |
|              | June 10, 1956 | —  | 2.10                        | 1,544                   |
| JL-49-22-608 | Mar. 5, 1954  | 4,240  | 4.04                        | 2,969                   |
|              | June 25, 1955 | —  | 4.10                        | 3,014                   |
|              | June 29, 1956 | —  | 3.81                        | 2,800                   |
| JL-49-22-609 | June 17, 1954 | 3,011  | 2.87                        | 2,109                   |
|              | Mar. 24, 1955 | 2,526  | 2.41                        | 1,771                   |
|              | May 10, 1955  | —  | 4.76                        | 3,499                   |
|              | Mar. 20, 1956 | 5,400  | 5.14                        | 3,778                   |
|              | May 17, 1957  | —  | 4.33                        | 3,183                   |
| JL-49-22-610 | Mar. 26, 1954 | 2,448  | 2.33                        | 1,713                   |
|              | June 30, 1955 | 2,348  | 2.24                        | 1,646                   |
|              | Aug. 6, 1956  | —  | 2.95                        | 2,168                   |
|              | Mar. 12, 1964 | —  | 3.18                        | 2,337                   |
| JL-49-22-611 | Apr. 29, 1955 | —  | 2.43                        | 1,786                   |
|              | Aug. 24, 1956 | —  | 2.48                        | 1,823                   |
| JL-49-22-612 | June 25, 1955 | —  | 5.24                        | 3,851                   |
|              | Aug. 6, 1956  | —  | 5.71                        | 4,197                   |
|              | Mar. 9, 1964  | —  | 5.30                        | 3,896                   |
|              | Mar. 16, 1965 | —  | 4.64                        | 3,410                   |
|              | May 2, 1966   | 5,350  | 5.10                        | 3,749                   |
| JL-49-22-614 | Mar. 10, 1954 | 2,468  | 2.35                        | 1,727                   |
|              | July 2, 1956  | —  | 2.43                        | 1,786                   |
|              | May 14, 1957  | —  | 2.40                        | 1,764                   |
| JL-49-22-615 | June 17, 1954 | 3,848  | 3.66                        | 2,690                   |
|              | Mar. 14, 1955 | 5,094  | 4.85                        | 3,565                   |
|              | May 4, 1955   | —  | 5.24                        | 3,851                   |
|              | Apr. 3, 1956  | —  | 5.14                        | 3,778                   |
|              | Mar. 20, 1957 | —  | 4.77                        | 3,506                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-806 | Mar. 22, 1954 | 1,997  | 1.90                        | 1,397                   |
|              | June 25, 1955 | —  | 2.38                        | 1,749                   |
|              | June 9, 1956  | —  | 2.48                        | 1,823                   |
|              | Apr. 30, 1957 | —  | 2.23                        | 1,639                   |
|              | Mar. 11, 1964 | 2,550  | 2.25                        | 1,654                   |
| JL-49-22-807 | Mar. 23, 1955 | 1,834  | 1.75                        | 1,286                   |
|              | Apr. 25, 1956 | —  | 1.71                        | 1,257                   |
|              | Mar. 19, 1957 | —  | 1.77                        | 1,301                   |
|              | June 10, 1963 | 1,930  | 1.84                        | 1,352                   |
| JL-49-22-808 | Apr. 28, 1955 | —  | 1.80                        | 1,323                   |
|              | Apr. 23, 1956 | —  | 1.81                        | 1,330                   |
|              | Feb. 26, 1957 | —  | 1.61                        | 1,183                   |
| JL-49-22-809 | Apr. 24, 1955 | —  | 2.29                        | 1,683                   |
|              | Aug. 6, 1956  | —  | 2.38                        | 1,749                   |
|              | May 6, 1957   | —  | 2.34                        | 1,720                   |
|              | Mar. 21, 1964 | 2,500  | 2.21                        | 1,624                   |
|              | Mar. 29, 1966 | 2,490  | 2.37                        | 1,742                   |
| JL-49-22-810 | 1951          | —  | 1.81                        | 1,330                   |
|              | July 1951     | —  | 1.83                        | 1,345                   |
|              | July 6, 1955  | 2,659  | 2.53                        | 1,860                   |
|              | May 21, 1956  | —  | 3.10                        | 2,279                   |
|              | Apr. 9, 1957  | —  | 2.61                        | 1,918                   |
| JL-49-22-811 | May 10, 1954  | 3,154  | 3.00                        | 2,205                   |
|              | Apr. 29, 1955 | —  | 3.62                        | 2,661                   |
|              | Aug. 6, 1956  | —  | 3.81                        | 2,800                   |
|              | May 9, 1957   | —  | 3.89                        | 2,859                   |
|              | Mar. 18, 1964 | —  | 2.34                        | 1,720                   |
|              | Mar. 16, 1965 | —  | 3.54                        | 2,602                   |
| JL-49-22-812 | Mar. 18, 1954 | 3,928  | 3.74                        | 2,749                   |
|              | June 25, 1955 | —  | 3.05                        | 2,242                   |
|              | Aug. 27, 1956 | —  | 3.71                        | 2,727                   |
| JL-49-22-814 | Mar. 25, 1954 | 4,124  | 3.93                        | 2,889                   |
|              | May 8, 1956   | —  | 4.48                        | 3,293                   |
| JL-49-22-816 | May 1951      | —  | 2.72                        | 1,999                   |
|              | Mar. 17, 1954 | 3,011  | 2.87                        | 2,109                   |
|              | June 2, 1956  | —  | 3.05                        | 2,242                   |
|              | Mar. 16, 1965 | —  | 2.96                        | 2,176                   |
|              | Apr. 25, 1966 | 3,340  | 3.18                        | 2,337                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-817 | June 23, 1955 | —  | 4.00                        | 2,940                   |
|              | May 20, 1956  | —  | 3.71                        | 2,727                   |
| JL-49-22-819 | Mar. 16, 1954 | 3,306  | 3.15                        | 2,315                   |
|              | Apr. 29, 1955 | —  | 3.81                        | 2,800                   |
|              | May 29, 1956  | —  | 3.08                        | 2,264                   |
| JL-49-22-820 | June 28, 1955 | 3,334  | 3.18                        | 2,337                   |
|              | May 29, 1956  | —  | 3.62                        | 2,661                   |
|              | May 14, 1957  | —  | 3.63                        | 2,668                   |
|              | Apr. 2, 1964  | 4,200  | 3.71                        | 2,727                   |
|              | Aug. 1965     | 4,000  | 3.54                        | 2,602                   |
| JL-49-22-821 | Oct. 13, 1955 | 5,082  | 4.84                        | 3,557                   |
|              | June 1, 1956  | —  | 4.67                        | 3,432                   |
|              | Apr. 3, 1957  | —  | 4.95                        | 3,638                   |
|              | Mar. 4, 1964  | —  | 3.27                        | 2,403                   |
| JL-49-22-822 | July 6, 1955  | 2,742  | 2.61                        | 1,918                   |
|              | May 23, 1956  | —  | 4.19                        | 3,080                   |
|              | Mar. 20, 1964 | —  | 3.89                        | 2,859                   |
|              | Aug. 1965     | 3,075  | 2.72                        | 1,999                   |
| JL-49-22-823 | Mar. 24, 1955 | 2,994  | 2.85                        | 2,095                   |
|              | May 2, 1956   | —  | 2.69                        | 1,977                   |
|              | May 19, 1957  | —  | 2.74                        | 2,014                   |
|              | Mar. 10, 1964 | —  | 2.65                        | 1,948                   |
| JL-49-22-824 | July 31, 1956 | —  | 4.86                        | 3,572                   |
|              | Mar. 20, 1964 | —  | 4.51                        | 3,315                   |
| JL-49-22-825 | July 9, 1955  | 1,537  | 1.46                        | 1,073                   |
|              | June 20, 1956 | —  | 2.02                        | 1,485                   |
|              | Mar. 23, 1964 | —  | 2.03                        | 1,492                   |
|              | Aug. 1964     | —  | 1.51                        | 1,110                   |
| JL-49-22-826 | May 9, 1956   | —  | 1.95                        | 1,433                   |
| JL-49-22-827 | Apr. 15, 1955 | —  | 3.43                        | 2,521                   |
|              | June 7, 1956  | —  | 3.48                        | 2,558                   |
|              | Mar. 27, 1957 | —  | 1.86                        | 1,367                   |
|              | Mar. 23, 1964 | —  | 2.56                        | 1,882                   |
| JL-49-22-828 | June 21, 1955 | —  | 3.05                        | 2,242                   |
|              | June 10, 1956 | —  | 2.67                        | 1,962                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-829 | Apr. 19, 1955 | —  | 2.48                        | 1,823                   |
|              | June 17, 1956 | —  | 2.71                        | 1,992                   |
|              | Mar. 31, 1957 | —  | 3.18                        | 2,337                   |
|              | Mar. 20, 1964 | —  | 2.70                        | 1,985                   |
| JL-49-22-830 | July 13, 1955 | 1,781  | 1.70                        | 1,250                   |
|              | Apr. 25, 1956 | —  | 1.95                        | 1,433                   |
|              | Mar. 31, 1957 | —  | 2.12                        | 1,558                   |
|              | Mar. 20, 1964 | —  | 1.65                        | 1,213                   |
| JL-49-22-831 | June 1951     | —  | 1.29                        | 948                     |
|              | Apr. 19, 1955 | —  | 1.90                        | 1,397                   |
|              | July 24, 1956 | —  | 1.90                        | 1,397                   |
|              | Mar. 31, 1957 | —  | 1.84                        | 1,352                   |
| JL-49-22-832 | May 31, 1955  | —  | 2.81                        | 2,065                   |
|              | May 2, 1956   | —  | 2.95                        | 2,168                   |
|              | Apr. 1, 1957  | —  | 3.36                        | 2,470                   |
|              | Mar. 28, 1964 | 1,750  | 1.55                        | 1,139                   |
| JL-49-22-834 | Feb. 25, 1954 | 3,031  | 2.89                        | 2,124                   |
|              | Apr. 19, 1955 | —  | 3.14                        | 2,308                   |
|              | May 24, 1955  | —  | 3.24                        | 2,381                   |
|              | June 12, 1956 | —  | 2.95                        | 2,168                   |
|              | Mar. 10, 1964 | —  | 1.62                        | 1,191                   |
| JL-49-22-836 | Mar. 25, 1955 | 2,010  | 1.91                        | 1,404                   |
|              | Apr. 30, 1956 | —  | 2.33                        | 1,713                   |
|              | Apr. 28, 1957 | —  | 2.25                        | 1,654                   |
| JL-49-22-838 | Oct. 10, 1956 | 2,984  | 2.84                        | 2,087                   |
|              | Apr. 12, 1957 | —  | 2.56                        | 1,882                   |
| JL-49-22-901 | June 1951     | —  | 2.47                        | 1,815                   |
|              | Feb. 26, 1954 | 3,498  | 3.33                        | 2,448                   |
|              | Apr. 1955     | —  | 4.19                        | 3,080                   |
|              | Aug. 9, 1956  | —  | 3.67                        | 2,697                   |
|              | May 14, 1957  | —  | 3.40                        | 2,499                   |
|              | Mar. 4, 1964  | —  | 3.09                        | 2,271                   |
| JL-49-22-903 | Mar. 15, 1954 | 3,324  | 3.17                        | 2,330                   |
|              | Apr. 5, 1955  | —  | 3.43                        | 2,521                   |
|              | May 25, 1956  | —  | 3.71                        | 2,727                   |
|              | Mar. 9, 1964  | —  | 3.49                        | 2,565                   |
|              | Mar. 16, 1965 | —  | 3.01                        | 2,212                   |
|              | May 3, 1966   | 3,390  | 3.23                        | 2,374                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25°C) | Dissolved-solids<br>content |                         |
|--------------|---------------|---|-----------------------------|-------------------------|
|              |               |   | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-904 | Mar. 15, 1954 | 3,011   | 2.87                        | 2,109                   |
|              | Apr. 20, 1955 | —   | 3.26                        | 2,396                   |
|              | June 26, 1955 | —   | 3.24                        | 2,381                   |
|              | May 8, 1956   | —   | 3.81                        | 2,800                   |
|              | Mar. 11, 1957 | —   | 3.36                        | 2,470                   |
|              | Mar. 15, 1965 | —   | 3.76                        | 2,764                   |
|              | May 2, 1966   | 4,250   | 4.05                        | 2,977                   |
| JL-49-22-905 | Apr. 21, 1955 | —   | 3.43                        | 2,521                   |
|              | June 30, 1955 | 1,962   | 1.87                        | 1,374                   |
|              | July 4, 1956  | —   | 2.43                        | 1,786                   |
|              | Mar. 11, 1957 | —   | 2.23                        | 1,639                   |
|              | Mar. 20, 1964 | —   | 3.01                        | 2,212                   |
| JL-49-22-906 | Aug. 14, 1956 | —   | 2.40                        | 1,764                   |
|              | Mar. 19, 1957 | —   | 2.21                        | 1,624                   |
|              | Mar. 4, 1964  | —   | 2.21                        | 1,624                   |
|              | Mar. 16, 1965 | —   | 2.21                        | 1,624                   |
| JL-49-22-907 | Apr. 4, 1955  | 4,000   | 3.81                        | 2,800                   |
|              | Aug. 6, 1956  | —   | 4.19                        | 3,080                   |
| JL-49-22-908 | Apr. 21, 1955 | —   | 6.95                        | 5,108                   |
|              | Aug. 6, 1956  | —   | 6.67                        | 4,902                   |
| JL-49-22-909 | June 29, 1955 | —   | 3.81                        | 2,800                   |
|              | May 22, 1956  | —   | 4.38                        | 3,219                   |
|              | Mar. 18, 1964 | —   | 3.98                        | 2,925                   |
|              | Feb. 19, 1965 | —   | 3.98                        | 2,925                   |
| JL-49-22-910 | Aug. 26, 1956 | —   | 2.10                        | 1,544                   |
| JL-49-22-911 | May 1951      | —   | 5.60                        | 4,116                   |
|              | Apr. 21, 1955 | —   | 5.24                        | 3,851                   |
|              | Aug. 15, 1956 | —   | 5.14                        | 3,778                   |
| JL-49-22-912 | June 4, 1955  | —   | 3.33                        | 2,448                   |
|              | Aug. 7, 1956  | —   | 3.90                        | 2,867                   |
|              | Mar. 19, 1957 | —   | 3.45                        | 2,536                   |
|              | Mar. 9, 1964  | —   | 3.09                        | 2,271                   |
|              | Mar. 18, 1965 | —   | 3.36                        | 2,470                   |
| JL-49-22-913 | Mar. 29, 1955 | —   | 2.43                        | 1,786                   |
|              | Aug. 9, 1956  | —   | 2.86                        | 2,102                   |
|              | Mar. 19, 1957 | —   | 2.48                        | 1,823                   |
|              | Mar. 4, 1964  | —   | 2.30                        | 1,691                   |
| JL-49-22-914 | June 5, 1955  | —   | 2.38                        | 1,749                   |
|              | May 29, 1956  | —   | 2.38                        | 1,749                   |
|              | Mar. 10, 1964 | —   | 2.40                        | 1,764                   |
| JL-49-22-916 | Mar. 15, 1954 | 2,357   | 2.24                        | 1,646                   |
|              | Apr. 21, 1955 | —   | 2.43                        | 1,786                   |
|              | Aug. 6, 1956  | —   | 2.76                        | 2,029                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-917 | Mar. 30, 1955 | —  | 3.00                        | 2,205                   |
|              | May 9, 1956   | —  | 3.24                        | 2,381                   |
|              | Apr. 1, 1964  | 3,020  | 2.67                        | 1,962                   |
| JL-49-22-918 | Feb. 24, 1954 | 2,737  | 2.61                        | 1,918                   |
|              | Mar. 30, 1955 | —  | 2.67                        | 1,962                   |
|              | May 9, 1956   | —  | 2.95                        | 2,168                   |
|              | Mar. 19, 1957 | —  | 2.67                        | 1,962                   |
|              | Mar. 21, 1964 | —  | 3.18                        | 2,337                   |
| JL-49-22-919 | Mar. 16, 1954 | 2,125  | 2.02                        | 1,485                   |
|              | Apr. 21, 1955 | —  | 2.86                        | 2,102                   |
|              | May 11, 1956  | —  | 2.86                        | 2,102                   |
|              | Mar. 19, 1957 | —  | 2.83                        | 2,080                   |
|              | Mar. 19, 1964 | —  | 2.48                        | 1,823                   |
|              | Aug. 1965     | 3,575  | 3.16                        | 2,323                   |
| JL-49-22-920 | Apr. 14, 1954 | 3,272  | 3.12                        | 2,293                   |
|              | Apr. 14, 1955 | —  | 3.38                        | 2,484                   |
|              | Apr. 21, 1955 | —  | 3.33                        | 2,448                   |
|              | May 24, 1956  | —  | 3.24                        | 2,381                   |
|              | May 14, 1957  | —  | 3.01                        | 2,212                   |
|              | Mar. 13, 1964 | —  | 3.38                        | 2,484                   |
|              | Mar. 15, 1965 | —  | 3.18                        | 2,337                   |
|              | May 2, 1966   | 3,590  | 3.42                        | 2,514                   |
| JL-49-22-921 | Mar. 18, 1954 | 2,468  | 2.35                        | 1,727                   |
|              | Apr. 29, 1955 | —  | 2.67                        | 1,962                   |
|              | May 23, 1956  | —  | 2.62                        | 1,926                   |
|              | May 14, 1957  | —  | 2.43                        | 1,786                   |
|              | Mar. 4, 1964  | —  | 2.74                        | 2,014                   |
|              | Mar. 15, 1965 | —  | 2.56                        | 1,882                   |
|              | Apr. 27, 1966 | 2,890  | 2.75                        | 2,021                   |
| JL-49-22-922 | Apr. 21, 1955 | —  | 2.48                        | 1,823                   |
|              | Apr. 11, 1956 | —  | 2.33                        | 1,713                   |
|              | May 24, 1956  | —  | 2.29                        | 1,683                   |
|              | Mar. 5, 1964  | —  | 2.03                        | 1,492                   |
| JL-49-22-923 | Mar. 3, 1954  | 3,752  | 3.57                        | 2,624                   |
|              | Apr. 3, 1955  | —  | 4.67                        | 3,432                   |
|              | May 11, 1956  | —  | 4.76                        | 3,499                   |
|              | May 16, 1957  | —  | 4.95                        | 3,638                   |
|              | Mar. 12, 1964 | —  | 3.52                        | 2,587                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-924 | May 1951      | —  | 4.30                        | 3,161                   |
|              | Feb. 24, 1954 | 2,144  | 2.04                        | 1,499                   |
|              | Mar. 15, 1954 | 3,104  | 2.96                        | 2,176                   |
|              | May 1955      | —  | 4.10                        | 3,014                   |
|              | June 17, 1955 | —  | 3.71                        | 2,727                   |
|              | May 9, 1956   | —  | 4.19                        | 3,080                   |
|              | Aug. 23, 1956 | —  | 4.76                        | 3,499                   |
|              | May 22, 1957  | —  | 4.42                        | 3,249                   |
|              | Mar. 5, 1964  | —  | 4.24                        | 3,116                   |
|              | Mar. 30, 1964 | 4,200  | 3.71                        | 2,727                   |
|              | Mar. 16, 1965 | —  | 4.24                        | 3,116                   |
| JL-49-22-925 | June 11, 1956 | —  | 3.24                        | 2,381                   |
|              | May 14, 1957  | —  | 4.42                        | 3,249                   |
| JL-49-22-927 | May 1951      | —  | 2.95                        | 2,168                   |
|              | June 1951     | —  | 3.03                        | 2,227                   |
|              | Mar. 22, 1954 | 3,345  | 3.19                        | 2,345                   |
|              | May 23, 1955  | —  | 3.81                        | 2,800                   |
|              | June 17, 1955 | —  | 4.00                        | 2,940                   |
|              | May 23, 1956  | —  | 4.67                        | 3,432                   |
|              | Aug. 23, 1956 | —  | 4.29                        | 3,153                   |
| JL-49-22-928 | June 9, 1954  | 2,733  | 2.60                        | 1,911                   |
|              | Apr. 21, 1955 | —  | 4.19                        | 3,080                   |
|              | June 5, 1956  | —  | 5.05                        | 3,712                   |
|              | May 22, 1957  | —  | 5.66                        | 4,160                   |
|              | Mar. 30, 1964 | 8,000  | 7.07                        | 5,196                   |
|              | Aug. 1965     | 7,100  | 6.28                        | 4,616                   |
|              | Mar. 29, 1966 | 7,840  | 7.47                        | 5,490                   |
| JL-49-22-929 | Feb. 24, 1954 | 2,387  | 2.27                        | 1,668                   |
|              | Apr. 16, 1955 | —  | 2.14                        | 1,573                   |
|              | May 15, 1956  | —  | 2.49                        | 1,830                   |
|              | Apr. 10, 1957 | —  | 2.48                        | 1,823                   |
|              | Mar. 7, 1964  | —  | 2.67                        | 1,962                   |
|              | Mar. 16, 1965 | —  | 2.65                        | 1,948                   |
|              | May 2, 1966   | 3,030  | 2.89                        | 2,124                   |
| JL-49-22-931 | Feb. 24, 1954 | 2,392  | 2.28                        | 1,676                   |
|              | June 25, 1955 | —  | 2.76                        | 2,029                   |
|              | May 15, 1956  | —  | 2.95                        | 2,168                   |
|              | Mar. 12, 1964 | —  | 3.18                        | 2,337                   |
|              | Mar. 16, 1965 | —  | 2.39                        | 1,757                   |
|              | Apr. 27, 1966 | 2,780  | 2.65                        | 1,948                   |



Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-22-932 | Aug. 8, 1956  | —  | 2.85                        | 2,095                   |
|              | Mar. 16, 1965 | —  | 3.36                        | 2,470                   |
| JL-49-22-933 | Feb. 23, 1954 | 2,412  | 2.30                        | 1,691                   |
|              | Mar. 25, 1955 | 2,468  | 2.35                        | 1,727                   |
|              | Apr. 17, 1956 | —  | 2.69                        | 1,977                   |
|              | Mar. 31, 1957 | —  | 2.66                        | 1,955                   |
|              | Mar. 20, 1964 | —  | 2.10                        | 1,544                   |
|              | Mar. 31, 1965 | —  | 2.34                        | 1,720                   |
| JL-49-22-934 | Mar. 17, 1955 | 4,187  | 3.99                        | 2,933                   |
|              | Aug. 14, 1956 | —  | 5.14                        | 3,778                   |
|              | May 22, 1957  | —  | 4.95                        | 3,638                   |
|              | Apr. 2, 1964  | 4,400  | 3.89                        | 2,859                   |
| JL-49-22-935 | June 10, 1956 | —  | 2.71                        | 1,992                   |
| JL-49-22-936 | Mar. 18, 1954 | 2,551  | 2.43                        | 1,786                   |
|              | July 5, 1955  | 2,782  | 2.65                        | 1,948                   |
|              | Aug. 6, 1956  | —  | 3.14                        | 2,308                   |
|              | Mar. 15, 1965 | —  | 2.70                        | 1,985                   |
| JL-49-22-937 | Mar. 11, 1954 | 2,320  | 2.21                        | 1,624                   |
|              | Apr. 20, 1955 | —  | 2.95                        | 2,168                   |
|              | Apr. 21, 1955 | —  | 3.26                        | 2,396                   |
|              | May 23, 1956  | —  | 2.81                        | 2,065                   |
|              | Mar. 5, 1964  | —  | 3.01                        | 2,212                   |
|              | Mar. 16, 1965 | —  | 2.96                        | 2,176                   |
|              | May 2, 1966   | 3,470  | 3.23                        | 2,374                   |
| JL-49-22-938 | May 24, 1955  | —  | 4.95                        | 3,638                   |
|              | June 21, 1956 | —  | 4.67                        | 3,432                   |
|              | June 21, 1957 | —  | 4.42                        | 3,249                   |
|              | Mar. 19, 1964 | 3,050  | 2.70                        | 1,985                   |
|              | Mar. 23, 1964 | —  | 3.01                        | 2,212                   |
| JL-49-22-940 | Mar. 4, 1954  | 3,480  | 3.31                        | 2,433                   |
|              | May 22, 1956  | —  | 3.05                        | 2,242                   |
|              | May 22, 1957  | —  | 3.18                        | 2,337                   |
|              | Mar. 12, 1964 | —  | 2.61                        | 1,918                   |
|              | Aug. 1965     | 3,600  | 3.19                        | 2,345                   |
| JL-49-22-943 | Apr. 26, 1957 | —  | 3.54                        | 2,602                   |
| JL-49-22-945 | Aug. 15, 1956 | —  | 2.24                        | 1,646                   |
|              | May 16, 1957  | —  | 2.30                        | 1,691                   |
|              | Mar. 18, 1964 | —  | 3.54                        | 2,602                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-23-703 | Mar. 19, 1954 | 4,444  | 4.23                        | 3,109                   |
|              | Mar. 16, 1965 | —  | 4.42                        | 3,249                   |
|              | May 27, 1966  | 4,980  | 4.74                        | 3,484                   |
| JL-49-23-704 | June 9, 1954  | 3,701  | 3.52                        | 2,587                   |
|              | June 29, 1955 | —  | 4.57                        | 3,359                   |
|              | May 10, 1956  | —  | 4.29                        | 3,153                   |
|              | Mar. 30, 1964 | 4,600  | 4.07                        | 2,991                   |
|              | Mar. 16, 1965 | —  | 4.07                        | 2,991                   |
|              | May 2, 1966   | 4,610  | 4.39                        | 3,227                   |
| JL-49-23-705 | June 29, 1955 | —  | 3.24                        | 2,381                   |
|              | Aug. 15, 1956 | —  | 3.33                        | 2,448                   |
|              | Mar. 19, 1964 | —  | 3.01                        | 2,212                   |
|              | Aug. 1965     | 3,900  | 3.45                        | 2,536                   |
| JL-49-30-201 | Apr. 17, 1956 | —  | 2.87                        | 2,109                   |
|              | Feb. 26, 1957 | —  | 2.48                        | 1,823                   |
|              | Mar. 10, 1964 | —  | 1.86                        | 1,367                   |
| JL-49-30-202 | Mar. 15, 1954 | 2,633  | 2.51                        | 1,845                   |
|              | Mar. 24, 1955 | 2,869  | 2.73                        | 2,007                   |
|              | Feb. 26, 1957 | —  | 2.70                        | 1,985                   |
|              | Mar. 10, 1964 | —  | 2.12                        | 1,558                   |
| JL-49-30-203 | June 23, 1954 | 2,132  | 2.03                        | 1,492                   |
|              | July 20, 1954 | 1,957  | 1.86                        | 1,367                   |
|              | Apr. 19, 1955 | —  | 2.48                        | 1,823                   |
|              | July 31, 1956 | —  | 2.57                        | 1,889                   |
|              | June 19, 1957 | —  | 2.17                        | 1,595                   |
|              | Mar. 10, 1964 | —  | 1.95                        | 1,433                   |
| JL-49-30-204 | Apr. 29, 1955 | —  | 2.71                        | 1,992                   |
|              | Apr. 30, 1956 | —  | 2.86                        | 2,102                   |
|              | June 7, 1956  | —  | 2.00                        | 1,470                   |
|              | Feb. 26, 1957 | —  | 2.12                        | 1,558                   |
| JL-49-30-206 | Mar. 19, 1954 | 1,673  | 1.59                        | 1,169                   |
|              | Mar. 24, 1955 | 1,833  | 1.75                        | 1,286                   |
|              | Apr. 17, 1956 | —  | 2.05                        | 1,507                   |
|              | Mar. 10, 1964 | —  | 1.64                        | 1,205                   |
|              | Apr. 1, 1965  | —  | 1.55                        | 1,139                   |
|              | Apr. 28, 1966 | 1,700  | 1.62                        | 1,191                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25°C) | Dissolved-solids<br>content |                         |
|--------------|---------------|---|-----------------------------|-------------------------|
|              |               |   | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-30-304 | Feb. 25, 1954 | 2,511   | 2.39                        | 1,757                   |
|              | Aug. 4, 1955  | 3,642   | 3.47                        | 2,550                   |
|              | Apr. 27, 1956 | —   | 4.19                        | 3,080                   |
|              | Feb. 20, 1957 | 4,428   | 4.22                        | 3,102                   |
|              | Mar. 1964     | —   | 2.92                        | 2,146                   |
|              | Aug. 1965     | 3,900   | 3.45                        | 2,536                   |
| JL-49-30-305 | Feb. 23, 1954 | 3,079   | 2.93                        | 2,154                   |
|              | Apr. 28, 1955 | —   | 3.67                        | 2,697                   |
|              | Apr. 9, 1956  | —   | 3.48                        | 2,558                   |
|              | Mar. 19, 1957 | —   | 3.18                        | 2,337                   |
|              | Mar. 1964     | —   | 3.23                        | 2,374                   |
|              | Apr. 20, 1966 | 3,610   | 3.44                        | 2,528                   |
| JL-49-30-306 | May 10, 1954  | 2,986   | 2.84                        | 2,087                   |
|              | Apr. 26, 1955 | —   | 2.95                        | 2,168                   |
|              | Apr. 21, 1956 | —   | 3.05                        | 2,242                   |
|              | Apr. 10, 1957 | —   | 3.36                        | 2,470                   |
|              | Aug. 1964     | —   | 3.51                        | 2,580                   |
| JL-49-30-307 | Apr. 27, 1954 | 2,530   | 2.41                        | 1,771                   |
|              | Apr. 28, 1955 | —   | 4.48                        | 3,293                   |
|              | Apr. 29, 1955 | —   | 4.48                        | 3,293                   |
|              | Apr. 17, 1956 | —   | 5.24                        | 3,851                   |
| JL-49-30-308 | Feb. 1951     | —   | 2.66                        | 1,955                   |
|              | Feb. 25, 1954 | 2,796   | 2.66                        | 1,955                   |
|              | Aug. 6, 1954  | 3,107   | 2.96                        | 2,176                   |
|              | Mar. 25, 1955 | 3,122   | 2.97                        | 2,183                   |
|              | Apr. 17, 1956 | —   | 3.62                        | 2,661                   |
|              | Feb. 26, 1957 | —   | 3.80                        | 2,793                   |
|              | Apr. 1, 1965  | —   | 3.18                        | 2,337                   |
| JL-49-30-309 | June 1951     | —   | 1.96                        | 1,441                   |
|              | July 1951     | —   | 3.85                        | 2,830                   |
|              | Mar. 19, 1954 | 3,763   | 3.58                        | 2,631                   |
|              | Apr. 15, 1955 | —   | 5.14                        | 3,778                   |
|              | Apr. 14, 1956 | —   | 5.24                        | 3,851                   |
|              | Mar. 29, 1964 | 2,000   | 1.77                        | 1,301                   |
|              | Mar. 31, 1965 | —   | 2.34                        | 1,720                   |
| JL-49-30-310 | Feb. 24, 1954 | 3,859   | 3.68                        | 2,705                   |
|              | June 21, 1955 | —   | 4.10                        | 3,014                   |
|              | Apr. 14, 1956 | —   | 4.48                        | 3,293                   |
|              | Mar. 27, 1957 | —   | 4.16                        | 3,058                   |
|              | Feb. 23, 1964 | —   | 4.42                        | 3,249                   |
|              | 1964          | 2,700   | 3.27                        | 2,403                   |
|              | Mar. 31, 1965 | —   | 3.98                        | 2,925                   |
|              | May 27, 1966  | 4,480   | 4.27                        | 3,138                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-30-311 | Feb. 20, 1957 | 4,938  | 4.70                        | 3,455                   |
|              | Mar. 10, 1964 | —  | 4.86                        | 3,572                   |
| JL-49-30-312 | Mar. 8, 1954  | 4,444  | 4.23                        | 3,109                   |
|              | Apr. 6, 1955  | 5,714  | 5.44                        | 3,998                   |
|              | Aug. 22, 1956 | —  | 5.24                        | 3,851                   |
| JL-49-30-313 | Apr. 4, 1955  | —  | 3.43                        | 2,521                   |
|              | Apr. 25, 1956 | —  | 3.43                        | 2,521                   |
|              | May 3, 1957   | —  | 3.71                        | 2,727                   |
| JL-49-30-314 | June 2, 1955  | —  | 2.16                        | 1,588                   |
|              | Apr. 26, 1956 | —  | 2.67                        | 1,962                   |
|              | Mar. 27, 1957 | —  | 2.56                        | 1,882                   |
| JL-49-30-315 | Feb. 24, 1954 | 2,643  | 2.52                        | 1,852                   |
|              | Apr. 28, 1955 | —  | 3.62                        | 2,661                   |
|              | Apr. 25, 1956 | —  | 3.62                        | 2,661                   |
|              | Mar. 27, 1957 | —  | 3.54                        | 2,602                   |
|              | Mar. 20, 1964 | —  | 2.79                        | 2,051                   |
|              | Mar. 31, 1965 | —  | 3.36                        | 2,470                   |
| JL-49-30-316 | Apr. 15, 1955 | —  | 2.00                        | 1,470                   |
|              | Apr. 14, 1956 | —  | 2.10                        | 1,544                   |
|              | Apr. 24, 1957 | —  | 4.69                        | 3,447                   |
|              | Apr. 2, 1964  | 1,550  | 1.37                        | 1,007                   |
|              | May 22, 1966  | 1,510  | 1.44                        | 1,058                   |
| JL-49-30-317 | Apr. 4, 1955  | —  | 3.62                        | 2,661                   |
|              | Apr. 15, 1955 | —  | 3.76                        | 2,764                   |
|              | Apr. 30, 1956 | —  | 3.24                        | 2,381                   |
|              | May 5, 1956   | —  | 1.85                        | 1,360                   |
|              | Mar. 31, 1965 | —  | 3.01                        | 2,212                   |
| JL-49-30-318 | Mar. 22, 1954 | 4,976  | 4.74                        | 3,484                   |
|              | Apr. 5, 1955  | —  | 4.38                        | 3,219                   |
|              | Aug. 29, 1956 | —  | 4.00                        | 2,940                   |
|              | Apr. 17, 1957 | —  | 3.45                        | 2,536                   |
|              | Mar. 29, 1964 | 3,050  | 2.70                        | 1,985                   |
|              | Mar. 31, 1965 | —  | 2.30                        | 1,691                   |
| JL-49-30-319 | May 27, 1966  | 2,560  | 2.44                        | 1,793                   |
|              | Apr. 17, 1956 | —  | 3.62                        | 2,661                   |
|              | June 26, 1957 | —  | 3.54                        | 2,602                   |
|              | Apr. 7, 1965  | —  | 2.96                        | 2,176                   |
|              | Apr. 28, 1966 | 3,320  | 3.16                        | 2,323                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well          | Date          | Specific conductance (micromhos at 25° C) | Dissolved-solids content |                      |
|---------------|---------------|---|--------------------------|----------------------|
|               |               |   | Tons per acre-foot       | Milligrams per liter |
| JL-49-30-320  | Apr. 28, 1955 | —   | 7.24                     | 5,321                |
| JL-49-30-321  | Mar. 18, 1954 | 2,903                                     | 2.76                     | 2,029                |
|               | Mar. 14, 1955 | 3,582                                     | 3.41                     | 2,506                |
|               | Mar. 24, 1956 | —   | 3.90                     | 2,867                |
|               | Mar. 18, 1957 | —   | 3.38                     | 2,484                |
|               | Mar. 9, 1964  | —   | 3.63                     | 2,668                |
|               | Apr. 16, 1965 | —   | 3.80                     | 2,793                |
|               | Apr. 3, 1966  | 4,280                                     | 4.08                     | 2,999                |
|               | JL-49-30-322  | May 10, 1955                              | —                        | 3.90                 |
| May 17, 1955  |               | —   | 3.81                     | 2,800                |
| Apr. 13, 1956 |               | —   | 4.19                     | 3,080                |
| Mar. 18, 1957 |               | —   | 3.35                     | 2,462                |
| May 3, 1964   |               | 3,800                                     | 3.36                     | 2,470                |
| Apr. 30, 1966 |               | 3,760                                     | 3.58                     | 2,631                |
| JL-49-30-323  |               | Mar. 14, 1955                             | 2,556                    | 2.43                 |
|               | Apr. 29, 1955 | —   | 2.57                     | 1,889                |
|               | Mar. 24, 1956 | —   | 2.86                     | 2,102                |
|               | Feb. 25, 1957 | —   | 2.56                     | 1,882                |
|               | Mar. 9, 1964  | —   | 1.68                     | 1,235                |
|               | Apr. 8, 1965  | —   | 2.48                     | 1,823                |
|               | JL-49-30-324  | Mar. 27, 1956                             | —                        | 6.38                 |
| Mar. 18, 1957 |               | —   | 5.48                     | 4,028                |
| Apr. 3, 1964  |               | 6,000                                     | 5.30                     | 3,896                |
| Apr. 15, 1965 |               | —   | 7.07                     | 5,196                |
| JL-49-30-325  |               | Feb. 4, 1955                              | 3,275                    | 3.12                 |
|               | Apr. 12, 1955 | —   | 3.24                     | 2,381                |
|               | Apr. 26, 1956 | —   | 3.62                     | 2,661                |
|               | May 3, 1957   | —   | 3.49                     | 2,565                |
|               | Mar. 18, 1964 | —   | 3.63                     | 2,668                |
|               | Mar. 1, 1965  | —   | 3.36                     | 2,470                |
|               | JL-49-30-326  | Apr. 15, 1955                             | —                        | 1.40                 |
| Apr. 19, 1955 |               | —   | 1.48                     | 1,088                |
| Apr. 10, 1956 |               | —   | 2.19                     | 1,610                |
| Feb. 26, 1957 |               | —   | 2.14                     | 1,573                |
| Mar. 20, 1964 |               | —   | 1.72                     | 1,264                |
| JL-49-30-327  |               | May 1951                                  | —                        | 1.80                 |
|               | Oct. 1951     | —   | 1.60                     | 1,176                |
|               | Mar. 15, 1954 | 2,192                                     | 2.09                     | 1,536                |
|               | Mar. 24, 1955 | 2,233                                     | 2.13                     | 1,566                |
|               | Apr. 10, 1956 | —   | 2.19                     | 1,610                |
|               | Apr. 17, 1957 | —   | 2.12                     | 1,558                |
|               | Aug. 1964     | —   | 1.66                     | 1,220                |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-30-328 | Mar. 15, 1954 | 2,204  | 2.10                        | 1,544                   |
|              | May 10, 1954  | 2,119  | 2.02                        | 1,485                   |
|              | Mar. 24, 1955 | 2,354  | 2.24                        | 1,646                   |
|              | Apr. 11, 1956 | —  | 2.52                        | 1,852                   |
|              | Feb. 26, 1957 | —  | 2.23                        | 1,639                   |
|              | Mar. 20, 1964 | —  | 2.65                        | 1,948                   |
| JL-49-30-329 | Apr. 15, 1955 | —  | 2.29                        | 1,683                   |
|              | Apr. 14, 1956 | —  | 2.48                        | 1,823                   |
|              | Apr. 17, 1957 | —  | 2.23                        | 1,639                   |
|              | Apr. 1, 1965  | —  | 2.12                        | 1,558                   |
|              | Apr. 28, 1966 | 2,320  | 2.21                        | 1,624                   |
| JL-49-30-330 | July 6, 1954  | 2,637  | 2.51                        | 1,845                   |
|              | Mar. 25, 1955 | 2,500  | 2.38                        | 1,749                   |
|              | Apr. 30, 1956 | —  | 2.86                        | 2,102                   |
|              | Mar. 27, 1957 | —  | 2.54                        | 1,867                   |
|              | Mar. 11, 1964 | —  | 1.84                        | 1,352                   |
|              | Mar. 31, 1965 | —  | 2.83                        | 2,080                   |
|              | May 27, 1966  | 3,170  | 3.02                        | 2,220                   |
| JL-49-30-331 | Aug. 6, 1954  | 2,600  | 2.48                        | 1,823                   |
|              | May 31, 1955  | —  | 2.57                        | 1,889                   |
|              | June 24, 1955 | —  | 2.33                        | 1,713                   |
|              | June 7, 1956  | —  | 2.33                        | 1,713                   |
|              | Apr. 24, 1957 | —  | 2.32                        | 1,705                   |
|              | Mar. 23, 1964 | —  | 2.65                        | 1,948                   |
|              | Aug. 1964     | —  | 2.21                        | 1,624                   |
|              | Mar. 31, 1965 | —  | 2.08                        | 1,529                   |
|              | May 27, 1966  | 2,330  | 2.22                        | 1,632                   |
| JL-49-30-332 | Apr. 15, 1955 | —  | 2.57                        | 1,889                   |
|              | Apr. 25, 1956 | —  | 3.21                        | 2,359                   |
|              | Apr. 24, 1957 | —  | 3.01                        | 2,212                   |
|              | Aug. 1964     | —  | 1.49                        | 1,095                   |
|              | Apr. 8, 1965  | —  | 1.72                        | 1,264                   |
|              | Apr. 27, 1966 | 1,920  | 1.83                        | 1,345                   |
| JL-49-30-333 | Mar. 10, 1954 | 2,694  | 2.57                        | 1,889                   |
|              | Apr. 12, 1955 | —  | 3.24                        | 2,381                   |
|              | Apr. 15, 1955 | —  | 3.10                        | 2,279                   |
|              | Apr. 30, 1956 | —  | 3.45                        | 2,536                   |
|              | July 12, 1957 | —  | 1.59                        | 1,169                   |
|              | Mar. 10, 1964 | —  | 1.95                        | 1,433                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-30-335 | Mar. 30, 1955 | —  | 2.59                        | 1,904                   |
|              | Apr. 28, 1956 | —  | 3.14                        | 2,308                   |
|              | Apr. 10, 1957 | —  | 3.54                        | 2,602                   |
|              | Mar. 10, 1964 | —  | 2.67                        | 1,962                   |
|              | Mar. 31, 1965 | —  | 3.01                        | 2,212                   |
| JL-49-30-336 | June 8, 1954  | 4,148  | 3.95                        | 2,903                   |
|              | Apr. 28, 1955 | —  | 4.00                        | 2,940                   |
|              | June 8, 1956  | —  | 3.62                        | 2,661                   |
|              | Mar. 27, 1957 | —  | 3.53                        | 2,595                   |
|              | Mar. 31, 1965 | —  | 3.05                        | 2,242                   |
|              | Apr. 28, 1966 | 3,420  | 3.26                        | 2,396                   |
| JL-49-30-337 | Feb. 24, 1954 | 5,238  | 4.99                        | 3,668                   |
|              | Apr. 15, 1955 | —  | 5.24                        | 3,851                   |
|              | Aug. 15, 1956 | —  | 5.14                        | 3,778                   |
|              | Mar. 11, 1964 | —  | 4.51                        | 3,315                   |
| JL-49-30-338 | Apr. 17, 1955 | —  | 2.00                        | 1,470                   |
|              | June 12, 1956 | —  | 2.10                        | 1,544                   |
| JL-49-30-340 | Mar. 31, 1955 | —  | 2.95                        | 2,168                   |
|              | July 16, 1956 | —  | 3.52                        | 2,587                   |
|              | Mar. 18, 1957 | —  | 3.36                        | 2,470                   |
|              | Mar. 15, 1964 | —  | 3.32                        | 2,440                   |
| JL-49-30-603 | Feb. 7, 1955  | 4,075  | 3.88                        | 2,852                   |
|              | May 2, 1956   | —  | 4.29                        | 3,153                   |
| JL-49-30-604 | Mar. 10, 1954 | 3,885  | 3.70                        | 2,720                   |
|              | May 11, 1954  | 4,115  | 3.92                        | 2,881                   |
|              | July 2, 1955  | —  | 4.29                        | 3,153                   |
|              | Apr. 14, 1956 | —  | 4.38                        | 3,219                   |
|              | Apr. 30, 1957 | —  | 4.07                        | 2,991                   |
|              | July 6, 1957  | —  | 3.98                        | 2,925                   |
|              | Apr. 1, 1965  | —  | 3.01                        | 2,212                   |
| JL-49-30-605 | June 8, 1954  | 3,461  | 3.30                        | 2,426                   |
|              | May 25, 1955  | —  | 4.57                        | 3,359                   |
|              | May 2, 1956   | —  | 4.76                        | 3,499                   |
|              | Apr. 17, 1957 | —  | 4.42                        | 3,249                   |
| JL-49-30-606 | Oct. 1951     | —  | 2.20                        | 1,617                   |
|              | Mar. 15, 1954 | 3,182  | 3.03                        | 2,227                   |
|              | Apr. 19, 1955 | —  | 3.24                        | 2,381                   |
|              | Apr. 25, 1956 | —  | 2.43                        | 1,786                   |
|              | Mar. 27, 1957 | —  | 3.32                        | 2,440                   |
|              | Mar. 11, 1964 | —  | 2.65                        | 1,948                   |
|              | Apr. 1, 1965  | —  | 2.65                        | 1,948                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-30-607 | Apr. 12, 1955 | —  | 2.57                        | 1,889                   |
|              | June 10, 1956 | —  | 2.67                        | 1,962                   |
|              | Feb. 26, 1957 | —  | 2.52                        | 1,852                   |
|              | Mar. 11, 1964 | —  | 2.65                        | 1,948                   |
| JL-49-30-608 | June 1951     | —  | 1.83                        | 1,345                   |
|              | Apr. 5, 1955  | —  | 2.43                        | 1,786                   |
|              | June 14, 1956 | —  | 2.48                        | 1,823                   |
|              | Apr. 24, 1957 | —  | 2.21                        | 1,624                   |
|              | Apr. 1, 1965  | —  | 2.03                        | 1,492                   |
| JL-49-30-609 | Apr. 19, 1955 | —  | 2.95                        | 2,168                   |
|              | Apr. 25, 1956 | —  | 2.90                        | 2,132                   |
|              | Apr. 29, 1957 | —  | 2.56                        | 1,882                   |
|              | Mar. 17, 1964 | —  | 3.01                        | 2,212                   |
| JL-49-30-610 | May 23, 1955  | —  | 4.29                        | 3,153                   |
|              | June 17, 1956 | —  | 4.57                        | 3,359                   |
| JL-49-30-611 | Mar. 14, 1955 | 5,279  | 5.03                        | 3,697                   |
|              | May 9, 1956   | —  | 4.10                        | 3,014                   |
|              | Mar. 18, 1957 | —  | 3.89                        | 2,859                   |
|              | Mar. 10, 1964 | —  | 4.42                        | 3,249                   |
| JL-49-30-612 | Mar. 15, 1954 | 2,315  | 2.20                        | 1,617                   |
|              | May 11, 1954  | 2,358  | 2.25                        | 1,654                   |
|              | Mar. 24, 1955 | 2,233  | 2.13                        | 1,566                   |
|              | June 10, 1956 | —  | 2.19                        | 1,610                   |
|              | Apr. 24, 1957 | —  | 2.83                        | 2,080                   |
|              | Mar. 11, 1964 | —  | 2.48                        | 1,823                   |
|              | Apr. 1, 1965  | —  | 2.30                        | 1,691                   |
|              | Apr. 28, 1966 | 2,580  | 2.46                        | 1,808                   |
| JL-49-30-613 | June 24, 1955 | —  | 1.33                        | 978                     |
|              | June 10, 1956 | —  | 1.52                        | 1,117                   |
|              | Apr. 24, 1957 | —  | 2.23                        | 1,639                   |
|              | Mar. 16, 1964 | —  | 1.33                        | 978                     |
|              | Apr. 8, 1965  | —  | 1.37                        | 1,007                   |
| JL-49-30-614 | Mar. 10, 1954 | 3,318  | 3.16                        | 2,323                   |
|              | Apr. 19, 1955 | —  | 3.26                        | 2,396                   |
|              | Apr. 14, 1956 | —  | 3.24                        | 2,381                   |
|              | Feb. 26, 1957 | —  | 2.96                        | 2,176                   |
| JL-49-30-616 | Feb. 24, 1954 | 1,415  | 1.35                        | 992                     |
|              | Apr. 11, 1955 | —  | 1.89                        | 1,389                   |
|              | May 2, 1955   | —  | 1.90                        | 1,397                   |
|              | Apr. 24, 1956 | —  | 2.00                        | 1,470                   |
|              | Apr. 24, 1957 | —  | 2.12                        | 1,558                   |
|              | Apr. 8, 1965  | —  | 1.64                        | 1,205                   |



Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-30-617 | Mar. 24, 1955 | 2,393  | 2.28                        | 1,676                   |
|              | Apr. 14, 1956 | —  | 2.50                        | 1,838                   |
|              | Mar. 27, 1957 | —  | 2.56                        | 1,882                   |
|              | Aug. 1964     | —  | 2.29                        | 1,683                   |
| JL-49-30-618 | Apr. 12, 1955 | —  | 3.38                        | 2,484                   |
|              | Apr. 14, 1956 | —  | 3.29                        | 2,418                   |
|              | Feb. 26, 1957 | —  | 3.18                        | 2,337                   |
|              | Aug. 1964     | —  | 2.74                        | 2,014                   |
| JL-49-30-621 | July 18, 1956 | —  | 3.33                        | 2,448                   |
|              | Mar. 17, 1964 | 3,500  | 3.09                        | 2,271                   |
|              | Apr. 28, 1966 | 3,470  | 3.30                        | 2,426                   |
| JL-49-31-102 | May 10, 1955  | —  | 1.95                        | 1,433                   |
|              | June 17, 1955 | —  | 4.29                        | 3,153                   |
|              | Aug. 13, 1956 | —  | 4.76                        | 3,499                   |
| JL-49-31-103 | Apr. 27, 1955 | —  | 4.10                        | 3,014                   |
|              | Aug. 13, 1956 | —  | 4.76                        | 3,499                   |
| JL-49-31-104 | Mar. 19, 1954 | 2,389  | 2.28                        | 1,676                   |
|              | June 3, 1956  | —  | 3.79                        | 2,786                   |
|              | Mar. 19, 1957 | —  | 3.80                        | 2,793                   |
|              | Mar. 5, 1964  | —  | 2.83                        | 2,080                   |
|              | Mar. 15, 1965 | —  | 3.36                        | 2,470                   |
| JL-49-31-106 | Mar. 11, 1954 | 5,459  | 5.20                        | 3,822                   |
|              | Apr. 21, 1955 | —  | 4.57                        | 3,359                   |
|              | Apr. 27, 1955 | —  | 3.43                        | 2,521                   |
|              | May 23, 1956  | —  | 5.24                        | 3,851                   |
|              | Mar. 19, 1957 | —  | 5.22                        | 3,837                   |
|              | Mar. 5, 1964  | —  | 5.00                        | 3,675                   |
|              | Mar. 15, 1965 | —  | 4.20                        | 3,087                   |
|              | Apr. 27, 1966 | 4,800  | 4.57                        | 3,359                   |
| JL-49-31-108 | June 29, 1955 | —  | 8.00                        | 5,880                   |
|              | May 23, 1956  | —  | 8.10                        | 5,954                   |
|              | Mar. 16, 1965 | —  | 4.86                        | 3,572                   |
| JL-49-31-109 | Mar. 10, 1954 | 6,021  | 5.73                        | 4,212                   |
|              | May 23, 1955  | —  | 5.24                        | 3,851                   |
|              | June 21, 1955 | —  | 4.86                        | 3,572                   |
|              | May 23, 1956  | —  | 4.38                        | 3,219                   |
|              | Mar. 19, 1957 | —  | 4.60                        | 3,381                   |
|              | Mar. 15, 1965 | —  | 4.42                        | 3,249                   |
|              | Apr. 25, 1966 | 4,970  | 4.73                        | 3,477                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-111 | July 5, 1955  | —  | 4.10                        | 3,014                   |
|              | May 9, 1956   | —  | 4.38                        | 3,219                   |
|              | Mar. 19, 1957 | —  | 3.89                        | 2,859                   |
| JL-49-31-112 | Mar. 15, 1954 | 2,868  | 2.73                        | 2,007                   |
|              | Mar. 18, 1955 | 3,626  | 3.45                        | 2,536                   |
|              | Apr. 28, 1955 | —  | 3.52                        | 2,587                   |
|              | May 9, 1956   | —  | 4.19                        | 3,080                   |
|              | Mar. 19, 1957 | —  | 4.16                        | 3,058                   |
|              | Mar. 1964     | 2,650  | 2.34                        | 1,720                   |
|              | May 16, 1966  | 2,590  | 2.47                        | 1,815                   |
| JL-49-31-113 | Apr. 26, 1955 | —  | 9.05                        | 6,652                   |
|              | June 17, 1955 | —  | 8.57                        | 6,299                   |
|              | Aug. 24, 1956 | —  | 8.48                        | 6,233                   |
| JL-49-31-114 | Feb. 25, 1954 | 4,824  | 4.59                        | 3,374                   |
|              | Mar. 18, 1955 | 5,587  | 5.32                        | 3,910                   |
|              | Feb. 25, 1957 | —  | 4.42                        | 3,249                   |
| JL-49-31-115 | June 5, 1954  | 5,277  | 5.03                        | 3,697                   |
|              | Mar. 18, 1955 | 2,624  | 2.50                        | 1,838                   |
|              | Apr. 26, 1956 | —  | 3.62                        | 2,661                   |
|              | Apr. 27, 1956 | —  | 3.19                        | 2,345                   |
|              | Feb. 25, 1957 | —  | 3.54                        | 2,602                   |
|              | Mar. 1964     | —  | 2.87                        | 2,109                   |
|              | Mar. 1964     | —  | 3.36                        | 2,470                   |
|              | Aug. 1965     | 3,775  | 3.34                        | 2,455                   |
|              | June 1, 1966  | 3,800  | 3.62                        | 2,661                   |
| JL-49-31-116 | May 1951      | —  | 3.90                        | 2,867                   |
|              | Mar. 18, 1955 | 2,813  | 2.68                        | 1,970                   |
|              | Aug. 27, 1956 | —  | 4.19                        | 3,080                   |
|              | Feb. 25, 1957 | —  | 2.96                        | 2,176                   |
| JL-49-31-117 | June 1, 1956  | —  | 4.38                        | 3,219                   |
|              | Mar. 19, 1957 | —  | 4.16                        | 3,058                   |
| JL-49-31-118 | Mar. 10, 1954 | 4,817  | 4.59                        | 3,374                   |
|              | Apr. 21, 1955 | —  | 4.28                        | 3,153                   |
|              | May 8, 1956   | —  | 4.24                        | 3,851                   |
|              | Mar. 16, 1965 | —  | 4.33                        | 3,183                   |
| JL-49-31-119 | June 1, 1956  | —  | 4.29                        | 3,153                   |
|              | Mar. 5, 1964  | —  | 3.80                        | 2,793                   |
|              | Mar. 16, 1965 | —  | 3.71                        | 2,727                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25°C) | Dissolved-solids<br>content |                         |
|--------------|---------------|---|-----------------------------|-------------------------|
|              |               |   | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-120 | Mar. 10, 1954 | 5,627   | 5.36                        | 3,940                   |
|              | Apr. 21, 1955 | —   | 4.76                        | 3,499                   |
|              | May 8, 1956   | —   | 5.24                        | 3,851                   |
|              | Mar. 5, 1964  | —   | 3.98                        | 2,925                   |
|              | Mar. 15, 1965 | —   | 3.98                        | 2,925                   |
| JL-49-31-121 | June 29, 1954 | 2,774   | 2.64                        | 1,940                   |
|              | Mar. 18, 1955 | 3,571   | 3.40                        | 2,499                   |
|              | Apr. 12, 1956 | —   | 4.48                        | 3,293                   |
|              | Mar. 22, 1957 | —   | 4.77                        | 3,506                   |
|              | Mar. 1964     | —   | 3.80                        | 2,793                   |
| JL-49-31-122 | Apr. 26, 1955 | —   | 2.38                        | 1,749                   |
|              | Apr. 28, 1955 | —   | 4.00                        | 2,940                   |
|              | Aug. 29, 1956 | 4,697   | 4.47                        | 3,285                   |
|              | Mar. 1964     | 3,750   | 3.32                        | 2,440                   |
|              | Apr. 29, 1966 | 3,710   | 3.53                        | 2,595                   |
| JL-49-31-123 | May 21, 1956  | —   | 5.43                        | 3,991                   |
|              | Aug. 1964     | —   | 4.28                        | 3,146                   |
|              | Apr. 23, 1965 | —   | 4.86                        | 3,572                   |
| JL-49-31-124 | Feb. 27, 1954 | 1,803   | 1.72                        | 1,264                   |
|              | June 24, 1955 | —   | 2.69                        | 1,977                   |
|              | Mar. 22, 1956 | —   | 2.62                        | 1,926                   |
|              | Mar. 19, 1957 | —   | 2.64                        | 1,940                   |
|              | Mar. 1964     | —   | 2.12                        | 1,558                   |
|              | Aug. 1964     | —   | 2.02                        | 1,485                   |
|              | June 2, 1966  | 2,310   | 2.20                        | 1,617                   |
| JL-49-31-125 | June 1951     | —   | 3.34                        | 2,455                   |
|              | Apr. 19, 1955 | —   | 4.00                        | 2,940                   |
|              | Apr. 26, 1955 | —   | 3.43                        | 2,521                   |
|              | May 9, 1956   | —   | 3.76                        | 2,764                   |
|              | Mar. 1964     | —   | 3.80                        | 2,793                   |
| JL-49-31-126 | Mar. 10, 1954 | 4,062   | 3.87                        | 2,844                   |
|              | June 24, 1955 | —   | 4.76                        | 3,499                   |
|              | Apr. 18, 1956 | —   | 5.05                        | 3,712                   |
|              | Mar. 20, 1957 | —   | 4.77                        | 3,506                   |
|              | Mar. 1964     | —   | 5.30                        | 3,896                   |
| JL-49-31-127 | June 24, 1955 | —   | 4.29                        | 3,153                   |
|              | Apr. 25, 1956 | —   | 4.95                        | 3,638                   |
|              | Mar. 20, 1957 | —   | 4.60                        | 3,381                   |
|              | Aug. 1965     | 5,100   | 4.51                        | 3,315                   |
|              | May 20, 1966  | 5,090   | 4.85                        | 3,565                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-128 | Apr. 20, 1954 | 3,211  | 3.06                        | 2,249                   |
|              | Apr. 26, 1955 | —  | 3.52                        | 2,587                   |
|              | Aug. 2, 1956  | —  | 4.00                        | 2,940                   |
|              | Mar. 18, 1957 | —  | 3.80                        | 2,793                   |
|              | Mar. 1964     | —  | 3.38                        | 2,484                   |
|              | Aug. 1965     | 4,300  | 3.81                        | 2,800                   |
| JL-49-31-129 | July 1, 1954  | 2,523  | 2.40                        | 1,764                   |
|              | Mar. 18, 1955 | 2,427  | 2.31                        | 1,698                   |
|              | Apr. 26, 1956 | —  | 2.73                        | 2,007                   |
|              | Mar. 16, 1957 | —  | 2.48                        | 1,823                   |
| JL-49-31-130 | Mar. 18, 1954 | 4,910  | 4.68                        | 3,440                   |
|              | Mar. 18, 1955 | 4,990  | 4.75                        | 3,491                   |
|              | Apr. 25, 1956 | —  | 5.24                        | 3,851                   |
|              | Feb. 25, 1957 | —  | 4.42                        | 3,249                   |
| JL-49-31-131 | Mar. 8, 1954  | 5,735  | 5.46                        | 4,013                   |
|              | Apr. 5, 1955  | 6,000  | 5.71                        | 4,197                   |
|              | Apr. 6, 1955  | —  | 5.90                        | 4,337                   |
| JL-49-31-134 | Mar. 14, 1955 | 6,899  | 6.57                        | 4,829                   |
|              | Apr. 1, 1955  | —  | 5.90                        | 4,337                   |
|              | Mar. 31, 1956 | —  | 7.14                        | 5,248                   |
|              | Feb. 25, 1957 | —  | 2.74                        | 2,014                   |
|              | May 11, 1964  | 3,000  | 2.65                        | 1,948                   |
|              | Apr. 25, 1965 | —  | 2.65                        | 1,948                   |
| JL-49-31-136 | Aug. 1964     | —  | 4.37                        | 3,212                   |
| JL-49-31-401 | Apr. 4, 1955  | —  | 1.59                        | 1,169                   |
|              | Apr. 26, 1956 | —  | 1.86                        | 1,367                   |
|              | Apr. 24, 1957 | —  | 1.95                        | 1,433                   |
|              | Apr. 2, 1964  | 1,390  | 1.23                        | 904                     |
|              | Apr. 1, 1965  | —  | 1.59                        | 1,169                   |
|              | Apr. 28, 1966 | 1,840  | 1.75                        | 1,286                   |
| JL-49-31-402 | Dec. 1951     | —  | 7.50                        | 5,513                   |
|              | Mar. 9, 1964  | —  | 4.60                        | 3,381                   |
|              | Apr. 12, 1965 | —  | 1.77                        | 1,301                   |
| JL-49-31-403 | Mar. 18, 1957 | —  | 4.07                        | 2,991                   |
|              | Mar. 9, 1964  | —  | 2.96                        | 2,176                   |
|              | Apr. 12, 1965 | —  | 4.42                        | 3,249                   |
| JL-49-31-404 | Apr. 11, 1955 | —  | 4.00                        | 2,940                   |
|              | Aug. 3, 1956  | —  | 4.38                        | 3,219                   |
|              | Mar. 19, 1957 | —  | 4.42                        | 3,249                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-405 | Feb. 23, 1954 | 3,640  | 3.47                        | 2,550                   |
|              | July 1, 1955  | —  | 4.00                        | 2,940                   |
|              | Apr. 9, 1956  | —  | 4.48                        | 3,293                   |
|              | Apr. 11, 1957 | —  | 4.69                        | 3,447                   |
| JL-49-31-406 | May 9, 1956   | —  | 3.81                        | 2,800                   |
|              | Aug. 27, 1956 | —  | 3.57                        | 2,624                   |
|              | Feb. 25, 1957 | —  | 2.93                        | 2,154                   |
| JL-49-31-407 | Mar. 15, 1954 | 2,670  | 2.54                        | 1,867                   |
|              | Apr. 28, 1955 | —  | 3.90                        | 2,867                   |
|              | Apr. 27, 1956 | —  | 4.10                        | 3,014                   |
|              | Mar. 19, 1957 | —  | 3.36                        | 2,470                   |
|              | Mar. 1964     | —  | 3.18                        | 2,337                   |
| JL-49-31-408 | Aug. 1951     | —  | 3.01                        | 2,212                   |
|              | Mar. 9, 1954  | 3,640  | 3.47                        | 2,550                   |
|              | Mar. 18, 1955 | 2,904  | 2.77                        | 2,036                   |
|              | Apr. 9, 1956  | —  | 3.05                        | 2,242                   |
|              | Mar. 19, 1957 | —  | 2.96                        | 2,176                   |
|              | Mar. 1964     | —  | 3.09                        | 2,271                   |
| JL-49-31-409 | Mar. 12, 1954 | 5,951  | 5.67                        | 4,167                   |
|              | Apr. 26, 1955 | —  | 5.81                        | 4,270                   |
|              | Aug. 27, 1956 | —  | 5.81                        | 4,270                   |
|              | Mar. 20, 1957 | —  | 5.04                        | 3,704                   |
|              | Mar. 1964     | —  | 5.30                        | 3,896                   |
| JL-49-31-410 | Mar. 14, 1955 | 2,007  | 1.91                        | 1,404                   |
|              | Mar. 27, 1956 | —  | 1.93                        | 1,419                   |
|              | Mar. 24, 1957 | —  | 1.77                        | 1,301                   |
|              | Mar. 17, 1964 | —  | 2.12                        | 1,558                   |
|              | Apr. 12, 1965 | —  | 1.86                        | 1,367                   |
|              | May 28, 1966  | 2,090  | 1.99                        | 1,463                   |
| JL-49-31-411 | July 1951     | —  | 1.63                        | 1,198                   |
|              | Feb. 24, 1954 | 2,652  | 2.53                        | 1,860                   |
|              | Mar. 14, 1955 | 2,773  | 2.64                        | 1,940                   |
|              | Apr. 27, 1956 | —  | 2.81                        | 2,065                   |
|              | Mar. 18, 1957 | —  | 2.67                        | 1,962                   |
|              | Mar. 10, 1964 | —  | 3.18                        | 2,337                   |
| JL-49-31-412 | Apr. 30, 1966 | 3,580  | 3.41                        | 2,506                   |
|              | May 1951      | —  | 1.72                        | 1,264                   |
|              | Feb. 24, 1954 | 2,320  | 2.21                        | 1,624                   |
|              | Mar. 14, 1955 | 2,527  | 2.41                        | 1,771                   |
|              | Aug. 3, 1956  | —  | 2.76                        | 2,029                   |
|              | Mar. 18, 1957 | —  | 2.39                        | 1,757                   |
|              | Mar. 10, 1964 | —  | 2.74                        | 2,014                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-413 | Mar. 8, 1954  | 4,041  | 3.85                        | 2,830                   |
|              | Mar. 14, 1955 | 4,357  | 4.15                        | 3,050                   |
|              | Apr. 10, 1956 | —  | 4.67                        | 3,432                   |
|              | Mar. 18, 1957 | —  | 4.07                        | 2,991                   |
|              | Mar. 17, 1964 | —  | 4.60                        | 3,381                   |
| JL-49-31-414 | Feb. 24, 1954 | 4,025  | 3.83                        | 2,815                   |
|              | Mar. 23, 1955 | —  | 3.38                        | 2,484                   |
|              | Apr. 16, 1956 | —  | 3.81                        | 2,800                   |
|              | Mar. 18, 1957 | —  | 3.63                        | 2,668                   |
|              | Mar. 11, 1964 | —  | 3.89                        | 2,859                   |
|              | Apr. 10, 1965 | —  | 3.54                        | 2,602                   |
|              | May 3, 1966   | 3,970  | 3.78                        | 2,778                   |
| JL-49-31-415 | June 1951     | —  | 2.86                        | 2,102                   |
|              | Feb. 24, 1954 | 4,458  | 4.25                        | 3,124                   |
|              | Mar. 14, 1955 | 5,038  | 4.80                        | 3,528                   |
|              | Mar. 25, 1956 | —  | 5.33                        | 3,918                   |
|              | Mar. 18, 1957 | —  | 5.31                        | 3,903                   |
|              | Mar. 11, 1964 | —  | 4.16                        | 3,058                   |
|              | Apr. 10, 1965 | —  | 4.42                        | 3,249                   |
| JL-49-31-416 | May 18, 1955  | —  | 5.33                        | 3,918                   |
|              | May 11, 1956  | —  | 5.43                        | 3,991                   |
|              | Mar. 13, 1964 | —  | 3.63                        | 2,668                   |
| JL-49-31-417 | Apr. 11, 1955 | —  | 7.52                        | 5,527                   |
|              | Apr. 11, 1955 | —  | 8.38                        | 6,159                   |
|              | Mar. 31, 1956 | —  | 2.48                        | 1,823                   |
|              | Mar. 18, 1957 | —  | 2.39                        | 1,757                   |
|              | Mar. 28, 1964 | 2,500  | 2.21                        | 1,624                   |
| JL-49-31-418 | Mar. 1, 1954  | 2,854  | 2.72                        | 1,999                   |
|              | Apr. 11, 1955 | —  | 3.48                        | 2,558                   |
|              | Mar. 30, 1956 | —  | 4.10                        | 3,014                   |
|              | Mar. 18, 1957 | —  | 4.16                        | 3,058                   |
|              | Mar. 28, 1964 | 2,200  | 1.94                        | 1,426                   |
| JL-49-31-419 | June 8, 1954  | 5,720  | 5.45                        | 4,006                   |
|              | Mar. 14, 1955 | 6,415  | 6.11                        | 4,491                   |
|              | Mar. 25, 1956 | —  | 6.67                        | 4,902                   |
|              | Mar. 18, 1957 | —  | 5.75                        | 4,226                   |
|              | Mar. 17, 1964 | —  | 5.48                        | 4,028                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-420 | Feb. 23, 1954 | 2,880  | 2.74                        | 2,014                   |
|              | Mar. 18, 1955 | 2,848  | 2.71                        | 1,992                   |
|              | Apr. 9, 1956  | —  | 4.48                        | 3,293                   |
|              | Feb. 25, 1957 | —  | 2.65                        | 1,948                   |
|              | Mar. 1964     | —  | 2.74                        | 2,014                   |
|              | Aug. 1965     | 2,875  | 2.54                        | 1,867                   |
|              | Apr. 28, 1966 | 2,910  | 2.77                        | 2,036                   |
| JL-49-31-422 | July 1, 1955  | —  | 3.45                        | 2,536                   |
|              | Apr. 6, 1956  | —  | 3.43                        | 2,521                   |
|              | 1957          | —  | 2.93                        | 2,154                   |
|              | Mar. 1964     | —  | 3.71                        | 2,727                   |
|              | Aug. 1965     | 3,800  | 3.36                        | 2,470                   |
| JL-49-31-423 | 1964          | —  | 4.95                        | 3,638                   |
|              | Aug. 1965     | 5,150  | 4.56                        | 3,352                   |
| JL-49-31-424 | Mar. 9, 1954  | 4,376  | 4.17                        | 3,065                   |
|              | Apr. 14, 1955 | —  | 4.95                        | 3,638                   |
|              | Apr. 9, 1956  | —  | 4.48                        | 3,293                   |
|              | Mar. 1964     | —  | 5.57                        | 4,094                   |
| JL-49-31-425 | Feb. 24, 1954 | 4,545  | 4.33                        | 3,183                   |
|              | Mar. 15, 1955 | 5,038  | 4.80                        | 3,528                   |
|              | Apr. 29, 1955 | —  | 5.24                        | 3,851                   |
|              | July 23, 1956 | —  | 6.10                        | 4,484                   |
|              | Mar. 18, 1957 | —  | 5.22                        | 3,837                   |
|              | Mar. 9, 1964  | —  | 3.71                        | 2,727                   |
| JL-49-31-426 | Apr. 27, 1955 | —  | 3.62                        | 2,661                   |
|              | June 16, 1956 | —  | 4.10                        | 3,014                   |
|              | Mar. 27, 1957 | —  | 3.89                        | 2,859                   |
|              | Aug. 1964     | —  | 3.00                        | 2,205                   |
|              | Apr. 7, 1965  | —  | 3.45                        | 2,536                   |
|              | May 27, 1966  | 3,870  | 3.69                        | 2,712                   |
| JL-49-31-427 | July 2, 1955  | —  | 3.90                        | 2,867                   |
|              | Apr. 25, 1956 | —  | 4.38                        | 3,219                   |
|              | Mar. 27, 1957 | —  | 3.89                        | 2,859                   |
|              | Apr. 5, 1965  | —  | 3.36                        | 2,470                   |
|              | May 27, 1966  | 3,750  | 3.57                        | 2,624                   |
| JL-49-31-428 | Mar. 13, 1964 | —  | 3.18                        | 2,337                   |
| JL-49-31-429 | Mar. 31, 1955 | —  | 4.29                        | 3,153                   |
|              | July 16, 1956 | —  | 7.14                        | 5,248                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-430 | Feb. 24, 1954 | 4,200  | 4.00                        | 2,940                   |
|              | Mar. 15, 1955 | 3,931  | 3.74                        | 2,749                   |
|              | May 16, 1956  | —  | 3.71                        | 2,727                   |
|              | Mar. 18, 1957 | —  | 3.54                        | 2,602                   |
|              | Mar. 17, 1964 | —  | 3.89                        | 2,859                   |
| JL-49-31-431 | Apr. 19, 1955 | —  | 2.19                        | 1,610                   |
|              | May 2, 1956   | —  | 2.48                        | 1,823                   |
|              | Mar. 27, 1957 | —  | 2.52                        | 1,852                   |
|              | Mar. 19, 1964 | 2,700  | 2.39                        | 1,757                   |
|              | Apr. 1, 1965  | —  | 2.17                        | 1,595                   |
| JL-49-31-432 | Mar. 1, 1954  | 3,616  | 3.44                        | 2,528                   |
|              | Mar. 15, 1955 | 3,404  | 3.25                        | 2,388                   |
|              | May 11, 1956  | —  | 3.52                        | 2,587                   |
|              | Mar. 18, 1957 | —  | 3.18                        | 2,337                   |
|              | Apr. 11, 1964 | 4,000  | 3.54                        | 2,602                   |
| JL-49-31-433 | June 1951     | —  | 4.79                        | 3,521                   |
|              | Mar. 16, 1954 | 5,510  | 5.25                        | 3,859                   |
|              | Mar. 14, 1955 | 4,857  | 4.63                        | 3,403                   |
|              | July 16, 1956 | —  | 5.05                        | 3,712                   |
|              | Mar. 18, 1957 | —  | 4.86                        | 3,572                   |
| JL-49-31-435 | Mar. 15, 1955 | 7,314  | 6.97                        | 5,123                   |
| JL-49-31-438 | 1964          | —  | 4.60                        | 3,381                   |
| JL-49-31-439 | May 1951      | —  | 3.10                        | 2,279                   |
|              | June 1951     | —  | 2.88                        | 2,117                   |
|              | Mar. 10, 1954 | 3,651  | 3.48                        | 2,558                   |
|              | Apr. 14, 1955 | —  | 4.29                        | 3,153                   |
|              | May 9, 1956   | —  | 4.57                        | 3,359                   |
|              | Feb. 20, 1957 | 5,195  | 4.95                        | 3,638                   |
| JL-49-31-443 | Apr. 8, 1965  | —  | 3.18                        | 2,337                   |
|              | Apr. 3, 1966  | 3,570  | 3.40                        | 2,499                   |
| JL-49-31-444 | Mar. 19, 1957 | —  | 1.46                        | 1,073                   |
| JL-49-31-501 | Feb. 24, 1954 | 4,636  | 4.42                        | 3,249                   |
|              | May 25, 1955  | —  | 4.10                        | 3,014                   |
|              | Apr. 13, 1956 | —  | 4.12                        | 3,028                   |
|              | Mar. 13, 1964 | —  | 3.36                        | 2,470                   |



Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-502 | July 1, 1955  | —  | 6.00                        | 4,410                   |
|              | Apr. 6, 1956  | —  | 6.29                        | 4,623                   |
|              | Mar. 1964     | —  | 6.19                        | 4,550                   |
|              | Aug. 1965     | 6,200  | 5.49                        | 4,035                   |
| JL-49-31-503 | June 30, 1954 | 5,577  | 5.31                        | 3,903                   |
|              | Aug. 18, 1956 | —  | 5.48                        | 4,028                   |
| JL-49-31-504 | Apr. 18, 1954 | 3,421  | 3.26                        | 2,396                   |
|              | Apr. 13, 1955 | —  | 4.10                        | 3,014                   |
|              | Apr. 20, 1956 | —  | 5.14                        | 3,778                   |
|              | Apr. 26, 1956 | —  | 4.00                        | 2,940                   |
|              | Mar. 19, 1957 | —  | 3.36                        | 2,470                   |
|              | Mar. 1964     | —  | 4.07                        | 2,991                   |
|              | May 20, 1966  | 4,570  | 4.35                        | 3,197                   |
| JL-49-31-505 | June 1, 1954  | 4,068  | 3.87                        | 2,844                   |
|              | Aug. 18, 1956 | —  | 4.57                        | 3,359                   |
| JL-49-31-507 | Apr. 26, 1955 | —  | 3.24                        | 2,381                   |
|              | Apr. 11, 1957 | —  | 3.80                        | 2,793                   |
| JL-49-31-508 | May 1951      | —  | 2.10                        | 1,544                   |
|              | Mar. 10, 1954 | 3,719  | 3.54                        | 2,602                   |
|              | Mar. 21, 1955 | 3,538  | 3.37                        | 2,477                   |
|              | Aug. 2, 1956  | —  | 3.90                        | 2,867                   |
|              | Mar. 19, 1957 | —  | 3.54                        | 2,602                   |
| JL-49-31-509 | July 1951     | —  | 2.13                        | 1,566                   |
|              | July 1, 1955  | —  | 3.52                        | 2,587                   |
|              | Apr. 6, 1956  | —  | 3.57                        | 2,624                   |
|              | Apr. 25, 1956 | —  | 3.62                        | 2,661                   |
|              | Feb. 25, 1957 | —  | 3.18                        | 2,337                   |
|              | Mar. 1964     | —  | 4.33                        | 3,183                   |
|              | Aug. 1965     | 4,400  | 3.89                        | 2,859                   |
|              | Apr. 27, 1966 | 4,380  | 4.17                        | 3,065                   |
| JL-49-31-510 | July 1, 1955  | —  | 2.86                        | 2,102                   |
|              | Apr. 6, 1956  | —  | 3.24                        | 2,381                   |
|              | Mar. 19, 1957 | —  | 3.18                        | 2,337                   |
| JL-49-31-511 | June 1951     | —  | 3.27                        | 2,403                   |
|              | Mar. 21, 1955 | 3,707  | 3.53                        | 2,595                   |
|              | Apr. 20, 1956 | —  | 4.19                        | 3,080                   |
|              | Apr. 11, 1957 | —  | 4.07                        | 2,991                   |
|              | Mar. 1964     | —  | 4.24                        | 3,116                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific conductance (micromhos at 25°C) | Dissolved-solids content |                      |
|--------------|---------------|--|--------------------------|----------------------|
|              |               |  | Tons per acre-foot       | Milligrams per liter |
| JL-49-31-512 | Apr. 7, 1954  | 4,270                                    | 4.07                     | 2,991                |
|              | Apr. 26, 1955 | —  | 3.81                     | 2,800                |
|              | Apr. 25, 1956 | —  | 3.48                     | 2,558                |
|              | Feb. 25, 1957 | —  | 2.92                     | 2,146                |
|              | Mar. 1964     | —  | 4.86                     | 3,572                |
|              | Apr. 29, 1966 | 5,470                                    | 5.21                     | 3,829                |
| JL-49-31-513 | May 11, 1954  | 3,638                                    | 3.46                     | 2,543                |
|              | June 30, 1954 | 4,647                                    | 4.43                     | 3,256                |
| JL-49-31-514 | Mar. 10, 1954 | 3,199                                    | 3.05                     | 2,242                |
|              | Mar. 21, 1955 | 3,683                                    | 3.51                     | 2,580                |
|              | May 9, 1956   | —  | 3.43                     | 2,521                |
|              | Mar. 20, 1957 | —  | 3.36                     | 2,470                |
| JL-49-31-515 | Mar. 8, 1954  | 3,306                                    | 3.15                     | 2,315                |
| JL-49-31-516 | Apr. 12, 1954 | 2,676                                    | 2.55                     | 1,874                |
|              | Apr. 26, 1955 | —  | 3.19                     | 2,345                |
|              | Apr. 16, 1956 | —  | 3.52                     | 2,587                |
|              | Mar. 1964     | 3,650                                    | 3.23                     | 2,374                |
|              | Aug. 1965     | 4,500                                    | 3.98                     | 2,925                |
|              | May 21, 1966  | 4,470                                    | 4.26                     | 3,131                |
| JL-49-31-517 | June 1951     | —  | 2.88                     | 2,117                |
|              | Feb. 23, 1954 | 4,135                                    | 3.94                     | 2,896                |
|              | Apr. 26, 1955 | —  | 4.48                     | 3,293                |
|              | Apr. 16, 1956 | —  | 4.76                     | 3,499                |
|              | Feb. 25, 1957 | —  | 3.80                     | 2,793                |
|              | Aug. 1965     | 3,600                                    | 3.19                     | 2,345                |
| JL-49-31-518 | May 11, 1954  | 2,733                                    | 2.60                     | 1,911                |
|              | Apr. 6, 1956  | —  | 3.90                     | 2,867                |
| JL-49-31-519 | May 12, 1956  | —  | 3.19                     | 2,345                |
|              | Mar. 19, 1957 | —  | 3.18                     | 2,337                |
|              | Mar. 12, 1964 | —  | 4.69                     | 3,447                |
| JL-49-31-520 | Mar. 14, 1955 | 2,785                                    | 2.65                     | 1,948                |
|              | Apr. 6, 1956  | —  | 4.10                     | 3,014                |
|              | Mar. 1964     | —  | 4.86                     | 3,572                |
| JL-49-31-521 | May 25, 1955  | —  | 3.43                     | 2,521                |
|              | Apr. 13, 1956 | —  | 4.76                     | 3,499                |
|              | Mar. 13, 1964 | —  | 5.57                     | 4,094                |

**Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued**

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-522 | Mar. 7, 1954  | 4,176  | 3.98                        | 2,925                   |
|              | Mar. 14, 1955 | 4,896  | 4.66                        | 3,425                   |
|              | Mar. 31, 1956 | —  | 5.14                        | 3,778                   |
|              | Feb. 20, 1957 | 5,530  | 5.27                        | 3,873                   |
|              | Mar. 1964     | —  | 5.04                        | 3,704                   |
| JL-49-31-523 | Mar. 12, 1954 | 2,582  | 2.46                        | 1,808                   |
|              | July 14, 1954 | 2,643  | 2.52                        | 1,852                   |
|              | July 1, 1955  | —  | 3.29                        | 2,418                   |
|              | Feb. 25, 1957 | —  | 3.36                        | 2,470                   |
|              | Mar. 1964     | —  | 4.24                        | 3,116                   |
|              | Aug. 1965     | 4,950  | 4.38                        | 3,219                   |
| JL-49-31-524 | Mar. 1964     | 2,990  | 2.64                        | 1,940                   |
| JL-49-31-526 | Mar. 1964     | —  | 3.71                        | 2,727                   |
| JL-49-31-527 | Nov. 1951     | —  | 3.10                        | 2,279                   |
|              | May 11, 1954  | 3,063  | 2.92                        | 2,146                   |
|              | Aug. 2, 1956  | —  | 3.52                        | 2,587                   |
| JL-49-31-528 | Mar. 1964     | —  | 3.89                        | 2,859                   |
| JL-49-31-529 | 1964          | —  | 4.24                        | 3,116                   |
|              | Apr. 29, 1966 | 4,700  | 4.48                        | 3,293                   |
| JL-49-31-701 | Apr. 28, 1955 | —  | 3.05                        | 2,242                   |
|              | June 28, 1955 | —  | 3.05                        | 2,242                   |
|              | May 2, 1956   | —  | 3.10                        | 2,279                   |
|              | Mar. 18, 1957 | —  | 2.72                        | 1,999                   |
|              | Aug. 1964     | —  | 2.56                        | 1,882                   |
|              | Aug. 1965     | 3,400  | 3.01                        | 2,212                   |
| JL-49-31-702 | Apr. 20, 1955 | —  | 4.10                        | 3,014                   |
|              | Apr. 12, 1956 | —  | 3.71                        | 2,727                   |
|              | Feb. 25, 1957 | —  | 3.54                        | 2,602                   |
|              | Mar. 31, 1964 | 2,680  | 2.37                        | 1,742                   |
|              | Apr. 16, 1965 | —  | 3.36                        | 2,470                   |
| JL-49-31-703 | Feb. 24, 1954 | 2,405  | 2.29                        | 1,683                   |
|              | Apr. 20, 1955 | —  | 3.00                        | 2,205                   |
|              | Apr. 12, 1956 | —  | 2.95                        | 2,168                   |
|              | Mar. 13, 1964 | —  | 2.30                        | 1,691                   |
| JL-49-31-704 | May 11, 1956  | —  | 4.38                        | 3,219                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-706 | May 1951      | —  | 2.16                        | 1,588                   |
|              | Jan. 18, 1955 | 2,664  | 2.54                        | 1,867                   |
|              | Apr. 29, 1955 | —  | 2.57                        | 1,889                   |
|              | Mar. 18, 1956 | 3,000  | 2.86                        | 2,102                   |
|              | Mar. 15, 1957 | —  | 2.39                        | 1,757                   |
|              | Mar. 13, 1964 | —  | 2.74                        | 2,014                   |
|              | Aug. 1965     | 2,825  | 2.50                        | 1,838                   |
| JL-49-31-707 | May 1951      | —  | 2.30                        | 1,691                   |
|              | Jan. 28, 1955 | 2,682  | 2.55                        | 1,874                   |
|              | Mar. 29, 1955 | —  | 2.76                        | 2,029                   |
|              | Mar. 17, 1956 | 2,920  | 2.78                        | 2,043                   |
|              | Mar. 19, 1957 | —  | 2.30                        | 1,691                   |
|              | Mar. 11, 1964 | —  | 2.23                        | 1,639                   |
| JL-49-31-708 | May 1951      | —  | 2.40                        | 1,764                   |
|              | June 1951     | —  | 1.42                        | 1,044                   |
|              | Apr. 1955     | —  | 3.43                        | 2,521                   |
|              | Mar. 18, 1956 | 3,200  | 3.05                        | 2,242                   |
|              | Aug. 6, 1956  | —  | 2.90                        | 2,132                   |
|              | Mar. 15, 1957 | —  | 2.48                        | 1,823                   |
|              | Mar. 10, 1964 | —  | 3.36                        | 2,470                   |
| Aug. 1965    | 3,100         | 2.74   | 2,014                       |                         |
| JL-49-31-709 | May 1951      | —  | 2.21                        | 1,624                   |
|              | Apr. 13, 1955 | —  | 3.43                        | 2,521                   |
|              | May 2, 1955   | —  | 2.86                        | 2,102                   |
|              | Mar. 18, 1956 | 3,150  | 3.00                        | 2,205                   |
|              | Mar. 28, 1957 | —  | 2.83                        | 2,080                   |
|              | Mar. 11, 1964 | —  | 3.09                        | 2,271                   |
| JL-49-31-710 | Jan. 18, 1955 | 2,904  | 2.77                        | 2,036                   |
|              | June 28, 1955 | —  | 2.81                        | 2,065                   |
|              | Mar. 17, 1956 | 3,400  | 3.24                        | 2,381                   |
|              | Mar. 9, 1957  | —  | 2.74                        | 2,014                   |
|              | Mar. 11, 1964 | —  | 2.70                        | 1,985                   |
|              | Apr. 1965     | —  | 2.56                        | 1,882                   |
| JL-49-31-711 | Apr. 6, 1955  | —  | 3.00                        | 2,205                   |
|              | Apr. 18, 1956 | —  | 3.43                        | 2,521                   |
|              | Mar. 28, 1957 | —  | 3.32                        | 2,440                   |
|              | Aug. 1965     | 3,400  | 3.01                        | 2,212                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-712 | Jan. 18, 1955 | 2,904  | 2.77                        | 2,036                   |
|              | Apr. 13, 1955 | —  | 1.86                        | 1,367                   |
|              | Mar. 18, 1956 | 3,750  | 3.16                        | 2,323                   |
|              | Mar. 9, 1957  | —  | 2.65                        | 1,948                   |
|              | Mar. 12, 1964 | —  | 3.01                        | 2,212                   |
| JL-49-31-713 | Apr. 13, 1955 | —  | 2.95                        | 2,168                   |
|              | Mar. 17, 1956 | 3,050  | 2.90                        | 2,132                   |
|              | Mar. 15, 1957 | —  | 2.73                        | 2,007                   |
|              | Mar. 11, 1964 | —  | 3.36                        | 2,470                   |
|              | Aug. 1965     | 5,350  | 4.73                        | 3,477                   |
| JL-49-31-714 | Jan. 18, 1955 | 2,917  | 2.78                        | 2,043                   |
|              | Apr. 4, 1955  | —  | 2.86                        | 2,102                   |
|              | Mar. 11, 1964 | —  | 3.71                        | 2,727                   |
|              | Aug. 1965     | 3,750  | 3.32                        | 2,440                   |
| JL-49-31-715 | June 29, 1955 | —  | 3.62                        | 2,661                   |
|              | May 2, 1956   | —  | 2.67                        | 1,962                   |
|              | May 29, 1957  | —  | 2.56                        | 1,882                   |
| JL-49-31-717 | June 23, 1955 | —  | 3.52                        | 2,587                   |
|              | Apr. 21, 1956 | —  | 3.52                        | 2,587                   |
|              | Apr. 29, 1957 | —  | 3.18                        | 2,337                   |
|              | Aug. 1964     | —  | 3.25                        | 2,389                   |
| JL-49-31-718 | May 1951      | —  | 1.43                        | 1,051                   |
|              | Mar. 1, 1954  | 1,873  | 1.78                        | 1,308                   |
|              | Apr. 8, 1955  | —  | 2.21                        | 1,624                   |
|              | Mar. 18, 1956 | 3,000  | 2.86                        | 2,102                   |
|              | Mar. 9, 1957  | —  | 2.39                        | 1,757                   |
|              | Mar. 11, 1964 | —  | 2.03                        | 1,492                   |
|              | Apr. 23, 1965 | —  | 2.12                        | 1,558                   |
| JL-49-31-719 | Mar. 15, 1957 | —  | 3.89                        | 2,859                   |
| JL-49-31-720 | Aug. 1965     | 6,600  | 5.84                        | 4,292                   |
| JL-49-31-721 | Mar. 29, 1964 | 2,900  | 2.56                        | 1,882                   |
| JL-49-31-722 | Mar. 6, 1957  | —  | 2.30                        | 1,691                   |
|              | Aug. 1964     | —  | 5.12                        | 3,763                   |
| JL-49-31-723 | July 12, 1955 | 1,419  | 1.35                        | 992                     |
|              | Mar. 27, 1957 | —  | 1.54                        | 1,132                   |
|              | Mar. 17, 1964 | —  | 1.72                        | 1,264                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-802 | June 24, 1954 | 3,133  | 2.98                        | 2,190                   |
|              | Mar. 30, 1955 | —  | 3.62                        | 2,661                   |
|              | July 30, 1956 | —  | 3.24                        | 2,381                   |
|              | Mar. 18, 1957 | —  | 2.83                        | 2,080                   |
|              | Mar. 10, 1964 | —  | 2.70                        | 1,985                   |
| JL-49-31-804 | June 8, 1954  | 2,867  | 2.73                        | 2,007                   |
|              | Apr. 16, 1956 | —  | 3.23                        | 2,374                   |
|              | Mar. 19, 1957 | —  | 2.92                        | 2,146                   |
|              | Mar. 17, 1964 | —  | 3.71                        | 2,727                   |
|              | Apr. 24, 1965 | —  | 3.54                        | 2,602                   |
| JL-49-31-807 | May 12, 1954  | 3,220  | 3.07                        | 2,256                   |
|              | Apr. 28, 1955 | —  | 3.24                        | 2,381                   |
| JL-49-31-808 | June 1951     | —  | 1.98                        | 1,455                   |
|              | Apr. 26, 1954 | 2,456  | 2.34                        | 1,720                   |
|              | June 24, 1955 | —  | 2.33                        | 1,713                   |
|              | Apr. 10, 1957 | —  | 2.14                        | 1,573                   |
| JL-49-31-809 | Mar. 23, 1954 | 2,768  | 2.64                        | 1,940                   |
|              | Apr. 14, 1955 | —  | 2.71                        | 1,992                   |
|              | May 25, 1955  | —  | 3.05                        | 2,242                   |
|              | Mar. 25, 1956 | —  | 2.86                        | 2,102                   |
|              | Mar. 18, 1957 | —  | 2.48                        | 1,823                   |
|              | Apr. 19, 1964 | 2,900  | 2.56                        | 1,882                   |
| JL-49-31-810 | Feb. 26, 1954 | 2,612  | 2.49                        | 1,830                   |
|              | Mar. 26, 1956 | —  | 2.87                        | 2,109                   |
|              | Mar. 19, 1957 | —  | 2.48                        | 1,823                   |
|              | Mar. 12, 1964 | —  | 2.83                        | 2,080                   |
| JL-49-31-811 | Mar. 23, 1955 | —  | 5.14                        | 3,778                   |
|              | Apr. 4, 1955  | 4,615  | 4.40                        | 3,234                   |
|              | Apr. 11, 1956 | —  | 4.38                        | 3,219                   |
|              | Mar. 18, 1957 | —  | 3.54                        | 2,602                   |
|              | Mar. 28, 1964 | 3,700  | 3.27                        | 2,403                   |
|              | May 3, 1966   | 3,680  | 3.50                        | 2,573                   |
| JL-49-31-812 | Mar. 15, 1955 | 7,298  | 6.95                        | 5,108                   |
|              | Apr. 6, 1955  | 4,000  | 3.81                        | 2,800                   |
|              | May 11, 1956  | —  | 6.67                        | 4,902                   |
|              | Mar. 18, 1957 | —  | 8.22                        | 6,042                   |
|              | Aug. 1964     | —  | 7.51                        | 5,520                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-813 | Mar. 23, 1955 | —  | 2.05                        | 1,507                   |
|              | May 19, 1955  | —  | 1.91                        | 1,404                   |
|              | May 9, 1956   | —  | 2.00                        | 1,470                   |
|              | Mar. 18, 1957 | —  | 1.68                        | 1,235                   |
|              | Mar. 17, 1964 | —  | 2.65                        | 1,948                   |
|              | May 11, 1964  | 2,350  | 2.08                        | 1,529                   |
|              | Apr. 29, 1965 | —  | 2.30                        | 1,691                   |
| JL-49-31-814 | Aug. 1951     | —  | 2.64                        | 1,940                   |
|              | Mar. 8, 1954  | 2,388  | 3.25                        | 2,389                   |
|              | May 18, 1956  | —  | 3.48                        | 2,558                   |
|              | Mar. 18, 1957 | —  | 3.23                        | 2,374                   |
|              | Mar. 28, 1964 | 3,820  | 3.38                        | 2,484                   |
|              | Apr. 30, 1966 | 3,790  | 3.61                        | 2,653                   |
| JL-49-31-815 | Feb. 26, 1954 | 2,692  | 2.56                        | 1,882                   |
|              | Mar. 15, 1955 | 2,890  | 2.75                        | 2,021                   |
|              | Apr. 17, 1956 | —  | 3.05                        | 2,242                   |
|              | Mar. 18, 1957 | —  | 2.65                        | 1,948                   |
|              | Mar. 12, 1964 | —  | 3.01                        | 2,212                   |
|              | Apr. 24, 1964 | 3,500  | 3.09                        | 2,271                   |
|              | Apr. 16, 1965 | —  | 3.01                        | 2,212                   |
| JL-49-31-816 | Apr. 17, 1955 | —  | 2.95                        | 2,168                   |
|              | Aug. 1, 1956  | —  | 2.86                        | 2,102                   |
|              | Mar. 18, 1957 | —  | 2.48                        | 1,823                   |
|              | Mar. 13, 1964 | —  | 3.23                        | 2,374                   |
| JL-49-31-817 | Dec. 1951     | —  | 2.10                        | 1,544                   |
|              | Mar. 8, 1954  | 2,590  | 2.47                        | 1,815                   |
|              | May 19, 1955  | —  | 2.76                        | 2,029                   |
|              | Apr. 13, 1956 | —  | 3.05                        | 2,242                   |
|              | Mar. 18, 1957 | —  | 2.48                        | 1,823                   |
|              | Apr. 14, 1965 | —  | 2.87                        | 2,109                   |
| JL-49-31-818 | Mar. 15, 1955 | 2,897  | 2.76                        | 2,029                   |
|              | Apr. 29, 1955 | —  | 2.67                        | 1,962                   |
|              | Apr. 9, 1956  | —  | 2.52                        | 1,852                   |
|              | Mar. 18, 1957 | —  | 2.49                        | 1,830                   |
|              | Mar. 28, 1964 | 3,200  | 2.83                        | 2,080                   |
|              | May 28, 1966  | 3,180  | 3.03                        | 2,227                   |
| JL-49-31-819 | Mar. 16, 1954 | 2,324  | 2.21                        | 1,624                   |
|              | Mar. 23, 1955 | —  | 2.10                        | 1,544                   |
|              | Apr. 29, 1955 | —  | 1.90                        | 1,397                   |
|              | May 18, 1956  | —  | 1.86                        | 1,367                   |
|              | Mar. 18, 1957 | —  | 1.72                        | 1,264                   |
|              | Apr. 3, 1964  | 2,700  | 2.39                        | 1,757                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25°C) | Dissolved-solids<br>content |                         |
|--------------|---------------|---|-----------------------------|-------------------------|
|              |               |   | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-820 | Mar. 22, 1954 | 1,864   | 1.78                        | 1,308                   |
|              | Mar. 15, 1955 | 2,024   | 1.93                        | 1,419                   |
|              | July 17, 1956 | —   | 2.19                        | 1,610                   |
|              | Mar. 20, 1957 | —   | 1.99                        | 1,463                   |
|              | Mar. 11, 1964 | —   | 2.17                        | 1,595                   |
| JL-49-31-821 | Apr. 29, 1955 | —   | 2.24                        | 1,646                   |
|              | Mar. 31, 1956 | —   | 2.57                        | 1,889                   |
|              | May 12, 1956  | —   | 2.24                        | 1,646                   |
|              | Mar. 18, 1957 | —   | 1.90                        | 1,397                   |
|              | Apr. 16, 1964 | 2,650   | 2.34                        | 1,720                   |
|              | Apr. 15, 1965 | —   | 2.30                        | 1,691                   |
|              | May 28, 1966  | 2,620   | 2.50                        | 1,838                   |
| JL-49-31-822 | Jan. 31, 1955 | 2,659   | 2.44                        | 1,793                   |
|              | Apr. 5, 1955  | 2,765   | 2.63                        | 1,933                   |
|              | Mar. 26, 1956 | —   | 2.90                        | 2,132                   |
|              | May 16, 1956  | —   | 2.71                        | 1,992                   |
|              | Mar. 25, 1964 | 3,400   | 3.01                        | 2,212                   |
|              | Apr. 30, 1966 | 3,380   | 3.22                        | 2,367                   |
| JL-49-31-823 | May 1951      | —   | 1.70                        | 1,250                   |
|              | Mar. 23, 1954 | 2,170   | 2.07                        | 1,521                   |
|              | Mar. 15, 1955 | 2,272   | 2.16                        | 1,588                   |
|              | May 13, 1956  | —   | 2.14                        | 1,573                   |
|              | Apr. 16, 1965 | —   | 1.46                        | 1,073                   |
| JL-49-31-824 | June 9, 1956  | —   | 1.95                        | 1,433                   |
|              | Apr. 7, 1957  | —   | 2.05                        | 1,507                   |
|              | Aug. 1964     | —   | 1.42                        | 1,044                   |
| JL-49-31-825 | Mar. 11, 1964 | —   | 2.43                        | 1,786                   |
| JL-49-31-826 | Mar. 26, 1954 | 3,041   | 2.90                        | 2,132                   |
|              | May 11, 1956  | —   | 2.95                        | 2,168                   |
|              | Mar. 19, 1957 | —   | 2.65                        | 1,948                   |
|              | Mar. 12, 1964 | —   | 3.23                        | 2,374                   |
|              | Apr. 15, 1965 | —   | 3.01                        | 2,212                   |
| JL-49-31-827 | June 28, 1954 | 2,852   | 2.72                        | 1,999                   |
|              | May 25, 1955  | —   | 2.71                        | 1,992                   |
|              | May 11, 1956  | —   | 2.52                        | 1,852                   |
|              | Mar. 19, 1957 | —   | 2.21                        | 1,624                   |
|              | Mar. 12, 1964 | —   | 2.96                        | 2,176                   |
|              | Apr. 15, 1965 | —   | 2.65                        | 1,948                   |
|              | June 2, 1966  | 2,970   | 2.83                        | 2,080                   |



Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific conductance (micromhos at 25°C) | Dissolved-solids content |                      |
|--------------|---------------|--|--------------------------|----------------------|
|              |               |  | Tons per acre-foot       | Milligrams per liter |
| JL-49-31-828 | Mar. 10, 1954 | 3,052                                    | 2.91                     | 2,139                |
|              | Apr. 28, 1955 | —  | 3.05                     | 2,242                |
|              | Apr. 22, 1956 | —  | 3.33                     | 2,448                |
|              | Mar. 22, 1957 | —  | 3.09                     | 2,271                |
| JL-49-31-829 | June 23, 1955 | —  | 3.43                     | 2,521                |
|              | June 9, 1956  | —  | 4.29                     | 3,153                |
|              | Apr. 7, 1957  | —  | 4.77                     | 3,506                |
|              | Aug. 1964     | —  | 4.02                     | 2,955                |
| JL-49-31-831 | May 1951      | —  | 3.20                     | 2,352                |
|              | Apr. 22, 1956 | —  | 4.10                     | 3,014                |
|              | Apr. 2, 1957  | —  | 3.40                     | 2,499                |
| JL-49-31-833 | Apr. 26, 1955 | —  | 2.86                     | 2,102                |
|              | Apr. 22, 1956 | —  | 3.40                     | 2,499                |
|              | Apr. 6, 1957  | —  | 2.34                     | 1,720                |
|              | June 4, 1957  | —  | 3.27                     | 2,403                |
| JL-49-31-834 | May 1951      | —  | 1.80                     | 1,323                |
|              | Feb. 26, 1954 | 2,443                                    | 2.33                     | 1,713                |
|              | Apr. 27, 1955 | —  | 2.67                     | 1,962                |
|              | Mar. 20, 1956 | 3,350                                    | 3.19                     | 2,345                |
|              | Mar. 18, 1957 | —  | 3.18                     | 2,337                |
|              | Mar. 12, 1964 | —  | 3.36                     | 2,470                |
| JL-49-31-835 | May 1951      | —  | 1.90                     | 1,397                |
|              | Feb. 26, 1954 | 2,347                                    | 2.24                     | 1,646                |
|              | Jan. 29, 1955 | 2,491                                    | 2.37                     | 1,742                |
|              | May 17, 1955  | —  | 2.48                     | 1,823                |
|              | Apr. 22, 1956 | —  | 2.69                     | 1,977                |
|              | Apr. 16, 1957 | —  | 2.52                     | 1,852                |
|              | Mar. 12, 1964 | —  | 2.92                     | 2,146                |
|              | —             | —  | —                        | —                    |
| JL-49-31-836 | Feb. 26, 1954 | 2,069                                    | 1.97                     | 1,448                |
|              | May 31, 1955  | —  | 2.52                     | 1,852                |
|              | June 29, 1955 | —  | 2.62                     | 1,926                |
|              | Mar. 20, 1956 | 3,100                                    | 2.95                     | 2,168                |
|              | Apr. 16, 1957 | —  | 3.01                     | 2,212                |
|              | Mar. 12, 1964 | —  | 2.83                     | 2,080                |
| JL-49-31-837 | July 1951     | —  | 2.89                     | 2,124                |
|              | Apr. 14, 1955 | —  | 2.71                     | 1,992                |
|              | Apr. 29, 1956 | —  | 2.86                     | 2,102                |
|              | Apr. 10, 1957 | —  | 2.74                     | 2,014                |
|              | Mar. 17, 1964 | —  | 2.65                     | 1,948                |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25°C) | Dissolved-solids<br>content |                         |
|--------------|---------------|---|-----------------------------|-------------------------|
|              |               |   | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-31-838 | May 1951      | —   | 1.33                        | 978                     |
|              | Apr. 4, 1955  | —   | 2.21                        | 1,624                   |
|              | Apr. 22, 1956 | —   | 2.57                        | 1,889                   |
|              | Aug. 1964     | —   | 2.25                        | 1,654                   |
| JL-49-31-839 | Mar. 18, 1957 | —   | 2.96                        | 2,176                   |
| JL-49-31-840 | Mar. 30, 1955 | 7,252   | 6.91                        | 5,079                   |
|              | Apr. 15, 1956 | —   | 7.90                        | 5,807                   |
|              | May 29, 1957  | —   | 2.08                        | 1,529                   |
|              | Mar. 17, 1964 | —   | 2.65                        | 1,948                   |
|              | Apr. 12, 1965 | —   | 2.74                        | 2,014                   |
|              | May 27, 1966  | 3,090   | 2.94                        | 2,161                   |
| JL-49-31-843 | Mar. 18, 1957 | —   | 1.58                        | 1,161                   |
|              | Mar. 13, 1964 | —   | 1.86                        | 1,367                   |
| JL-49-31-844 | Mar. 12, 1964 | —   | 4.16                        | 3,058                   |
|              | Apr. 3, 1965  | —   | 3.36                        | 2,470                   |
|              | 1966          | 3,780   | 3.60                        | 2,646                   |
| JL-49-31-846 | Apr. 12, 1965 | —   | 3.27                        | 2,403                   |
| JL-49-31-903 | Feb. 23, 1954 | 2,020   | 1.92                        | 1,411                   |
|              | Apr. 28, 1955 | —   | 2.10                        | 1,544                   |
|              | Apr. 16, 1956 | —   | 2.19                        | 1,610                   |
|              | Mar. 19, 1957 | —   | 1.86                        | 1,367                   |
|              | Mar. 1964     | —   | 2.25                        | 1,654                   |
| JL-49-31-906 | Mar. 1964     | —   | 1.90                        | 1,397                   |
| JL-49-31-907 | Feb. 23, 1954 | 3,079   | 2.93                        | 2,154                   |
|              | June 24, 1955 | —   | 2.67                        | 1,962                   |
|              | Mar. 22, 1957 | —   | 2.48                        | 1,823                   |
| JL-49-39-101 | May 4, 1955   | —   | 5.33                        | 3,918                   |
|              | Apr. 22, 1956 | —   | 6.57                        | 4,829                   |
|              | Mar. 15, 1957 | —   | 5.22                        | 3,837                   |
|              | Mar. 31, 1964 | 5,800   | 5.13                        | 3,771                   |
|              | Aug. 1965     | 6,400   | 5.66                        | 4,160                   |
|              | May 15, 1966  | 6,403   | 6.10                        | 4,484                   |
| JL-49-39-102 | Apr. 13, 1955 | —   | 2.81                        | 2,065                   |
|              | Apr. 25, 1956 | —   | 4.00                        | 2,940                   |
|              | June 5, 1956  | —   | 4.10                        | 3,014                   |
|              | Mar. 15, 1957 | —   | 3.80                        | 2,793                   |
|              | Mar. 10, 1964 | —   | 5.48                        | 4,028                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-39-103 | Apr. 6, 1954  | 5,060  | 4.82                        | 3,543                   |
|              | Apr. 13, 1955 | —  | 5.33                        | 3,918                   |
|              | June 13, 1956 | —  | 5.52                        | 4,057                   |
|              | Mar. 15, 1957 | —  | 5.04                        | 3,704                   |
|              | Mar. 17, 1964 | —  | 5.57                        | 4,094                   |
|              | Aug. 1965     | 6,500  | 5.75                        | 4,226                   |
| JL-49-39-104 | Apr. 25, 1956 | —  | 5.24                        | 3,851                   |
|              | May 1, 1957   | —  | 4.95                        | 3,638                   |
|              | Mar. 10, 1964 | —  | 4.07                        | 2,991                   |
|              | June 2, 1966  | 4,530  | 4.31                        | 3,162                   |
| JL-49-39-105 | May 10, 1956  | —  | 2.67                        | 1,962                   |
|              | Mar. 10, 1964 | —  | 4.60                        | 3,381                   |
|              | Aug. 1965     | 4,300  | 3.81                        | 2,800                   |
|              | May 15, 1966  | 4,270  | 4.07                        | 2,991                   |
| JL-49-39-106 | June 13, 1956 | —  | 4.76                        | 3,499                   |
|              | Mar. 15, 1957 | —  | 4.86                        | 3,572                   |
|              | Mar. 10, 1964 | —  | 5.13                        | 3,771                   |
| JL-49-39-107 | Mar. 17, 1964 | —  | 6.19                        | 4,550                   |
|              | Mar. 28, 1964 | 1,750  | 1.55                        | 1,139                   |
| JL-49-39-108 | Mar. 31, 1964 | 4,000  | 3.54                        | 2,602                   |
|              | Aug. 1965     | 4,750  | 4.20                        | 3,087                   |
|              | May 3, 1966   | 4,730  | 4.50                        | 3,308                   |
| JL-49-39-202 | June 4, 1957  | —  | 1.59                        | 1,169                   |
|              | Mar. 28, 1964 | 6,500  | 5.75                        | 4,226                   |
| JL-49-39-204 | Apr. 19, 1955 | —  | 3.43                        | 2,521                   |
|              | July 11, 1955 | 3,519  | 3.35                        | 2,462                   |
|              | Apr. 22, 1956 | —  | 3.52                        | 2,587                   |
|              | Apr. 16, 1957 | —  | 3.54                        | 2,602                   |
|              | Aug. 1964     | —  | 2.60                        | 1,911                   |
| JL-49-39-205 | Apr. 19, 1955 | —  | 4.10                        | 3,014                   |
|              | Mar. 17, 1956 | 4,300  | 4.10                        | 3,014                   |
|              | May 10, 1956  | —  | 3.76                        | 2,764                   |
|              | Mar. 28, 1957 | —  | 3.71                        | 2,727                   |
|              | Mar. 16, 1964 | —  | 2.23                        | 1,639                   |
|              | Mar. 28, 1964 | 2,550  | 2.25                        | 1,654                   |
| JL-49-39-206 | June 21, 1955 | 2,287  | 2.18                        | 1,602                   |
|              | June 14, 1956 | —  | 4.57                        | 3,359                   |
|              | Apr. 15, 1957 | —  | 5.39                        | 3,962                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-39-211 | Feb. 26, 1954 | 2,458  | 2.34                        | 1,720                   |
|              | July 10, 1955 | 3,762  | 3.58                        | 2,631                   |
|              | May 11, 1956  | —  | 3.62                        | 2,661                   |
|              | Apr. 11, 1957 | —  | 2.56                        | 1,882                   |
|              | Mar. 12, 1964 | —  | 3.18                        | 2,337                   |
|              | Apr. 12, 1965 | —  | 2.92                        | 2,146                   |
| JL-49-39-212 | Apr. 29, 1955 | —  | 2.62                        | 1,926                   |
|              | June 15, 1956 | —  | 2.24                        | 1,646                   |
|              | Mar. 7, 1957  | —  | 1.77                        | 1,301                   |
|              | Aug. 1965     | 2,825  | 2.50                        | 1,838                   |
| JL-49-39-213 | Apr. 14, 1955 | —  | 2.76                        | 2,029                   |
|              | May 25, 1956  | —  | 2.48                        | 1,823                   |
|              | Apr. 11, 1957 | —  | 4.95                        | 3,638                   |
|              | May 22, 1957  | —  | 5.04                        | 3,704                   |
| JL-49-39-214 | May 1951      | —  | 11.02                       | 8,100                   |
|              | Apr. 26, 1955 | —  | 12.86                       | 9,452                   |
|              | Sept. 7, 1956 | 12,111   | 11.50                       | 8,453                   |
| JL-49-39-215 | May 13, 1955  | —  | 7.24                        | 5,321                   |
| JL-49-39-217 | May 1951      | —  | 7.10                        | 5,219                   |
| JL-49-39-218 | Jan. 29, 1955 | 2,344  | 2.23                        | 1,639                   |
|              | Apr. 4, 1955  | —  | 4.38                        | 3,219                   |
|              | Apr. 22, 1956 | —  | 3.14                        | 2,308                   |
|              | June 4, 1957  | —  | 3.63                        | 2,668                   |
|              | Mar. 13, 1964 | —  | 4.69                        | 3,447                   |
| JL-49-39-219 | Apr. 6, 1954  | 3,563  | 3.39                        | 2,492                   |
|              | June 20, 1955 | 3,324  | 3.17                        | 2,330                   |
|              | Apr. 18, 1956 | —  | 3.81                        | 2,800                   |
|              | Mar. 21, 1964 | 5,500  | 4.86                        | 3,572                   |
|              | Aug. 1965     | 6,400  | 5.66                        | 4,160                   |
|              | May 27, 1966  | 6,320  | 6.02                        | 4,425                   |
| JL-49-39-220 | May 2, 1956   | —  | 5.39                        | 3,962                   |
|              | June 9, 1956  | —  | 5.14                        | 3,778                   |
|              | Apr. 19, 1957 | —  | 5.66                        | 4,160                   |
|              | Aug. 1964     | —  | 4.86                        | 3,572                   |
|              | Apr. 24, 1965 | —  | 4.64                        | 3,410                   |
| JL-49-39-221 | Apr. 25, 1955 | —  | 2.30                        | 1,691                   |
|              | May 9, 1956   | —  | 4.76                        | 3,499                   |
|              | Mar. 15, 1957 | —  | 4.77                        | 3,506                   |
|              | Mar. 10, 1964 | —  | 6.63                        | 4,873                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-39-222 | Apr. 6, 1954  | 3,988  | 3.80                        | 2,793                   |
|              | Apr. 19, 1955 | —  | 5.24                        | 3,851                   |
|              | Mar. 19, 1956 | 8,000  | 7.62                        | 5,601                   |
|              | Mar. 18, 1957 | —  | 6.10                        | 4,484                   |
|              | Mar. 10, 1964 | —  | 6.01                        | 4,417                   |
|              | Aug. 1965     | 7,000  | 6.19                        | 4,550                   |
| JL-49-39-223 | Apr. 6, 1954  | 5,103  | 4.86                        | 3,572                   |
|              | May 3, 1955   | —  | 6.67                        | 4,902                   |
|              | Mar. 20, 1956 | 8,500  | 8.10                        | 5,954                   |
|              | Mar. 15, 1957 | —  | 7.96                        | 5,851                   |
| JL-49-39-224 | Apr. 6, 1954  | 2,959  | 2.82                        | 2,073                   |
|              | Apr. 20, 1955 | —  | 5.05                        | 3,712                   |
|              | May 9, 1956   | —  | 4.86                        | 3,572                   |
|              | Apr. 19, 1957 | —  | 5.04                        | 3,704                   |
|              | Mar. 10, 1964 | —  | 4.69                        | 3,447                   |
|              |               |  |                             |                         |
| JL-49-39-225 | Mar. 1, 1954  | 5,213  | 4.96                        | 3,646                   |
|              | Apr. 6, 1954  | 5,434  | 5.18                        | 3,807                   |
|              | May 31, 1955  | —  | 6.19                        | 4,550                   |
|              | Mar. 20, 1956 | 5,800  | 5.52                        | 4,057                   |
|              | Mar. 15, 1957 | —  | 7.07                        | 5,196                   |
|              |               |  |                             |                         |
| JL-49-39-226 | Apr. 7, 1954  | 4,363  | 4.16                        | 3,058                   |
|              | May 6, 1955   | —  | 4.76                        | 3,499                   |
|              | Aug. 6, 1956  | —  | 5.14                        | 3,778                   |
|              | Mar. 15, 1957 | —  | 5.31                        | 3,903                   |
|              | Mar. 10, 1964 | —  | 6.01                        | 4,417                   |
|              | Aug. 1965     | 6,900  | 6.11                        | 4,491                   |
|              |               |  |                             |                         |
| JL-49-39-227 | Apr. 7, 1954  | 4,494  | 4.28                        | 3,146                   |
|              | May 6, 1955   | —  | 5.33                        | 3,918                   |
|              | May 11, 1956  | —  | 6.38                        | 4,689                   |
|              | Mar. 15, 1957 | —  | 6.01                        | 4,417                   |
|              | Mar. 10, 1964 | —  | 6.19                        | 4,550                   |
|              | Aug. 1965     | 6,850  | 6.06                        | 4,454                   |
|              |               |  |                             |                         |
| JL-49-39-229 | July 1951     | —  | 2.55                        | 1,874                   |
|              | Dec. 1951     | —  | 3.90                        | 2,867                   |
|              | Apr. 7, 1954  | 5,575  | 5.31                        | 3,903                   |
|              | Apr. 7, 1955  | —  | 6.10                        | 4,484                   |
|              | May 8, 1956   | —  | 6.67                        | 4,902                   |
|              | Apr. 5, 1957  | —  | 6.72                        | 4,939                   |
|              | Mar. 17, 1964 | —  | 6.01                        | 4,417                   |
|              |               |  |                             |                         |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific conductance (micromhos at 25° C) | Dissolved-solids content |                      |
|--------------|---------------|---|--------------------------|----------------------|
|              |               |   | Tons per acre-foot       | Milligrams per liter |
| JL-49-39-230 | June 21, 1955 | 6,649                                     | 6.33                     | 4,653                |
|              | Mar. 28, 1964 | 3,750                                     | 3.32                     | 2,440                |
| JL-49-39-231 | June 6, 1956  | —   | 5.71                     | 4,197                |
|              | May 3, 1957   | —   | 7.96                     | 5,851                |
|              | Mar. 10, 1964 | 8,100                                     | 7.16                     | 5,263                |
|              | Aug. 1965     | 11,500                                    | 10.18                    | 7,482                |
| JL-49-39-235 | Mar. 18, 1957 | —   | 2.25                     | 1,654                |
| JL-49-39-302 | Nov. 1951     | —   | 3.20                     | 2,352                |
|              | June 30, 1955 | 2,122                                     | 2.02                     | 1,485                |
|              | Apr. 12, 1956 | —   | 2.48                     | 1,823                |
|              | Apr. 10, 1957 | —   | 2.22                     | 1,632                |
|              | Mar. 12, 1964 | —   | 2.74                     | 2,014                |
|              | Apr. 25, 1965 | —   | 2.30                     | 1,691                |
|              | June 2, 1966  | 2,580                                     | 2.46                     | 1,808                |
| JL-49-39-307 | May 12, 1955  | —   | 2.49                     | 1,830                |
|              | Mar. 14, 1956 | 1,550                                     | 2.43                     | 1,786                |
|              | Apr. 10, 1957 | —   | 2.21                     | 1,624                |
| JL-49-39-308 | Feb. 26, 1954 | 1,987                                     | 1.89                     | 1,389                |
|              | May 26, 1955  | —   | 1.81                     | 1,330                |
|              | Apr. 22, 1956 | —   | 2.10                     | 1,544                |
|              | Mar. 19, 1957 | —   | 1.87                     | 1,374                |
|              | Mar. 12, 1964 | —   | 2.21                     | 1,624                |
| JL-49-39-309 | May 12, 1955  | —   | 2.57                     | 1,889                |
|              | May 11, 1956  | —   | 2.36                     | 1,735                |
|              | Apr. 24, 1965 | —   | 2.48                     | 1,823                |
| JL-49-39-310 | June 1951     | —   | 1.81                     | 1,330                |
|              | Mar. 1954     | —   | 2.31                     | 1,698                |
|              | Apr. 14, 1955 | —   | 3.10                     | 2,279                |
|              | Mar. 16, 1956 | 2,710                                     | 2.58                     | 1,896                |
|              | Mar. 1, 1957  | —   | 2.30                     | 1,691                |
|              | Mar. 5, 1964  | —   | 2.25                     | 1,654                |
|              | Apr. 4, 1965  | —   | 2.21                     | 1,624                |
| JL-49-39-311 | Aug. 1, 1956  | —   | 2.10                     | 1,544                |
|              | Mar. 1, 1957  | —   | 1.95                     | 1,433                |
|              | Mar. 5, 1964  | —   | 2.17                     | 1,595                |
|              | Apr. 3, 1965  | —   | 1.95                     | 1,433                |
|              | Apr. 15, 1966 | 2,170                                     | 2.07                     | 1,521                |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25°C) | Dissolved-solids<br>content |                         |
|--------------|---------------|---|-----------------------------|-------------------------|
|              |               |   | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-39-315 | Feb. 1954     | —   | 2.61                        | 1,918                   |
|              | Apr. 12, 1955 | —   | 2.50                        | 1,838                   |
|              | Mar. 25, 1956 | 2,800   | 2.67                        | 1,962                   |
|              | Mar. 5, 1957  | —   | 2.17                        | 1,595                   |
|              | Mar. 5, 1964  | —   | 2.83                        | 2,080                   |
|              | May 3, 1966   | 2,370   | 2.26                        | 1,661                   |
| JL-49-39-316 | Dec. 1951     | —   | 1.10                        | 809                     |
|              | Apr. 7, 1954  | 1,568   | 1.49                        | 1,095                   |
|              | Apr. 25, 1955 | —   | 1.69                        | 1,242                   |
|              | Mar. 14, 1956 | 2,250   | 2.14                        | 1,573                   |
|              | Mar. 9, 1957  | —   | 1.99                        | 1,463                   |
|              | Mar. 11, 1964 | —   | 2.12                        | 1,558                   |
|              | Apr. 25, 1965 | —   | 2.08                        | 1,529                   |
| JL-49-39-317 | Aug. 1951     | —   | 2.44                        | 1,793                   |
|              | May 13, 1955  | —   | 1.90                        | 1,397                   |
|              | Mar. 14, 1956 | 2,550   | 2.43                        | 1,786                   |
|              | Mar. 9, 1957  | —   | 2.21                        | 1,624                   |
|              | Mar. 12, 1964 | —   | 2.30                        | 1,691                   |
|              | Apr. 24, 1965 | —   | 2.17                        | 1,595                   |
| JL-49-39-318 | Aug. 1965     | 2,925   | 2.59                        | 1,904                   |
| JL-49-39-319 | Jan. 5, 1955  | 1,772   | 1.69                        | 1,242                   |
|              | Apr. 19, 1955 | —   | 2.29                        | 1,683                   |
|              | Mar. 14, 1956 | —   | 2.29                        | 1,683                   |
|              | May 15, 1957  | —   | 1.23                        | 904                     |
|              | Mar. 28, 1964 | 2,300   | 2.03                        | 1,492                   |
| JL-49-39-320 | Aug. 1951     | —   | 1.01                        | 742                     |
|              | Feb. 26, 1954 | 1,650   | 1.57                        | 1,154                   |
|              | Jan. 5, 1955  | 2,283   | 2.17                        | 1,595                   |
|              | Apr. 19, 1955 | —   | 2.76                        | 2,029                   |
|              | Mar. 14, 1956 | 2,200   | 2.10                        | 1,544                   |
|              | May 15, 1957  | —   | 1.56                        | 1,147                   |
| JL-49-39-321 | Feb. 1954     | —   | 2.16                        | 1,588                   |
|              | May 12, 1955  | —   | 2.86                        | 2,102                   |
|              | Mar. 21, 1956 | 3,270   | 3.11                        | 2,286                   |
|              | Mar. 18, 1957 | —   | 3.01                        | 2,212                   |
|              | Mar. 5, 1964  | —   | 2.03                        | 1,492                   |
|              | May 3, 1966   | 3,370   | 3.21                        | 2,359                   |
| JL-49-39-322 | Apr. 1954     | —   | 1.61                        | 1,183                   |
|              | Apr. 21, 1955 | —   | 3.14                        | 2,308                   |
|              | Mar. 16, 1956 | 3,100   | 2.95                        | 2,168                   |
|              | Mar. 7, 1957  | —   | 2.39                        | 1,757                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-39-323 | May 1951      | —  | 2.10                        | 1,544                   |
|              | Feb. 1954     | —  | 2.59                        | 1,904                   |
|              | Apr. 10, 1955 | —  | 2.67                        | 1,962                   |
|              | Mar. 20, 1956 | —  | 2.62                        | 1,926                   |
|              | Mar. 1, 1957  | —  | 1.52                        | 1,117                   |
|              | Mar. 8, 1965  | —  | 2.30                        | 1,691                   |
| JL-49-39-324 | Mar. 1954     | —  | 3.35                        | 2,462                   |
|              | May 17, 1955  | —  | 3.14                        | 2,308                   |
|              | Mar. 16, 1956 | 3,350  | 3.19                        | 2,345                   |
|              | Mar. 14, 1957 | —  | 3.05                        | 2,242                   |
|              | Aug. 1964     | —  | 3.18                        | 2,337                   |
|              | Mar. 28, 1965 | —  | 3.18                        | 2,337                   |
|              | Mar. 27, 1966 | 3,540  | 3.37                        | 2,477                   |
|              | Apr. 11, 1966 | 3,540  | 3.37                        | 2,477                   |
| JL-49-39-325 | Apr. 20, 1955 | —  | 2.57                        | 1,889                   |
|              | Mar. 16, 1956 | 2,680  | 2.55                        | 1,874                   |
|              | Mar. 21, 1957 | —  | 2.03                        | 1,492                   |
|              | Mar. 5, 1964  | —  | 2.49                        | 1,830                   |
|              | Mar. 4, 1965  | —  | 2.48                        | 1,823                   |
|              | Mar. 27, 1966 | 2,760  | 2.63                        | 1,933                   |
|              | Apr. 11, 1966 | 2,340  | 2.23                        | 1,639                   |
| JL-49-39-326 | Jan. 24, 1955 | 2,371  | 2.26                        | 1,661                   |
|              | May 11, 1955  | —  | 2.35                        | 1,727                   |
|              | Mar. 14, 1956 | 2,600  | 2.48                        | 1,823                   |
|              | Mar. 19, 1957 | —  | 2.12                        | 1,558                   |
|              | Mar. 11, 1964 | —  | 2.56                        | 1,882                   |
| JL-49-39-327 | May 1951      | —  | 1.92                        | 1,411                   |
|              | Dec. 29, 1954 | 2,189  | 2.08                        | 1,529                   |
|              | Apr. 20, 1955 | —  | 2.29                        | 1,683                   |
|              | Mar. 14, 1956 | 2,650  | 2.52                        | 1,852                   |
|              | Apr. 17, 1957 | —  | 2.48                        | 1,823                   |
|              | Mar. 11, 1964 | —  | 2.48                        | 1,823                   |
|              | Aug. 1965     | 3,850  | 3.41                        | 2,506                   |
| JL-49-39-328 | Apr. 6, 1954  | 4,591  | 4.37                        | 3,212                   |
|              | Jan. 11, 1955 | 2,664  | 2.54                        | 1,867                   |
|              | Apr. 11, 1955 | —  | 2.48                        | 1,823                   |
|              | Mar. 14, 1956 | 3,800  | 3.62                        | 2,661                   |
|              | Mar. 19, 1957 | —  | 2.96                        | 2,176                   |
|              | Mar. 11, 1964 | —  | 2.96                        | 2,176                   |
|              | Apr. 12, 1965 | —  | 2.30                        | 1,691                   |



Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-39-329 | May 1951      | —  | 1.72                        | 1,264                   |
|              | Apr. 7, 1954  | 2,888  | 2.75                        | 2,021                   |
|              | Jan. 11, 1955 | 3,293  | 3.14                        | 2,308                   |
|              | May 11, 1955  | —  | 3.24                        | 2,381                   |
|              | Mar. 14, 1956 | 3,050  | 2.90                        | 2,132                   |
|              | Mar. 19, 1957 | —  | 3.54                        | 2,602                   |
|              | Mar. 11, 1964 | —  | 3.98                        | 2,925                   |
|              | Aug. 1965     | 4,425  | 3.92                        | 2,881                   |
| JL-49-39-330 | Aug. 8, 1956  | —  | 2.38                        | 1,749                   |
|              | Mar. 19, 1957 | —  | 2.12                        | 1,558                   |
|              | Mar. 28, 1964 | 2,400  | 2.12                        | 1,558                   |
|              | May 27, 1966  | 2,380  | 2.27                        | 1,668                   |
| JL-49-39-331 | June 1951     | —  | 2.52                        | 1,852                   |
|              | Feb. 26, 1954 | 5,169  | 4.92                        | 3,616                   |
|              | Mar. 14, 1956 | 6,500  | 6.19                        | 4,550                   |
|              | Mar. 18, 1957 | —  | 5.48                        | 4,028                   |
| JL-49-39-332 | Apr. 7, 1955  | —  | 2.24                        | 1,646                   |
|              | May 29, 1956  | —  | 1.92                        | 1,411                   |
|              | Apr. 16, 1957 | —  | 2.22                        | 1,632                   |
| JL-49-39-333 | May 1951      | —  | 2.83                        | 2,080                   |
|              | Feb. 26, 1954 | 3,432  | 3.27                        | 2,403                   |
|              | Apr. 7, 1955  | —  | 3.05                        | 2,242                   |
|              | May 29, 1956  | —  | 2.43                        | 1,786                   |
|              | Apr. 16, 1957 | —  | 2.79                        | 2,051                   |
| JL-49-39-335 | Sept. 1951    | —  | 2.56                        | 1,882                   |
|              | Feb. 1954     | —  | 3.17                        | 2,330                   |
|              | Apr. 10, 1955 | —  | 2.67                        | 1,962                   |
|              | Mar. 20, 1956 | 3,600  | 3.43                        | 2,521                   |
|              | Mar. 1, 1957  | —  | 2.83                        | 2,080                   |
|              | Mar. 8, 1965  | —  | 2.61                        | 1,918                   |
| JL-49-39-336 | Apr. 29, 1955 | —  | 1.86                        | 1,367                   |
|              | May 1, 1956   | —  | 3.19                        | 2,345                   |
|              | Apr. 16, 1957 | —  | 3.35                        | 2,462                   |
|              | Mar. 17, 1964 | —  | 3.54                        | 2,602                   |
| JL-49-39-337 | Apr. 7, 1954  | 2,396  | 2.28                        | 1,676                   |
|              | Jan. 11, 1955 | 6,111  | 5.82                        | 4,278                   |
|              | Apr. 19, 1955 | —  | 7.62                        | 5,601                   |
|              | Mar. 11, 1964 | —  | 3.45                        | 2,536                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-39-338 | Dec. 29, 1954 | 1,692  | 1.61                        | 1,183                   |
|              | Apr. 20, 1955 | —  | 1.34                        | 985                     |
|              | Mar. 14, 1956 | 1,720  | 1.64                        | 1,205                   |
|              | Apr. 10, 1957 | —  | 1.58                        | 1,161                   |
|              | Aug. 1965     | 2,000  | 1.77                        | 1,301                   |
|              | June 2, 1966  | 1,990  | 1.90                        | 1,397                   |
| JL-49-39-342 | Apr. 29, 1955 | —  | 3.33                        | 2,448                   |
|              | May 3, 1956   | —  | 3.43                        | 2,521                   |
|              | Apr. 16, 1957 | —  | 4.60                        | 3,381                   |
|              | Mar. 16, 1964 | —  | 3.45                        | 2,536                   |
| JL-49-39-343 | May 3, 1955   | —  | 2.67                        | 1,962                   |
|              | June 28, 1955 | —  | 3.29                        | 2,418                   |
|              | Apr. 12, 1956 | —  | 3.24                        | 2,381                   |
|              | Apr. 17, 1957 | —  | 3.32                        | 2,440                   |
|              | Mar. 12, 1964 | —  | 3.40                        | 2,499                   |
| JL-49-39-501 | Apr. 4, 1955  | —  | 7.14                        | 5,248                   |
|              | Aug. 13, 1956 | —  | 2.46                        | 1,808                   |
|              | Apr. 19, 1957 | —  | 9.90                        | 7,277                   |
|              | Aug. 1965     | 7,000  | 6.19                        | 4,550                   |
|              | May 27, 1966  | 6,970  | 6.64                        | 4,880                   |
| JL-49-39-601 | Aug. 1951     | —  | 3.93                        | 2,889                   |
|              | Mar. 16, 1964 | —  | 4.60                        | 3,381                   |
| JL-49-39-602 | May 3, 1957   | —  | 7.52                        | 5,527                   |
|              | Apr. 24, 1965 | —  | 2.56                        | 1,882                   |
|              | Aug. 1965     | 6,150  | 5.44                        | 3,998                   |
| JL-49-39-604 | Jan. 28, 1955 | 6,749  | 6.43                        | 4,726                   |
|              | Apr. 15, 1955 | —  | 6.86                        | 5,042                   |
|              | May 8, 1956   | —  | 6.57                        | 4,829                   |
|              | Mar. 7, 1957  | —  | 4.51                        | 3,315                   |
|              | Mar. 16, 1964 | —  | 4.95                        | 3,638                   |
|              | Apr. 24, 1965 | —  | 6.01                        | 4,417                   |
|              | May 27, 1966  | 6,780  | 6.46                        | 4,748                   |
| JL-49-39-605 | Mar. 15, 1956 | 4,600  | 4.38                        | 3,219                   |
|              | Mar. 25, 1957 | —  | 7.96                        | 5,851                   |
| JL-49-39-606 | June 21, 1955 | —  | 5.33                        | 3,918                   |
|              | Mar. 14, 1956 | 6,000  | 5.71                        | 4,197                   |
|              | Mar. 19, 1957 | —  | 7.96                        | 5,851                   |
|              | Mar. 28, 1964 | 4,200  | 3.71                        | 2,727                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-39-607 | Apr. 26, 1955 | —  | 6.19                        | 4,550                   |
|              | Mar. 14, 1956 | 7,500  | 7.14                        | 5,248                   |
|              | May 3, 1957   | —  | 3.98                        | 2,925                   |
|              | Mar. 28, 1964 | 5,700  | 5.04                        | 3,704                   |
|              | Apr. 12, 1965 | —  | 5.66                        | 4,160                   |
|              | Apr. 24, 1965 | —  | 7.07                        | 5,196                   |
|              | June 2, 1966  | 6,370  | 6.07                        | 4,461                   |
| JL-49-39-608 | June 28, 1955 | —  | 6.19                        | 4,550                   |
|              | May 20, 1956  | —  | 5.52                        | 4,057                   |
|              | Apr. 9, 1957  | —  | 6.45                        | 4,741                   |
| JL-49-39-609 | June 21, 1955 | —  | 4.38                        | 3,219                   |
|              | Apr. 12, 1956 | —  | 4.57                        | 3,359                   |
|              | Apr. 17, 1957 | —  | 4.51                        | 3,315                   |
|              | Mar. 31, 1964 | 4,300  | 3.80                        | 2,793                   |
|              | Aug. 1965     | 4,750  | 4.20                        | 3,087                   |
| JL-49-39-611 | Aug. 1965     | 1,725  | 1.53                        | 1,125                   |
| JL-49-39-614 | June 30, 1955 | —  | 4.63                        | 3,403                   |
|              | Mar. 14, 1956 | 6,300  | 6.00                        | 4,410                   |
|              | Mar. 25, 1957 | —  | 7.07                        | 5,196                   |
|              | Aug. 1964     | —  | 6.41                        | 4,711                   |
|              | Apr. 1965     | —  | 8.84                        | 6,497                   |
|              | Aug. 1965     | 8,050  | 7.12                        | 5,233                   |
|              | Apr. 27, 1966 | 8,030  | 7.65                        | 5,623                   |
| JL-49-39-615 | Jan. 28, 1955 | 6,568  | 6.26                        | 4,601                   |
|              | Apr. 5, 1955  | —  | 6.38                        | 4,689                   |
|              | Aug. 1964     | —  | 8.17                        | 6,005                   |
| JL-49-39-616 | Apr. 5, 1955  | —  | 7.14                        | 5,248                   |
|              | May 18, 1956  | —  | 10.48                       | 7,703                   |
|              | Aug. 1964     | —  | 3.51                        | 2,580                   |
|              | Aug. 1965     | 8,050  | 7.12                        | 5,233                   |
| JL-49-39-617 | Apr. 11, 1955 | —  | 2.67                        | 1,962                   |
|              | Apr. 16, 1956 | —  | 2.48                        | 1,823                   |
|              | Mar. 18, 1957 | —  | 2.39                        | 1,757                   |
|              | Aug. 1964     | —  | 2.40                        | 1,764                   |
| JL-49-39-618 | June 23, 1955 | —  | 2.86                        | 2,102                   |
|              | May 21, 1956  | —  | 2.86                        | 2,102                   |
|              | Mar. 16, 1964 | —  | 3.18                        | 2,337                   |
|              | Aug. 1964     | —  | 2.74                        | 2,014                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific conductance (micromhos at 25° C) | Dissolved-solids content |                      |
|--------------|---------------|---|--------------------------|----------------------|
|              |               |   | Tons per acre-foot       | Milligrams per liter |
| JL-49-40-101 | May 1951      | —   | 2.70                     | 1,985                |
|              | Mar. 1954     | —   | 3.04                     | 2,234                |
|              | June 27, 1955 | 2,955                                     | 2.81                     | 2,065                |
|              | Mar. 16, 1956 | 3,400                                     | 3.24                     | 2,381                |
|              | Mar. 29, 1957 | —   | 2.74                     | 2,014                |
| JL-49-40-102 | Apr. 1954     | —   | 1.39                     | 1,022                |
|              | May 31, 1955  | —   | 2.10                     | 1,544                |
|              | Mar. 16, 1956 | 2,600                                     | 2.48                     | 1,823                |
|              | Mar. 4, 1957  | —   | 2.17                     | 1,595                |
| JL-49-40-106 | Nov. 1951     | —   | 2.90                     | 2,132                |
|              | Mar. 1954     | —   | 3.50                     | 2,573                |
|              | Apr. 16, 1955 | —   | 3.81                     | 2,800                |
|              | Mar. 16, 1956 | 3,600                                     | 3.43                     | 2,521                |
|              | Mar. 1, 1957  | —   | 3.53                     | 2,595                |
|              | Mar. 9, 1964  | —   | 4.07                     | 2,991                |
| JL-49-40-403 | Feb. 1954     | —   | 2.69                     | 1,977                |
|              | Apr. 27, 1955 | —   | 3.81                     | 2,800                |
|              | Mar. 20, 1956 | —   | 4.19                     | 3,080                |
|              | Apr. 1, 1957  | —   | 4.07                     | 2,991                |
|              | Mar. 6, 1964  | —   | 2.79                     | 2,051                |
| JL-49-40-408 | Apr. 4, 1955  | 6,283                                     | 5.98                     | 4,395                |
|              | Mar. 21, 1956 | 7,400                                     | 7.05                     | 5,182                |
|              | Mar. 1, 1957  | —   | 6.19                     | 4,550                |
|              | Mar. 10, 1964 | 7,700                                     | 6.81                     | 5,005                |
| JL-49-40-411 | Mar. 8, 1955  | —   | 4.29                     | 3,153                |
|              | Mar. 1956     | —   | 3.80                     | 2,793                |
|              | Aug. 8, 1956  | —   | 5.14                     | 3,778                |
|              | Mar. 4, 1957  | —   | 4.60                     | 3,381                |
|              | Aug. 1964     | —   | 4.11                     | 3,021                |
|              | Feb. 24, 1965 | —   | 4.20                     | 3,087                |
|              | May 3, 1966   | 4,730                                     | 4.50                     | 3,308                |
|              | May 3, 1966   | 4,610                                     | 4.39                     | 3,227                |
| JL-49-40-413 | Mar. 19, 1957 | —   | 4.51                     | 3,315                |
| JL-49-40-414 | Apr. 1954     | —   | 2.58                     | 1,896                |
|              | May 3, 1955   | —   | 5.33                     | 3,918                |
|              | Apr. 15, 1956 | —   | 6.10                     | 4,484                |
|              | Mar. 7, 1957  | —   | 5.75                     | 4,226                |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25°C) | Dissolved-solids<br>content |                         |
|--------------|---------------|---|-----------------------------|-------------------------|
|              |               |   | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-40-415 | May 3, 1955   | —   | 6.86                        | 5,042                   |
|              | May 6, 1956   | —   | 4.95                        | 3,638                   |
|              | Apr. 15, 1956 | —   | 5.43                        | 3,991                   |
|              | Mar. 7, 1957  | —   | 4.24                        | 3,116                   |
|              | Mar. 26, 1964 | 4,000   | 3.54                        | 2,602                   |
|              | Aug. 1964     | 3,200   | 2.83                        | 2,080                   |
|              | Mar. 29, 1965 | —   | 3.85                        | 2,830                   |
| JL-49-40-416 | May 10, 1955  | —   | 4.19                        | 3,080                   |
|              | Mar. 25, 1956 | —   | 4.76                        | 3,499                   |
|              | Apr. 9, 1957  | —   | 4.07                        | 2,991                   |
|              | Mar. 8, 1965  | —   | 3.54                        | 2,602                   |
| JL-49-40-417 | Feb. 1954     | —   | 3.17                        | 2,330                   |
|              | Mar. 28, 1955 | —   | 3.19                        | 2,345                   |
|              | Mar. 20, 1956 | 3,700   | 3.52                        | 2,587                   |
|              | Apr. 1, 1957  | —   | 2.96                        | 2,176                   |
|              | Mar. 6, 1964  | —   | 3.27                        | 2,403                   |
|              | Mar. 28, 1965 | —   | 2.56                        | 1,882                   |
| JL-49-40-418 | Mar. 1954     | —   | 3.18                        | 2,337                   |
|              | Apr. 25, 1955 | —   | 3.71                        | 2,727                   |
|              | Mar. 21, 1956 | 3,450   | 3.29                        | 2,418                   |
|              | Mar. 1, 1957  | —   | 2.96                        | 2,176                   |
|              | Mar. 6, 1964  | —   | 3.18                        | 2,337                   |
|              | Mar. 4, 1965  | —   | 3.01                        | 2,212                   |
| JL-49-40-419 | Mar. 1954     | —   | 4.72                        | 3,469                   |
|              | Apr. 25, 1955 | —   | 2.86                        | 2,102                   |
|              | Mar. 21, 1956 | —   | 7.14                        | 5,248                   |
|              | May 7, 1956   | —   | 6.48                        | 4,763                   |
|              | Mar. 1, 1957  | —   | 6.19                        | 4,550                   |
|              | Mar. 5, 1964  | —   | 6.37                        | 4,682                   |
|              | Feb. 24, 1965 | —   | 7.07                        | 5,196                   |
|              | Apr. 10, 1966 | 7,970   | 7.59                        | 5,579                   |
| JL-49-40-420 | Mar. 1954     | —   | 4.50                        | 3,308                   |
|              | Apr. 11, 1955 | —   | 8.00                        | 5,880                   |
|              | Mar. 16, 1956 | 5,100   | 4.30                        | 3,161                   |
|              | June 20, 1956 | —   | 4.57                        | 3,359                   |
|              | Mar. 14, 1957 | —   | 4.24                        | 3,116                   |
|              | Feb. 24, 1965 | —   | 3.63                        | 2,668                   |

**Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued**

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-40-421 | Apr. 11, 1955 | —  | 5.43                        | 3,991                   |
|              | Mar. 16, 1956 | 3,990  | 3.80                        | 2,793                   |
|              | June 20, 1956 | —  | 3.48                        | 2,558                   |
|              | Mar. 14, 1957 | —  | 3.23                        | 2,374                   |
|              | Mar. 12, 1964 | 4,700  | 4.16                        | 3,058                   |
|              | Feb. 24, 1965 | —  | 4.02                        | 2,955                   |
|              | Apr. 11, 1966 | 3,690  | 3.51                        | 2,580                   |
| JL-49-40-422 | Mar. 1954     | —  | 4.82                        | 3,543                   |
|              | June 27, 1955 | 4,866  | 4.63                        | 3,403                   |
|              | Mar. 20, 1956 | 5,900  | 5.62                        | 4,131                   |
|              | Mar. 5, 1957  | —  | 4.42                        | 3,249                   |
| JL-49-40-423 | Apr. 1954     | —  | 3.18                        | 2,337                   |
|              | Apr. 29, 1955 | —  | 3.71                        | 2,727                   |
|              | Mar. 20, 1956 | 4,400  | 4.19                        | 3,080                   |
|              | Mar. 4, 1957  | —  | 3.63                        | 2,668                   |
| JL-49-40-428 | Mar. 1954     | —  | 3.02                        | 2,220                   |
|              | Apr. 12, 1955 | —  | 3.24                        | 2,381                   |
|              | Mar. 21, 1956 | —  | 3.50                        | 2,573                   |
|              | Mar. 1, 1957  | —  | 3.01                        | 2,212                   |
|              | Mar. 9, 1964  | —  | 3.45                        | 2,536                   |
| JL-49-40-429 | Apr. 4, 1955  | 3,810  | 3.63                        | 2,668                   |
|              | Mar. 16, 1956 | 3,450  | 3.29                        | 2,418                   |
|              | Mar. 1, 1957  | —  | 2.96                        | 2,176                   |
|              | Mar. 10, 1964 | 3,900  | 3.45                        | 2,536                   |
| JL-49-40-430 | Feb. 1954     | —  | 5.01                        | 3,682                   |
|              | Apr. 16, 1955 | —  | 5.81                        | 4,270                   |
|              | Mar. 21, 1956 | 5,900  | 5.62                        | 4,131                   |
|              | Mar. 5, 1957  | —  | 5.22                        | 3,837                   |
|              | Mar. 4, 1965  | —  | 3.01                        | 2,212                   |
|              | Mar. 25, 1966 | 3,380  | 3.22                        | 2,367                   |
| JL-49-40-431 | June 27, 1955 | 5,498  | 5.24                        | 3,851                   |
|              | Mar. 21, 1956 | 6,200  | 5.90                        | 4,337                   |
|              | Mar. 1, 1957  | —  | 5.48                        | 4,028                   |
|              | Mar. 12, 1964 | 3,050  | 2.70                        | 1,985                   |
|              | Mar. 16, 1965 | —  | 4.42                        | 3,249                   |
| JL-49-40-432 | Feb. 1954     | —  | 5.54                        | 4,072                   |
|              | Apr. 12, 1955 | —  | 6.95                        | 5,108                   |
|              | Mar. 21, 1956 | 4,600  | 4.38                        | 3,219                   |
|              | May 11, 1956  | —  | 5.71                        | 4,197                   |
|              | Mar. 1, 1957  | —  | 4.69                        | 3,447                   |
|              | Mar. 9, 1964  | —  | 5.16                        | 3,793                   |
|              | Mar. 29, 1965 | —  | 4.60                        | 3,381                   |
|              | Apr. 15, 1966 | 5,100  | 4.86                        | 3,572                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-40-433 | Feb. 1954     | —  | 3.39                        | 2,492                   |
|              | Apr. 13, 1955 | —  | 3.05                        | 2,242                   |
|              | Mar. 16, 1956 | 3,000  | 2.86                        | 2,102                   |
|              | Mar. 4, 1957  | —  | 3.54                        | 2,602                   |
|              | Apr. 2, 1964  | 4,600  | 4.07                        | 2,991                   |
| JL-49-40-435 | Mar. 1954     | —  | 3.15                        | 2,315                   |
|              | Apr. 12, 1955 | —  | 2.40                        | 1,764                   |
|              | Mar. 16, 1956 | 3,600  | 3.43                        | 2,521                   |
|              | Mar. 4, 1957  | —  | 3.54                        | 2,602                   |
|              | Mar. 12, 1964 | 4,700  | 4.16                        | 3,058                   |
|              | Mar. 4, 1965  | —  | 4.33                        | 3,183                   |
| JL-49-40-436 | Apr. 13, 1955 | —  | 1.71                        | 1,257                   |
|              | Mar. 16, 1956 | 2,300  | 2.19                        | 1,610                   |
|              | Mar. 4, 1957  | —  | 3.25                        | 2,389                   |
|              | Apr. 2, 1964  | 4,200  | 3.71                        | 2,727                   |
| JL-49-40-507 | Mar. 1954     | —  | 2.98                        | 2,190                   |
|              | May 3, 1955   | —  | 2.95                        | 2,168                   |
|              | May 14, 1956  | —  | 2.95                        | 2,168                   |
|              | Mar. 26, 1957 | —  | 3.02                        | 2,220                   |
|              | Aug. 1964     | —  | 2.99                        | 2,198                   |
| JL-49-40-508 | Aug. 1964     | —  | 2.40                        | 1,764                   |
|              | Mar. 18, 1965 | —  | 3.54                        | 2,602                   |
| JL-49-40-509 | Aug. 1964     | —  | 2.82                        | 2,073                   |
| JL-49-40-510 | Feb. 1954     | —  | 5.46                        | 4,013                   |
|              | Apr. 11, 1955 | —  | 5.71                        | 4,197                   |
|              | Mar. 14, 1957 | —  | 4.86                        | 3,572                   |
|              | Mar. 12, 1964 | 5,500  | 4.86                        | 3,572                   |
|              | Mar. 4, 1965  | —  | 5.08                        | 3,734                   |
| JL-49-40-701 | Mar. 1954     | —  | 1.45                        | 1,066                   |
|              | Apr. 12, 1955 | —  | 1.73                        | 1,272                   |
|              | Mar. 16, 1956 | 1,800  | 1.71                        | 1,257                   |
|              | Mar. 4, 1957  | —  | 1.72                        | 1,264                   |
|              | Mar. 4, 1965  | —  | 2.43                        | 1,786                   |
| JL-49-40-704 | Mar. 16, 1956 | 3,300  | 3.14                        | 2,308                   |
|              | Mar. 4, 1957  | —  | 3.09                        | 2,271                   |
|              | Aug. 1964     | —  | 3.09                        | 2,271                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-40-705 | Mar. 1954     | —  | 2.20                        | 1,617                   |
|              | Apr. 11, 1955 | —  | 2.33                        | 1,713                   |
|              | Mar. 16, 1956 | 2,550  | 2.43                        | 1,786                   |
|              | Mar. 4, 1957  | —  | 1.70                        | 1,250                   |
|              | Mar. 4, 1965  | —  | 2.43                        | 1,786                   |
|              | Mar. 27, 1966 | 2,710  | 2.58                        | 1,896                   |
| JL-49-40-706 | Feb. 1954     | —  | 2.44                        | 1,793                   |
|              | Apr. 11, 1955 | —  | 2.76                        | 2,029                   |
|              | Mar. 16, 1956 | 3,000  | 2.86                        | 2,102                   |
|              | Mar. 18, 1957 | —  | 3.09                        | 2,271                   |
|              | Mar. 12, 1964 | 4,000  | 3.54                        | 2,602                   |
|              | Mar. 4, 1965  | —  | 4.02                        | 2,955                   |
| JL-49-40-707 | Apr. 1954     | —  | 2.80                        | 2,058                   |
|              | Apr. 11, 1955 | —  | 4.29                        | 3,153                   |
|              | Mar. 16, 1956 | 5,200  | 4.95                        | 3,638                   |
|              | Mar. 12, 1964 | 4,100  | 3.63                        | 2,668                   |
| JL-49-40-708 | June 14, 1955 | —  | 3.33                        | 2,448                   |
|              | Mar. 16, 1956 | 4,400  | 4.19                        | 3,080                   |
|              | Mar. 4, 1957  | —  | 4.86                        | 3,572                   |
|              | Mar. 4, 1965  | —  | 2.12                        | 1,558                   |
| JL-49-40-709 | June 19, 1955 | —  | 6.19                        | 4,550                   |
|              | Mar. 16, 1956 | 5,600  | 5.33                        | 3,918                   |
|              | Mar. 4, 1957  | —  | 3.63                        | 2,668                   |
| JL-49-40-710 | Apr. 2, 1964  | —  | .81                         | 595                     |
| JL-49-40-804 | May 1951      | —  | 2.79                        | 2,051                   |
|              | Mar. 1954     | —  | 3.11                        | 2,286                   |
|              | Mar. 29, 1955 | 3,506  | 3.34                        | 2,455                   |
|              | Mar. 16, 1956 | 4,000  | 3.81                        | 2,800                   |
|              | Mar. 4, 1957  | —  | 3.45                        | 2,536                   |
|              | Mar. 12, 1964 | 4,300  | 3.80                        | 2,793                   |
|              | Mar. 8, 1965  | —  | 3.36                        | 2,470                   |
| JL-49-40-805 | Mar. 1954     | —  | 3.28                        | 2,411                   |
|              | Mar. 29, 1955 | 3,449  | 3.28                        | 2,411                   |
|              | Mar. 16, 1956 | 3,600  | 3.43                        | 2,521                   |
|              | Mar. 4, 1957  | —  | 3.00                        | 2,205                   |
|              | Mar. 12, 1964 | 3,400  | 3.01                        | 2,212                   |
|              | Mar. 8, 1965  | —  | 2.87                        | 2,109                   |
|              | May 2, 1966   | 3,390  | 3.23                        | 2,374                   |



Table 8.—Salinity of Water From Selected Irrigation Wells Producing From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-40-806 | Mar. 1954     | —  | 3.41                        | 2,506                   |
|              | Mar. 29, 1955 | 3,527  | 3.36                        | 2,470                   |
|              | Mar. 16, 1956 | 2,650  | 2.52                        | 1,852                   |
|              | Mar. 4, 1957  | —  | 3.14                        | 2,308                   |
|              | Mar. 12, 1964 | 3,600  | 3.18                        | 2,337                   |
|              | Mar. 8, 1965  | —  | 3.01                        | 2,212                   |
| JL-49-40-808 | Mar. 1954     | —  | 3.90                        | 2,867                   |
|              | July 5, 1955  | 4,267  | 4.06                        | 2,984                   |
|              | Aug. 1, 1956  | —  | 4.57                        | 3,359                   |
|              | Mar. 5, 1957  | —  | 3.63                        | 2,668                   |
|              | Mar. 16, 1964 | 4,200  | 3.71                        | 2,727                   |
|              | Mar. 19, 1965 | —  | 3.89                        | 2,859                   |
| JL-49-40-809 | Mar. 30, 1955 | 2,595  | 2.47                        | 1,815                   |
|              | Mar. 16, 1956 | 2,990  | 2.85                        | 2,095                   |
|              | Mar. 5, 1957  | —  | 2.52                        | 1,852                   |
|              | Mar. 19, 1965 | —  | 3.54                        | 2,602                   |
| JL-49-40-810 | Mar. 28, 1964 | 4,000  | 3.54                        | 2,602                   |
| JL-49-40-812 | Mar. 30, 1965 | —  | 3.27                        | 2,403                   |
| JL-49-40-813 | Mar. 22, 1955 | —  | 6.67                        | 4,902                   |
|              | Mar. 16, 1956 | 4,300  | 3.62                        | 2,661                   |
|              | Aug. 2, 1956  | —  | 3.71                        | 2,727                   |
|              | Mar. 14, 1957 | —  | 3.63                        | 2,668                   |
|              | Mar. 12, 1964 | 3,750  | 3.32                        | 2,440                   |
|              | May 3, 1966   | 3,730  | 3.55                        | 2,609                   |
|              | June 1, 1966  | 3,880  | 3.70                        | 2,720                   |
| JL-49-40-814 | Mar. 1954     | —  | 4.97                        | 3,653                   |
|              | Apr. 11, 1955 | —  | 4.95                        | 3,638                   |
|              | Mar. 12, 1964 | 4,300  | 3.80                        | 2,793                   |
|              | Mar. 4, 1965  | —  | 3.89                        | 2,859                   |
| JL-49-40-815 | Feb. 1954     | —  | 4.27                        | 3,138                   |
|              | Apr. 5, 1955  | —  | 4.76                        | 3,499                   |
|              | Mar. 12, 1964 | 2,600  | 2.30                        | 1,691                   |
|              | Mar. 4, 1965  | —  | 4.20                        | 3,087                   |
| JL-49-40-816 | Mar. 1954     | —  | 2.92                        | 2,146                   |
|              | Apr. 29, 1955 | —  | 3.19                        | 2,345                   |
|              | Mar. 21, 1956 | 3,810  | 3.63                        | 2,668                   |
|              | Mar. 14, 1957 | —  | 3.32                        | 2,440                   |
|              | Mar. 12, 1964 | 3,200  | 2.83                        | 2,080                   |
|              | Mar. 30, 1965 | —  | 2.83                        | 2,080                   |
|              | Apr. 15, 1966 | 3,180  | 3.03                        | 2,227                   |

Table 8.—Salinity of Water From Selected Irrigation Wells Producing  
From the Rio Grande Alluvium—Continued

| Well         | Date          | Specific<br>conductance<br>(micromhos<br>at 25° C) | Dissolved-solids<br>content |                         |
|--------------|---------------|--|-----------------------------|-------------------------|
|              |               |  | Tons per<br>acre-foot       | Milligrams<br>per liter |
| JL-49-40-817 | Mar. 1954     | —  | 2.94                        | 2,161                   |
|              | Apr. 18, 1955 | —  | 3.24                        | 2,381                   |
|              | Mar. 16, 1956 | 3,800  | 3.62                        | 2,661                   |
|              | Mar. 18, 1957 | —  | 3.36                        | 2,470                   |
| JL-49-40-901 | Mar. 1954     | —  | 3.94                        | 2,896                   |
|              | Apr. 6, 1955  | —  | 4.48                        | 3,293                   |
|              | Mar. 16, 1956 | 4,600  | 4.38                        | 3,219                   |
|              | Mar. 4, 1957  | —  | 3.98                        | 2,925                   |
|              | Mar. 8, 1965  | —  | 3.54                        | 2,602                   |
| JL-49-40-902 | Apr. 6, 1955  | —  | 3.43                        | 2,521                   |
|              | Mar. 16, 1956 | 4,200  | 4.00                        | 2,940                   |
|              | Mar. 4, 1957  | —  | 3.98                        | 2,925                   |
|              | Aug. 1964     | —  | 3.75                        | 2,756                   |
|              | Mar. 8, 1965  | —  | 3.54                        | 2,602                   |

# EXPLANATION

Well location, and last three digits of well number  
Well types are shown in Table 5

Approximate edge of the Rio Grande alluvium  
(Source Van Horn—El Paso geologic atlas sheet)

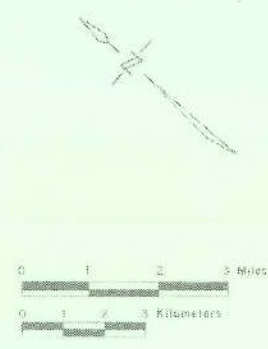
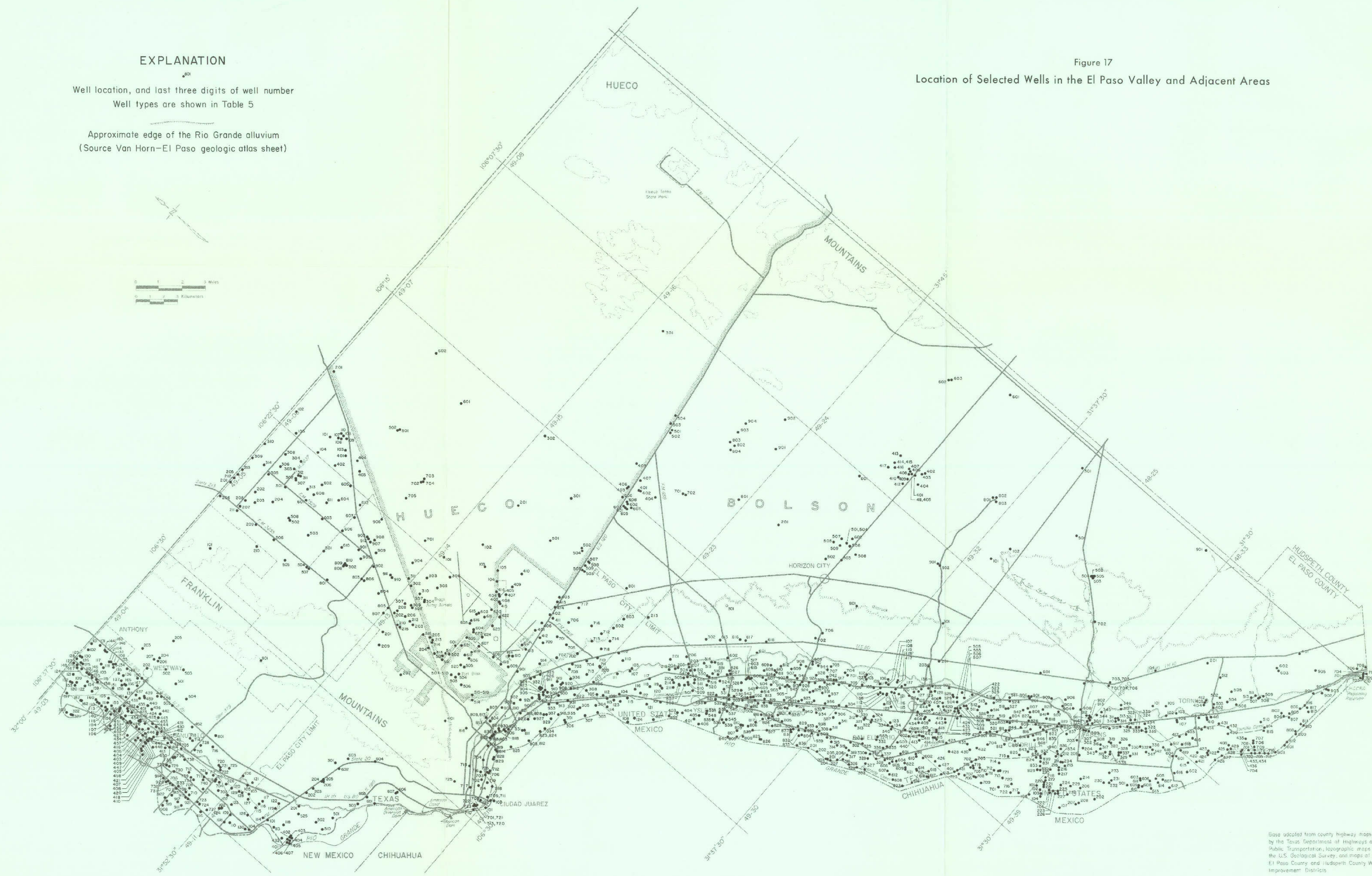


Figure 17  
Location of Selected Wells in the El Paso Valley and Adjacent Areas



Base updated from county highway maps by the Texas Department of Highways and Public Transportation, topographic maps by the U.S. Geological Survey, and maps of the El Paso County and Huidspeth County Water Improvement Districts.



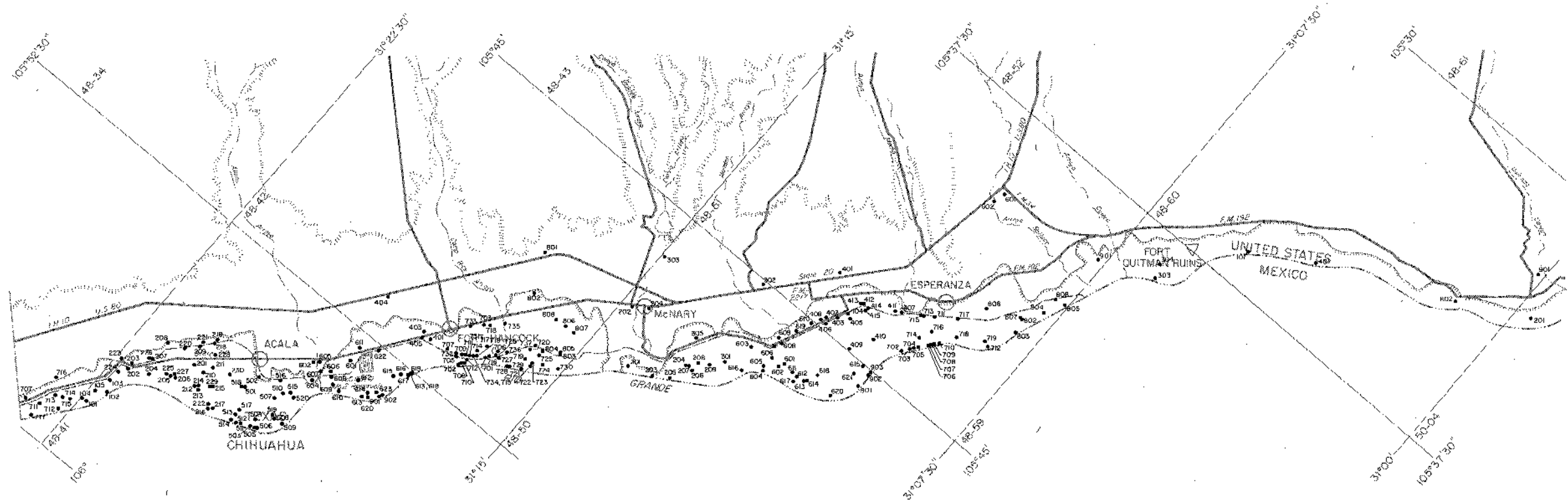


Figure 17 Continued





