

TEXAS
WATER
DEVELOPMENT
BOARD



Report 195

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*GROUND WATER RESOURCES OF
PART OF CENTRAL TEXAS WITH
EMPHASIS ON THE ANTLERS AND
TRAVIS PEAK FORMATIONS*

VOLUME 2

*RECORDS OF WELLS; DRILLERS' LOGS; WATER LEVELS IN WELLS;
CHEMICAL ANALYSES OF GROUND WATER; CHEMICAL ANALYSES
OF OIL-FIELD BRINES; AND WELL LOCATION MAPS*

January 1976

TEXAS WATER DEVELOPMENT BOARD

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GROUND WATER RESOURCES OF PART OF CENTRAL
TEXAS WITH EMPHASIS ON THE ANTLERS
AND TRAVIS PEAK FORMATIONS

Volume 2

Records of Wells; Drillers' Logs; Water Levels in Wells;
Chemical Analyses of Ground Water; Chemical
Analyses of Oil-Field Brines; and Well
Location Maps

By

William B. Klemt, Robert D. Perkins,
and Henry J. Alvarez

January 1976

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Published and distributed
by the
Texas Water Development Board
Post Office Box 13087
Austin, Texas 78711

PREFACE

This report is prepared in two volumes. Volume 1 contains interpretive information presented as text and related figures and tables. Volume 2 contains basic data on the occurrence and availability of ground water including well location maps, records of wells, drillers' logs, water levels in wells, and chemical analyses of water. These data are supportive to the interpretive information contained in Volume 1. A full explanation of the well-numbering system used herein may be found in the first volume.

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BELL COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kes, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ks, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane, or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
AX-40-46-901	W. I. Lee	Fulton T. Place	1963	1,600	5	1,600	Ktp	693	268.53	Dec. 6, 1966	Sub, E 5	S	Pump set at 420 ft.
* 51-801	Ed Huesa	Ralph Roberts	1943	910	--	--	Kgr, Khe	980	271 276	Jan. 9, 1943 Jan. 12, 1943	N	N	Pumping level 384 ft at 26 gpm on Jan. 9, 1943. Originally drilled as oil test. Abandoned and plugged. <u>1</u>
* 52-902	U. S. Army Corps of Engineers	--	1960	770	4	760	Khe	640	--	--	Sub, E	P	Screened from 760 to 770 ft. Pump set at 273 ft. Temp. 73°F.
* 903	do.	--	--	758	4	728	do.	640	140	Dec. 8, 1965	Sub, E	P	Completed from 728 to 758 ft.
* 53-102	do.	Ward and Ward Drilling Co.	1962	917	4 3	907 917	do.	665	180	Dec. 20, 1962	Sub, E 1 1/2	P	Slotted from 907 to 917 ft. Pumping level 342 ft at 10 gpm on Dec. 20, 1962. Pump set at 362 ft. Cemented from 907 ft to surface. Temp. 78°F. <u>1</u> <u>2</u>
* 201	Temco Feed Co.	R. A. Adams and Son	1964	1,107	--	1,089	Kho	665	--	--	T, E	Ind	Open hole completion from 1,089 to 1,107 ft. Hensell test, bailing level 255 ft at 30 gpm in 1964. Houston test, bailing level 210 ft at 30 gpm in 1964. Cemented from 1,089 ft to surface. Temp. 80°F. <u>1</u>
* 404	U. S. Army Corps of Engineers	--	--	815	4	815	Khe	620	--	--	Sub, E	P	Temp. 73°F.
* 504	do.	Ward and Ward Drilling Co.	1963	879	4 3	869 879	Khe	643	150	Jan. 10, 1963	Sub, E 1-1/2	P	Slotted from 869 to 879 ft. Pumping level 207 ft at 10 gpm on Jan. 10, 1963. Pump set at 230 ft. Cemented from 869 ft to surface. Temp. 78°F. <u>1</u> <u>2</u>
* 505	Moffat Water Supply Corp.	C. M. Stoner Drilling Co.	1966	1,192	7 4	1,095 1,192	Kho	710	243.55 248.56	Jan. 16, 1967 Apr. 12, 1967	Sub, E	P	Slotted from 1,075 to 1,192 ft. Pumping level 283 ft at 120 gpm on Jan. 18, 1967. Cemented from 1,075 ft to surface. Texas Water Development Board observation well. <u>2</u> <u>3</u> <u>4</u>
* 703	U. S. Army Corps of Engineers	J. L. Myers Sons	1961	1,001	4	1,001	do.	625	128	Mar. 1961	Sub, E	P	Perforated from 959 to 1,001 ft. Cemented from 959 ft to surface. Temp. 71°F. <u>1</u> <u>2</u> .
* 704	J. C. Nash	do.	1957	1,081	5 4	451 1,081	do.	685	213.5 229.50	Oct. 21, 1965 Mar. 3, 1969	Sub, E	P	Perforated from 1,025 to 1,076 ft. Well was originally drilled to 875 ft by another driller; J. L. Myers Sons drilled to 1,081 ft. Temp. 80°F. Texas Water Development Board observation well. <u>1</u> <u>4</u>
* 705	U. S. Army Corps of Engineers	do.	1961	1,001	4	1,001	do.	670	150	Mar. 1961	Sub, E	P	Perforated from 959 to 1,001 ft. Cemented from 959 ft to surface. <u>1</u> <u>2</u>
* 706	do.	James Matthew Adams	1962	855	--	--	Khe	673	--	--	Sub, E	P	Temp. 70°F. <u>1</u> <u>2</u>

See footnotes at end of table.

BELL COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* AX-40-53-901	Temple Municipal Airport	Wiegand Brothers Drilling Co.	1942	1,060	8 6	1,009 1,060	Kha	685	120	Oct. 8, 1942	T, E 7-1/2	P	Perforated from 1,014 to 1,032 ft. Perforated bull plug on bottom. Reported yield 250 gpm. Cemented from 1,010 ft to surface. <u>Y</u>
* 902	do.	J. L. Myers Sons	1952	1,355	8 5 4	402 1,270 1,355	Kho	685	158 216.93	Feb. 6, 1952 Apr. 12, 1967	T, E 25	P	Perforated from 1,210 to 1,270 ft. Temp. 80°F. Texas Water Development Board observation well. <u>Y Z G</u>
* 54-401	Pendleton Water Supply Corp.	West-Tex Tool Service	1965	1,657	8	1,657	Ktp	790	--	--	Sub, E 10	P	Cemented from 1,657 ft to surface. <u>Z</u>
* 501	City of Troy	A. N. Edwards	1925	1,735	10 5	1,735 260	do.	676	20 210.0	1934 June 5, 1967	T, E 15	P	Pumping level 225 ft at 170 gpm on Feb. 12, 1965. Pump set at 280 ft. Cemented. Texas Water Development Board observation well. <u>Y G</u>
* 502	Little Elm Water Supply Corp.	Watts Drilling Co.	1969	2,045	7 4	1,740 2,045	do.	750	273	Feb. 27, 1969	Sub, E 20	P	Slotted from 1,715 to 1,740 ft. Open hole from 1,740 to 1,880 ft. Slotted from 1,980 to 2,045 ft. Pumping level 285 ft. at 120 gpm on Feb. 27, 1969. Pump set at 462 ft. Reported yield 160 gpm. Cemented from 1,710 ft to surface. <u>Y Z</u>
* 701	Peppers Creek Water Supply Corp.	C. M. Stoner Drilling Co.	1968	1,669	7	1,650	Kho	725	256.47	July 26, 1968	Sub, E 20	P	Slotted from 1,600 to 1,650 ft. Pumping level 319 ft at 200 gpm on July 24, 1968. Pump set at 400 ft. Cemented from 1,600 ft to surface. <u>Y Z</u>
* 55-701	Oonaville and Belfalls Water Supply Corp.	J. L. Myers Sons	1961	2,652	10 7	53 2,652	do.	602	78 104.54	Apr. 5, 1961 Mar. 20, 1969	T, E 7-1/2	P	Slotted from 2,519 to 2,631 ft. Pump set at 200 ft. Reported yield 100 gpm. Cemented from 2,519 ft to surface. Texas Water Development Board observation well. <u>Y Z G</u>
* 59-102	City of Killeen	A. N. Edwards	1925	772	12 8	-- 772	Kgr, Ktp	833	123 110.15	1941 June 8, 1967	N	N	Perforated from 245 to 256, 345 to 360, 548 to 644, and 708 to 715 ft. Pumping level 500 ft at 35 gpm on Sept. 27, 1941. Casing collapsed. Abandoned. <u>Y Z Z</u>
* 301	Harvey Bacon, Jr.	Fowler Drilling Co.	1964	708	7	59	Egr, Kha	860	265 292.4	Aug. 7, 1964 Mar. 3, 1969	Sub, E 1-1/2	D	Open hole completion from 59 to 708 ft. Pump set at 457 ft. Temp. 71°F. Texas Water Development Board observation well. <u>Y G</u>
* 701	Wineford Cosper	J. B. Farquharson	1963	640	5	32	do.	865	360 220.3	July 1963 Mar. 3, 1969	Sub, E 1-1/2	D	Open hole completion from 32 to 640 ft. Pumping level 360 ft at 10 gpm in July 1963. Pump set at 280 ft. Temp. 73°F. Texas Water Development Board observation well. <u>Y G</u>
* 60-302	U.S. Army Corps of Engineers	J. L. Myers Sons	1961	956	4	956	Kho	630	125	Jan. 1961	--	P	Perforated from 912 to 956 ft. Cemented from 912 ft to surface. Temp. 71°F. <u>Y Z</u>
* 501	Dog Ridge Water Supply Corp.	do.	1966	979	10 7	18 1,145	Khe	810	309	Mar. 1966	Sub, E 20	P	Gun perforated with 14 shots 875 to 884 and 25 shots 888 to 906 ft. Pumping level 383 ft at 100 gpm on Mar. 16, 1966. Pump set at 500 ft. Cemented from 1,145 ft to surface. Well drilled to 1,152 ft and plugged back to 979 ft. <u>Y Z</u>
* 601	U.S. Army Corps of Engineers	Layne Texas Co.	1941	965	13 10	710 965	Ktp	630	84	Oct. 3, 1942	N	N	Perforated from 817 to 965 ft. Pumping level 260 ft at 213 gpm on Oct. 3, 1942. Plugged and abandoned. <u>Y</u>
* 701	T. E. Sanderford	J. L. Myers Sons	1952	825	10 6 5	9 450 825	Kho	600	145	Feb. 13, 1952	N	N	Perforated from 788 to 825 ft. Cemented from 825 ft to surface. Abandoned. <u>Y Z</u>

See footnotes at end of table.

BELL COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIPT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* AX-40-60-801	U.S. Army Corps of Engineers	Wiegand Brothers Drilling Co.	1941	948	13 10	672 948	Khe, Kho	562	+ 50 + 17 + 39 + 51	Oct. 1941 1942 do. Sept. 1946	N	N	Perforated from 665 to 774 and 836 to 924 ft. Pumping level 122 ft at 390 gpm on Oct. 20, 1942. Cemented from 670 ft to surface. Temp. 81°F. Abandoned. <u>1 3</u>
* 901	do.	do.	1941	999	13 10	721 999	do.	534	+ 15 + 35 + 50	Sept. 1941 do. Sept. 1946	N	N	Perforated from 721 to 793 and 882 to 976 ft. Pumping level 76 ft at 500 gpm on Oct. 9, 1942. Cemented from 721 ft to surface. Temp. 81°F. Abandoned. <u>1</u>
* 902	do.	do.	1941	965	13 10	716 965	do.	532	+ 15 + 35 + 50	Sept. 15, 1941 1941 Sept. 1946	N	N	Perforated from 716 to 786 and 847 to 934 ft. Pumping level 131 ft at 350 gpm on Oct. 28, 1942. Cemented from 718 ft to surface. Temp. 81°F. Abandoned. <u>1</u>
* 903	do.	do.	1941	932	13 10	682 932	do.	548	+ 60 + 25	Oct. 25, 1942 Sept. 1946	N	N	Perforated from 665 to 731 and 817 to 906 ft. Pumping level 110 ft at 420 gpm on Oct. 3, 1942. Cemented from 684 ft to surface. Temp. 81°F. Abandoned. <u>1</u>
* 904	do.	do.	1941	968	13 10	753 968	do.	574	+ 44 75.5 73.68 73.96	Sept. 15, 1941 Dec. 8, 1965 Jan. 20, 1966 Mar. 7, 1966	N	N	Perforated from 743 to 831 and 883 to 965 ft. Pumping level 147 ft at 440 gpm on Oct. 13, 1942. Cemented from 755 ft to surface. Temp. 81°F. Abandoned. <u>1 3</u>
* 905	do.	do.	1941	956	13 10	681 956	do.	579	+ 47 + 30	Sept. 15, 1941 Sept. 1946	N	N	Perforated from 673 to 743 and 825 to 936 ft. Pumping level 200 ft at 520 gpm on Oct. 3, 1942. Temp. 81°F. Plugged and abandoned. <u>1 3</u>
* 907	do.	Ward and Ward Drilling Co.	1966	1,110	7 4 3	78 1,087 1,110	Kho	702	221	Apr. 4, 1966	Sub, E 2	P	Slotted from 1,087 to 1,110 ft. Pumping level 227 ft at 13 gpm on Apr. 11, 1966. Pump set at 252 ft. <u>1 2</u>
908	Boy Scouts of America	J. L. Myers Sons	1957	970	9 7	5 970	Khe	590	--	--	T, E	P	Perforated from 883 to 954 ft. <u>1</u>
* 61-101	U.S. Army Corps of Engineers	Texas Water Wells	1949	1,351	8 6	-- 1,108	Kho	665	130	Oct. 1949	T, E	P	Completed from 1,078 to 1,108 ft. Pump set at 250 ft. Temp. 76°F. <u>2</u>
* 105	do.	J. L. Myers Sons	1961	1,080	4	1,080	do.	645	182.20 191.20	Oct. 21, 1965 Mar. 3, 1969	Sub, E	P	Perforated from 1,034 to 1,080 ft. Cemented from 1,034 to surface. Temp. 72°F. Texas Water Development Board observation well. <u>1 2 4</u>
* 106	do.	--	--	988	4	942	Ktp	645	--	--	Sub, E	P	Temp. 72°F.
107	Bob James and Lee Curtis	J. L. Myers Sons	1960	1,093	7 5	15.5 1,093	Kho	685	135	Aug. 12, 1960	Sub, E 3	P	Perforated from 1,046 to 1,093 ft. Pumping level 175 ft. Pump set at 357 ft. Cemented from 1,046 ft to surface. <u>1</u>
* 301	Dr. P. M. Basseel	J. L. Myers Sons	1952	1,487	6 4	500 1,487	Ktp	630	--	--	T, G	D, S	Temp. 80°F. <u>1</u>
* 401	City of Belton	do.	1948	1,190	16 10 8 6	29 390 1,021 1,190	Kho	519	--	--	T, E 40	P	Perforated from 1,021 to 1,169 ft. Reported yield 1,000 gpm. Cemented from 390 ft to surface. <u>1 2</u>
* 402	do.	D. C. Hammell	1915	1,190	12 8	800 1,190	Ktp	520	34 26 40	Nov. 4, 1942 Dec. 15, 1942 1960	A, E 75	P	Pumping level 90 ft at 350 gpm on Dec. 15, 1942. Reported yield 650 gpm in 1960. Former Texas Water Development Board observation well.
* 403	do.	--	--	1,172	12 8	800 1,172	do.	519	26 142	Apr. 11, 1942 Sept. 1964	N	N	Reported yield 320 gpm in 1942. Well was originally drilled in 1903 and later reworked to 1,172 ft. Abandoned. <u>1</u>

See footnotes at end of table.

BELL COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
AX-40-61-404	City of Belton	--	--	890	--	--	Khc	519	75.15 83.23	Dec. 8, 1965 May 4, 1967	N	N	Texas Water Development Board observation well. Abandoned. <u>Y 4</u>
405	do.	--	1900	1,180	6	--	Ktp	515	73.80 84.11	Oct. 14, 1965 Mar. 20, 1969	N	N	Texas Water Development Board observation well. Abandoned. <u>4</u>
* 501	do.	J. L. Myers Sons	1959	1,262	13 8	708 1,262	Kho	565	--	--	T, E 75	F	Slotted from 1,136 to 1,242 ft. Pump set at 406 ft. Reported yield 600 gpm. Cemented from 708 ft to surface. <u>Y 2</u>
502	Taylor Bedding Manufacturing Co.	Layne Texas Co.	1948	1,261	10 8	418.7 1,261	Ktp	525	--	--	T, E 15	Ind	Slotted from 972 to 1,012, 1,041 to 1,062, 1,162 to 1,183, and 1,201 to 1,241 ft. Pumping level 112 ft at 355 gpm on Oct. 8, 1948. Pump set at 390 ft. <u>Y 2</u>
* 503	Brzozos River Electric Co-op	J. L. Myers Sons	1948	1,365	16 10 8	29 497 1,140	Kho	495	--	--	T, E 75	Ind	Screened from 1,140 to 1,237 ft. Pump set at 200 ft. Reported yield 100 gpm. Cemented from 1,140 ft to surface. <u>Y 2</u>
* 504	do.	do.	1949	1,256	16 10 8	31 495 1,137	do.	495	--	--	T, E 75	Ind	Screened from 1,137 to 1,233 ft. Pump set at 200 ft. Cemented from 1,137 ft to surface. <u>Y 2</u>
507	City of Temple	Layne Texas Co.	1951	1,238	14 10	1,140 1,238	do.	504	31 56.34	Sept. 8, 1951 Oct. 13, 1965	T, E 200	F	Screened from 1,144 to 1,228 ft. Pumping level 230 ft at 508 gpm on Sept. 8, 1951. Pump set at 410 ft. Cemented from 1,140 ft to surface. <u>Y 2</u>
* 508	do.	J. L. Myers Sons	1951	1,281	18 13 10	32 1,196 1,281	do.	519	--	--	--	F	Screened from 1,196 to 1,281 ft. Cemented from 1,196 ft to surface. <u>Y 2</u>
* 509	do.	Layne Texas Co.	1951	1,261	14 10	1,155 1,261	Kho	518	31 65.78	Mar. 21, 1952 Mar. 20, 1969	T, E 200	F	Screened from 1,160 to 1,260 ft. Pumping level 362 ft at 798 gpm on Nov. 14, 1951. Cemented from 1,155 ft to surface. Texas Water Development Board observation well. <u>Y 2 4</u>
* 510	Belton Sand and Gravel Co.	J. L. Myers Sons	1952	1,388	12 8	400 1,388	do.	485	--	--	T, E 75	Ind	Completed from 1,288 to 1,388 ft. Pump set at 300 ft. Reported yield 1,000 gpm. Cemented. Temp. 80°F. <u>Y</u>
601	Dan Steakley	do.	1955	1,685	12 8 7	4 700 1,685	do.	600	100	Apr. 15, 1955	T, E 10	D	Perforated from 1,605 to 1,284 ft. Pumping level 210 ft at 250 gpm. Cemented from 1,685 ft to surface. <u>Y 2</u>
703	City of Belton	do.	1952	1,293	16 13 10	650 1,204 1,284	do.	605	120 167.72	July 28, 1952 Mar. 20, 1969	Sub, E 150	F	Screened from 1,204 to 1,284 ft. Pumping level 450 ft at 650 gpm in 1952. Pump set at 575 ft. Reported yield 900 gpm. Cemented from 1,204 ft to surface. Texas Water Development Board observation well. <u>2 4</u>
* 901	Taylor's Valley Water Supply Corp.	West-Tex Tool Service	1964	1,850	7	1,821	do.	610	128 138.17	Aug. 1964 Mar. 17, 1969	Sub, E 7-1/2	F	Slotted from 1,760 to 1,821 ft. Pumping level 175 ft at 75 gpm in Aug. 1964. Pump set at 359 ft. Cemented. Texas Water Development Board observation well. <u>Y 2 4</u>
* 62-101	City of Temple	J. L. Myers Sons	1951	2,136	18 13 8 6	10 995 1,846 2,136	do.	754	70 278.01	Oct. 23, 1951 Mar. 17, 1969	T, E	F	Screened from 1,911 to 2,136 ft. Reported yield 1,000 gpm. Cemented from 1,846 ft to surface. Texas Water Development Board observation well. <u>Y 2 4</u>
* 102	Ralph Wilson Plastics Co.	Texas Water Wells	1965	1,822	10 8 6	1,000 1,677 1,819	do.	690	190.57	Dec. 8, 1965	T, E 75	Ind	Screened from 1,698 to 1,717 and 1,722 to 1,808 ft. Pumping level 327 ft at 510 gpm in Nov. 1965. Reported yield 500 gpm. <u>2</u>

See footnotes at end of table.

BELL COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* AX-40-62-401	Veterans Administration Hospital	J. L. Myers Sons	1944	2,323	20 14	-- 2,323	Kho	675	73 72	May 30, 1944 June 24, 1944	T, E	P	Completed from 2,236 to 2,323 ft. Pumping level 105 ft at 500 gpm on May 30, 1944. <u>y</u> <u>z</u>
* 501	Arcus Water Supply Corp.	Triangle Pump and Supply Corp.	1966	2,236	8 6	1,000 2,236	do.	625	134.13	Sept. 27, 1966	Sub, E 7-1/2	P	Cen perforated with 15 shots 2,118 to 2,125, 85 shots 2,130 to 2,172, 22 shots 2,182 to 2,189, 34 shots 2,195 to 2,206 ft. Pumping level 182 ft at 100 gpm on Sept. 7, 1966. Pump set at 300 ft. Cemented from 2,236 ft to surface. <u>z</u>
* 801	Bell County WCID No. 1	J. L. Myers Sons	1960	2,366	12 8 6	63 2,203 2,366	do.	505	+ 23.97	June 1960 Mar. 20, 1969	T, K 3	P	Slotted from 2,213 to 2,361 ft. Reported flow 100 gpm in 1960. Cemented from 2,203 ft to surface. Temp. 95°F. Texas Water Development Board observation well. <u>y</u> <u>z</u> <u>z</u>
* 63-501	East Bell Water Supply Corp.	West-Tex Tool Service	1965	3,200	10 7 5	-- 800 3,170	do.	485	+ 13.5 + 11.24	Oct. 15, 1965 Mar. 18, 1969	Sub, K Flows	P	Completed from 3,099 to 3,119, 3,126 to 3,134, and 3,150 to 3,170 ft. Estimated yield 61 gpm. Texas Water Development Board observation well. <u>z</u> <u>z</u>
58-02-101	Albart Road	Harrison Well Service	1959	423	--	--	Ktp	750	18	1959	J, K	D, S	
301	-- Bissett	Layne Texas Co.	1941	628	--	--	do.	711	--	--	N	M	Plugged and abandoned. <u>y</u>
03-301	Alfred Fant	Warren Lawson Well Drilling	1960	620	8	20	Kgr, Kha	750	153.0	Dec. 9, 1965	C, E 1/2	S	Open hole completion from 20 to 620 ft. Pump set at 160 ft. Reported yield 5 gpm.
302	Bill Fant	do.	1965	596	8	60	do.	705	--	--	N	S	Open hole completion from 60 to 596 ft.
* 401	P. P. Maclock	--	--	450	--	--	do.	675	44.65 48.10	Mar. 14, 1966 Apr. 17, 1967	N	N	
* 901	Solans Ranch	Runt and Morgan	1951	857	4	705	Ktp	780	90 155.90	June 1951 Mar. 17, 1969	Sub, K 3	D, S	Open hole completion from 705 to 857 ft. Pump set at 200 ft. Temp. 75°F. Texas Water Development Board observation well. <u>z</u> <u>z</u>
* 04-103	Bill Fant	Warren Lawson Well Drilling	1960	767	7	272	Kgr, Khe	805	60	1960	Sub, E	D, S	Open hole completion from 272 to 767 ft. Reported yield 8 gpm. Water is filtered. Temp. 87°F.
601	-- Birdle	--	1955	2,300	--	--	Ktp	680	54 59.63	Mar. 31, 1961 Mar. 17, 1969	C, W	S	Texas Water Development Board observation well. <u>z</u>
* 602	Salado Water Supply Corp.	Hervey Meadows and Son Well Driller	1968	105	10	105	Koa	590	35	Feb. 20, 1968	--	P	Perforated. Reported yield 130 gpm. Cemented from 42 ft to surface. <u>y</u>
603	do.	do.	1968	160	7	160	do.	617	45	Mar. 13, 1968	--	P	Perforated. <u>y</u>
801	-- Killingsworth	--	1956	175	6	--	do.	760	134.93 136.84	Mar. 11, 1966 Mar. 17, 1969	C, W	S	Texas Water Development Board observation well. <u>z</u>
802	Texas Highway Department	Hervey Meadows and Son Well Driller	1967	180	10 6	105 180	do.	726	--	--	Sub, E	P	Screened from 105 to 180 ft. Pumping level 100 ft at 50 gpm in May 1967. <u>y</u>
803	do.	do.	1967	180	10 6	106 180	do.	738	--	--	Sub, E	P	Pumping level 135 ft at 50 gpm in May 1967. <u>y</u>
05-202	Armstrong Water Supply Corp.	Watts Drilling Co.	1968	1,740	7	1,740	Kho	545	52.30	Jan. 7, 1969	Sub, E 10	P	Slotted from 1,706 to 1,732 ft. Pumping level 127 ft at 225 gpm on Aug. 24, 1968. Pump set at 210 ft. Reported yield 210 gpm. <u>y</u> <u>z</u>
* 402	Ellie Holland	Trim and Son Contractors	1937	1,827	10 6	525 1,747	do.	683	54 61 62 91	June 1945 June 7, 1951 June 7, 1952 Dec. 10, 1954	C, E	D, S	Open hole completion from 1,747 to 1,827 ft. Well originally drilled as oil test. <u>y</u>

See footnotes at end of table.

BELL COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft.)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft.)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft.)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft.)	DATE OF MEASUREMENT			
* AX-58-05-403	Leon River Farms	Bervey Meadows and Son Well Driller	1965	1,630	4	1,630	Khc	675	114.25 123.80	Mar. 15, 1966 Mar. 17, 1969	Sub, E 2	S	Slotted from 1,590 to 1,630 ft. Pump set at 240 ft. Estimated yield 15 gpm. Cemented from 1,590 ft to surface. Temp. 84°V. Texas Water Development Board observation well. <u>1/4</u>
* 901	City of Holland	K. E. Edwards	1928	1,993	8 6	1,199 --	do.	530	Flowed	Aug. 8, 1943	T, E 7-1/2	P	Pumping level 151 ft at 83 gpm on Aug. 8, 1943. <u>1/4</u>
* 902	do.	Texas Water Wells	1955	2,420	10 7	700 2,420	Khc	538	33.24 44.20	Mar. 16, 1966 Mar. 17, 1969	T, E	P	Slotted from 2,190 to 2,208, 2,214 to 2,230, 2,240 to 2,270, 2,291 to 2,310, and 2,320 to 2,414 ft. Pump set at 300 ft. Estimated yield 135 gpm. Texas Water Development Board observation well. <u>2/4</u>
* 06-102	Bell County WCID No. 2	do.	1955	2,210	8 6	-- 2,020	do.	493	+ 52 2.16	1955 Mar. 17, 1969	T, E 15	P	Screened from 2,020 to 2,210 ft. Reported flowed 103 gpm in 1964. Reported yield 125 gpm in 1961. Texas Water Development Board observation well. <u>2/4</u>
* 07-301	T. D. Meacham	--	1957	3,584	16 8 7	400 2,846 3,584	do.	450	+ 90 + 77.3	Nov. 9, 1960 Apr. 17, 1967	Flows	Irr	Screened from 2,876 to 2,928, 2,962 to 2,987, 3,019 to 3,063, 3,093 to 3,134, 3,172 to 3,335, and 3,375 to 3,486 ft. Texas Water Development Board observation well. <u>2/4</u>
* 701	City of Rogers	Layne Texas Co.	1940	3,178	10 7 5	452 2,850 3,178	do.	493	+	Oct. 14, 1965	Flows	P	Perforated from 2,852 to 3,178 ft. Reported flowed 800 gpm in 1940 and 180 gpm in 1965. <u>1/4</u>

* For chemical analysis of water, see Table 5.
1/4 For drillers' log of well, see Table 3.
2/4 Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/4 For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4/4 For water-level measurements, see Table 4.

BELL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests.

Type Log: D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
AX-40-45-903	A. B. Johnson	Howard No. 1	1951	2,262	740	E
51-801	—	Ed Huess No. 1	1943	910	980	D
59-801	Gilchrist Drilling Co., et al.	Curb Fee No. 1	1949	2,022	825	E
901	Shell Oil Co.	Massie No. 1	1955	1,714	608	E
63-801	Pryor Dillard	Simek No. 1	1951	1,114	443	E
58-02-102	F. A. Dunham	Hunt No. 1	1954	3,960	765	S
07-401	Hobsc0, Inc.	N. P. Moeller No. 1	1941	2,004	485	E
14-401	M. A. Romero and T. M. Murchinson	Dallas Skinner No. 1	1958	1,210	535	E
802	do.	Robert Bunker No. 1	1958	1,225	520	E

BELL COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-51-801			Well AX-40-51-801—Continued		
			Owner: Ed Huess		
			Driller: Ralph Roberts		
Yellow clay	18	18	Lime and sand	14	792
Hard rock and yellow clay	10	28	Lime	18	810
Hard white lime	37	65	Blue shale	5	815
Slate	65	130	Red beds	6	821
Blue shale	45	175	Lime	10	831
Lime	6	181	Blue shale	11	842
Blue shale	29	210	Blue shale	28	870
Lime, shells and slate	40	250	Brown shale	10	880
Blue slate	40	290	Blue shale	10	890
Gray slate	30	320	Red beds	10	900
Gray slate	30	350	Sand and slate	10	910
Shale	5	355	Well AX-40-53-102		
Water sand, little water	5	360	Owner: U.S. Army Corps of Engineers		
Shale	10	370	Driller: Ward and Ward Drilling Co.		
Lime	15	385	Surface	4	4
Shale	15	400	White lime	28	32
Lime, shale	25	425	Blue lime	148	180
Sand, lime, shale	25	450	Blue shale	60	240
Sandy lime	50	500	Blue lime	442	682
Lime, shale	20	520	Soft lime	203	885
Sandy lime, shale	15	535	Sand, Trinity	32	917
Shale	55	590	Well AX-40-53-201		
Sandy shale	55	645	Owner: Temco Feed Co.		
Blue shale	15	660	Driller: R. A. Adams and Son		
Sandy shale	25	685	Soil and chunk rock	4	4
Brown sand	20	705	Chalk	8	12
Blue shale	25	730	Blue lime	39	51
Lime	38	768	Shale	4	55
Blue shale	6	774	White lime	35	90
Sand, water	3	777	Dark gray lime	85	175
Gravel	1	778	Shale	12	187
			Dark gray lime	14	201

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-53-201—Continued			Well AX-40-53-201—Continued		
Shale	5	206	Blue sandy shale	22	1,047
Lime and shale	18	224	Red, green and blue shale	9	1,056
Shale	4	228	Red shale	2	1,058
Shale and lime	6	234	Red beds	22	1,080
Dark gray lime	16	250	Red and green shale	7	1,087
Shale	5	255	Sand and water	20	1,107
Dark gray lime	45	300			
Lime and shale	19	319			
Shale	3	322			
Dark gray lime	38	360	White lime	5	5
White lime, little water - 1 gpm	42	402	Cave	1	6
Dark gray lime (little water - good drilling)	20	422	White lime	21	27
White lime	13	435	Blue lime	101	128
Dark gray lime	47	482	Blue shale with lime streaks	162	290
Glen Rose lime	157	639	Soft lime	572	862
Shale	3	642	Sand, Trinity	17	879
Glen Rose lime	84	726			
Dark gray lime	34	760			
Glen Rose lime	12	772			
Shale	5	777	Surface	1	1
White lime	6	783	Lime	59	60
Dark gray sticky lime	34	817	Shale	67	127
Blue shale	11	828	Lime	64	191
Lime	57	885	Lime and shale	277	468
Sandy lime	12	897	Lime	139	607
Blue shale	7	904	Lime and shale	43	650
Sand and water	51	955	Sandy lime	22	672
Blue sandy shale	26	981	Lime	98	770
Green sandy shale	7	988	Shale	8	778
Lime	7	995	Sand	33	811
Green shale	9	1,004	Lime and shale	146	957
Blue shale	18	1,022	Sand	44	1,001
Red shale	3	1,025			

Well AX-40-53-504

Owner: U.S. Army Corps of Engineers
Driller: Ward and Ward Drilling Co.

Well AX-40-53-703

Owner: U.S. Army Corps of Engineers
Driller: J. L. Myers Sons

Table 3.—Drillers' Logs of Selected Wells in Bell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-53-704			Well AX-40-53-706—Continued		
Owner: J. G. Nash Driller: J. L. Myers Sons			Shale, breaks		
No record	371	871	White lime	60	630
Lime and shale	147	1,018	Gray lime	75	705
Lime	3	1,021	Shaly lime	80	785
Sand	37	1,058	Sandy lime	19	804
Rock	4	1,062	Hard and soft sand	11	815
Sand	10	1,072		40	855
Rock	9	1,081	Well AX-40-53-901		
Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons			Owner: Temple Municipal Airport Driller: Wiegand Brothers Drilling Co.		
Well AX-40-53-705			Rotary space		
Lime	74	74	Hard lime	2	2
Lime and shale	394	468	Gray shale	8	10
Lime	228	696	White lime	40	50
Lime and shale	92	788	Broken lime	12	62
Sandy lime	35	823	Lime	33	95
Lime and shale	110	933	Shale	110	205
Sand and shale	24	957	Lime	7	212
Sand	38	995	White lime	8	220
Sandy shale	6	1,001	Sticky shale	30	250
Well AX-40-53-706			Lime		
Owner: U.S. Army Corps of Engineers Driller: James Mathew Adams			Gray shale		
Soil	1	1	Sandy lime	20	270
Lime	27	28	Lime	10	280
Lime, hard	22	50	Gray shale	15	295
Lime	51	101	Lime	35	330
Blue clay	12	113	Gray shale	15	345
Blue lime	23	136	Sandy lime	25	370
Blue lime and clay	54	190	Sandy lime, shale	50	420
Gray-white lime	40	230	Hard white lime	25	445
Blue gray lime	25	255	White lime	41	486
White lime	315	570	Sandy lime	24	510
			White lime	10	520
			Gray shale	15	535
			Broken lime	230	765
			White lime	25	790
			Broken lime	50	840
			White lime	25	865

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-55-701—Continued			Well AX-40-59-102—Continued		
Lime	578	1,638	White gray lime	10	548
Shale and lime	145	1,783	Water-bearing sand	20	568
Broken lime	93	1,876	Blue gumbo and some sand	76	644
Lime	87	1,963	Red bed	31	675
Broken lime	202	2,165	Lime and shale	13	688
Sand	55	2,220	Gray lime	10	698
Broken lime	18	2,238	Gray lime and mixture of red bed	10	708
Shale and lime	69	2,307	Coarse gravel, some sand, all colors	7	715
Broken lime	120	2,427	Mixture chocolate and red shales	15	730
Sandy lime	26	2,453	Chocolate and yellow shale	20	750
Broken sand	107	2,560	Hard blue lime with gray streaks	22	772
Sand and gravel	53	2,613			
Sand and shale	39	2,652			
Well AX-40-59-102			Well AX-40-59-301		
Owner: City of Killeen Driller: A. N. Edwards			Owner: Harvey Bacon, Jr. Driller: Fowler Drilling Co.		
Clay and gravel	14	14	Gray limestone	676	676
Shale and gumbo	14	28	Water sand	32	708
Black rock and shale	14	42			
Light gray lime	33	75	Well AX-40-59-701		
White lime	10	85	Owner: Wineford Cosper Driller: J. B. Farquharson		
Light gray lime and some crystal	15	100	Yellow clay	20	20
White lime	17	117	Sandy lime	12	32
Light gray lime	128	245	Austin Chalk	38	70
Lime and some sand, first water, 1 bailer	11	256	Austin Chalk with bentonite streaks	310	380
Light gray lime	89	345	Sand	7	387
Lime and water sand, second water	7	352	Austin Chalk with bentonite streaks	193	580
Mixture lime and sand	8	360	Sand	21	601
Hard gray lime	67	427	White lime	5	606
Blue and gray lime mixture	20	447	Sand	17	623
Gray lime	83	530	Austin Chalk with lime streaks	7	630
Hard white lime	8	538	Yellow shale	10	640

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-302			Well AX-40-60-601—Continued		
Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons			Hard lime	38	340
Open hole no record	433	433	Lime with shale streaks	60	400
Lime and shale	145	578	Lime with shale streaks	46	446
Lime	133	711	Lime with shale streaks	30	476
Sandy lime	9	720	Lime with shale streaks	29	505
Sand	18	738	Sandy shale and lime shells	25	530
Sandy lime	64	802	Lime with sticky shale	43	573
Lime	26	828	Sandy shale	76	649
Lime and shale	38	866	Sandy shale	2	651
Shale	23	889	Lime	27	678
Sand	12	901	Sandy shale with sand streaks	10	688
Sandy shale	12	913	Sand and shale	2	690
Sand	43	956	Sand and shale (core)	20	710
Well AX-40-60-501			Lime	4	714
Owner: Dog Ridge Water Supply Corp. Driller: J. L. Myers Sons			Sand (water)	33	747
Lime	206	206	Rock	3	750
Lime with streaks of shale	664	870	Streaks of sand shale and lime	12	762
Shale	10	880	Shale with lime shells	34	796
Sand with streaks of shale	272	1,152	Sandy shale with lime streaks	65	861
Well AX-40-60-601			Lime and shale	33	894
Owner: U.S. Army Corps of Engineers Driller: Layne Texas Co.			Lime and shale	12	906
Surface soil	19	19	Sand	14	920
Lime and shale with hard streaks	62	81	Sand and shale	10	930
Shale with lime streaks	19	100	Sand	7	937
Shale with lime shells and streaks of gravel	30	130	Hard	1	938
Lime with shale streaks	37	167	No record	10	948
Lime with shale streaks	36	203	Core	17	965
Lime and shale	30	233	Well AX-40-60-701		
Lime with shale streaks	69	302	Owner: T. E. Sanderford Driller: J. L. Myers Sons		
			Surface soil	3	3
			Rock	90	93

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-701—Continued			Well AX-40-60-801—Continued		
Lime	114	207	Sand and shale	21	932
Rock	312	519	Shale and lime (red clay)	8	940
Lime	29	548	Red clay	8	948
Sandy lime	38	586			
Sand	37	623	Well AX-40-60-901		
Sandy lime	8	631	Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.		
Shale and lime	75	706	Rotary space	5	5
Sandy lime	29	735	Surface soil and clay	17	22
White shale	35	770	Gravel	3	25
Red bed	17	787	Limestone	11	36
Sand	38	825	Gravel	2	38
Well AX-40-60-801			Sand	4	42
Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.			Hard limy shale and rock	48	90
Surface clay	22	22	Lime with shale streaks	25	115
Gravel	5	27	Sand and boulders	9	124
Lime rock and gravel	14	41	Gravel	3	127
Lime rock and clay	24	65	Lime, hard sand	89	216
Lime and blue shale	25	90	Lime, shale streaks	15	231
Lime rock and shale	135	225	Rock	3	234
Shaly lime	94	319	Lime, shale streaks	104	338
Shaly lime	226	545	Lime, shale streaks	138	476
Lime shale streaks	22	567	Lime and shale	27	503
Lime, sandy shale	97	664	Lime, shale streaks	77	580
Sand and sandstone	30	694	Lime, sand streaks	20	600
Limestone and shale	34	728	Lime and shale	115	715
Hard lime and sandstone	27	755	Shale with lignite	5	720
Lime and streaks of shale	76	831	Shale and sand (core)	4	724
Cored: shale sand and lime	19	850	Soft sand	32	756
Hard lime	2	852	Lime and shale	74	830
Lime, streaks of shale and sand	22	874	Shale with lime shells	30	860
Lime streaks and shale	6	880	Soft shale	10	870
Sand (cored)	31	911	Shale and lime	19	889
			Lime and shale	5	894

Table 3.—Drillers' Logs of Selected Wells in Bell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-901--Continued			Well AX-40-60-903		
Core: fully recovered	18	912	Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.		
Red bed	18	930	Soil	4	4
Sand	36	966	Clay and gravel	41	45
Sand (cored)	16	982	Sand and gravel	61	106
Red shale (cored)	17	999	Rock	3	109
Well AX-40-60-902			Limestone	5	114
Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.			Sand gravel	40	154
(Complete drillers' log not shown)			Limestone	33	187
Topsoil	15	15	Lime, sand, gravel streaks	44	231
River red sand	21	36	Lime	119	350
Lime and shale	13	49	Shaly lime	40	390
Hard lime, shale and boulders	24	73	Lime - broken gravel	61	451
Lime, rock and shale	59	132	Lime, rock	32	483
Hard shale, rock and lime	4	136	Lime, shale streaks	122	605
Lime and shale	80	216	Limestone	15	620
Shale, lime, rock	80	296	Lime and shale	63	683
Lime and shale	280	576	Hard sand and shale	43	726
Shale - rock and streaks of lime	28	604	Limestone	8	734
Shale, rock and lime	72	676	Sticky shale and lime shells	17	751
Shale, rock and lime, sandy shale	20	696	Cored	10	761
Cored: shale, sand rock, sandy shale and lime	8	704	Sticky shale	14	775
Sand	5	709	Lime, shale streaks	87	862
Sandy shale	6	715	Sand (cored)	25	887
Rock	3	718	Soft gray sand, loose	6	893
Cored: sand, thin layers of shale and lignite	19	737	Firm sand (red)	2	895
Sandy shale and sand	8	745	Sandy red clay	9	904
Hard lime and thin layers of sand	47	792	Very course sand	8	912
			Red clay (drilled)	7	919
			Red clay (core)	4	923
			Cored	9	932

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-904			Well AX-40-60-904—Continued		
Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.			Red bed	4	906
Rock and clay	28	28	Sand, shale breaks	38	944
Rocks and shale	12	40	Sand and shale	7	951
Hard black shale rock	12	52	Sand (good)	12	963
Hard black shale rock	133	185	Hard lime and shale	5	968
Rock and shale breaks	20	205	Well AX-40-60-905		
Shale and rock breaks	20	225	Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.		
Shale, rock, layers of lime	28	253	Hard, limy shale	52	52
Shale and lime rock	40	293	Limy shale with hard streaks	377	429
Shale and lime	84	377	Shale and hard shells	55	484
Blue shale, rock and lime	16	393	Lime	41	525
Shale and hard lime	20	413	Shale and shells	22	547
Hard lime, blue shale	13	426	Shale and lime	143	690
Hard shale and lime	7	433	Sand	23	713
Lime and shale	120	553	Shale with streaks of hard lime	10	723
Lime, shale breaks and sand	22	575	Sandstone	3	726
Shale, lime rock	15	590	Sandy shale	20	746
Sandy shale and lime	37	627	Sticky shale with hard streaks	24	770
Blue shale	20	647	Sandy shale	50	820
Rock and shale	35	682	Sand and shale	21	841
Lime rock	6	688	Sand	8	849
Lime rock and shale	20	708	Limy shale and sand	5	854
Sandy shale	12	720	Red clay	5	859
Sandy rock, shale	13	733	Sandy shale	22	881
Sand, cored 740 to 754	34	767	Sand (soft)	24	905
Shale	4	771	Sand (hard)	14	919
Cored 4 feet, sandy shale and sand	6	777	Sand (soft)	15	934
Hard shale	30	807	Sand (hard)	5	939
Sand, shale, lime	17	824	Red bed	16	955
Shale, sand streaks	7	831	Hard sandstone	1	956
Sandy shale, fine sand	48	879			
Cored, sand rock and shale, sandy shale	20	899			
Hard shale	3	902			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-907			Well AX-40-60-908—Continued		
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Lime	81	838
Surface soil	5	5	Lime	34	872
Porous rock	63	68	Lime	8	880
Rock	74	142	Sand	12	892
Shale	93	235	Rock	4	896
Rock	48	283	Sand	37	933
Shale and lime rock	20	303	Shale with streaks of sand	6	939
Rock	12	315	Sandy shale	4	943
Shale and lime rock	35	350	Sand	11	954
Rock soft	120	470	Lime	16	970
Rock hard	270	740	Well AX-40-61-105		
Glen Rose sand	25	765	Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons		
Shale	30	795	Open hole no record	523	523
Rock	86	881	Lime	305	828
Trinity Sand	41	922	Lime and shale	31	859
Shale	94	1,016	Sand	7	866
Sand	9	1,025	Sandy lime	7	873
Shale	45	1,070	Lime and shale	152	1,025
Sand	30	1,100	Sand	55	1,080
Shale	10	1,110	Well AX-40-61-107		
Well AX-40-60-908			Owner: Bob James and Lee Curtis Driller: J. L. Myers Sons		
Rock	125	125	Surface soil	1	1
Lime	118	243	Rock	5	16
Lime	48	291	Lime	100	116
Rock	101	392	Lime - shale	66	182
Lime	122	514	Sand	13	195
Lime	81	595	Broken lime - caliche	498	693
Lime	61	656	Lime	139	832
Lime	66	722	Lime - shale	12	844
Sand	8	730	Sand - shale	46	890
Lime	27	757	Lime - shale	126	1,016

Table 3.--Drillers' Logs of Selected Wells in Bell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-107--Continued			Well AX-40-61-401--Continued		
Shale	14	1,030	Broken shale and rock	50	391
Sand	59	1,089	Shale and lime	19	410
Lime	4	1,093	Hard lime	48	458
Well AX-40-61-301			Lime	36	494
Owner: Dr. P. M. Bassel			Hard lime	33	527
Driller: J. L. Myers Sons			Lime	18	545
Soil	5	5	Lime and shale	43	588
Broken limestone and shale	85	90	Broken lime and chalk rock	59	647
White rock	22	112	Lime and shale	54	701
Gerogetown Limestone	80	192	Broken lime and chalk	69	770
Goodwin Limestone	66	258	Lime	64	834
Hard limestone	94	352	Lime	22	866
Limestone	80	432	Sand	68	934
Broken limestone and shale	299	731	Broken shale and lime	11	945
Broken limestone and sand	161	892	Lime	19	964
Sandy limestone and limestone	418	1,310	Sandy lime	16	980
Sand	25	1,335	Shale	13	993
Sandy limestone	100	1,435	Lime and shale	22	1,015
Sand	25	1,460	Sand	150	1,165
Hard sandrock	24	1,484	Gravel and sand	4	1,169
Limestone	3	1,487	No record	8	1,177
Well AX-40-61-401			Sand	10	1,187
Owner: City of Belton			Shale	3	1,190
Driller: J. L. Myers Sons			Well AX-40-61-403		
Surface soil	3	3	Owner: City of Belton		
Gravel	4	7	Driller: Unknown		
Sand	8	15	Soil	22	22
Rock	11	16	Sand and lime	26	48
Sand and gravel	9	25	Lime chalk	44	92
Rock	45	70	Lime	23	115
Hard lime	74	144	Lime	20	135
Rock	156	300	Shale gray	45	180
Broken shale and lime	41	341	Shale dark	15	195

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-403—Continued			Well AX-40-61-404—Continued		
Lime	5	200	Sand rock with iron pyrites (hard)	10	450
Lime shale broken	60	260	Limestone (Glen Rose)	100	550
Gray shale and lime shells	35	295	White mud (Glen Rose)	25	575
Lime	35	330	White limestone (Glen Rose)	250	825
Gray shale and lime	85	415	White mud	25	850
Lime chalk	117	532	Sandstone	40	890
Lime chalk	66	598			
Lime shale broken	64	662	Well AX-40-61-501		
Lime	48	710	Owner: City of Belton Driller: J. L. Myers Sons		
Lime shale broken	55	765	Surface soil	32	32
Shale blue	13	778	Rock	265	297
Lime	69	847	Broken shale	346	643
Trinity Sand no. 1	23	870	Broken lime	146	789
Sandy shale	5	875	Lime	141	930
Trinity Sand	12	887	Sandy shale	210	1,140
Sand water	33	920	Sand	78	1,218
Shale dark	28	948	Lime and shale	44	1,262
Sandy lime	17	965			
Shale blue	2	967	Well AX-40-61-502		
Sand lime	8	975	Owner: Taylor Bedding Manufacturing Co. Driller: Layne Texas Co.		
Blue shale	109	1,084	Topsoil and clay	21	21
Red shale	2	1,086	Rock	15	36
Trinity Sand no. 2	44	1,130	Rock and layers of shale	54	90
Sand	36	1,166	Hard shale and lime	137	358
Sand and gravel	4	1,170	Shale and lime	123	481
Shale blue	2	1,172	Hard shale and lime	58	539
			Hard shale and lime	378	917
Well AX-40-61-404			Top Trinity Sand	72	989
Owner: City of Belton Driller: Unknown			Hard sand and shale and lime	36	1,025
Soft limestone	25	25	Sandy layers of shale and sandy lime	59	1,084
Blue marl or slate	300	325	Shale and lime	20	1,104
Blue limestone	50	375	Sandy shale and shell	23	1,127
White putty or mud	15	390			
White limestone (soft)	50	440			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-502—Continued			Well AX-40-61-504—Continued		
Hard sand and shale breaks	19	1,146	Rock	187	211
Blue and pink shale	10	1,156	Rock and shale	148	359
Coarse sand and fine gravel	56	1,212	Rock	25	384
Hard shale and lime	9	1,221	Broken shale and rock	57	441
Sand	3	1,224	Broken shale and lime	58	499
Hard rock and lime	2	1,226	Broken shale and rock	70	569
No record	35	1,261	Broken shale and lime	72	641
Well AX-40-61-503			Lime	65	706
Owner: Brazos River Electric Co-op. Driller: J. L. Myers Sons			Broken shale and lime	45	751
Surface soil	5	5	Lime with shale streaks	83	834
Clay	12	17	Broken	67	901
Sand and gravel	10	27	Lime	32	933
Rock	103	130	Sandy lime	15	948
Rock and shale	290	420	Sand	34	982
Lime and shale	94	514	Broken sand and lime	32	1,014
Broken shale	76	590	Sandy lime and shale	77	1,091
Rock	52	642	Lime	47	1,138
Lime rock	56	698	Sandy	18	1,156
No record	20	718	Sand	92	1,248
Lime and shale	231	949	Rock	8	1,256
Sand	10	959	Well AX-40-61-507		
Sand and shale	96	1,055	Owner: City of Temple Driller: Layne Texas Co.		
Lime	91	1,146	Soil, clay and lignite layers	31	31
Sandy lime and shale	42	1,188	Brown lime	70	101
Broken lime	10	1,198	Hard, gray lime	51	152
Broken sand	145	1,343	Gray lime and shale	33	185
Rock	12	1,355	Gray shale and lime	12	197
No record	10	1,365	Blue shale	18	215
Well AX-40-61-504			Blue shale and lime	12	227
Owner: Brazos River Electric Co-op. Driller: J. L. Myers Sons			Blue shale	21	248
Surface soil	12	12	Gray lime and blue shale layers	76	324
Gravel	12	24			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-507—Continued			Well AX-40-61-509—Continued		
Gray lime and shale	94	418	Hard, brown lime	105	152
Gray shale and lime	505	923	Hard, gray lime and rock	16	168
Brown and blue candy shale	60	983	Blue shale and lime	50	218
Gray lime and blue shale	52	1,035	Blue shale	30	248
Gray shale and lime	63	1,098	Gray lime and blue shale	71	319
Gray and blue shale and lime	22	1,120	Gray lime and shale	50	369
Gray and blue sandy shale	27	1,147	Blue shale	20	389
Sand with shale layers (good)	16	1,163	Hard, gray lime	44	433
Hard shale - lime and candy shale	10	1,173	Gray lime and blue shale	135	568
Hard, candy shale	16	1,189	Hard, gray lime and shale	54	622
Hard, coarse sand	27	1,216	Gray lime	43	655
Hard, coarse candy shale and gravel	13	1,229	Gray lime and shale	47	712
Red, blue and yellow shale	6	1,235	Hard, gray lime and shale	39	751
Shale (hard)	3	1,238	Gray lime	22	773
Well AX-40-61-508			Gray lime and shale	132	905
Owner: City of Temple Driller: J. L. Myers Sons			Gray lime	46	951
Clay	6	6	Sandy brown shale	47	998
Clay and gravel	16	22	Gray lime and blue shale	80	1,078
Lime	29	51	Hard, gray and blue shale and sandy shale layers	23	1,101
Lime and shale	69	120	Hard, sandy shale and shale and lime	35	1,136
Lime	511	631	Hard shale and sandy shale	24	1,160
Shale	341	972	Coarse sand and shale	31	1,191
Sand and shale	45	1,017	Coarse sand	21	1,212
Lime	147	1,164	Coarse sand and blue shale and gravel	17	1,229
Sand	81	1,245	Sand, shale, gravel, and lime	22	1,251
Hard, sandy lime	36	1,281	Hard lime and shale	10	1,261
Well AX-40-61-509			Well AX-40-61-510		
Owner: City of Temple Driller: Layne Texas Co.			Owner: Belton Sand and Gravel Co. Driller: J. L. Myers Sons		
Rock and gravel	16	16	Surface soil	4	4
Hard, blue shale and rock	31	47	Sand and gravel	12	16
			Shale	59	75

Table 3.--Drillers' Logs of Selected Wells in Bell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-510--Continued			Well AX-40-61-601--Continued		
Broken lime	91	166	Broken lime	142	1,380
Lime and shale	79	245	Sandy lime	55	1,435
Lime	266	511	Sandy shale and lime	115	1,550
Broken lime	133	644	Broken lime	15	1,565
Lime	208	852	Sand	110	1,675
Broken lime and shale	125	977	Rock	10	1,685
Broken lime	74	1,051			
Sandy shale	51	1,102	Well AX-40-61-901		
Lime	150	1,252	Owner: Taylors Valley Water Supply Corp. Driller: West-Tex Tool Service		
Broken lime	30	1,282	Shale	310	310
Sand	55	1,337	Shaly lime	210	520
Sand rock	11	1,348	Lime and shale	115	635
Sand	23	1,371	Shale and sand	145	780
Shale	6	1,377	Lime and shale	330	1,110
Sandy lime	11	1,388	Limy shale	375	1,485
			Sandy shale	115	1,600
			Sand	250	1,850
Well AX-40-61-601					
			Well AX-40-62-101		
			Owner: City of Temple Driller: J. L. Myers Sons		
No record	4	4	Surface soil	5	5
Lime	21	25	Clay and gravel	5	10
Rock	20	45	Rock	345	355
Shell rock	90	135	Rock and shale	197	552
Shale	216	351	Rock	1,000	1,552
Rock	99	450	Lime	343	1,895
Sand and shale	80	530	Broken sandy lime	71	1,966
Rock	22	552	Sand	31	1,997
Hard lime	23	575	Sandy lime	44	2,041
Lime and shale	175	750	Lime	95	2,136
Lime	460	1,210			
Shale	28	1,238			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

		THICKNESS (FEET)	DEPTH (FEET)			THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401				Well AX-40-62-401—Continued			
Owner: Veterans Administration Hospital Driller: J. L. Myers Sons (Complete log not shown; all descriptions are from cuttings unless indicated otherwise. Description of samples by Helen Jeanne Plummer.)				Pale bluish-gray chalk in small medium fragments. Strata becoming somewhat harder and more massive.			
				10	100		
Austin Formation							
Soft, white, weathered chalk in small particles; <i>Inoceramus</i> prisms, few ostracode, rare forams.				10	10	Very pale bluish-gray chalk in very fine fragments. Strata probably rather soft and thinly laminated. Microfossils frequent.	
				10	110		
Soft, white, and yellowish chalk in small fragments; <i>Inoceramus</i> prisms, few microfossils. Subsurface layers probably thinly stratified or laminated, since material broke up into thin small fragments.				10	20	Pale bluish-gray finely broken chalk. Few microfossils.	
				10	120		
Unweathered, pale bluish-gray chalk in fine fragments. Subsurface layers probably thinly laminated. Few ostracodes and forams.				10	30	Pale bluish-gray chalk in uniformly very small fragments.	
				10	140		
Pale bluish-gray, finely laminated chalk in small uniform fragments. <i>Inoceramus</i> prisms, few ostracodes, few forams.				10	40	Pale bluish-gray chalk in very small to fine fragments.	
				10	150		
Pale bluish-gray, finely laminated chalk that broke up into uniformly fine fragments in drilling. Forams numerous; few ostracodes, echinoid spines.				10	50	Very pale bluish-gray chalk in uniformly small fragments.	
				10	160		
Pale bluish-gray and little yellowish chalk in uniformly fine fragments indicating probable thinly laminated layers of chalk in subsurface. Numerous forams and few ostracodes.				10	60	Pale bluish-gray chalk in uniformly small fragments, some of which carry many minute grains of green glauconite and some mica.	
				10	170		
Pale bluish-gray, finely broken chalk that points to thinly laminated strata in subsurface. Few microfossils.				10	70	Bluish-gray chalk in uniformly small fragments, of which more than half are fairly rich in grains of green glauconite and a trace of mica.	
				10	180		
Very pale bluish-gray, thinly laminated chalk, which broke up into small uniform fragments in drilling with few larger angular fragments.				10	80	Pale gray and white chalk in small fragments, few scattered fragments of yellow quartz. More than half the fragments of chalk carry numerous grains of green glauconite.	
				10	190		
Laminated, pale bluish-gray chalk in small fragments, not so uniform in size as in much of above section. Subsurface layers slightly more massive.				10	90	Bluish-gray and white chalk in uniformly small fragments, of which some are rich in glauconite. Scattered grains of yellow quartz.	
				10	200		
				10	210	Pale bluish-gray chalk, much of it carrying considerable glauconite. Scattered grains of yellow chert or quartz.	
				10	220		
				10	230	Pale bluish-gray chalk in very fine fragments carrying sparsely scattered grains of green glauconite.	

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued			Well AX-40-62-401—Continued		
Bluish-gray and white chalk in uniformly small fragments somewhat larger than those of many of the samples above. Glauconite frequent in many fragments. Microfossils abundant in chalk but not many loose specimens of forams or other microfossils.	10	230	Pale gray to white chalk in uniformly small fragments, some of which carry considerable glauconite. Scattering of yellow chert and quartz.	10	320
Pale bluish-gray to almost white chalk in moderately small fragments. Glauconite grains frequent to common in many fragments. Microfossils abundant.	10	240	Gray to white chalk up to fragment size of nearly half an inch. Some fragments are slightly argillaceous.	10	330
Pale bluish-gray chalk in uniformly small fragments of size somewhat larger than those found in many of above samples.	10	250	White chalk in fragments of various sizes up to half an inch.	10	340
Pale bluish-gray chalk in uniformly rather small fragments. Some of which carry scattered grains of glauconite and abundance of microfossils. Scattering of yellow chert or quartz.	10	260	White chalk in large fragments.	10	350
Pale bluish-gray chalk in fragments of rather uniform size but considerably larger than those in most preceding samples. Considerable yellow chert. One specimen of Hamulus.	10	270	White chalk in large fragments.	10	360
Pale gray to white chalk in rather large fragments of uniform size. Scattering of yellow chert and quartz.	10	280	White and light-gray chalk in large fragments.	10	370
Pale bluish-gray to white chalk in small to moderately large fragments.	10	290	White chalk in fragments of diverse sizes.	10	380
Pale gray to white chalk in fragments from very small to moderately large. Some fragments carry scattered grains of glauconite; few are rich in finely divided pyrite.	10	300	White and light-gray chalk in diverse sizes of fragments.	10	390
Pale gray to very white chalk in fragments up to nearly half an inch. Very little glauconite in some fragments; finely divided pyrite frequent.	10	310	Light-gray and white chalk in diverse sizes of fragments up to more than half an inch. Few shell fragments.	10	400
			Light-gray and white chalk in all sizes of fragments up to half an inch. Scattering of pyrites. Trace of shells.	10	410
			Light-gray and white fragments of chalk up to more than half an inch.	10	420
			Light-gray and white chalk in diverse sizes of fragments.	10	430
			White and light-gray chalk in diverse sizes of fragments.	10	440
			Light-gray and white chalk in diverse sizes of fragments, up to nearly an inch.	10	450
			White and considerable gray chalk in diverse sizes of fragments. The gray tone of many of these fragments is obviously due to a trace of argillaceous matter, whereas the paler gray of much of the chalk in the overlying section was due to disseminated glauconite or to an abundance of calcitized fossils that absorbed the light.	10	460

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-62-401—Continued		Well AX-40-62-401—Continued			
THICKNESS (FEET)	DEPTH (FEET)	THICKNESS (FEET)	DEPTH (FEET)		
White chalk with considerable distinctly gray chalk, which under magnification shows argillaceous matter in minute streaks along the planes of lamination, or it may be diffused through the material.	10	470	Small fragments of dark-gray, very finely laminated, carbonaceous shale, considerable calcitic matter, numerous bundles of short <i>Inoceramus</i> prisms, trace of fish remains.	10	560
White and gray chalk in fragments of all sizes up to nearly an inch. The gray fragments are distinctly slightly argillaceous, and a few black carbonaceous particles can be observed. Pyrite is frequent.	10	480	Gray, very minutely laminated, microscopically mottled (salt-and-pepper) shale with abundance of disseminated carbonaceous matter. Few chips of greenish shale.	10	570
			Typical Eagle Ford gray shale with carbonaceous matter.	10	580
			Typical dark, finely laminated, salt-and-pepper shale with considerable carbonaceous matter. Abundance of amber-colored, short <i>Inoceramus</i> prisms in stout bundles; considerable calcitic matter in irregular fragments.	10	590
			Buda Formation absent		
			Del Rio Formation, top at about 600'		
Eagle Ford Formation, top at about 485'					
Mixture of white chalk, gray argillaceous chalk, some light greenish-gray calcareous hard shale. Scattering of pyrite.	10	490			
Some white chalk, considerable greenish-gray, hard, dense shale; all fragments small. Few fragments are typical of the Eagle Ford Formation in texture and color.	10	500			
Finely broken bluish-green, dense shale and considerable chalk, which has probably fallen from above. Considerable pyrite. Some of shale very finely laminated and carries a trace of carbonaceous matter.	10	510	Wet sample carried much finely divided argillaceous matter that was almost a slime, a characteristic of Del Rio shales. Washed sample looks much like above Eagle Ford but carries a trace of dull-gray thinly laminated splintery shale with a greasy sheen. In fine material no Del Rio forams found.		
Finely broken gray shale, considerable chalk, scattering of pyrite. Texture of shale fragments is characteristic of Eagle Ford but carbonaceous matter is very subordinate.	10	520	Wet sample rich in fine slimy matter. Washed sample carries numerous fragments of a dull lead-gray, splintery shale of very smooth texture. In fine material are thin lenticular pellets of shale with a greasy sheen. No Del Rio forams.	10	600
Finely broken, greenish-gray and gray shale, some particles rich in carbonaceous matter.	10	530			
Finely broken, gray shale fragments with considerable carbonaceous matter. Some pyrite.	10	540		10	610
Gray shale in very small fragments; scattering of chalk probably from above.	10	550	Dull-gray, fine-textured, splintery shale abundant. In fine material the thin lenticular pellets common. One characteristic Del Rio foram; <i>Gyroidina nitida</i> .	10	620

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued			Well AX-40-62-401—Continued		
Some lead-gray, smooth splintery shale. Minute thin lenticular pellets common in fine material. <i>Gyroidina nitida</i> .	10	630	Sample composed very largely of angular fragments of white spherulitic limestone.	10	730
Much lead-gray to almost black splintery shale. Numerous minute lenticular shale pellets in fine material. Three species of Del Rio forams: <i>Gyroidina nitida</i> , <i>Valvulineria asterigerinoides</i> , <i>Textularia rioensis</i> .	10	640	Abundance of angular fragments of white spherulitic limestone.	10	740
			Abundance of white spherulitic limestone.	10	750
			Great abundance of angular fragments of white spherulitic limestone.	10	760
Considerable bluish-gray to lead-gray splintery smooth shale; numerous minute thin lenticular pellets in fine material. <i>Gaudryinella delrioensis</i> , <i>Valvulineria asterigerinoides</i> , <i>Textularia rioensis</i> , <i>Gyroidina nitida</i> .	10	650	Sample almost wholly angular fragments of white spherulitic limestone.	10	770
			White spherulitic limestone.	10	780
			White spherulitic limestone.	10	790
			Edwards Formation, top at about 800'		
Considerable lead-gray splintery shale. Numerous minute, thin pellets in fine material. <i>Globigerina washitensis</i> , <i>Textularia rioensis</i> , <i>Valvulineria asterigerinoides</i> , <i>Gyroidina nitida</i> , <i>Textularia rioensis</i> .	10	660	Bare trace of pale-buff, dense, crystalline limestone bearing few miliolids.	10	800
			Sample composed largely of buff limestone. Some fragments are dense and crystalline and carry miliolids; others are sugary and somewhat porous.	10	810
Considerable lead-gray splintery shale; numerous minute lenticular pellets in fine material. <i>Textularia rioensis</i> , <i>Globigerina washitensis</i> , <i>Gyroidina nitida</i> , <i>Valvulineria asterigerinoides</i> .	10	670	Buff limestone, some fragments dense, but most are sugary in texture and commonly porous.	10	820
Great abundance of dull lead-gray, splintery shale and in fine material many minute thin lenticular pellets of greasy-looking shale. <i>Gyroidina nitida</i> , <i>Valvulineria asterigerinoides</i> , <i>Textularia rioensis</i> .	10	680	Buff limestone from dense to porous and sugary.	10	830
			Comanche Peak Formation		
Georgetown Formation, top at about 685'			Amongst the many fragments of typical Edwards limestone are numerous fragments composed of what appear to be oolites separated by a translucent matrix. The oolites for the most part are loose and chalky and fall out of place leaving a pitted fragment. Close examination shows that many of the oolites are really miliolids, so disintegrated that their structure is difficult to detect. Perhaps all the oolites are really miliolids.		
Frequent fragments of white, spherulitic limestone.	10	690			
Abundance of white, spherulitic limestone.	10	700			
Sample largely typical spherulitic white limestone.	10	710			
Sample composed almost wholly of typical white spherulitic limestone.	10	720		10	840

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued			Well AX-40-62-401—Continued		
Much "oolitic" yellow limestone as above described. One small test of a <i>Dictyoconus</i> . Several small rotund sponges.	10	850	Sample largely splintery gray shale of very smooth texture; little dense white limestone.	10	1,000
			No description.	10	1,010
Richly "oolitic" yellow limestone.	10	860	Sample almost wholly thinly laminated, dull-gray shale of fine smooth texture.	10	1,020
Buff "oolitic" yellow limestone.	10	870	Sample largely splintery dull-gray, fine-grained shale and an appreciable amount of light-gray to buff and white limestone fragments many of which appear to have fallen from above.	10	1,030
Highly "oolitic" yellow limestone.	10	880	Splintery dull-gray shale with numerous small fragments of limestone, some of which may represent breaks in the shale section. Numerous very small heavy shell fragments indicate a shell bed has been penetrated.	10	1,040
"Oolitic" buff limestone. Sponges, miliolids, <i>Globo truncana</i> , <i>Globigerina washitaensis</i> .	10	890	Great abundance of dull-brownish and translucent angular fragments of shells, probably <i>Gryphaea</i> , mixed with some shale and small amount of limestone.	10	1,050
"Oolitic" buff limestone.	10	900	Great abundance of finely broken shells (<i>Gryphaea</i>) some shale, very little limestone.	10	1,060
Granular, sugary, gray-buff to white limestone with deteriorated fossil fragments as white splotches on rock surfaces.	10	910			
Grayish-buff, sugary, crystalline limestone. One fine test of <i>Dictyoconus walnutensis</i> .	10	920			
Walnut Formation			Glen Rose Formation		
Mixed with the buff to white sugary limestone is a small amount of splintery, slightly greenish-gray shale.	10	930	Some broken shells; large amount of dense, white limestone carrying fragments of heavy shells.	10	1,070
Considerable splintery shale, slightly greenish-gray, very smooth texture, some dense white limestone different from any above and probably constituting a limestone break in the shale section at this point.	10	940	Much dense, hard, white limestone in small fragments, the surfaces of which are well marked by limestone and splotches representing imbedded fossils. Few loose shells; very little splintery shale.	10	1,080
Considerable greenish, splintery shale mixed with dense, white limestone.	10	950	Great abundance of dense white limestone mostly finely broken; few larger fragments. Limestone marked by numerous fossil inclusions and some mineral matter. Some dull-gray splintery shale.	10	1,090
Splintery shale and white limestone.	10	960			
Dense white limestone and splintery greenish-gray shale.	10	970			
Dense white limestone and some splintery greenish-gray to dark-gray shale.	10	980			
Mostly dense white limestone with appreciable amount of greenish-gray shale.	10	990			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-62-401—Continued		Well AX-40-62-401—Continued			
THICKNESS (FEET)	DEPTH (FEET)	THICKNESS (FEET)	DEPTH (FEET)		
Sample about 2/3 dense, white limestone and 1/3 gray, splintery shale, much of which seems to have washed down from above, since the fine portion carries frequent Del Rio forams, and some of the shale surfaces reveal imbedded tests of <i>Gumbelina</i> , which do not belong so low in the section as Glen Rose, so far as present records indicate.	10	1,100	Much dense, hard, white, mottled limestone and considerable bluish-gray shale.	10	1,190
Much dense, white limestone in finely ground condition. Considerable gray splintery shale, much of it from above.	10	1,110	Much dense, white, hard, crystalline, mottled limestone, some fragments being a microscopic coquina in which miliolids are frequent. Some gray shale; some bluish-green shale.	10	1,200
Much finely broken, dense, hard, white limestone rich in fossil fragments. Considerable shale that looks suspiciously as if much had fallen from above.	10	1,120	Much hard, dense, white, crystalline, mottled limestone; some fragments a microscopic coquina. Some bluish-green shale.	10	1,210
Much finely broken, hard, white limestone rich in imbedded fossil matter. Considerable gray splintery shale much of which looks like contamination.	10	1,130	Dense, hard, crystalline, mottled, white limestone carrying numerous miliolids. A few fragments are slightly sugary. Blue-green shale common.	10	1,220
Much dense, white limestone and considerable dull gray splintery shale. Many limestone fragments comprise a fine coquina. Some of the shale present probably belongs to this section, as the greenish color is now.	10	1,140	Dense, hard, crystalline, mottled white limestone and considerable blue-green shale.	10	1,230
Dense white limestone and considerable splintery shale.	10	1,150	Dense, hard, crystalline, mottled limestone, some fragments rich in miliolids and other fossil fragments. Bluish-green shale common.	10	1,240
Very finely broken, dense, white, crystalline limestone with abundance of dark inclusions giving the surfaces a mottled appearance. Many finely broken shell fragments are imbedded in the limestone. Dull-gray splintery shale abundant.	10	1,160	Mostly dense, hard, crystalline, mottled and coquina-like white limestone with miliolids and other fossil material. Little splintery gray and blue-green shale.	10	1,250
Much dense, white, hard limestone rich in dark inclusions giving a mottled appearance to the fragments. Considerable splintery shale.	10	1,170	Dense, hard, crystalline, mottled limestone and abundance of splintery gray and greenish shale.	10	1,260
Much dense, crystalline, mottled, white limestone and shell fragments. Much dull-gray, splintery shale and bluish-green splintery shale.	10	1,180	Dense, hard, crystalline, mottled, white limestone; some rich in miliolids. Few fragments of white sugary limestone. Considerable gray and greenish shale.	10	1,270
			Dense, hard, crystalline, mottled, white limestone, many fragments with miliolids. Considerable gray and greenish splintery shale.	10	1,280

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-62-401—Continued			Well AX-40-62-401—Continued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Dense, hard, mottled crystalline, white limestone with many rotund miliolids. Considerable gray and greenish, splintery shale.	10	1,290	About equal proportions of white crystalline mottled limestone and splintery greenish-gray shale.	10	1,410
Hard, white, mottled limestone that is largely a microscopic coquina. Considerable gray and greenish shale.	10	1,300	About equal proportions of hard, mottled, crystalline or coquina-like white limestone and greenish-gray and gray shale.	10	1,420
Hard, crystalline, white limestone and much highly mottled white and dark-gray limestone, as the dark inclusions increase in proportion. Many dark stains and irregularly distributed streaks and patches carry a resinous sheen. Greenish shale abundant.	10	1,310	White limestone broken down in drilling almost to a sand grade in the sample, which comprises largely the component microfossils of the original probably lightly cemented mass of material in the coquina-like limestone. "Sand" comprises to a large extent separate miliolid tests. Very little shale.	10	1,430
Hard, crystalline limestone, some fragments a white coquina, others rich in dark-gray mottled areas and inclusions in a dense matrix. Greenish shale common.	10	1,320	Sample is a limestone "sand" as the result of drilling the coquina-like limestone composed of microfossils and small fragments as well as small granules of calcareous matter. Many of the grains are miliolids.	10	1,440
Mostly white limestone, much of it mottled by imbedded fossils and gray inclusions. Streaks of pyrite and some loose crystals of pyrite. Bluish-green shale.	10	1,330	"Lime sand" composed of minute fossils and fossil fragments as well as granules of white limestone. Many of the grains are miliolids.	10	1,450
Mottled, crystalline, hard, white limestone. Much bluish-green shale.	10	1,340	Sample is almost a perfectly uniform "lime sand" in grade, composed of small granules of limestone, miliolids, and other fossil fragments. In acid the material dissolves almost entirely leaving a faint trace of dark argillaceous matter, probably the dark inclusions of the mottled limestone, so common throughout this limestone formation.	10	1,460
Hard, mottled, crystalline, dense, white limestone rich in miliolids. Much gray and slightly greenish shale.	10	1,350	Sample is almost a perfectly uniform "lime sand" in grade, composed of small granules of limestone, miliolids, and other fossil fragments. In acid the material dissolves almost entirely leaving a faint trace of dark argillaceous matter, probably the dark inclusions of the mottled limestone, so common throughout this limestone formation.	10	1,460
White limestone and much greenish-gray splintery shale. Miliolids abundant.	10	1,360	Sample is almost a perfectly uniform "lime sand" in grade, composed of small granules of limestone, miliolids, and other fossil fragments. In acid the material dissolves almost entirely leaving a faint trace of dark argillaceous matter, probably the dark inclusions of the mottled limestone, so common throughout this limestone formation.	10	1,460
White, hard, mottled limestone and greenish splintery shale.	10	1,370	Finely broken, angular limestone fragments and very little shale. Limestone is hard, crystalline, mottled, and some fragments are sugary and somewhat porous.	10	1,470
Great abundance of white coquina-like mottled limestone and dense crystalline mottled limestone with miliolids. Some splintery greenish shale.	10	1,380	Finely broken, hard, crystalline, mottled, white limestone and some sugary white limestone; very little shale. Miliolids abundant; also other forams (as yet unnamed) are frequent.	10	1,480
Hard, crystalline, dense and coquina-like mottled limestone and much greenish shale.	10	1,390			
About equal proportions of white hard limestone and greenish-gray splintery shale.	10	1,400			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-62-401—Continued		Well AX-40-62-401—Continued			
THICKNESS (FEET)	DEPTH (FEET)	THICKNESS (FEET)	DEPTH (FEET)		
Sample composed largely of fine "lime sand" with few angular chips of hard, white limestone. "Sand" consists of grains of broken limestone or components of the granular limestone as well as miliolids and other forams.	10	1,490	Hard, dense, mottled, white limestone; large proportion of blue to greenish splintery shale.	10	1,600
Finely broken limestone in angular chips and much of the "sand" encountered above. Very little shale.	10	1,500	Hard, dense, crystalline, mottled, white limestone and much bluish-green to gray shale.	10	1,610
Hard, dense, crystalline, mottled, white limestone and considerable bluish-green shale.	10	1,510	Hard, dense, crystalline, mottled, white limestone and some sugary white limestone; considerable splintery greenish-gray shale.	10	1,620
Hard, dense, crystalline, mottled, white limestone and little sugary limestone. Considerable blue-green shale.	10	1,520	Hard, dense, crystalline, white limestone full of fossil remains; some sugary porous white limestone. Some splintery bluish to greenish shale.	10	1,630
Dense, hard, crystalline, mottled, white limestone and coquina-like limestone. Much blue-green shale. Few scattered fragments of sugary limestone.	10	1,530	Hard, dense, crystalline, mottled, white limestone; some sugary porous limestone. Some greenish shale.	10	1,640
Finely broken, hard, white, crystalline, mottled limestone and coquina-like limestone. Considerable blue-green shale.	10	1,540	Hard, dense, crystalline, mottled, white limestone; some sugary white limestone likely to be porous in places. Some bluish and greenish shale. Miliolids.	10	1,650
Hard, crystalline, dense, white limestone and coquina-like limestone with many miliolids. Considerable blue-green shale.	10	1,550	Dense, hard, crystalline, mottled, white limestone and some sugary white porous limestone. Considerable splintery gray shale.	10	1,660
Hard, white, mottled, crystalline limestone and coquina-like white limestone. Considerable blue-green splintery shale. Few shell fragments.	10	1,560	Hard, dense, crystalline, mottled limestone and some sugary limestone. Considerable dark-gray shale and little bluish-greenish shale.	10	1,670
Hard, white, mottled, coquina-like limestone with miliolids; much blue and greenish shale.	10	1,570	Sample is white and mottled limestone ground to sand grade with few scattered angular chips. Much of limestone is sugary but most is dense and granular. Miliolids common. Some splintery shale.	10	1,680
Hard, crystalline, mottled, dense, white limestone with miliolids; considerable bluish-green shale.	10	1,580	Finely broken white and mottled limestone with some fair-sized chips. Both hard, dense, white limestone and sugary limestone. Some bluish-green, splintery shale.	10	1,690
Hard, crystalline, mottled, white limestone; much blue-green shale. Miliolids common.	10	1,590			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

Well AX-40-62-401—Continued			Well AX-40-62-401—Continued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Dense, hard, mottled, white limestone; few sugary fragments.	10	1,700	Porous, sugary, light-brown limestone; some dense, mottled, white limestone, which may have washed down from above, thick section. Few loose quartz grains. Very little shale.	10	1,830
Hard, dense, mottled, white limestone; some sugary, porous limestone. Very little shale.	10	1,710	Abundance of light-brown, porous, sugary limestone, considerable dense, mottled, white limestone in the finer grade of sample. Little bluish shale. Very few quartz grains.	10	1,840
Hard, dense, crystalline, mottled, white limestone; some sugary porous limestone. Very little shale.	10	1,720	Finely ground, dense, mottled, white limestone and light-brown sugary limestone. Almost no shale.	10	1,850
Finely ground, white limestone with some small chips of large size. Almost no shale.	10	1,730	Great abundance of light-brown, porous, sugary limestone; little dense, white, mottled limestone. Very small amount of shale.	10	1,860
Very finely ground, white limestone, or "lime sand." Almost no shale.	10	1,740	Much light-brown, porous, sugary limestone and some dense, mottled, white limestone. Very little shale.	10	1,870
Hard, dense, mottled, white limestone and some sugary limestone. Very little shale.	10	1,750	Considerable dense, white, mottled limestone and almost an equal amount of light-brown sugary, porous limestone. Considerable shale.	10	1,880
Hard, dense, crystalline, mottled, white limestone; considerable porous sugary limestone. Little splintery shale.	10	1,760	Finely broken and ground limestone, both the dense white and the brown sugary types. Numerous large splinters of shale.	10	1,890
Both dense and porous, white limestone. Some splintery shale.	10	1,770	Finely ground limestone, both the dense, mottled white type so abundant in above section and the light-brown sugary type frequent in the lower portion of the above section. Considerable splintery bluish-green shale.	10	1,900
Porous, sugary limestone more abundant than in previous samples. Little shale.	10	1,780	Finely ground limestone, both the hard, dense, white and the porous, sugary, light-brown. Some splintery shale.	10	1,910
Sugary, porous, somewhat brownish limestone abundant together with mottled, dense, white limestone. Few quartz grains. Very little shale.	10	1,790			
Light-brown sugary limestone, very porous and composed of minute calcite crystals. Most of it highly cavernous. Few angular quartz grains.	10	1,800			
No record	10	1,810			
Abundance of sugary, porous, light-brown limestone with generous portion of dense white mottled limestone in finer portion of sample, possibly washed down from above. Very little shale.	10	1,820			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued			Well AX-40-62-401—Continued		
Numerous thin plates of laminated, very fine grained, light-gray sandstone accompanied by the usual ground limestone fragments. Considerable pyrite and shale.	10	1,920	Much ground limestone and considerable greenish shale; little fine-grained sandstone.	10	2,020
Core: (1,922-1,926 ft.)			Much limestone and shale; little fine-grained sandstone.	10	2,030
Micaceous, friable, laminated, gray silt with argillaceous matter in thin streaks and pockets in zones. (25 in.) Hard, calcareous silt with considerable mica and little shale. (4 in.) Finely laminated gray shale with partings and thin streaks of micaceous silt; calcareous zone in portions of this length. (18 in.) Almost wholly blue-green, splintery shale. Trace of fine-grained sandstone.	10	1,930	Ground limestone and shale with little fine-grained, gray sandstone.	10	2,040
Largely greenish, splintery shale with some very fine-grained, light-gray sandstone.	10	1,940	Much loose quartz sand; considerable splintery shale.	10	2,050
Largely greenish, splintery shale with some fine-grained, light-gray sandstone.	10	1,950	Loose sand in abundance; considerable splintery, gray and greenish shale.	10	2,060
Largely greenish, splintery shale and some fine-grained, light-gray sandstone.	10	1,960	Much loose quartz sand; considerable splintery green shale.	10	2,070
Mostly greenish, splintery shale, some fine-grained sandstone, some hard, white mottled limestone.	10	1,970	Fine, light-gray quartz sand, some thinly laminated shale.	10	2,080
Dominantly greenish, splintery shale, little fine-grained, gray sandstone, considerable finely-ground white limestone possibly washed down from above.	10	1,980	Core: (2,080-2,090 ft.)		
Much greenish, splintery shale, little fine-grained sandstone, considerable finely-ground limestone.	10	1,990	Dense, bluish-green shale with few silty and micaceous partings and irregularly distributed calcareous zones and areas. (7 in.) White, friable, fine sand. (3 in.) Very dense, blue-green shale with few silty partings in places, irregularly distributed calcareous areas. (21 in.) Friable, fine, white sand not particularly well bedded. (18 in.) Fine to coarse quartz sand and fine gravel. Trace of shells; very little shale. Large fragments of angular quartz fragments of small gravel sizes are to a large extent probably ground-up pebbles.	10	2,090
Largely splintery, greenish shale; trace of fine-grained sandstone, little finely-ground limestone.	10	2,000	Mixture of fine to coarse sand and small gravel, which is angular and probably ground-up pebbles. Considerable thinly laminated, gray shale.	10	2,100
Greenish, splintery shale; fine-grained, gray sandstone; little ground limestone (perhaps washed down from above.)	10	2,010	Fine to coarse sand, little small gravel or possibly ground-up pebbles. Much thinly laminated gray shale.	10	2,110
			Fine gray sand, coarse sand, fine gravel; considerable thinly laminated gray shale. Much of the so-called small gravel is probably ground-up pebbles of a conglomeratic layer.	10	2,120

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401—Continued			Well AX-40-62-401—Continued		
Largely fine gray sand, some coarse sand and fine gravel, which may be ground-up pebbles in conglomeratic layers.	10	2,130	Fine to coarse quartz material, much of it representing pebbles in a layer somewhere in the penetrated section.	10	2,235
Some fine and much coarse sand, little small gravel, which is probably largely ground-up pebbles. Little thinly laminated dark-gray shale.	10	2,140	Fine to coarse sand.	10	2,245
Almost wholly very coarse sand or very small gravel. Trace of shale.	10	2,150	Coarse sand and some shale.	10	2,250
Largely coarse sand with some very fine gravel. Considerable laminated dark-gray shale.	10	2,160	Coarse yellow to pink quartz grains of considerable size, much of it ground-up boulders. Fine to coarse sand.	5	2,250
Core: (2,161-2,166.5 ft.)			Core: (2,250-2,256 ft.)		
Core completely lost, except for a small handful of rounded pebbles from size of a pea to size of small egg. Pebbles consist of hard greenish siltstone, chert, quartz. Fine to coarse sand about half the sample; rest, laminated dark-gray shale.	5	2,165	Sample in pint jar consists of partially cemented fine gravel and sand.	10	2,260
Fine to coarse sand, few small fragments dark-gray, laminated shale.	3	2,168	Coarse quartz fragments and little laminated shale.	10	2,260
Fine sand to coarse sand, considerable fine gravel that is probably to a large extent ground-up pebbles.	10	2,178	Fine to coarse sand.	10	2,260
Fine to coarse sand and fine gravel, which is quite obviously the result of grinding up pebbles.	10	2,188	Coarse quartz fragments, some of them ground-up pebbles in a conglomeratic layer.	10	2,270
Fine to coarse sand and small gravel, of which much is apparently ground-up pebbles.	10	2,198	Fine to coarse sand.	10	2,270
Very coarse quartz fragments that must be ground-up pebbles in a conglomeratic layer. Considerable fine to coarse sand.	10	2,208	No record.	5	2,275
Very coarse quartz fragments that are undoubtedly ground-up pebbles. Fine to coarse sand.	7	2,215	Core: (2,275-2,281 ft.)		
Very coarse quartz fragments that are probably ground-up pebbles. Fine to coarse sand.	10	2,225	"Core from bottom of core head, sand and conglomerate."		
			A jar of soft material and packages of hard material. The soft sample in the jar consists of clayey gravel that ranges from small and rather large quartz pebbles. In packages are three portions, one boulder of gray siltstone loosely bound by a calc cement; another a rather fine conglomerate in a matrix of well-cemented sand; the third a large irregular boulder of a pale-gray, "chalky," slightly micaceous, soft, and fine silt, which is represented also in the hard core taken at 2,288.6-2,291 ft.	6	2,281
			No record.	7	2,288
			Core: (2,288-2,288.6 ft.)		
			A box of several portions of the core and a jar of some soft, loose material submitted for study. The several portions packaged consist of squeezed dark gray shaly silt and pockets of white coarse sand carrying few pebbles. One		

Table 3.--Drillers' Logs of Selected Wells in Bell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401--Continued			Well AX-40-62-801--Continued		
portion carries a large white boulder of thinly laminated, shaly, white material that looks like highly altered chert. Material in jar consists of few hard quartz boulders and some dark, laminated, gray silty shale.	.6	2,288.6	Sandy lime	25	2,005
			Shale - lime	65	2,070
			Shale - sand streaks	140	2,210
			Sand (Hosston Sand)	65	2,275
			Sand and shale (Hosston Sand)	60	2,335
			Sand (Hosston Sand)	20	2,355
			Sandy - shale - gravel	11	2,366
Core: (2,288.6-2,291 ft.)					
Representative portions of the core packed in jar and in two small packages. Two portions consist of a coarse conglomerate composed of a heterogeneity of material in all sizes of boulders from fine and coarse sand in the matrix upward to gravel from size of a pea to almost egg dimensions. Boulders are largely quartz, jasper, and flint with a few gray siltstones and several deeply imbedded, irregular boulders of a soft, chalky, pale-gray clay. The portion in the jar is a soft gray, somewhat silty clay.	2.4	2,291	Well AX-58-02-301		
			Owner:--Bissett Driller: Layne Texas Co.		
			Air	4	4
			Soil	7	11
			Clay and sandy clay	8	19
			River bed and sand	14	33
			White rock and lime	13	46
			Blue shale	7	53
			Lime rock - hard	3	56
			Hard lime and shale	14	70
			Rock	20	90
			Lime rock and hard shale	32	122
			Rock and hard gray shale	154	276
			Rock and breaks of shale	18	294
			Hard white lime	25	319
			Hard sandy lime and shale	19	338
			Hard sandy lime and shale	20	358
			Blue shale	44	402
			Sandy shale	7	409
			Sandy lime and shale	53	462
			Hard lime and shale breaks	10	472
			Hard shale pink	25	497
			Hard blue and brown and pink shale and streaks of lime	46	543
			Hard rock	14	557
			Hard blue and brown shale	36	593
Well AX-40-62-801					
Owner: Bell County WCID No. 1 Driller: J. L. Myers Sons					
Yellow clay	35	35			
Chalk rock	400	435			
Chalk	110	545			
Shale	305	850			
Lime	145	995			
Shale and lime streaks	35	1,030			
Lime	170	1,200			
Shale	35	1,235			
Lime	5	1,240			
Shale - lime	58	1,298			
Lime	422	1,720			
Lime - shale	150	1,870			
Lime	75	1,945			
Sand	35	1,980			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-58-02-301—Continued			Well AX-58-04-803		
Hard limerock	7	600	Owner: Texas Highway Department Driller: Hervey Meadows and Son Well Driller		
Hard black shale and layers of lime	28	628	Black dirt	6	6
Well AX-58-04-602			Clay	17	23
Owner: Salado Water Supply Corp. Driller: Hervey Meadows and Son Well Driller			Hard blue rock	66	89
Black soil	2	2	Hard gray lime	30	119
Red soil	6	8	Hard sand	21	140
White rock	10	18	Hard limestone glass	35	175
Blue rock	24	42	Brown lime	5	180
Brown water sand	54	96	Well AX-58-05-202		
Blue rock	9	105	Owner: Armstrong Water Supply Corp. Driller: Watts Drilling Co.		
Well AX-58-04-603			Topsoil	1	1
Owner: Salado Water Supply Corp. Driller: Hervey Meadows and Son Well Driller			White soapstone	35	36
Soil	.5	.5	Blue slate	6	42
White chalk	3	3.5	Chalk lime	107	149
White rock	13.5	17	Blue shale	201	350
Blue rock	17	34	White lime	34	384
Hard broken lime	51	85	Lime and shale	134	518
Blue rock	25	110	Lime (hard)	68	586
Brown water sand	50	160	Shale and lime streaks	186	772
Well AX-58-04-802			Lime (hard)	16	788
Owner: Texas Highway Department Driller: Hervey Meadows and Son Well Driller			Lime and shale	230	1,018
Black dirt	6	6	Glen Rose lime and sand	176	1,194
Clay	10	16	Shale and lime	124	1,318
Blue rock	24	40	Sand, shale, and small lime streaks	162	1,480
White and gray lime	49	89	Lime (hard)	28	1,508
Hard white and brown lime	45	134	Shale and lime	48	1,556
Limestone glass and sand	41	175	Shale and lime	48	1,604
Brown lime	5	180	Lime, shale, and sand streaks	28	1,632
			Shale	74	1,706
			Sand and gravel	32	1,738
			Lime (hard)	2	1,740

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-58-05-402			Well AX-58-05-402—Continued		
Owner: Ellis Holland			Hard lime and granite		
Driller: Trim and Son Contractors			41 731		
Surface	1	1	Chalky lime	7	738
Chalk	7	8	Hard white lime	12	750
Chalk and lime	12	20	Gray lime - hard	30	780
Chalk and shale, seep water 30 ft.	15	35	Soft gray lime	2	782
Gray shale and lime (pyrites)	40	75	Gray shale (trace oil)	2	784
Hard lime	3	78	Hard lime	9	793
Chalk, lime, and marl	203	281	Gray shale	3	796
Black shale (pyrites)	14	295	Hard lime	8	804
Hard lime	5	300	Gray shale	7	811
Black shale (pyrites)	10	310	Hard lime	16	827
Lime	11	321	Gray shale	8	835
Black shale (pyrites)	76	397	Soft lime	14	849
Lime shell (Buda)	5	402	Gray shale	8	857
Black shale (pyrites)	18	420	Hard lime	6	863
Lime shale (Buda)	3	423	Black shale	6	869
Black shale (480 ft. trace oil)	80	503	Broken lime and gray shale	106	975
Pyrite shell	1	504	White and gray hard lime - few black lime stratas Fresh water stratas 1,075 ft.	455	1,430
Black shale (pyrites)	21	525	Blue gray shale	7	1,437
Lime (Georgetown)	27	552	Hard gray lime - fresh water 1,495 ft.	83	1,520
Gray marl	2	554	Gray shale	2	1,522
Lime	10	564	Gray sand - fresh water	68	1,590
Gray marl shale (570 ft. trace oil)	16	580	Gray shale	4	1,594
Lime	12	592	Gray lime	9	1,603
Gray shale	13	605	Gray shale and lime	97	1,700
Hard lime (Edwards)	12	617	Gray sand	5	1,705
Soft lime (trace oil)	8	625	Gray sandy shale	42	1,747
Hard lime	13	638	Gray sand - fresh water	18	1,765
Lime gravel (good water)	12	650	Hard lime	10	1,775
Flint	1	651	Sandy shale	18	1,793
Yellow lime (bottom Edwards)	31	682	Hard gray lime	12	1,805
Sandy lime	8	690	Soft gray sand - fresh water	15	1,820

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-58-05-402—Continued			Well AX-58-05-901—Continued		
Hard gray sand	5	1,825	Gumbo with clay	90	990
Hard lime shell	2	1,827	Water sand, sulphur water (Edwards lime)	54	1,044
Well AX-58-05-403			Lime (2 ft. sand) little water shown	22	1,066
Owner: Leon River Farms			Gumbo white clay	49	1,115
Driller: Hervey Meadows and Son Well Driller			Water sand	5	1,120
Soil	1	1	Gray lime	20	1,140
White rock	21	22	Lime shows little water	90	1,230
Blue rock	52	74	Blue shale	18	1,248
White rock	142	216	White lime	102	1,350
Black shale	274	490	Lime streaks white clay (water)	150	1,500
White lime	220	710	Lime	250	1,750
Blue shale	95	805	Lime	45	1,795
White rock	35	840	Gumbo	5	1,800
Black shale	150	990	Water sand	5	1,805
Glen Rose lime	590	1,580	Lime streaks white clay	107	1,912
Trinity Sand	50	1,630	Trinity water sand	53	1,965
Well AX-58-05-901			Gumbo	5	1,970
Owner: City of Holland			Black gumbo	23	1,993
Driller: K. E. Edwards			Well AX-58-07-701		
Soil	8	8	Owner: City of Rogers		
Yellow clay (surface water)	17	25	Driller: Layne Texas Co.		
Yellow clay blue shale rock	6	31	Surface soil	4	4
Gray gumbo	44	75	Yellow clay	12	16
Gumbo	75	150	Black shale	82	98
Lime	50	200	Gray shale	238	336
Blue limestone	50	250	Black shale	203	539
Lime	110	360	Gray shale	49	588
Lime streaks, blue clay	170	530	Chalk	283	871
Gumbo	95	625	Chalk and shale	10	881
Black shale	82	707	Shale	16	897
Gray limestone	13	720	Chalk and shale	35	932
Blue shale, lime shells	86	806	Chalk	182	1,114
Gray limestone (Georgetown)	30	836			
Gumbo with clay	64	900			

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-58-07-701—Continued			Well AX-58-07-701—Continued		
Chalk and shale	57	1,171	Lime and shale	73	2,568
Black shale	62	1,233	Soft lime	21	2,589
Lime and shale	10	1,243	Lime	160	2,749
Shale	22	1,265	Shale and lime	16	2,765
Lime	82	1,347	Porous lime	11	2,776
Lime and shale	30	1,377	Lime and shale	62	2,838
Lime	120	1,497	Lime	5	2,843
Lime and shale	27	1,524	Sand and shale	15	2,858
Lime	215	1,739	Sand	8	2,866
Shale	3	1,742	Shale and sandy shale	30	2,896
Lime and shale	24	1,766	Lime and shale	14	2,910
Lime	123	1,889	Sand with few layers of shale	100	3,010
Lime and shale	250	2,139	Hard shale	11	3,021
Shale and lime	18	2,157	Sand and gravel	86	3,107
Lime	222	2,379	Shale	6	3,113
Lime and shale	56	2,435	Sand	59	3,172
Shale and lime	32	2,467	Hard shale	6	3,178
Lime	28	2,495			

BELL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well AX-40-53-505		Well AX-40-54-501—Continued		Well AX-40-54-501—Continued	
Owner: Moffat Water Supply Corp.		June 20, 1966	207.6	Feb. 27, 1967	207.6
Jan. 16, 1967	243.55	June 27, 1966	205.4	Mar. 13, 1967	205.6
Apr. 12, 1967	245.56	July 5, 1966	204.4	Mar. 27, 1967	207.6
Well AX-40-53-704		July 12, 1966	204.7	Apr. 3, 1967	208.0
Owner: J. G. Nash		July 20, 1966	204.3	Apr. 10, 1967	208.3
Oct. 21, 1965	213.5	July 27, 1966	205.9	Apr. 17, 1967	208.1
Mar. 10, 1966	211.22	Aug. 5, 1966	206.4	Apr. 24, 1967	208.2
Apr. 12, 1967	221.65	Aug. 11, 1966	206.4	May 1, 1967	208.8
Mar. 21, 1968	225.0	Aug. 22, 1966	206.2	May 8, 1967	208.6
Mar. 3, 1969	229.50	Aug. 31, 1966	205.5	May 15, 1967	209.3
Well AX-40-53-902		Sept. 12, 1966	206.0	May 22, 1967	209.4
Owner: Temple Municipal Airport		Sept. 26, 1966	206.2	May 29, 1967	209.7
Feb. 6, 1952	158	Oct. 19, 1966	206.2	June 5, 1967	210.0
Mar. 14, 1966	206.05	Oct. 24, 1966	206.3	Well AX-40-55-701	
Apr. 12, 1967	216.93	Oct. 31, 1966	206.0	Owner: Oenaville and Belfalls Water Supply Corp.	
Well AX-40-54-501		Nov. 7, 1966	206.5	Apr. 5, 1961	78
Owner: City of Troy		Nov. 14, 1966	206.7	Apr. 27, 1965	89.63
1934	20	Nov. 21, 1966	206.4	Oct. 15, 1965	89.07
Feb. 12, 1965	191.32	Nov. 28, 1966	207.4	Mar. 11, 1966	90.88
Dec. 9, 1965	200.96	Dec. 6, 1966	211.6	Aug. 29, 1966	94.08
Mar. 21, 1966	201.43	Dec. 19, 1966	206.8	Sept. 29, 1966	94.30
May 9, 1966	202.5	Dec. 27, 1966	206.4	Oct. 31, 1966	94.22
May 16, 1966	202.6	Jan. 3, 1967	206.2	Nov. 23, 1966	93.95
May 23, 1966	202.6	Jan. 16, 1967	207.3	Dec. 28, 1966	95.12
May 30, 1966	203.0	Jan. 23, 1967	206.6	Mar. 23, 1966	95.9
June 6, 1966	203.0	Jan. 30, 1967	207.0	May 4, 1967	98.90
June 13, 1966	206.8	Feb. 6, 1967	206.7	June 7, 1967	96.47
		Feb. 13, 1967	207.2	Sept. 18, 1967	98.74
		Feb. 20, 1967	207.3		

Table 4.—Water Levels in Selected Wells in Bell County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well AX-40-62-101		Well AX-40-62-101- Continued		Well AX-58-04-601	
Owner: City of Temple		Mar. 13, 1968	283.85	Owner: — Pirdle	
Oct. 23, 1951	70	Mar. 17, 1969	278.01	Mar. 31, 1961	54
Oct. 13, 1965	265.19	Well AX-40-62-801		Mar. 14, 1966	57.07
Dec. 8, 1965	263.54	Owner: Bell County		Aug. 30, 1966	59.80
Mar. 10, 1966	267.50	WCID No. 1		Sept. 28, 1966	59.1
May 9, 1966	269.72	June 1960	Flowed	Nov. 3, 1966	60.9
May 16, 1966	271.13	Oct. 15, 1965	11.21	Nov. 23, 1966	60.72
May 23, 1966	270.60	Feb. 21, 1966	11.20	Dec. 28, 1966	60.96
May 30, 1966	269.88	Aug. 29, 1966	15.32	Apr. 17, 1967	62.03
June 6, 1966	270.53	Sept. 27, 1966	15.28	May 5, 1967	61.70
June 10, 1966	271.52	Oct. 31, 1966	15.22	June 9, 1967	62.30
June 18, 1966	271.93	Nov. 23, 1966	15.43	June 29, 1967	65.45
June 24, 1966	276.37	Dec. 29, 1966	16.15	Aug. 14, 1967	62.81
July 1, 1966	271.99	Mar. 23, 1967	17.00	Oct. 4, 1967	62.79
July 8, 1966	271.33	May 5, 1967	17.03	Nov. 9, 1967	62.68
July 15, 1966	272.94	June 8, 1967	17.13	Dec. 8, 1967	61.60
July 22, 1966	274.97	June 30, 1967	18.27	Jan. 12, 1968	62.12
Aug. 1, 1966	277.28	Mar. 20, 1969	23.97	Feb. 8, 1968	58.83
Aug. 29, 1966	275.53	Well AX-40-63-501		Mar. 17, 1969	59.63
Sept. 27, 1966	273.62	Owner: East Bell		Well AX-58-04-801	
Oct. 31, 1966	272.1	Water Supply Corp.		Owner: — Killingsworth	
Nov. 23, 1966	274.43	Oct. 15, 1965	+ 13.5	Mar. 11, 1966	134.93
Dec. 28, 1966	272.48	Mar. 11, 1966	+ 13.5	Apr. 17, 1967	139.50
Mar. 27, 1967	272.82	Apr. 17, 1967	+ 12.3	Mar. 17, 1969	136.84
May 4, 1967	276.00	Mar. 22, 1968	+ 8.93	Well AX-58-05-403	
June 7, 1967	276.15	Mar. 18, 1969	+ 11.24	Owner: Leon River Farms	
June 29, 1967	278.96	Well AX-58-03-901		Mar. 15, 1966	114.25
Aug. 14, 1967	285.02	Owner: Solana Ranch		Apr. 17, 1967	118.03
Sept. 18, 1967	282.55	June 1951	90	Mar. 22, 1968	122.55
Oct. 3, 1967	282.78	Oct. 4, 1967	156.2	Mar. 17, 1969	123.80
Nov. 9, 1967	285.81	Mar. 17, 1969	155.90		
Dec. 8, 1967	282.52				
Jan. 12, 1968	282.95				
Feb. 8, 1968	284.03				

Table 4.—Water Levels in Selected Wells in Bell County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well AX-58-05-902		Well AX-58-05-902—Continued		Well AX-58-06-102—Continued	
Owner: City of Holland		Sept. 15, 1967	42.59	Oct. 15, 1965	Flowed
Mar. 16, 1966	33.24	Oct. 4, 1967	42.66	Feb. 21, 1966	+ 6.5
Aug. 30, 1966	36.68	Nov. 9, 1967	42.93	May 12, 1967	0
Sept. 28, 1966	36.48	Dec. 8, 1967	42.78	Mar. 22, 1968	3.48
Nov. 3, 1966	37.52	Jan. 12, 1968	42.94	Mar. 17, 1969	2.16
Nov. 23, 1966	37.12	Feb. 16, 1968	43.12		
Dec. 30, 1966	36.97	Mar. 13, 1968	44.60	Well AX-58-07-301	
Mar. 23, 1967	37.35	Mar. 17, 1969	44.20	Owner: T. D. Meacham	
May 5, 1967	38.23			Nov. 9, 1960	+ 90
June 9, 1967	38.36	Well AX-58-06-102		Mar. 11, 1966	+ 80.8
June 30, 1967	39.17	Owner: Bell County		Apr. 17, 1967	+ 77.3
		WCID No. 2			
		1955	+ 52		
		1961	+ 38		

BELL COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Daluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hansell Member of the Travis Peak Formation; Kps, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnotes.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
AX-40-51-801	910	Jan. 29, 1943	Kgr, Khe	--	--	39	27	* 1,206	--	507	951	1,010	--	0.5	--	3,480	--	208	93	--	--	36.4
52-302	770	Oct. 22, 1965	Khe	11	--	14	9	461	--	414	380	227	2.9	2.5	--	1,310	--	73	93	2,080	8.0	23.6
302	770	May 11, 1966	do.	--	D.32	13	9	460	--	418	380	231	2.2	< .4	--	1,510	1,301	69	94	2,464	8.3	23.8
903	758	Jan. 17, 1961	do.	--	.40	8	6	490	--	405	255	316	1.8	< .4	--	1,434	1,276	45	96	2,390	8.5	31.8
903	758	May 11, 1966	do.	--	.54	10	5	456	--	466	192	334	2.2	< .4	--	1,470	1,229	44	96	2,416	8.3	29.6
53-102	917	Apr. 8, 1963	do.	--	.40	12	7	* 443	--	393	370	222	3	2	--	1,460	1,252	57	94	2,310	8.4	25.0
102	917	Oct. 22, 1965	do.	11	.08	12	7	448	--	407	350	212	2.9	< .4	--	1,240	--	58	94	2,000	8.3	25.3
201	1,107	Oct. 21, 1965	Kho	11	.08	6	4	361	--	422	184	183	1.9	2.5	--	960	--	30	96	1,600	8.3	27.5
404	815	Oct. 22, 1965	Khe	10	--	14	8	453	--	404	368	220	2.9	< .4	--	1,280	--	68	94	2,050	8.5	24.0
404	815	May 11, 1966	do.	--	.30	16	6	451	--	403	372	231	2.2	< .4	--	1,490	1,277	66	94	2,416	8.4	24.2
504	879	Apr. 8, 1963	do.	--	.70	15	11	* 530	--	421	465	261	2.9	2.5	--	1,710	1,495	81	93	2,717	8.3	24.5
504	879	Oct. 22, 1965	do.	10	.12	16	9	520	--	428	453	251	3	< .4	--	1,470	--	77	94	2,300	8.1	25.7
505	1,192	Jan. 18, 1967	Kho	--	.24	6	5	362	--	444	154	210	1.7	.4	--	1,180	957	38	96	--	8.3	26.3
703	1,001	Apr. 20, 1961	do.	--	.64	8	5	425	--	465	209	273	2	< .4	--	1,311	1,151	40	96	2,185	7.9	28.9
703	1,001	Oct. 21, 1965	do.	9	--	7	3	438	--	412	209	267	2.3	< .4	--	1,150	1,139	31	97	1,900	8.7	34.6
703	1,001	May 11, 1966	do.	--	.26	8	4	421	--	432	204	268	1.9	< .4	--	1,350	1,119	34	96	2,176	8.5	30.0
704	1,081	Oct. 21, 1965	do.	11	.18	7	4	423	--	444	205	262	2.3	< .4	--	1,130	--	34	96	1,900	8.3	31.7
705	1,001	Apr. 20, 1961	Kho	--	1.04	6	4	404	--	464	210	223	2.0	< .4	--	1,212	1,078	32	96	2,020	8.1	30.8
705	1,001	May 11, 1966	do.	--	.10	7	3	393	--	426	199	219	2	< .4	--	1,270	1,032	31	97	1,984	8.7	31.1
706	855	Oct. 21, 1965	Klu	8	--	14	11	540	--	426	473	277	3	< .4	--	1,540	--	79	94	2,450	8.5	26.4
706	855	May 11, 1966	do.	--	.48	7	7	530	--	351	464	288	2.5	< .4	--	1,680	1,472	48	96	2,877	8.9	33.4
901	1,060	May 21, 1951	do.	12	.25	14	10	* 555	--	428	507	282	3.6	1.5	0.68	1,600	--	76	93	2,550	8.3	27.7
902	1,355	Feb. 22, 1954	Kho	32	.15	6	4	389	--	451	205	209	1.6	< .4	--	1,045	1,069	32	96	--	8.2	29.7
902	1,355	Oct. 7, 1965	do.	--	--	6	4	385	--	439	--	200	2	< .4	--	1,240	--	33	96	1,890	8.3	29.4
902	1,355	Sept. 18, 1968	do.	14	.13	5	44	387	--	440	200	223	2	< .4	--	1,050	--	29	97	1,720	8.2	31.7

See footnotes at end of table.

BELL COUNTY

Table 5 -- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
AX-40-54-401	1,657	July 14, 1965	Ktp	--	0.32	5	3	359	--	431	167	173	1.9	< .4	--	1,130	921	25	97	1,696	8.2	31.2
1) 501	1,735	Jan. 9, 1943	do.	13	0	5.9	2.3	* 364	--	455	195	167	1.4	1.5	--	974	--	24	97	--	8.4	32.3
501	1,735	Apr. 5, 1965	Ktp	16	--	7	1	361	--	447	173	170	2.4	2	--	950	--	21	97	1,590	8.1	33.4
4) 502	2,045	Mar. 3, 1969	do.	--	0	6	3	375	--	430	230	175	1.5	0	--	1,000	--	25	97	--	8.2	32.6
5) 701	1,669	July 26, 1968	Kho	--	<.1	--	--	--	--	--	493	220	1.5	< .02	--	1,072	--	22	--	--	--	--
55-701	2,652	Mar. 9, 1961	do.	--	.48	6	2	323	--	494	176	69	2.4	< .4	--	852	822	23	97	1,420	7.8	29.3
59-102	772	June 10, 1941	Kgr, Ktp	4	.2	68	26	* 915	--	464	708	817	2.1	4.7	--	2,736	2,773	277	88	--	7.3	24.0
1) 102	772	Sept. 26, 1941	do.	--	--	48	29	* 916	--	466	733	770	--	0	--	2,730	--	239	89	--	--	25.7
301	708	Sept. 18, 1968	Kgr, Kha	12	.13	81	72	1,170	--	472	1,340	900	4.9	5	--	3,820	--	497	84	5,200	7.5	22.8
701	640	do.	do.	12	<.02	66	60	640	--	444	1,020	296	5.3	6.5	--	2,320	--	411	77	3,230	7.7	13.7
60-302	956	Jan. 17, 1961	Kho	--	.40	8	6	490	--	405	255	316	1.8	< .4	--	1,434	1,276	45	96	2,390	8.5	31.8
302	956	Oct. 22, 1965	do.	10	--	7	5	461	--	437	200	320	2.7	< .4	--	1,230	--	38	96	2,100	8.6	32.3
6) 501	979	Mar. 15, 1966	Khe	--	--	--	--	--	--	367	190	140	5	--	--	1,281	--	36	--	1,700	8.29	--
501	979	Mar. 16, 1966	do.	--	.10	7	6	414	--	486	353	125	5.7	< .4	--	1,400	1,150	43	96	2,144	8.3	27.7
2) 601	965	May 1942	Ktp	7	.27	9.3	6.1	* 572	--	478	297	410	4.5	.0	--	1,580	1,542	48	96	--	--	36.1
1) 601	965	Dec. 16, 1942	do.	12	.09	8.6	5	* 417	--	482	341	130	5.5	.0	--	1,157	--	42	96	--	8.3	27.9
1) 601	965	May 25, 1954	do.	13	.16	8.6	5.3	* 415	--	489	339	125	6	.0	--	1,150	--	44	95	1,840	8.2	27.3
2) 801	948	Apr. 12, 1942	Khe, Kho	17	.14	14	7.1	* 782	--	484	347	708	2.9	5	--	2,101	2,121	64	96	--	--	42.5
1) 801	948	Nov. 9, 1942	do.	8.8	.10	15	8.7	* 760	--	470	336	695	3	3	--	2,061	--	74	96	--	7.8	38.4
801	948	Apr. 6, 1943	do.	11	.06	26	11	* 722	--	476	327	675	3.2	.7	--	2,053	2,010	110	93	--	7.9	29.9
1) 801	948	May 25, 1954	do.	12	.04	9.3	5.5	* 368	--	443	299	113	4.4	.2	--	1,030	--	46	95	1,660	8.1	23.9
2) 901	999	May 1942	do.	12	.14	14	7.5	* 579	--	439	283	470	2.9	.0	--	1,602	1,585	66	95	--	--	31.1
1) 901	999	Nov. 4, 1942	do.	18	.10	16	7.1	* 571	--	424	296	460	2.5	.2	--	1,580	--	69	95	--	8.0	29.9
901	999	Apr. 6, 1943	do.	20	.08	23	10	* 518	--	433	297	398	2.8	.7	--	1,543	1,483	99	92	--	8.0	22.8
1) 901	999	May 25, 1954	do.	12	.18	27	11	* 331	--	415	317	108	3.6	.0	--	1,010	--	112	86	1,620	7.8	13.6
2) 902	965	Apr. 1942	do.	10	1.2	11	6.7	* 670	--	447	--	--	2.9	--	--	1,814	--	55	96	--	--	39.4
1) 902	965	Nov. 4, 1942	do.	8.8	.12	12	8.6	* 579	--	468	487	300	3.5	2	--	1,632	--	66	95	--	8.3	31.1
902	965	Apr. 6, 1943	do.	14	.08	18	8	* 630	--	448	269	568	3	.7	--	1,780	1,731	78	95	--	8.0	31.1
1) 902	965	May 25, 1954	do.	13	.04	11	6.2	* 441	--	463	370	166	5.2	.2	--	1,240	--	53	95	2,030	8.2	26.3
2) 903	932	Apr. 1942	Khe, Kho	16	2.9	12	6.7	* 633	--	457	297	525	3.3	0.5	--	1,716	--	58	96	--	--	36.2
1) 903	932	Nov. 4, 1942	do.	7.2	.06	13	8	* 601	--	446	305	482	3.2	.2	--	1,641	--	66	96	--	7.8	32.3

See footnotes at end of table.

BELL COUNTY

Table 5 -- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
AX-40-60-903	932	Apr. 6, 1943	Khe, Kho	14	0.08	16	7	*	570	--	454	303	440	3.2	< 0.04	--	1,646	1,577	69	95	--	8.1	29.9
Y 903	932	May 25, 1954	do.	12	.04	13	7.3	*	404	--	457	365	122	5.2	.2	--	1,150	--	62	93	1,830	8.0	22.2
Z 904	968	May 1942	do.	8	.26	12	7.4	*	716	--	451	282	670	2.9	.5	--	1,854	1,920	60	95	--	--	40.5
Y 904	968	Nov. 4, 1942	do.	9.2	.08	18	11	*	627	--	453	376	482	3.3	2.5	--	1,752	--	90	94	--	8.2	28.7
Y 904	968	Apr. 6, 1943	do.	16	.2	18	9	*	650	--	448	276	596	2.8	.7	--	1,838	1,789	82	95	--	7.6	31.1
Y 904	968	May 25, 1954	do.	13	.10	13	7.9	*	683	--	436	286	628	3.6	.2	--	1,850	--	65	96	3,160	8.2	36.7
Z 905	956	May 1942	do.	8	.09	12	6.7	*	644	--	460	295	542	3.3	.2	--	1,702	1,738	58	96	--	--	36.9
Y 905	956	Nov. 4, 1942	do.	13	.12	12	6.3	*	632	--	452	293	528	3.8	.2	--	1,711	--	56	96	--	8.1	36.7
Y 905	956	May 25, 1954	do.	13	.10	12	7.2	*	465	--	510	425	135	7.0	.2	--	1,320	--	60	94	2,070	8.1	26.3
Y 907	1,110	Apr. 11, 1966	Kho	--	.64	10	9	.	620	--	429	297	560	3.5	< .4	--	1,880	1,711	62	96	3,280	8.2	34.1
Z 61-101	1,351	Oct. 18, 1949	do.	13	.05	10	4.6	*	442	--	410	215	290	--	--	--	1,403	1,178	24	96	--	8.25	29.1
Y 101	1,351	Oct. 22, 1965	do.	11	.12	8	3		450	--	440	210	288	2.4	< .4	--	1,190	--	35	97	1,960	8.3	34.4
Y 105	1,080	Jan. 24, 1961	do.	--	.82	6	3		430	--	450	188	245	2	< .4	--	1,188	1,096	30	97	1,980	8.1	35.3
Y 105	1,080	Oct. 21, 1965	do.	9	.08	6	4		423	--	421	198	241	2.4	< .4	--	1,110	1,091	31	97	1,850	8.7	32.3
Y 106	988	do.	Ktp	9	--	7	5		450	--	417	216	284	2.5	.5	--	1,190	1,179	38	96	1,950	8.6	31.6
Y 106	988	May 11, 1966	do.	--	1.36	8	4		437	--	409	207	288	2	< .4	--	1,370	--	40	96	2,304	8.7	31.2
Y 301	1,487	Jan. 21, 1952	do.	--	--	12	14	*	423	--	488	219	269	--	--	--	1,425	1,177	89	91	--	--	19.6
Y 301	1,487	Oct. 21, 1965	do.	13	.36	9	4		448	--	431	200	301	2.1	< .4	--	1,190	--	39	96	1,990	8.3	31.4
Y 401	1,190	Apr. 28, 1949	Kho	16	.48	29	8	*	466	--	445	257	344	2.2	< .4	--	1,395	1,342	106	91	--	7.8	19.7
Y 402	1,190	Sept. 26, 1941	Ktp	--	--	--	--	*	472	--	466	301	302	--	2	--	1,296	--	96	--	--	--	--
Y 402	1,190	Sept. 11, 1964	do.	--	<.02	9	4		462	--	434	233	308	2.8	< .4	--	1,460	1,232	38	96	2,354	8.2	32.4
Y 403	1,172	Jan. 5, 1943	do.	8.2	.0	17	11		545	11	545	558	172	6	1.5	--	1,598	--	88	93	--	8.4	25.2
Y 403	1,172	Mar. 30, 1943	do.	16	.24	19	12	*	481	--	451	260	330	2.2	.7	--	1,327	1,343	60	92	--	8.2	22.5
Z 403	1,172	June 24, 1943	do.	12	.06	13	7.6	*	519	--	490	376	275	4	.0	--	1,448	--	64	95	--	7.9	28.2
Y 501	1,262	May 4, 1959	Kho	--	.36	9	3		425	--	442	220	308	1.1	.4	--	1,554	1,184	36	96	2,590	8.0	31.3
Y 503	1,365	--	Kho	100	--	11	6	*	439	--	--	225	291	--	--	--	1,226	--	52	95	--	8.0	26.5
Y 504	1,256	Feb. 9, 1949	do.	10	0.11	14	5	*	459	--	439	244	312	--	--	--	1,268	--	55	95	--	7.9	26.6
Y 508	1,281	Feb. 29, 1952	do.	14	.01	6.8	4	*	438	--	442	221	268	2.2	3.5	1.1	1,180	--	34	97	1,970	8.0	32.8
Y 509	1,261	Mar. 21, 1952	do.	9	.35	7.2	3.5	*	433.6	--	429.4	217	262	--	--	--	1,425.6	1,144	32	97	--	8.35	33.1
Y 510	1,382	Jan. 25, 1965	do.	6	--	12	7		570	--	395	243	320	1.8	< 0.4	--	1,550	--	59	95	2,600	8.2	32.2
Y 901	1,850	Aug. 17, 1964	do.	--	.76	+11	--		443	--	387	227	274	2.6	< .4	--	1,370	1,148	29	--	2,200	9.0	--
Y 901	1,850	Feb. 3, 1966	do.	--	2.2	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Y 62-101	2,136	Sept. 22, 1952	do.	20	.04	18	14	*	387	--	415	247	231	1	< .4	--	1,072	1,127	103	89	--	8.3	16.7

See footnotes at end of table.

BELL COUNTY

Table 5 -- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
AX-40-62-102	1,822	Jan. 31, 1966	Kho	11	--	9	3	412	--	422	242	245	2	< 0.4	--	1,130	--	37	96	1,700	8.2	30.4	
y 401	800	Jan. 3, 1944	Kf	--	--	--	--	--	--	420	250	224	--	--	--	--	--	--	--	--	--	--	--
y 401	1,500	do.	Kgr	--	--	--	--	--	--	440	250	242	--	--	--	--	--	--	--	--	--	--	--
y 401	1,900	do.	Khe, Kpe	--	--	--	--	--	--	458	250	246	--	--	--	--	--	--	--	--	--	--	--
y 401	2,000	do.	Kho	14	.07	12	4.5	* 440	--	450	269	248	2	1.8	--	1,210	--	48	95	--	8.0	27.3	
y 401	2,234	Jan. 8, 1944	do.	8.5	.68	24	4.4	* 394	--	409	284	216	--	.2	--	1,130	--	78	92	1,880	--	19.5	
401	2,323	Feb. 17, 1944	do.	18	.64	12	3	* 437	--	433	269	254	1.8	< .4	--	1,185	1,208	43	96	--	8.0	28.8	
y 401	2,323	July 24, 1944	do.	--	--	--	--	--	--	300	220	212	--	--	--	--	--	--	--	--	--	--	--
y 401	2,323	July 26, 1944	do.	--	--	--	--	--	--	442	260	252	--	--	--	--	--	--	--	--	--	--	--
5D1	2,236	Sept. 7, 1966	do.	--	.52	14	1	443	--	454	260	250	2.6	< .4	--	1,430	1,194	40	96	--	8.3	30.6	
801	2,366	May 9, 1960	do.	--	.22	6	3	376	--	433	190	208	1.8	< .4	--	1,088	998	26	97	1,814	8.1	30.9	
y 801	2,366	Apr. 21, 1961	do.	16	.05	5.8	2.2	* 382	--	432	211	205	1.8	1.2	.80	1,040	--	24	97	1,740	8.1	33.9	
63-501	3,200	Mar. 27, 1965	do.	--	.68	+10	--	368	--	492	213	125	3.2	< .4	--	1,210	962	24	--	1,744	8.2	--	
y 58-03-401	450	Oct. 28, 1942	Kgr, Khe	--	--	20	19	* 402	--	519	319	170	--	6	--	1,192	--	128	87	--	--	15.5	
901	857	Sept. 17, 1968	Ktp	13	.04	19	11	235	--	386	126	124	2.5	< .4	--	720	--	92	85	1,170	7.7	10.6	
04-103	767	Jan. 31, 1966	Kgr, Khe	8	--	24	21	445	--	439	560	124	4.5	< .4	--	1,400	--	146	87	2,000	7.9	16.0	
103	767	do.	do.	9	--	23	21	428	--	429	540	124	3.9	< .4	--	1,360	--	143	87	1,900	8.1	15.5	
4 602	105	Mar. 5, 1968	Kea	--	0	106	25	5	--	353	16	53	1	19	--	400	--	372	3	--	7.0	.11	
4 05-202	1,740	Sept. 3, 1968	Kho	--	0	10	4	380	--	475	260	140	2.5	0	--	1,100	1,031	42	95	--	7.8	25.0	
y 402	1,827	Mar. 31, 1961	Kho	14	--	7.8	4.6	* 253	--	392	142	79	3	0.0	--	696	--	38	93	1,150	7.8	17.8	
403	1,630	Sept. 17, 1968	Khe	15	0.46	8	5	227	--	387	104	79	2.8	< .4	--	630	--	40	92	1,030	8.2	15.4	
y 901	1,993	Apr. 7, 1939	do.	18	.2	59	36	* 703	--	--	980	353	4.9	--	--	2,530	--	305	84	--	8.1	17.8	
901	1,993	May 18, 1942	do.	40	.7	78	41	* 636	--	421	985	344	4	4.6	--	2,413	2,339	303	78	--	8.0	14.1	
y 901	1,993	Apr. 22, 1943	do.	10	.86	60	42	* 725	--	410	978	362	5.4	9.4	--	2,395	--	322	83	--	7.8	17.6	
901	1,993	Feb. 12, 1964	do.	--	2.5	71	45	760	--	425	1,110	396	5.6	< .4	--	2,810	2,600	364	82	4,966	7.5	17.4	
902	2,420	do.	Kho	--	.13	12	6	450	--	477	299	235	4	< .4	--	1,480	1,241	56	95	2,343	8.1	26.5	
06-102	2,210	Oct. 8, 1955	do.	30	.15	8	4	443	--	451	235	273	2	< .4	--	1,248	1,217	37	96	--	8.2	31.6	
102	2,210	Apr. 1956	do.	--	.33	9	4	* 452	--	375	290	280	2	.4	--	1,214	--	39	96	--	8.5	31.7	
2 07-301	3,584	Apr. 8, 1957	do.	16	.02	11.2	3.4	* 403	--	492	290	118	--	--	--	1,248	1,084	40	95	1,750	8.1	27.0	
y 301	3,584	Apr. 15, 1957	do.	--	--	13	1	* 334	--	504	159	128	--	--	--	1,078	883	35	95	--	--	23.8	
y 301	3,584	Nov. 9, 1960	do.	23	--	10	2.6	* 395	--	492	304	118	2.8	.0	--	1,100	--	36	96	1,810	8.0	28.6	
y 701	3,178	Nov. 19, 1940	do.	24	.2	10	3	* 399	--	500	288	117	2.4	< .4	--	1,072	1,090	38	96	--	8.6	28.0	

See footnotes at end of table.

BELL COUNTY

Table 5.-- Chemical Analyses of Water From Selected Wells -- Continued

Well	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMH/cm AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1) AX-58-07-701	3,178	Apr. 1943	Kho	20	.04	9.1	2.9	* 387	- -	511	277	110	2.8	0	- -	1,060	- -	34	96	- -	8.4	28.5
701	3,178	Nov. 3, 1961	do.	- -	.12	24	10	460	- -	476	398	150	2.8	< .1	- -	1,560	1,279	101	91	2,600	8.2	20.0

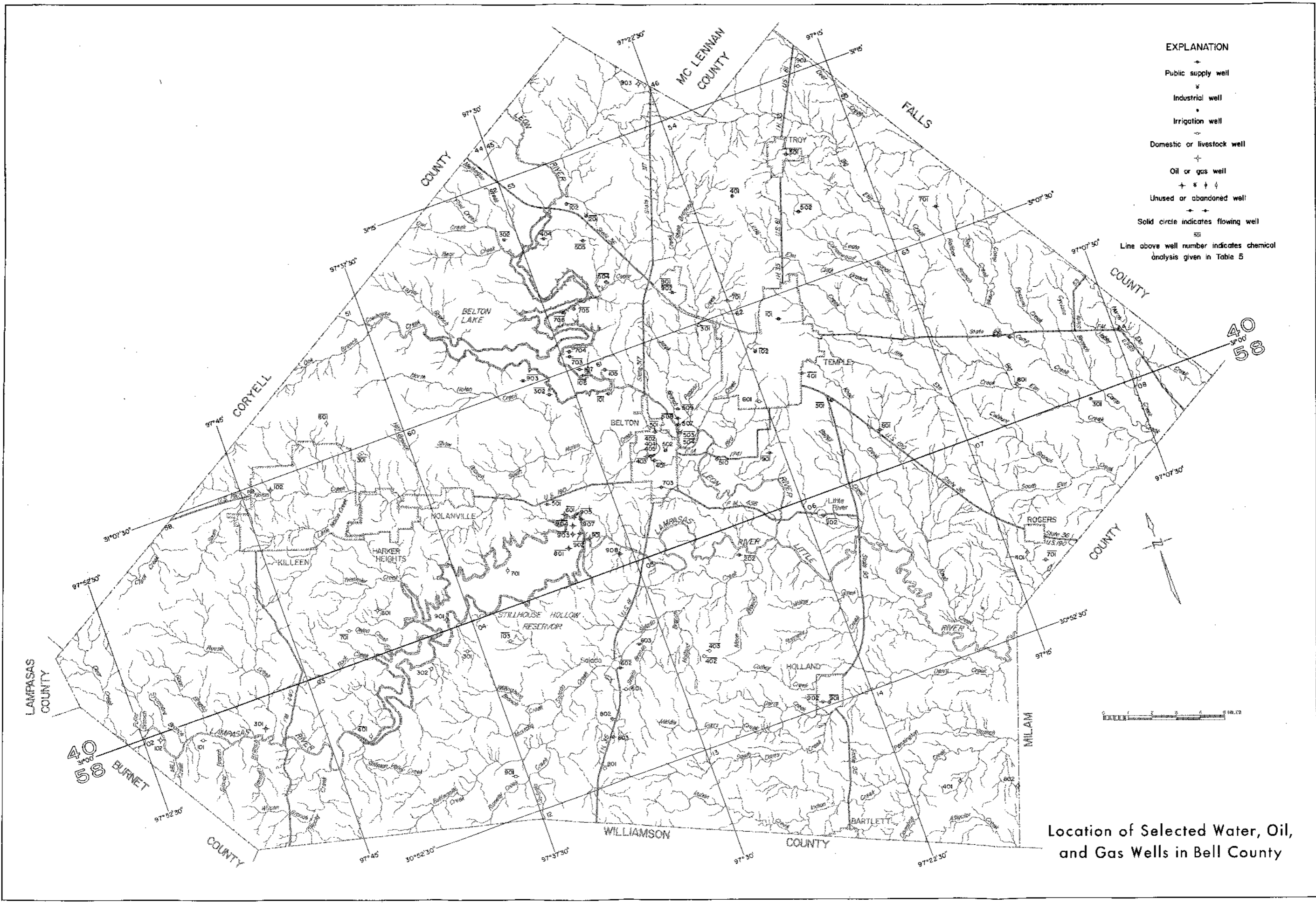
* Sodium and potassium calculated as sodium (Na)
 † Calcium and magnesium calculated as calcium (Ca)

LABORATORY CONDUCTING ANALYSIS:

- 1) U.S. Geological Survey Laboratory
- 2) Laboratory unknown
- 3) Pope Testing Laboratories
- 4) Southwestern Analytical Chemicals, Inc.
- 5) Forrest and Cotton, Inc.
- 6) North Texas State University Water Research Laboratory
- 7) Houston Laboratories Analytical and Consulting Chemists
- 8) Trinity Testing Laboratories
- 9) Curtis Laboratories
- 10) International Filter Co.

EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in Bell County

BOSQUE COUNTY

Table 1--Records of Selected Water Wells

Water-bearing unit : Ksb, Woodbine Group; Kes, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe Peak Formation; Khe Peak Formation; Khe, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
BR-32-52-501	Houston Ranch	Morris Pollock	--	600	4	--	Kp	575	Flowed 2.05 4.85	Mar. 29, 1960 Mar. 23, 1966 Mar. 20, 1967	Sub, E 5	S	Estimated yield 100 gpm.
701	C. M. Baie	Jess Hickey Oil Corp.	1954	750	5	--	do.	725	--	--	C, G	D, S	Well was originally drilled as oil test to 2,425 ft and plugged back to 750 ft. <u>y</u>
58-401	Wlat Top Ranch	--	--	--	4	--	Kp	1,070	37.22 36.60	Mar. 22, 1966 Mar. 20, 1969	C, W	S	Texas Water Development Board observation well. <u>y</u>
502	do.	C. Glenn Wallen and Son	1940	515	6	--	Khe	990	220 253.60	Mar. 22, 1966 Mar. 20, 1969	Sub, E 3	S	Pump set at 400 ft. Texas Water Development Board observation well. <u>y</u>
* 59-401	City of Walnut Springs	D. Montgomery	1928	540	6	--	do.	912	140 211.4	Feb. 10, 1943 Mar. 15, 1968	T, E 15	P	Pump set at 300 ft. Reported yield 100 gpm in 1961. Texas Water Development Board observation well. <u>y</u>
* 402	do.	J. L. Myers Sons	1949	611	8 6	224 611	do.	980	--	--	T, E 20	P	Perforated from 541 to 611 ft. Pump set at 350 ft. Reported yield 135 gpm. Temp. 74°F. <u>y</u>
* 501	Karl C. Morrison	Morris Pollock	1953	146	5	145	Kp	850	82 88.70	May 4, 1960 May 20, 1969	C, R 1/2	D, S	Perforated. Texas Water Development Board observation well. <u>y</u>
502	James Smith and Vernon Smith	Iredall Drilling	1966	630	14	577	Khe	830	143 202.3	Aug. 22, 1966 Aug. 24, 1966	T, E 100	Irr	Slotted from 447 to 577 ft. Pump set at 340 ft. <u>y</u>
60-601	J. B. Johnson	Frank Baker Place	1945	550	8	--	do.	579	Flowed Flowed	Mar. 29, 1960 Mar. 23, 1966	J, Sub, R 15	P	Pumps set at 60 and 50 ft. Well supplies Kopperl, Texas.
* 602	Kopperl Deep Well Co.	-- Sidev.	1927	760	5 4	260 760	Ktp	577	+ 12 9.20	Feb. 10, 1943 Mar. 7, 1969	N	N	Reported flow 10 gpm in 1943. Texas Water Development Board observation well. Abandoned. <u>y</u>
* 701	City of Morgan	James F. Smith	1906	675	8	--	Khe	790	98 162.95	Feb. 10, 1943 Mar. 20, 1969	Sub, E	P	Pump set at 220 ft. Reported yield 75 gpm. Texas Water Development Board observation well. <u>y</u>
* 702	do.	--	1902	760	--	--	Ktp	795	70	Feb. 10, 1943	C, G 5	N	Pump set at 110 ft. Reported yield 300 gpm in 1943. Well flowed 30 gpm when drilled. Originally drilled as oil test to 2,100 ft and plugged back to 760 ft. Abandoned.
61-102	U.S. Army Corps of Engineers	Ward and Ward Drilling Co.	1960	583	--	573	Khe	570	+ + 13.95	Apr. 6, 1960 Apr. 7, 1960 May 20, 1968	J, E	P	Screened from 573 to 583 ft. Pumping level 21 ft at 320 gpm on Apr. 6, 1960. Pump set at 84 ft. Cemented from 573 ft to surface. <u>y</u>
401	do.	do.	1960	168	--	168	Kp	565	28 28.05	Apr. 1, 1960 June 7, 1968	Sub, R I	P	Screened from 158 to 168 ft. Pumping level 51 ft at 315 gpm on Apr. 1, 1960. Pump set at 84 ft. Reported yield 10 gpm. <u>y</u>
* 701	Bogey Estill	Rufus Hampton Smith	1955	825	7 4	200 825	Ktp	577	+ 19.65	Apr. 27, 1960 May 20, 1968	--	D, S	Perforated from 680 to 780 ft. Estimated yield 65 gpm. Temp. 80°F. <u>y</u>

See footnotes at end of table.

BOSQUE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS	
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT				
BB-32-61-703	Lakeside Water Supply District	J. L. Myers Sons	1964	746	12 8 6	7 630 745	Khe	620	25 39.40	Feb. Mar.	1964 7, 1969	Sub, B 35	P	Slotted from 630 to 710 ft. Pumping level 467 ft at 220 gpm in Feb. 1964. Pump set at 540 ft. Reported yield 175 gpm. Cemented from 630 ft to surface. Texas Water Development Board observation well. <u>1/4</u>
704	do.	do.	1950	764	6 4	261 764	do.	614	--	--	--	T, R 7-1/2	N	Perforated from 606 to 764 ft. <u>1/4</u>
705	do.	C. M. Stoner Drilling Co.	1968	757	8 7	680 757	do.	640	80	July 29, 1968		Sub, E 30	P	Slotted from 680 to 710, 722 to 734, and 740 to 750 ft. Pumping level 465 ft at 200 gpm on July 29, 1968. Pump set at 500 ft. Cemented from 680 ft to surface. <u>1/2</u>
706	Restview Water Association	Leon Drilling Co.	1962	222	4	222	Kp	624	100	Oct. 28, 1962		Sub, R 1-1/2	P	Slotted from 190 to 220 ft. Pumping level 125 ft at 22 gpm on Oct. 28, 1962. Pump set at 150 ft. Cemented from 165 to 180 ft. <u>1/4</u>
* 707	U.S. Army Corps of Engineers	--	1962	813	4 3	783 813	Khe	705	113 108 131.35	May 28, 1962 May 30, 1962 May 20, 1968		Sub, H	P	Completed from 783 to 813 ft. Pumping level 243 ft at 13 gpm on May 30, 1962. Cemented from 783 ft to surface. Well was drilled to 850 ft and plugged back to 813 ft. <u>1/4</u>
801	do.	Ward and Ward Drilling Co.	1960	218	--	218	Kp	566	32 47.00	Apr. 5, 1960 Dec. 4, 1968		Sub, E	P	Screened from 208 to 218 ft. Pumping level 104 ft at 32 gpm on Apr. 5, 1960. Pump set at 126 ft. Cemented from 208 ft to surface. <u>1/4</u>
40-01-302	O. H. McGavock	Iredell Drilling	1964	290	14 10	50 290	Khe	900	120.76 126.10	Mar. 21, 1966 Mar. 19, 1969		T, R	Irr	Completed from 200 to 290 ft. Pump set at 240 ft. Texas Water Development Board observation well. <u>1/4</u>
303	H. F. Myers	do.	1964	315	14 10 8	18 270 315	do.	905	105	Sept. 25, 1964		T, G	Irr	Completed from 270 to 315 ft. Pump set at 250 ft. Reported yield 600 gpm. <u>1/4</u>
* 02-101	City of Iredell	Rufus Hampton Smith	1945	325	7 5	277 325	do.	900	65	Mar. 8, 1960		T, E 5	P	Completed from 265 to 325 ft. Pump set at 200 ft. Reported yield 175 gpm. <u>1/4</u>
* 102	do.	--	1900	335	6	--	do.	902	--	--		C, E 1-1/2	P	Pump set at 180 ft. <u>1/4</u>
104	E. F. Strong	Iredell Drilling	1966	410	14 10	325 410	do.	895	120.99	Apr. 1, 1966		T, Ng	Irr	Completed from 225 to 325 and 370 to 410 ft. Pump set at 270 ft. Gravel packed. <u>1/2</u>
* 105	City of Iredell	do.	1966	326	12 8 5	26 270 326	do.	900	110	Oct. 15, 1966		Sub, E 10	P	Slotted from 270 to 326 ft. Pump set at 270 ft. Estimated yield 100 gpm. Cemented from 270 ft to surface. Temp. 72°F. <u>1/4</u>
106	Elliott Ensminger	do.	1965	425	12 10	40 425	do.	1,000	200	1965		T, G 50	Irr	Completed from 300 to 425 ft. Pumping level 250 ft at 350 gpm. Pump set at 270 ft. <u>1/4</u>
107	R. S. Echols	Joe Gandy	1901	257	5	--	do.	900	100	Feb. 10, 1943		C, E 3	N	Pump set at 225 ft. Reported yield 2 gpm.
03-202	E. R. Hatfield	Rufus Hampton Smith	1961	175	--	--	Kp	885	130	June 22, 1961		--	D, S	<u>1/4</u>
402	Eugene Allen	Clarence Erickson and Rufus Hampton Smith	1956	560	--	--	Kgr	1,130	--	--		--	D, S	<u>1/4</u>
* 601	City of Meridian	J. L. Myers Sons	1940	759	10 8	649 759	Kho	760	65 121.25	Mar. 1949 Mar. 14, 1968		Sub, E 50	P	Completed from 647 to 759 ft. Pump set at 300 ft. Reported yield 350 gpm. Temp. 69°F. Texas Water Development Board observation well. <u>1/4</u>

See footnotes at end of table.

BOSQUE COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (1) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BR-40-03-602	City of Meridian	Rufus Hampton Smith	1923	725	8 6	-- --	Ktp	761	17 45 55 65	1923 Mar. 6, 1938 1940 Mar. 17, 1949	T, R 25	N	Pump set at 120 ft.
* 603	do.	C. M. Stoner Drilling Co.	1963	838	8	838	Kho	830	183 174.0 194.34	June 1963 Mar. 15, 1965 Mar. 21, 1966	Sub, K	P	Perforated from 735 to 838 ft. Pumping level 325 ft at 346 gpm on Mar. 15, 1965. Pump set at 400 ft. Cemented from 838 ft to surface. <u>Y Z Y</u>
* 802	Texas Parks and Wildlife Department	Watts Drilling Co.	1963	910	4 3	720 910	do.	1,030	350	July 1963	Sub, E 5	P	Perforated from 720 to 910 ft. Pumping level 378 ft at 20 gpm in July 1963. Pump set at 478 ft. Reported yield 22 gpm. Cemented from 720 ft to surface. <u>Y</u>
* 901	Texas Highway Department	do.	1962	570	7 5	535 570	Khe	775	110 108.50	July 19, 1962 Jan. 12, 1965	Sub, E 7-1/2	Ind	Slotted from 535 to 570 ft. Pumping level 122 ft at 55 gpm on July 19, 1962. Pump set at 254 ft. Cemented from 535 ft to surface. <u>Y</u>
04-401	C. G. Colden	--	--	347	5	347	Xp	965	98 122.60 308.64	May 5, 1960 Mar. 22, 1966 Mar. 17, 1967	C, W	D, S	Perforated from 287 to 347 ft. Pump set at 344 ft.
* 402	E. K. Bowman	Rufus Hampton Smith	1961	240	--	--	do.	848	170 171	May 16, 1961 Sept. 19, 1968	Sub, E	D, S	<u>Y</u>
403	N. P. Powell Ranch	J. L. Myers Sons	1954	936	8 5	12 784	Khe, Kho	934	200	May 10, 1954	C, W	S	Open hole completion from 784 to 936 ft. Cemented from 12 ft to surface. <u>Y Z</u>
801	do.	Hervey Meadows and Son Well Driller	1966	1,120	5	1,120	Kho	940	230.3 234.80	Jan. 10, 1967 Mar. 20, 1969	N	N	Perforated from 1,080 to 1,120 ft. Texas Water Development Board observation well. <u>Y Y</u>
802	do.	J. L. Myers Sons	1954	1,130	8 5	9 1,121	Kgr, Ktp	940	--	--	C, W	D, S	Perforated. Pump set at 400 ft. Cemented from 9 ft to surface. <u>Y Z</u>
803	do.	do.	1954	971	5	954	do.	928	231	May 29, 1964	C, W	S	Perforated from 684 to 954 ft. Cemented from 684 ft to surface. <u>Y Z</u>
* 05-301	U.S. Army Corps of Engineers	Watts Drilling Co.	1963	977	4 2	735 957	Kho	540	7	Mar. 15, 1963	Sub, K 3/4	P	Screened from 957 to 967 ft. Pumping level 20 ft at 600 gpm on Mar. 15, 1963. Cemented from 735 ft to surface. <u>Y Z</u>
401	James Walker	Iredell Drilling	1964	691	12 8	300 691	Khe	595	36	Oct. 15, 1964	T, C 50	Irr	Pump set at 350 ft. Reported yield 700 gpm. <u>Y</u>
* 701	Ronnie Jones	J. L. Myers Sons	1954	1,107	5 3	1,030 1,107	Kho	800	152 249.30	Mar. 12, 1954 Mar. 20, 1969	Sub, E	D, S	Perforated from 1,030 to 1,093 ft. Cemented. Texas Water Development Board observation well. <u>Y Z Y</u>
704	N. P. Powell Ranch	J. L. Myers Sons	1954	1,187	8 5	10 1,160	Kgr, Ktp	830	--	--	C, W	S	Perforated from 765 to 1,160 ft. Cemented from 10 ft to surface. <u>Y Z</u>
903	J. W. Murtishaw	C. M. Stoner Drilling Co.	1958	1,135	5	1,135	Ktp	590	55 83.25	Feb. 1958 Mar. 20, 1967	Sub, K 5	P	Pump set at 230 ft. Reported yield 120 gpm. Cemented. Texas Water Development Board observation well. <u>Y</u>
904	U.S. Army Corps of Engineers	J. E. Cass	1911	860	5	860	Khe	560	38.38 50.45	Mar. 23, 1966 Mar. 7, 1969	Sub, E	P	Slotted from 800 to 860 ft. Cemented from 800 ft to surface. Texas Water Development Board observation well. <u>Y</u>
905	do.	Watts Drilling Co.	1966	1,100	4	1,080	Kho	560	39 46.60	Dec. 16, 1966 June 15, 1967	Sub, E 2	P	Screened from 1,068 to 1,080 ft. Pump set at 100 ft. Estimated yield 15 gpm. Cemented from 1,068 ft to surface. <u>Y Z</u>
* 10-101	Jerry Mathews	R. A. Adams and Son	1944	330	4	330	Kp	1,225	275	Apr. 19, 1960	C, E 1-1/2	D, S	Perforated. Pump set at 319 ft.

See footnotes at end of table.

BUSQUE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETION	DEPTH OF WELL (ft)	CASING		WATER BRACING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BB-40-10-801	City of Cranfills Gap	E. E. Erickson	1934	549	6 3	500 --	Khe	1,010	346 298.10	Mar. 10, 1962 Mar. 19, 1969	Sub, E 3	P	Pump set at 413 ft. Reported yield 20 gpm. Texas Water Development Board observation well. <u>y</u>
* 802	do.	R. A. Adams and Son	1944	627	8 7 5	222 550 595	do.	1,080	--	--	C, E	P	Pump set at 400 ft. Temp. 73°F. <u>y</u>
* 11-401	J. Bruce Parks	Clarence Erickson	1964	478	7 4	111 478	do.	830	130 121.80	Mar. 26, 1964 Mar. 19, 1969	Sub, E 3/4	S	Perforated from 435 to 478 ft. Pumping level 170 ft at 10 gpm on Mar. 26, 1964. Cemented from 30 ft to surface. Temp. 70°F. Texas Water Development Board observation well. <u>y y</u>
* 402	Clarence Fields	do.	1964	110	4	110	Kp	780	40 36.05	Sept. 20, 1964 Dec. 9, 1968	C, E 1/3	D, S	Slotted from 60 to 90 ft. Pump set at 84 ft. Cemented. Temp. 56°F. <u>y</u>
* 12-101	Mildred Hogstel	do.	1952	130	4	130	do.	720	80 62	Apr. 6, 1952	C, K	D, S	Completed from 108 to 128 ft. Pump set at 115 ft. Reported yield 20 gpm. <u>y</u>
* 301	N. F. Powell Ranch	do.	1956	433	6	433	do.	870	262 272.60	Mar. 30, 1960 Dec. 9, 1968	C, E	D, S	Perforated.
* 703	City of Clifton	J. L. Myers Sons	1963	942	13 8 6	3 824 934	Kho	850	170 288.0	July 19, 1963 July 30, 1968	T, E	P	Slotted from 824 to 934 ft. Pumping level 360 ft at 300 gpm on July 20, 1963. Reported yield 285 gpm. Cemented from 824 ft to surface. <u>y</u>
* 704	W. L. Gauntt	Frank Baker Place	1964	812	5 --	780 812	Khe	890	290	June 30, 1964	E	P	Completed from 780 to 812 ft. <u>y</u>
* 801	Erwin Wiederanders	-- Silius	1910	600	6	150	do.	621	60	Sept. 28, 1964	T, E 3	P	Open hole completion from 150 to 600 ft. Pumping level 80 ft at 60 gpm. Pump set at 80 ft.
* 802	City of Clifton	H. B. Brickson	1906	646	7 5	158 586	do.	665	41	Sept. 17, 1948	T, E 7-1/2	N	Completed from 526 to 586 ft. Pump set at 80 ft. Reported yield 220 gpm. <u>y</u>
* 803	do.	Clarence Erickson	1945	698	8 7 4	568 -- 698	Khe, Kpe	665	27 70 66.48	Sept. 17, 1948 Feb. 25, 1960 Feb. 10, 1965	T, E 25	P	Pumping level 168 ft at 242 gpm on Feb. 10, 1965. Reported yield 250 gpm. <u>y y</u>
* 804	do.	do.	1954	702	10 8 6	140 622 702	do.	665	70	Feb. 25, 1960	T, E 25	N	Perforated from 570 to 622 and 673 to 702 ft. Pump set at 170 ft. Cemented. <u>y</u>
* 805	do.	E. E. Erickson	1915	787	10 8 6	158 645 785	Kpe, Kho	665	27 95.50	Sept. 17, 1948 Mar. 19, 1969	A, E 20	P	Completed from 705 to 785 ft. Pumping level 89 ft at 225 gpm on Feb. 10, 1965. Pump set at 240 ft. Reported yield 125 gpm. Texas Water Development Board observation well. <u>y y</u>
* 13-301	Lake Whitney Enterprises	J. L. Myers Sons	1951	1,173	8 5	388 1,173	Kho	575	+	July 24, 1951	Sub, E 20	P	Perforated from 1,055 to 1,173 ft. Cemented from 1,055 ft to surface. <u>y</u>
* 303	do.	do.	1957	1,142	10 7 5	3 501 1,142	do.	600	12	May 8, 1957	T, E 15	P	Perforated from 1,077 to 1,142 ft. Reported yield 150 gpm. Cemented from 1,077 ft to surface. <u>y</u>
* 801	A. R. Bearden	Frank Baker Place	1965	1,000	5 4	695 950	Khe	760	210	Jan. 3, 1967	Sub, E 2	D, S	Open hole completion from 950 to 1,000 ft. Pump set at 300 ft. Cemented from 950 ft to surface. <u>y</u>
* 14-501	Travelers Insurance Co.	--	1896	1,300	--	--	Ktp	503	--	--	J, E	P, S	Pump set at 75 ft. Reported yield 50 gpm.
* 508	G. J. Roberts	Barratt and Hill	1966	1,262	5 4	401 1,241	Khe	500	5.90 16.60	Mar. 23, 1966 Mar. 20, 1969	Sub, E 5	S	Completed from 970 to 1,000 ft. Pump set at 386 ft. Texas Water Development Board observation well. <u>y</u>

See footnotes at end of table.

BOSQUE COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BB-40-14-701	E. S. Dorman	--	1945	450	6	--	Kp	630	123 126.55	Apr. 6, 1960 Apr. 20, 1967	C, W	N	Open hole completion 30 to 450 ft. Texas Water Development Board observation well. Abandoned. <u>4</u>
* 702	do.	Frank Baker Place	1958	1,010	5	968	Khe	632	108.00 157.20	Apr. 6, 1960 Mar. 20, 1969	Sub, R 1-1/2	D, S	Open hole completion from 968 to 1,010 ft. Pump set at 290 ft. Texas Water Development Board observation well. <u>4</u>
18-303	Artesian Water Co.	J. L. Myers Sons	1956	575	7 5	537 575	do.	920	--	--	Sub, E	D, S	Pump set at 300 ft. Reported yield 25 gpm. Cemented. <u>1</u>
* 19-201	O. E. Pierson	Clarence Erickson	1934	122	5	100	Kp	822	79 71.80	Apr. 19, 1960 Mar. 19, 1969	C, W	D, S	Pump set at 99 ft. Texas Water Development Board observation well. <u>4</u>
402	Mrs. George Adams	G. M. Stoner Drilling Co.	1963	855	7	855	Kha, Kpe, Khe	903	350 350.15	Oct. 13, 1963 Dec. 28, 1967	Sub, E	S	Gun perforation with 45 shots 680 to 840 ft. Cemented from 855 ft to surface. <u>1</u> <u>2</u>
20-301	Charlie Thiele	Clarence Erickson	1947	650	7 5	-- 650	Kha	820	32 79.02	May 6, 1960 Mar. 19, 1969	J, E	D, S	Texas Water Development Board observation well. <u>4</u>
303	A. L. Haster	Frank Baker Place	1964	815	5	776	do.	770	200	Feb. 29, 1964	Sub, E 5	D, S	Open hole completion from 776 to 815 ft. Cemented. <u>1</u>
602	H. E. Prosser	do.	1964	715	5 --	683 715	do.	638	95 110.58	Oct. 6, 1964 Mar. 14, 1968	Sub, R	D, S	Completed from 683 to 715 ft. Cemented from 683 ft to surface. Texas Water Development Board observation well. <u>4</u>
603	J. B. Gilbreath	Humble Oil and Refining Co.	1930	--	6	--	Ktp	627	66.1	Jan. 11, 1965	Sub, R 3	Ind	Pump set at 300 ft. Cemented.
* 703	Mosheim Water Supply Corp.	Harvey Meadows and Son Well Driller	1966	856	7 5	620 856	Khe	925	374.45	May 20, 1966	Sub, E 5	P	Perforated from 816 to 856 ft. Pumping level 410 ft at 50 gpm. Pump set at 500 ft. Cemented from 310 ft to surface. <u>1</u> <u>2</u>
901	Fred Billings	Frank Baker Place	1965	310	7 5	17 208	Kp, Kgr	637	50 47.90	Sept. 3, 1965 Dec. 9, 1968	J, K	D, S	Perforated from 188 to 208 ft. Open hole completion from 208 to 310 ft. <u>1</u>
* 21-202	Edwin McMillan	do.	1965	327	7 5	20 327	Kp	662	75 76.90	Jan. 28, 1965 Dec. 6, 1968	J, E 1/4	D, S	Reported yield 10 gpm. Temp. 62°F. <u>1</u>
* 701	City of Valley Mills	--	1921	962	8 6	-- --	Ktp	610	+ 8 113.20	1941 Mar. 20, 1969	T, E 15	P	Pumping level 132 ft at 220 gpm on Jan. 11, 1965. Pump set at 180 ft. Reported yield 210 gpm. Temp. 80°F. Texas Water Development Board observation well. <u>3</u> <u>4</u>
* 702	do.	Frank Baker Place	1955	761	8 7 5	252 649 761	Khe	611	46 96.80	Aug. 15, 1955 Mar. 20, 1969	T, E 15	P	Completed from 701 to 761 ft. Reported yield 160 gpm. Cemented. Texas Water Development Board observation well. <u>1</u> <u>4</u>
22-101	P. D. Mayfield	do.	1948	400	8	10	Kf, Kp	520	29 37.50	Apr. 26, 1960 Dec. 5, 1968	C, K 1	N	Open hole completion from 10 to 400 ft.

* For chemical analysis of water, see Table 5.
1 For drillers' log of well, see Table 3.
2 Electric logs in files of the Texas Water Development Board, Austin, Texas.
3 For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.
4 For water-level measurements, see Table 4.

BOSQUE COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BB-32-58-301	American Liberty Oil Co.	Elmer Smith No. 1	1950	5,855	1,122	E
40-02-103	do.	Clanton No. 1	1949	4,468	980	E
701	American Republic Corp.	F. T. Shaffer No. 1	1950	5,246	1,136	E
10-102	Shell Oil Co.	Mathews No. 1	1965	840	1,160	E
12-403	do.	Ellie Moore No. 1	1966	675	700	E
404	do.	Ellie Moore No. 2	1966	701	729	E
13-302	SouthLand Oils and American Liberty Co.	R. T. Greenwade No. 1	1949	7,240	664	E
20-702	O. C. Proffitt	J. W. Henry No. 1	1953	6,222	933	E
21-101	American Liberty Oil Co.	Herbert Reichert No. 1	1948	7,706	850	E

BOSQUE COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-32-58-502			Well BB-32-61-102—Continued		
Owner: Flat Top Ranch Driller: C. Glenn Wallen and Son			Shale	37	109
Gray lime	30	30	Sand	11	120
Blue lime	50	80	Shale	10	130
Blue sandy shale	20	100	Paluxy sand	10	140
Hard sand rock, water 8 gpm	15	115	Rock	325	465
Hard blue shale	35	150	Shale	7	472
Hard blue sand lime	50	200	Rock	53	525
Gray hard lime	2	202	Glen Rose sand	22	547
Hard gray sandy lime	225	427	Rock	14	561
Soft blue shale	20	447	Water sand	22	583
Coarse sand (water)	68	515	Well BB-32-61-401		
Well BB-32-59-402			Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.		
Owner: City of Walnut Springs Driller: J. L. Myers Sons			Surface soil	22	22
Rock	131	131	Sandy clay and gravel	25	47
Sand	15	146	Rock	26	73
Rock	22	168	Shale	47	120
Sand	12	180	Upper Paluxy sand	16	136
Rock	14	194	Shale	22	158
Green putty sand	26	220	Lower Paluxy sand	10	168
Chalk rock	16	236	Well BB-32-61-701		
Lime	248	484	Owner: Bogey Estill Driller: Rufus Hampton Smith		
Shale	8	492	Gravel	20	20
Sandy lime	14	506	Blue shale	10	30
Sandy shale	7	513	White rock	120	150
Sand	12	525	Blue shale	15	165
Shale	15	540	Paluxy sand	15	180
Sand	46	586	Glen Rose lime with streaks of shale and lime	340	520
Gravel	24	610	First Trinity	50	570
Rock	1	611	Red bed	110	680
Well BB-32-61-102			Second Trinity	100	780
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Red and blue shale	45	825
Clay	10	10			
Gravel	8	18			
Rock	40	58			
Sand	14	72			

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-32-61-703			Well BB-32-61-705—Continued		
Owner: Lakeside Water Supply District Driller: J. L. Myers Sons			Sand	10	750
Lime and clay	6	6	Shale	7	757
Broken lime	136	142	Well BB-32-61-706		
Shale	18	160	Owner: Bestview Water Association Driller: Leon Drilling Co.		
Sand	48	208	Soil and gravel	5	5
Lime	381	589	Gray lime	20	25
Lime and shale	31	620	Lime shells and shale	140	165
Sand	13	633	Sandy lime	5	170
Broken sand	8	641	Sandy shale	10	180
Sand	19	660	Water sand	40	220
Broken sand	6	666	Sandy shale - lime	2	222
Sand	24	690	Well BB-32-61-707		
Broken sand	32	722	Owner: U.S. Army Corps of Engineers Driller: Unknown		
Red bed	24	746	Rock	145	145
Well BB-32-61-704			Shale	48	193
Owner: Lakeside Water Supply District Driller: J. L. Myers Sons			Rock	49	242
Surface soil	2	2	Shale and rock streaks	13	255
Rock	37	39	Sand and sandstone	11	266
Broken lime and shale	51	90	Shale and rock streaks	11	277
Rock	40	130	Sandy shale	5	282
Shale	54	184	Sandy shale	12	294
Sand	16	200	Sand	11	305
Rock	414	614	Rock	333	638
Sand	120	734	Shale and rock streaks	30	668
Lime and shale	30	764	Rock	10	678
Well BB-32-61-705			Shale and rock	15	693
Owner: Lakeside Water Supply District Driller: C. M. Stoner Drilling Co.			Rock	10	703
Soil	1	1	Shale and rock streaks	10	713
Lime	194	195	Sandy shale	10	723
Sand	35	230	Shale and rock streaks	15	738
Lime	378	608	Light colored sandy shale	10	748
Sandy lime and shale	70	678	Red shale	15	763
Sand	32	710	Sand	9	772
Shale	12	722	Red shale and rock streaks	11	783
Sand	12	734	Sand	10	793
Shale	6	740	Hard sand and sandstone	20	813
			Red shale	37	850

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-32-61-801			Well BB-40-02-102		
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Owner: City of Iredell Driller: Unknown		
Surface soil	29	29	Soil	20	20
Rock	19	48	Limestone	10	30
Shale	124	172	Soft blue marl	80	110
Water sand	46	218	Blue marl	6	116
			Soft white stone	50	166
Well BB-40-01-302			Sandstone, limestone and marl		
Owner: O. H. McGavock Driller: Iredell Drilling			100		
			Soft sand rock, hard sand rock		
Topsoil and clay	35	35	45		
Large gravel	15	50	311		
Limestone and blue clay	150	200	Fine grained sandstone		
Paluxy sand	20	220	6		
Blue shale and lime	35	255	Pack sand (flow of water)		
Trinity sand	35	290	18		
			335		
Well BB-40-01-303			Well BB-40-02-104		
Owner: H. F. Myers Driller: Iredell Drilling			Owner: B. F. Strong Driller: Iredell Drilling		
Topsoil	18	18	Topsoil and gravel	25	25
Lime	124	142	Shale	15	402
Blue shale	40	182	Lime and shale breaks	160	200
Sand (fine)	15	197	Blue shale	18	218
Blue shale	15	212	Sandy shale	14	232
Sand (fine)	20	232	Sand	7	239
Blue shale	30	262	Blue shale	4	243
Sand (coarse with washed gravel)	53	315	Sand and shale breaks	14	257
			Rock	3	260
			Sand	37	297
			Sand and gravel	23	320
			Red clay	10	330
			Sand and clay	30	360
			Red clay	50	410
Well BB-40-02-101			Well BB-40-02-105		
Owner: City of Iredell Driller: Rufus Hampton Smith			Owner: City of Iredell Driller: Iredell Drilling		
Sand	4	4	Topsoil and gravel	26	26
Yellow clay	7	11	Blue shale	14	40
Blue shale	9	20	Lime	160	200
Glen Rose lime with streaks of sand	220	240	Sand	10	210
Lime with streaks of shale	35	275			
Water sand (Trinity)	50	325			

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-02-105—Continued			Well BB-40-03-601—Continued		
Shale and lime strips	60	270	Rock	1	551
Sand and gravel	56	326	Shale	32	583
Well BB-40-02-106			Gumbo	4	587
Owner: Elliott Ensminger			Shale	21	608
Driller: Iredell Drilling			Rock	2	610
Topsoil and clay	20	20	Gray shale	5	615
Silica sand	15	35	Gumbo	11	626
Shale and lime	95	130	Shale	10	636
Fine sand	20	150	Rock	1	637
Lime and shale	150	300	Shale	8	645
Shale	75	375	Sand	79	724
Gravel and sand	50	425	Sand and gravel	9	733
Well BB-40-03-601			Lime	1	734
Owner: City of Meridian			Shale	25	759
Driller: J. L. Myers Sons			Well BB-40-03-603		
Surface soil	10	10	Owner: City of Meridian		
Gravel	2	12	Driller: C. M. Stoner Drilling Co.		
Lime	24	36	Chalk rock	6	6
Rock	8	44	Shell rock	164	170
Sand	10	54	Sand	20	190
Rock	16	70	Lime rock	370	560
Shale	11	81	Sandy lime	25	585
Rock	10	91	Sand	46	631
Sandy shale	4	95	Green shale	4	635
Sand	10	105	Red shale	17	652
Lime rock	6	111	Sand	8	660
Chalk rock	189	300	Red bed	25	685
Lime rock	158	458	Broken red and gray shale	45	730
Chalk rock	2	460	Sand	108	838
Lime	15	475	Well BB-40-03-802		
Sandy shale	5	480	Owner: Texas Parks and Wildlife Department		
Sand	10	490	Driller: Watts Drilling Co.		
Sandy shale	20	510	Lime and caliche	45	45
Water sand	7	517	Lime	75	120
Rock	4	521	Lime and blue shale	180	300
Sandy shale	5	526	Sand	20	320
Sand	10	536	Lime	360	680
Shale	14	550	Sand	10	690
			Lime and shale	20	710

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-03-802—Continued			Well BB-40-04-801—Continued		
Sand			Black shale	40	400
Red clay			Hard sand	10	410
Sand			Glen Rose lime	312	722
Well BB-40-03-901			Hard black shale	78	800
Owner: Texas Highway Department			Sandy lime	40	840
Driller: Watts Drilling Co.			Hard lime	20	860
Topsoil	3	3	First Trinity sand	40	900
Shell rock	8	11	Red bed shale	100	1,000
Blue lime	19	30	Red bed red sand	20	1,020
Hard gray lime	15	45	Red sand and shale	95	1,115
Blue shale	3	48	Hard black shale	5	1,120
Hard blue lime	12	60	Well BB-40-04-802		
Blue shale and lime	49	109	Owner: N. P. Powell Ranch		
Lime	361	470	Driller: J. L. Myers Sons		
Lime and blue shale	30	500	Clay	2	2
Sand	5	505	Rock	376	378
Lime and blue shale	27	532	Sand	18	396
Trinity water sand	38	570	Rock	19	415
Well BB-40-04-403			Lime	400	815
Owner: N. P. Powell Ranch			Broken sand	45	860
Driller: J. L. Myers Sons			Sand	58	918
Surface soil	2	2	Red bed	30	948
Rock	38	40	Sand with streaks of shale	46	994
Lime	312	352	Sand	98	1,092
Sand	19	371	Broken lime	38	1,130
Lime	373	764	Well BB-40-04-803		
Sandy lime	57	801	Owner: N. P. Powell Ranch		
Sand	61	862	Driller: J. L. Myers Sons		
Red bed	24	886	Surface soil	3	3
Sand and shale	15	901	Rock	9	12
Lime	35	936	Lime	327	339
Well BB-40-04-801			Lime and streaks of shale	18	357
Owner: N. P. Powell Ranch			Fine sand	18	375
Driller: Hervey Meadows and Son Well Driller			Lime	231	606
Soil	1	1	Sandy lime	91	697
Rock	16	17	Lime	22	719
Blue rock	83	100	Lime and streaks of sand	11	730
White lime	260	360	Sand	80	810

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-04-803--Continued			Well BB-40-05-701		
Rock	8	818	Owner: Ronnie Jones Driller: J. L. Myers Sons		
Red bed	22	840	Rock	126	126
Hard sand	14	854	Lime	274	400
Lime and streaks of sand	22	876	Sand	8	408
Red bed	26	902	Lime	454	862
Sand	36	938	Sandy lime	28	890
Lime and streaks of shale	33	971	Lime	4	894
Well BB-40-05-301			Sand	18	912
Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.			Red bed	36	948
Topsoil and clay	3	3	Green shale	13	961
Lime	117	120	Lime	9	970
Lime and blue shale	140	260	Rock	3	973
Lime gravel and sand	25	285	Red bed	19	992
Lime and blue shale	455	740	Shale and streaks of sand	36	1,028
Gravel and sand	10	750	Sand	55	1,083
Red clay	175	925	Hard rock	3	1,086
Sand-water bearing	52	977	Sand	21	1,107
Well BB-40-05-401			Well BB-40-05-704		
Owner: James Walker Driller: Iredell Drilling			Owner: N. P. Powell Ranch Driller: J. L. Myers Sons		
Topsoil	10	10	Surface soil	1	1
Surface rock	5	15	Rock	264	265
Limestone	35	50	Lime	631	896
Blue shale	35	85	Sand	42	938
Limestone	5	90	Red bed	24	962
Blue shale	5	95	Sand and shale	23	985
Blue rock	5	100	Red bed	15	1,000
Blue shale	25	125	Hard sand and shale	105	1,105
Lime and blue shale	50	175	Streaks shale and sand	60	1,165
Sandy shale and water	35	210	Rock	22	1,187
Lime	25	235	Well BB-40-05-905		
Lime and sandy shale	55	290	Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.		
Lime solid	150	440	Yellow lime	6	6
Brown lime and blue shale	230	670	White lime	12	18
Trinity sand	21	691	Gray lime	130	148

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-05-905—Continued			Well BB-40-10-802—Continued		
Shale and lime	41	189	Fine sand	12	620
Lime	89	278	Red shale	7	627
Sand and shale	44	322			
Lime and shale	500	822	Well BB-40-11-401		
Red bed	88	910	Owner: J. Bruce Parks Driller: Clarence Erickson		
Sand and gravel	170	1,080	Yellow clay and gravel	20	20
Shale	20	1,100	Hard shell rock	30	50
			Blue gumbo	10	60
Well BB-40-10-802			Paluxy sand	20	80
Owner: City of Cranfills Gap Driller: R. A. Adams and Son			Very hard lime	15	95
Yellow clay	45	45	Blue shale	3	98
Blue gumbo	55	100	Hard gray lime	302	400
Blue lime and gumbo streaks	10	110	Blue shale	15	415
Blue lime	30	140	Green sandy shale	20	435
Gray lime	30	170	Trinity sand and water	35	470
Blue shale	12	182	Red clay	5	475
Blue lime and shale streaks	10	192	Red rock	3	478
Paluxy sand - water	28	220			
Glen Rose lime	3	223	Well BB-40-11-402		
Glen Rose lime (hard)	167	390	Owner: Clarence Fields Driller: Clarence Erickson		
Lime and shale streaks	7	397	Yellow clay	35	35
Hard lime	8	405	Blue soapstone	2	37
Soft lime	2	407	Sandy clay	10	47
Lime	73	480	White rock and clay	4	51
Green shale and lime streaks	7	487	Sand rock	9	60
Soft sticky lime	28	515	Paluxy sand	18	78
Blue shale	8	523	Rock	12	90
Hard lime	7	530	Blue shale	2	92
Black shale	5	535	Very hard rock	18	110
Sandy lime	10	545			
Sandy shale	5	550	Well BB-40-12-101		
Hard sand	7	557	Owner: Mildred Hogstel Driller: Clarence Erickson		
Green shale	10	567	Coarse gravel	26	26
Hard sand rock	7	574	Blue shale	8	34
Beach sand and water	16	590	Hard white rock	46	80
Hard sand rock	5	595	Blue gumbo	10	90
No record	2	597	Hard blue shell	5	95
Trinity sand, gravel and water	11	608	Sandy blue shale	13	108

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-12-101—Continued			Well BB-40-12-802		
Green sand	2	110	Owner: City of Clifton Driller: E. E. Erickson		
Paluxy sand (lots of water)	18	128	Gravel	30	30
White lime rock	2	230	Blue shale or soapstone	12	42
Well BB-40-12-703			Lime	40	82
Owner: City of Clifton Driller: J. L. Myers Sons			Blue shale	4	86
Lime	115	115	Hard lime	12	98
Broken lime	133	248	Blue shale	10	108
Walnut shell bed	15	263	Hard caprock	2	110
Hard sandrock	2	265	Green sand	4	114
Sandy shale	31	296	Paluxy sand (lots of water)	18	132
Lime	116	412	Gumbo	5	137
Broken lime	48	460	White lime	60	197
Lime	242	702	Honeycomb lime (more water)	15	212
Broken lime	31	733	White lime with a few breaks	338	550
Sand	31	764	Very hard lime	11	561
Broken sand	12	776	Shale and gumbo	26	587
Red bed	46	822	Black gumbo	3	590
Sand	18	840	Hard caprock	3	593
Broken sand	20	860	Green shale and green sand	7	600
Sand	22	882	Sand (flowing lots of water)	46	646
Broken sand	30	912	Well BB-40-12-803		
Sand	24	936	Owner: City of Clifton Driller: E. E. Erickson		
Shale	6	942	Gravel	35	35
Well BB-40-12-704			Rock	55	90
Owner: W. L. Gauntt Driller: Frank Baker Place			Black gumbo	3	93
Yellow clay	40	40	Green shale	2	95
Blue rock	215	255	Paluxy sand	25	120
White rock	15	270	Black gum	3	123
Soapstone	45	315	Rock	15	138
Paluxy sand	10	325	Black gum	2	140
Black shale	15	340	Lime rock	43	183
Lime rock	430	770	Honeycomb lime	4	187
Green shale	5	775	Lime rock	343	530
Hard sand	5	780	Shale and gravel sand	10	540
Trinity sand	32	812	Green shale	28	568
			Shale and sand	2	570

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-12-803—Continued			Well BB-40-12-805—Continued		
Caprock	—	—	Lime	40	82
Trinity sand	40	610	Blue shale	4	86
Green shale	10	620	Hard lime	12	98
White and red clay	2	622	Blue shale	10	108
Red rock	56	678	Hard caprock	2	110
Water sand	8	686	Green sand	4	114
Shale and gray gum	12	698	Paluxy sand (lots of water)	18	132
Well BB-40-12-804			Gumbo	5	137
Owner: City of Clifton			White lime	60	197
Driller: Clarence Erickson			Honeycomb lime (more water)	15	212
Gravel	35	35	White lime with a few breaks	338	550
Blue rock	55	90	Very hard lime	11	561
Black gumbo	4	94	Shale and gumbo	26	587
Green gumbo	2	96	Black gumbo	3	590
Paluxy sand and water	25	121	Hard caprock	3	593
Black shale	3	124	Green shale and sand	7	600
White rock	13	137	Trinity sand (lots of water)	46	646
Black gumbo	2	139	Red bed	10	656
Hard rock	1	140	Sand	131	787
Hard lime	160	300	Well BB-40-13-301		
Green shale	10	310	Owner: Lake Whitney Enterprises		
White rock	90	400	Driller: J. L. Myers Sons		
Granite lime	27	427	Rock	151	151
Gray lime	103	530	Lime	51	202
Granite	20	550	Broken lime	160	362
Green gumbo	25	575	Lime	2	364
Coarse sand Trinity water	40	615	Sand	17	381
Green gumbo	2	617	Hard lime - sand	127	508
Hard brown lime	5	622	Sandy lime	245	753
Hard brown lime	4	626	Lime	127	880
Green and white clay	2	628	Sand	18	898
Red gumbo and red rock	56	684	Mixed shale	75	973
Coarse sand and water	13	697	Sandy shale	41	1,014
Gray and black shale	5	702	Sand	19	1,033
Well BB-40-12-805			Hard sand	25	1,058
Owner: City of Clifton			Sand	89	1,147
Driller: Clarence Erickson			Lime	26	1,173
Gravel	30	30			
Blue shale or soapstone	12	42			

Table 3.--Drillers' Logs of Selected Wells in Bosque County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-13-303			Well BB-40-19-402--Continued		
Owner: Lake Whitney Enterprises Driller: J. L. Myers Sons			Shell rock	145	185
Surface	1	1	Broken shell rock and shale	30	215
Lime	174	175	Sandy shale	5	220
Lime and shale	171	346	Sand	5	225
Sand	21	367	Sandy shale	15	240
Lime	467	834	Lime rock	372	612
Sand	48	882	Sand	20	632
Lime and shale	196	1,078	Sandy shale	6	638
Sand	64	1,142	Sand	55	693
Well BB-40-13-801			Red bed	77	770
Owner: A. R. Bearden Driller: Frank Baker Place			Sand	10	780
Soil and yellow clay	37	37	Shaly sand	30	810
Blue rock	118	155	Sand	20	830
White lime	60	215	Brown shale	5	835
Blue shale and lime	160	375	Sand	5	840
White lime	15	390	Yellow shale	15	855
Blue shale and soapstone	60	450	Well BB-40-20-303		
Paluxy sand	15	465	Owner: A. L. Haster Driller: Frank Baker Place		
Black shale	5	470	Soil and yellow clay	24	24
Glen Rose lime	430	900	Blue rock	201	225
Sandy lime	50	950	White rock	20	245
Trinity sand	50	1,000	Blue shale and soapstone	50	295
Well BB-40-18-303			Paluxy sand	25	320
Owner: Artesian Water Co. Driller: J. L. Myers Sons			Black shale	2	322
Soil	2	2	Glen Rose lime	393	715
Clay	10	12	Blue shale	5	720
Rock with shale streaks	134	146	Glen Rose lime	56	776
Limestone	386	532	Hard sand	14	790
Broken sand and shale	5	537	Soft sand (Trinity)	25	815
Sand with rock streaks	33	570	Well BB-40-20-703		
Shale	5	575	Owner: Mosheim Water Supply Corp. Driller: Hervey Meadows and Son Well Driller		
Well BB-40-19-402			Soil	1	1
Owner: Mrs. George Adams Driller: C. M. Stoner Drilling Co.			Rock and clay	4	5
Soil	2	2	Yellow clay	2	7
White rock	38	40	White rock	22	29
			Blue rock	6	35
			Edwards limestone (fossils)	305	340

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-20-703—Continued			Well BB-40-21-202—Continued		
Shale	320	660	Broken white lime and blue shale	190	300
Glen Rose limestone	20	680	Paluxy sand	25	325
Sand and shale	20	700	Black shale	2	327
Glen Rose limestone and fine sand	97	797			
Top of first Trinity	53	850			
Sand and black shale	6	856			
			Well BB-40-21-702		
			Owner: City of Valley Mills Driller: Frank Baker Place		
			Soil and Clay	25	25
			Blue rock	62	87
			Blue shale	33	120
			Gray lime	44	164
			Soapstone	44	208
			Paluxy sand	12	220
			Dark shale	8	228
			Gray lime	238	466
			Blue shale	14	480
			White lime	225	705
			Green shale	3	708
			Hard sand (Trinity)	32	740
			Soft sand	20	760
			Red bed (hard)	1	761
Well BB-40-20-901					
Owner: Fred Billings Driller: Frank Baker Place					
Soil and yellow clay	16	16			
Blue shale	94	110			
White lime	20	130			
Blue shale and soapstone	35	165			
Paluxy sand	40	205			
White lime	90	295			
Porous (water)	5	300			
White lime	10	310			
Well BB-40-21-202					
Owner: Edwin McMillan Driller: Frank Baker Place					
Soil and yellow clay	19	19			
Blue rock	91	110			

BOSQUE COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
Well BB-32-58-401		Well BB-32-59-501—Continued		Well BB-32-61-703		
Owner: Flat Top Ranch		June 30, 1967	94.00	Owner: Lakeside Water Supply District		
Mar. 22, 1966	37.22	Aug. 15, 1967	91.85	Feb. 1964	25	
Mar. 15, 1968	35.48	Sept. 14, 1967	90.87	Mar. 30, 1966	33.10	
Mar. 20, 1969	36.60	Oct. 11, 1967	92.30	Mar. 20, 1967	35.68	
Well BB-32-58-502		Nov. 14, 1967	90.66	Mar. 15, 1968	35.46	
Owner: Flat Top Ranch		Dec. 12, 1967	88.24	Mar. 7, 1969	39.40	
Mar. 22, 1966	220	Jan. 17, 1968	87.43	Well BB-40-01-302		
Mar. 21, 1967	248.82	Feb. 9, 1968	87.01	Owner: O. H. McGavock		
May 3, 1967	249.10	Mar. 14, 1968	85.84	Mar. 21, 1966	120.76	
Mar. 15, 1968	251.52	Mar. 20, 1969	88.70	Mar. 21, 1967	123.12	
Mar. 20, 1969	253.60	Well BB-32-60-602		Mar. 14, 1968	124.09	
Well BB-32-59-401		Owner: Kopperl Deep Well Co.		Mar. 19, 1969	126.10	
Owner: City of Walnut Springs		Feb. 10, 1943	+ 12	Well BB-40-03-601		
Feb. 10, 1943	140	Mar. 23, 1966	1.71	Owner: City of Meridian		
Mar. 15, 1968	211.4	Mar. 30, 1966	2.10	Mar. 1949	65	
Well BB-32-59-501		Mar. 20, 1967	3.60	Dec. 1964	261.0	
Owner: Earl C. Morrison		Mar. 15, 1968	6.07	Oct. 27, 1966	139.95	
May 4, 1960	82	Mar. 7, 1969	9.20	Dec. 30, 1966	121.02	
Dec. 31, 1964	90.60	Well BB-32-60-701		Feb. 7, 1967	117.25	
Mar. 30, 1966	86.95	Owner: City of Morgan		Mar. 16, 1967	118.48	
Aug. 31, 1966	77.92	Feb. 10, 1943	98	May 3, 1967	118.26	
Sept. 28, 1966	86.19	Mar. 29, 1960	126.80	Nov. 16, 1967	136.46	
Oct. 27, 1966	85.82	Aug. 21, 1967	160.9	Dec. 12, 1967	133.38	
Nov. 29, 1966	86.59	Mar. 15, 1968	153.85	Jan. 17, 1968	124.00	
Feb. 9, 1967	88.39	Mar. 20, 1969	162.95	Feb. 9, 1968	121.88	
Mar. 16, 1967	90.64				Mar. 14, 1968	121.25
May 3, 1967	88.04					
June 6, 1967	89.23					

Table 4.—Water Levels in Selected Wells in Bosque County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well BB-40-04-801		Well BB-40-10-801—Continued		Well BB-40-14-508	
Owner: N. P. Powell Ranch		Mar. 20, 1967	291.1	Owner: G. J. Roberts	
Jan. 10, 1967	230.3	Mar. 14, 1968	295.21	Mar. 23, 1966	5.90
Mar. 18, 1968	223.79	Mar. 19, 1969	298.10	Mar. 21, 1967	18.80
Mar. 20, 1969	234.80			Mar. 18, 1968	15.70
Well BB-40-05-701		Well BB-40-11-401		Mar. 20, 1969	16.60
Owner: Ronnie Jones		Owner: J. Bruce Parks			
Mar. 12, 1954	152	Mar. 26, 1964	130	Well BB-40-14-701	
Mar. 15, 1965	225.30	Mar. 21, 1966	107.24	Owner: E. S. Dorman	
Mar. 22, 1966	231.88	Sept. 28, 1966	130.67	Apr. 6, 1960	123
Mar. 20, 1967	237.23	Oct. 27, 1966	120.60	Mar. 22, 1966	128.45
Mar. 15, 1968	243.25	Nov. 29, 1966	108.8	Apr. 20, 1967	126.55
Mar. 20, 1969	249.30	Dec. 30, 1966	136.6	Well BB-40-14-702	
Well BB-40-05-903		Feb. 8, 1967	126.30	Owner: E. S. Dorman	
Owner: J. W. Murtishaw		Mar. 16, 1967	151.3	Apr. 6, 1960	108.00
Feb. 1958	55	May 3, 1967	126.94	Mar. 22, 1966	141.41
Oct. 7, 1964	80	June 6, 1967	145.48	Apr. 20, 1967	184.25
Mar. 22, 1966	74.81	June 29, 1967	160.9	Mar. 18, 1968	149.77
Mar. 20, 1967	83.25	Aug. 15, 1967	152.00	Mar. 20, 1969	157.20
Well BB-40-05-904		Sept. 14, 1967	121.03	Well BB-40-19-201	
Owner: U.S. Army Corps of Engineers		Oct. 11, 1967	116.29	Owner: O. E. Pierson	
Mar. 23, 1966	38.38	Nov. 14, 1967	131.79	Apr. 19, 1960	79
Mar. 20, 1967	42.49	Dec. 12, 1967	127.62	Mar. 17, 1966	67.25
Mar. 18, 1968	44.16	Jan. 17, 1968	124.06	Mar. 17, 1967	71.99
Dec. 4, 1968	50.35	Feb. 6, 1968	117.80	Mar. 19, 1969	71.80
Mar. 7, 1969	50.45	Mar. 19, 1969	121.80	Well BB-40-20-301	
Well BB-40-10-801		Well BB-40-12-805		Owner: Charlie Thiele	
Owner: City of Cranfills Gap		Owner: City of Clifton		May 6, 1960	32
Mar. 10, 1962	346	Sept. 17, 1948	27	Mar. 17, 1966	62.61
Mar. 10, 1962	352.25	Feb. 10, 1965	77.00	Mar. 19, 1969	79.02
Apr. 24, 1964	130	Mar. 17, 1966	96.00		
Mar. 17, 1964	288.45	Mar. 21, 1967	94.22		
		Mar. 15, 1968	94.39		
		Mar. 19, 1969	95.50		

Table 4.—Water Levels in Selected Wells in Bosque County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
Well BB-40-20-602		Well BB-40-21-701—Continued		Well BB-40-21-702		
Owner: H. E. Prosser		Aug. 1951	19	Owner: City of Valley Mills		
Oct. 6, 1964	95	Mar. 1952	21	Aug. 15, 1955	46	
Mar. 17, 1966	101.07	Sept. 1952	21	Sept. 9, 1955	36	
Mar. 17, 1967	105.63	Aug. 1956	53	Oct. 28, 1955	36	
Mar. 14, 1968	110.58		1957	39	Dec. 8, 1955	36
Well BB-40-21-701		Jan. 11, 1965	82.90	Jan. 10, 1965	83.35	
Owner: City of Valley Mills		Mar. 17, 1966	100.61	Jan. 11, 1965	82.98	
1941	+ 8	Mar. 17, 1967	94.49	Mar. 17, 1966	77.40	
Oct. 1947	8	Mar. 14, 1968	100.77	Mar. 17, 1967	97.88	
Mar. 17, 1949	6	Mar. 20, 1969	113.20	Mar. 14, 1968	92.12	
				Mar. 20, 1969	94.80	

BOSQUIN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Frederickburg Group; Kp, Paluxy Formation; Kqr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Kbe, Bensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEAR-INC UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
y BU-32-59-401	540	Feb. 19, 1943	Khe	11	0.04	39	32	* 66	--	370	36	16	0.4	0.0	--	371	--	229	39	--	8.2	1.9
	401	Oct. 29, 1956	do.	--	.16	42	31	55	--	359	43	13	.3	< .4	--	388	362	235	34	--	7.5	1.7
	402	611, Sept. 29, 1949	do.	15	.24	39	30	* 74	--	368	41	28	.3	< .4	--	378	409	201	42	--	7.7	2.2
	402	611, Oct. 29, 1956	do.	--	.64	36	31	56	--	355	35	11	.2	< .4	--	370	345	220	36	--	7.3	1.7
y	402	611, Mar. 28, 1960	do.	15	.74	36	31	* 63.6	--	362	35	12	.4	.0	--	371	--	218	39	631	7.2	1.9
	402	611, Oct. 6, 1966	do.	--	.08	36	32	60	--	361	29	24	.4	< .4	--	540	360	222	37	680	7.7	1.8
y	501	146, May 4, 1960	Kp	13	8.8	46	29	* 60	--	379	17	22	.1	6.8	--	386	--	234	36	678	7.0	1.7
y	60-602	760, Feb. 10, 1943	Ktp	11	.26	6	3.3	* 178	--	376	70	14	.3	.0	--	468	--	28	93	--	8.4	14.3
y	701	675, Mar. 29, 1960	Khe	14	.81	20	16	* 123.4	--	368	58	12	.4	.8	--	426	--	116	70	721	7.3	5.0
	701	675, Apr. 11, 1960	do.	--	.14	20	18	108	--	361	50	14	.1	< .4	--	413	389	125	65	688	8.0	4.2
y	702	760, Feb. 10, 1943	Ktp	11	.05	23	14	* 124	--	371	45	12	.4	.2	--	414	--	115	70	--	8.3	5.0
y	61-701	490-570, Apr. 27, 1960	do.	12	--	4.2	4.2	* 225	--	401	156	18	--	.0	--	616	--	28	95	985	8.0	18.5
y	701	680-730-825, do.	do.	12	--	2.5	1.9	* 198	--	391	75	32	--	.0	--	513	--	14	97	840	8.2	23.3
y	707	813, May 30, 1962	Khe	--	--	5	2	178	--	268	92	22	--	--	--	580	431	18	95	--	7.7	16.8
y	40-02-101	325, Apr. 12, 1960	do.	15	1.1	46	33	* 55.1	--	355	42	18	.4	.8	0.16	385	--	250	32	652	7.2	1.5
y	102	335, Feb. 10, 1943	do.	14	.12	44	32	* 60	--	362	42	16	.2	.0	--	388	--	242	35	--	8.4	1.7
	105	326, Sept. 19, 1968	do.	15	> .02	48	30	50	--	359	41	19	.4	< .4	--	380	--	245	31	650	7.5	1.4
y	03-601	759, Mar. 17, 1949	Kho	15	.0	14	8.4	* 154	--	372	52	26	.6	1.8	.17	457	--	70	83	723	8.4	8.0
	601	759, Sept. 3, 1963	do.	--	> .02	14	9	139	--	372	45	25	.3	< .4	--	600	415	71	81	753	8.3	7.1
	602	725, Feb. 19, 1938	Ktp	13	.24	18	10	* 146	--	388	53	25	.1	< .3	--	447	--	88	79	--	7.8	6.8
y	602	725, Feb. 9, 1943	do.	15	4.2	114	16	* 128	--	402	199	56	.2	.0	--	735	--	350	44	--	7.6	3.0
	603	838, Sept. 3, 1963	Kho	--	.08	11	7	150	--	372	45	28	.2	< .4	--	610	425	55	85	756	8.0	8.7
	603	838, Dec. 20, 1967	do.	--	.04	13	9	146	--	375	41	27	.4	< .4	--	610	410	71	82	775	8.0	7.6

See footnotes at end of table.

BOSQIR COUNTY

Table 5.--Chemical Analyses of Water from Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
BE-40-03-802	910	Dec. 2, 1964	Kho	--	1.18	13	8	140	--	375	35	18	0.5	7	--	600	407	66	82	732	8.2	7.5	
	802	Aug. 19, 1965	do.	--	0.12	15	9	136	--	372	37	21	.4	3	--	590	405	75	80	740	8.3	6.9	
	901	Mar. 21, 1966	Khe	13	--	30	12	120	--	361	49	11	.3	1.5	--	405	--	102	72	662	8.0	5.2	
	04-402	Sept. 19, 1968	Kp	12	.16	2	1	172	--	400	27	15	.6	< .4	--	431	--	10	98	702	8.4	24.9	
	05-301	Mar. 22, 1963	Kho	--	3	5	1	219	--	282	111	88	.7	< .4	--	730	567	17	97	1,095	8.9	23.2	
y	701	1,107	Mar. 31, 1960	do.	14	--	2.8	1.5	* 201.6	--	385	83	35	.4	1	0.25	531	--	13	97	856	8.2	24.4
y	10-101	330	Apr. 19, 1960	Kp	14	--	24	13	* 151	--	351	90	39	.7	5.8	--	510	--	114	74	819	7.8	6.1
y	801	549	Feb. 10, 1943	Khe	8.8	.2	20	14	* 146	--	330	90	31	1.1	2	--	476	--	108	75	--	8.4	6.1
	801	549	Mar. 9, 1967	do.	--	.10	21	19	101	--	344	47	--	.6	< .4	--	550	358	128	63	--	--	3.9
y	802	627	Apr. 13, 1960	do.	14	.02	21	16	* 124.6	--	344	66	26	1	.0	.42	438	--	118	70	719	7.5	5.0
	11-401	478	Sept. 19, 1968	do.	9	.02	9	8	419	--	709	297	56	6.8	1	--	1,160	--	56	94	1,760	8.0	24.3
	402	110	Dec. 9, 1968	Kp	9	16.80	107	4	21	--	281	82	12	.3	< .4	--	373	391	284	14	584	7.3	0.5
y	12-101	130	Apr. 6, 1960	do.	10	--	2.2	2.1	* 272	--	532	122	21	4	3.2	--	698	--	14	98	1,100	8.0	32.0
y	301	433	Mar. 30, 1960	do.	8.8	--	73	31	* 264	--	328	420	120	1.6	5	--	1,090	--	310	65	1,640	7.5	6.5
	703	942	July 20, 1963	Kho	--	.14	3	1	192	--	403	63	22	.5	< .4	--	700	480	12	97	880	8.6	23.9
	703	942	Feb. 6, 1964	do.	--	.76	3	11	193	--	400	63	20	.5	< .4	--	690	489	11	89	884	8.8	11.5
	703	942	Feb. 12, 1965	do.	--	.06	3	1	198	--	411	54	21	.4	< .4	--	700	480	12	97	852	8.6	24.6
y	801	600	Apr. 19, 1960	Khe	9.8	--	17	14	* 570	--	512	784	61	6.3	1.8	--	1,720	--	100	93	2,520	7.8	24.8
y	802	646	Feb. 9, 1943	do.	13	.07	3.8	2.3	* 191.4	--	429	58	10	.5	.0	--	499	--	19	96	--	8.4	18.9
	803	698	Jan. 12, 1956	Khe, Kpe	12	.03	3	1	212	--	415	83	18	.6	< .4	--	515	534	12	98	--	8.5	26.3
y	803	698	--	do.	9.4	.70	4	2.2	204	--	447	73	14	.4	0	--	520	--	19	96	--	8.4	20.2
	805	787	Nov. 26, 1941	Kep, Kho	11	.06	7	3	* 194	--	384	55	28	.4	< .4	--	486	--	31	93	--	8.4	15.3
y	805	787	--	do.	11	.01	3.4	1	197	4.2	438	55	20	.0	.0	--	532	507	12	97	--	8.4	23.8
y	805	787	Feb. 9, 1943	do.	11	.01	3.4	1.9	* 199	--	414	56	21	.2	.0	--	496	--	16	96	--	8.4	21.1
	805	787	Jan. 12, 1956	do.	12	.03	3	1	208	--	415	75	25	.5	< .4	--	504	529	12	98	--	8.4	25.9
	13-301	1,173	Apr. 15, 1966	Kho	--	.02	3	--	204	--	403	72	27	.4	< .4	--	710	505	8	--	925	8.1	--
	303	1,142	do.	do.	--	< .02	3	1	204	--	383	69	27	.3	< .4	--	700	493	10	97	925	8.7	25.3
	801	1,000	Jan. 3, 1967	Khe	12	--	3	4	217	--	409	142	19	1	< .4	--	600	--	27	95	945	8.4	19.3
y	14-501	1,300	Apr. 26, 1960	Kep	12	.02	8	12	* 352	--	426	414	39	2	3	.97	1,050	--	70	92	1,620	7.8	18.2
	501	1,300	Jan. 3, 1966	do.	10	--	19	24	560	--	453	840	60	5.6	< .4	--	1,740	--	146	89	2,500	7.8	20.1
	508	1,262	Sept. 19, 1968	Khe	14	.16	5	4	274	--	443	215	36	1.8	< .4	--	770	--	30	95	1,181	8.3	22.1
y	701	450	Apr. 6, 1960	Kp	8.4	--	53	5.4	* 65	--	332	.0	16	--	.0	--	311	--	154	48	543	6.8	2.3

See footnotes at end of table.

BOSQUE COUNTY

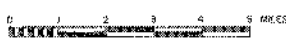
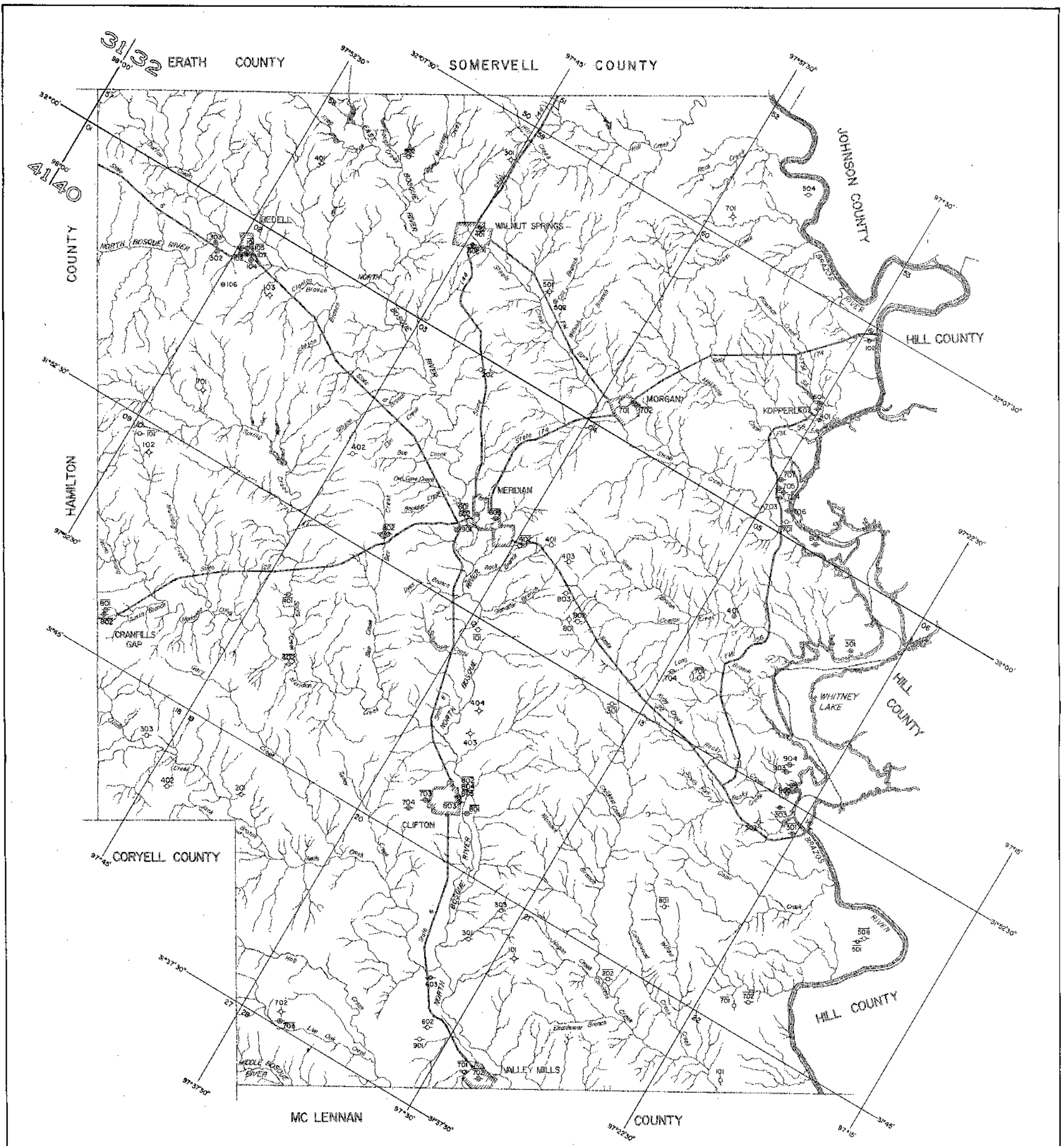
Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
702	1,010	Apr. 6, 1960	Khe	14	--	4	2.4	* 226	--	426	121	23	1.2	1	0.42	602	--	20	96	946	7.9	21.8
^{1/} 19-201	122	Apr. 19, 1960	Kp	9.6	--	11	7.5	* 455	--	513	458	95	5.8	2	--	1,300	--	58	94	1,950	7.6	25.7
^{4/} 20-703	856	June 16, 1966	Khe	--	--	2	2	210	--	415	80	23	--	--	.5	600	521	14	97	--	8.3	25.4
21-202	327	Dec. 6, 1968	Kp	9	--	49	37	1,220	--	630	2,060	215	5.6	< .4	--	3,910	--	274	91	4,980	8.0	32.0
701	962	Nov. 17, 1938	Ktp	14	0.04	5	3	* 221	--	421	88	39	< .4	< .4	--	570	--	25	95	--	8.5	19.2
^{1/} 701	962	Mar. 17, 1949	do.	12	.05	2.2	1.7	* 225	--	302	99	35	.6	1.2	.10	583	525	12	98	953	8.5	27.2
701	962	Oct. 5, 1950	do.	15	.12	8	5	* 216	--	390	92	39	.4	< .4	--	567	--	41	92	--	8.6	14.7
701	962	Mar. 8, 1957	do.	--	.32	2	2	244	--	421	98	32	.5	1.3	--	585	--	12	98	972	8.2	29.5
702	761	July 29, 1957	Khe	--	.02	4	3	220	--	428	79	20	1	< .4	--	525	537	21	96	875	8.2	19.9
702	761	Dec. 16, 1964	do.	--	.08	5	1	210	--	420	79	16	1	< .4	--	740	519	18	97	945	8.6	22.3

* Sodium and potassium calculated as sodium (Na)
 † Calcium and magnesium calculated as calcium (Ca)

LABORATORY CONDUCTING ANALYSIS:

- ^{1/} U.S. Geological Survey Laboratory
^{2/} Dallas Laboratories
^{3/} Laboratory unknown
^{4/} Trinity Testing Laboratories



Location of Selected Water, Oil, and Gas Wells in Bosque County

- EXPLANATION**
- Public supply well
 - Industrial well
 - Irrigation well
 - Domestic or livestock well
 - Oil or gas well
 - Unused or abandoned well
 - Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5

BROWN COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Ka, Woodbine Group; Kaa, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Fairy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Fearsall Member of the Travis Peak Formation; Khc, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BR-30-64-601	-- Rippy	--	--	40	24	--	Ka	1,701	28.9 26.70	Apr. 23, 1962 Mar. 11, 1969	N	N	Well used in 1967 Brown County report. Dug well with brick wall. Texas Water Development Board observation well. Abandoned. <u>2</u>
* 602	H. H. Lawson	--	1880	43	48	--	do.	1,701	33 29	Oct. 25, 1960 Apr. 23, 1962	J, E 1/2	D, S	Well used in 1967 Brown County report. Dug well. Temp. 64°F.
* 919	F. P. Clark	--	--	49	4	--	do.	1,594	20.6 21.49	May 1, 1962 Mar. 23, 1967	C, E	D, S	Well BR-31-57-712 in 1967 Brown County report. Texas Water Development Board observation well. <u>2</u>
31-57-405	Mrs. Greynolds	G. Greynolds	--	75.5	8	75.5	do.	1,635	27	May 2, 1963	C, W	S, Irr	Well used in 1967 Brown County report.
406	do.	do.	--	73.5	8	73.5	do.	1,635	21.7 14.00	May 2, 1963 Mar. 11, 1969	C, W	S, Irr	Well used in 1967 Brown County report. Texas Water Development Board observation well. <u>2</u>
* 520	A. M. Goss	Timmie Johnson	1954	155	7 --	118 153	do.	1,675	75 75	May 31, 1963 May 1967	Sub, E 3	D, S Irr	Well used in 1967 Brown County report. Well deepened from 115 to 155 ft in 1967. Slotted from 78 to 118 ft, and perforated from 113 to 153 ft. Pump set at 100 ft. Reported yield 90 gpm.
523	do.	--	--	116.2	6	--	do.	1,661	68.6 69.65	May 8, 1963 Mar. 11, 1969	C, W	S	Well used in 1967 Brown County report. Texas Water Development Board observation well. <u>2</u>
601	B. Richards	A. Turpin	--	100	5	100	do.	1,662	--	--	C, W	D, S	Well used in 1967 Brown County report.
805	Annie Lestex	--	--	32.4	48	32.4	do.	1,625	16.15 14.10	May 10, 1963 Mar. 11, 1969	C, E 1/2	D, S	Well used in 1967 Brown County report. Dug well with rock wall from 32.4 ft to surface. Texas Water Development Board observation well. <u>2</u>
914	Ben Moore	--	--	169	6	169	do.	1,707	139 136.80	May 29, 1963 May 11, 1969	C, G	S	Well used in 1967 Brown County report. Texas Water Development Board observation well. <u>2</u>
41-01-201	George Bean Estate	A. Turpin	--	85	5	--	Ktp	1,651	70 60.30	Oct. 26, 1960 Mar. 11, 1969	N	N	Well used in 1967 Brown County report. Texas Water Development Board observation well. Abandoned. <u>2</u>
234	May Water Supply Corp.	Curtis Alford Drilling and Well Service	1967	118	8	118	do.	1,650	65.82 66.10	Mar. 23, 1967 Mar. 11, 1969	Sub, E	P	Perforated from 70 to 100 ft. Reported yield 45 gpm. Gravel packed. Texas Water Development Board observation well. <u>1</u> <u>2</u>
308	D. L. Wagon	--	--	200	5	200	do.	1,755	100	May 31, 1963	C, W	S	Well used in 1967 Brown County report.
* 402	Marshall Crume	--	--	33	5	33	do.	1,590	23	Apr. 19, 1963	C, W	D, S	Do.
514	Anna Lee Yocs	--	--	175	5	175	do.	1,708	125	Apr. 9, 1963	C, W	D, S	Well used in 1967 Brown County report. Reported caved since drilled.

See footnotes at end of table.

BROWN COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BR-41-01-918	Claude McInnis	--	--	135	5	135	Ktp	1,675	45 107.20	Mar. 29, 1963 Mar. 11, 1969	C, E 1/2	D, S	Well used in 1967 Brown County report. Texas Water Development Board observation well. ^{2/}
* 02-108	W. D. Henderson	--	--	165	5	165	do.	1,670	60	Apr. 6, 1963	C, W	D, S	Well used in 1967 Brown County report.
* 805	James Hutchings	--	1945	135	5	135	Kp	1,762	119.6 108.7	Feb. 14, 1963 Mar. 22, 1968	C, W	S	Well used in 1967 Brown County report. Texas Water Development Board observation well. ^{2/}
* 09-303	A. G. Wilkinson	--	--	102	5	102	Ktp	1,600	74.5 78.40	Mar. 9, 1963 Mar. 12, 1969	C, W	D, S	Do.
* 10-424	Wayne Furry	George Bolton	1964	110	7	110	do.	1,535	67.48	July 6, 1965	Sub, E 5	Irr	Perforated from 65 to 110 ft. Pump set at 100 ft. Reported yield 125 gpm. Gravel packed. Temp. 68°F.
* 602	City of Blount	do.	1957	250	6	250	do.	1,657	200	Feb. 22, 1963	Sub, E 2	P	Well used in 1967 Brown County report.
* 603	do.	Elmer Simpson	--	180	6	180	Xhe	1,640	160 171.57	Feb. 22, 1963 May 8, 1968	Sub, R 1	P	Do.
* 604	do.	Tatum Drilling Co.	--	196	6	196	Ktp	1,628	176	Feb. 22, 1963	C, E 2	N	Do.
639	do.	Robert M. Virdell	1963	207	7 1	207 --	do.	1,623	160 154.83	Oct. 8, 1964 Mar. 12, 1969	Sub, E 1 1/2	P	Pump set at 190 ft. Reported yield 10 gpm. Texas Water Development Board observation well. ^{2/}
* 725	W. S. Byrd	--	1954	139	5	139	do.	1,495	96	Jan. 16, 1963	C, W	S	Well used in 1967 Brown County report. Well was originally drilled as oil well.
* 903	W. J. Bettis	--	--	124	5	124	do.	1,550	76.7 71.30	Jan. 18, 1963 Mar. 12, 1969	C, W	D, S	Well used in 1967 Brown County report. Texas Water Development Board observation well. ^{2/}
* 11-721	Earl Stewart	--	--	120	5	120	Xhe	1,556	21.6 20.36	Feb. 9, 1963 Mar. 12, 1969	Sub, E	D, S	Well used in 1967 Brown County report. Texas Water Development Board observation well. ^{2/}
18-205	Joe Foster	--	--	181	5	181	Ktp	1,610	138.0 140.80	Jan. 3, 1963 Mar. 12, 1969	C, W	S	Do.
* 303	Carl Taylor	--	--	120	5	120	do.	1,530	50 78.02	Dec. 18, 1962 Mar. 12, 1969	C, W	D, S	Do.
* 620	A. R. Sikes	--	--	144	5	144	Jo.	1,462	41.5 5.00	Nov. 29, 1962 Mar. 12, 1969	C, W	D, S	Do.
810	Mrs. Zelma Locks	--	1905	110	5	110	do.	1,495	60	Nov. 15, 1962	C, W	D, S	Well used 1967 Brown County report.
* 930	Pete Sanchez	--	1953	143	5	143	Xho, P	1,419	69 94.25	Oct. 23, 1962 Mar. 12, 1969	C, W	D, S	Well used in 1967 Brown County report. Texas Water Development Board observation well. ^{2/}
19-110	C. R. Boase	--	--	189	5	189	Ktp	1,590	155.9 156.05	Dec. 21, 1962 Mar. 12, 1969	N	N	Well used in 1967 Brown County report. Texas Water Development Board observation well. Abandoned. ^{2/}
201	John Hovorak	--	--	174	5	174	Kp	1,721	100.6 53.30	Dec. 21, 1962 Mar. 12, 1969	C, E	S	Well used in 1967 Brown County report. Texas Water Development Board observation well. ^{2/}
411	C. R. Boase	--	--	160	5	160	Xhe	1,590	100	Jan. 9, 1963	C, W	N	Well used in 1967 Brown County report.

* For chemical analysis of water, see Table 5.

^{1/} For drillers' log of well, see Table 3.^{2/} For water-level measurements, see Table 4.

BROWN COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BR-31-57-530	Coastal States Gas Producing Co.	S. L. Rankin No. 1	1960	3,009	1,737	E
921	Coal Tullous and Co.	Ben Moore No. 1	—	1,394	1,755	S
41-02-401	C. W. Phayer	Ross No. 1	1950	2,833	1,850	E
19-132	Clarence F. Chang and Associates	Sallie Baker No. 1	1950	1,972	1,520	D

BROWN COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BR-41-01-234			Well BR-41-19-132—Continued		
Owner: May Water Supply Corp. Driller: Curtis Alford Drilling and Well Service			Shale and shell	80	430
Soil and caliche	5	5	Blue shale and sandy lime	42	472
Blue soapstone	15	20	Lime	3	475
Yellow and brown shale	13	33	Gray shale and black	45	520
Sandy (little water)	37	70	Lime shell	4	524
Sand	25	95	Sand slight salt water	68	592
Gravel and sand	5	100	Shale and shell	20	612
Soapstone, blue and gray	18	118	Sand and sand shale, salt water increase	68	68
Well BR-41-19-132			Dark shale with sandy streaks and lime shells	289	969
Owner: Sallie Baker Driller: Clarence F. Chang and Associates			Sandy lime and black shale	156	1,125
Surface clay	5	5	Lime	73	1,198
Blue shale	18	23	Sandy shale	51	1,249
Sandy lime	9	32	Sandy lime	11	1,260
Sand	19	51	Black shale	15	1,275
Lime and broken lime	54	105	Black slate	384	1,659
Shale	4	109	Shale and sandy lime	26	1,685
Fresh water sand	8	117	Lime black and brown	131	1,816
Red bed	41	158	Black slate and shells	84	1,900
Sandy lime	6	164	Sandy lime	10	1,910
Broken shale and sandy lime	186	350	Lime and chert	62	1,972

BROWN COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well BR-30-64-601		Well BR-31-57-805—Continued		Well BR-41-01-234	
	Owner: — Rippy	Mar. 23, 1967	16.36		Owner: May Water Supply Corp.
Apr. 23, 1962	28.9	Mar. 11, 1969	14.10	Mar. 23, 1967	65.82
Apr. 28, 1968	28.16	Well BR-31-57-914		Mar. 21, 1968	67.01
Mar. 23, 1967	27.78	Owner: Ben Moore		Mar. 11, 1969	66.10
Mar. 21, 1968	27.38	May 29, 1963	139	Well BR-41-01-918	
Mar. 11, 1969	26.70	Apr. 28, 1966	144.80	Owner: Claude McInnis	
Well BR-30-64-919		Mar. 23, 1967	145.2	Mar. 29, 1963	45
	Owner: F. P. Clark	Mar. 11, 1969	136.80	Mar. 23, 1967	105.71
May 1, 1962	20.6	Well BR-41-01-201		Mar. 11, 1969	107.20
Apr. 28, 1966	21.3	Owner: George Bean Estate		Well BR-41-02-805	
Mar. 23, 1967	21.49	Oct. 26, 1960	70	Owner: James Hutchings	
Well BR-31-57-406		Apr. 28, 1966	69.63	Feb. 14, 1963	119.6
	Owner: Mrs. Greynolds	Nov. 29, 1966	69.26	Apr. 28, 1966	113.21
May 2, 1963	21.7	Jan. 2, 1967	68.69	Mar. 23, 1967	122.9
Apr. 29, 1966	19.9	Feb. 8, 1967	69.57	Mar. 22, 1968	108.7
Mar. 23, 1967	19.41	Mar. 23, 1967	69.41	Well BR-41-09-303	
Mar. 11, 1969	14.00	May 4, 1967	69.36	Owner: A. G. Wilkinson	
Well BR-31-57-523		June 7, 1967	69.21	Mar. 9, 1963	74.5
	Owner: A. M. Goss	June 29, 1967	69.57	Apr. 28, 1966	78.8
May 8, 1963	68.6	Aug. 2, 1967	69.77	Mar. 23, 1967	73.26
Apr. 29, 1966	67.47	Sept. 11, 1967	70.12	Mar. 12, 1969	78.40
Mar. 23, 1967	67.43	Oct. 3, 1967	70.02	Well BR-41-10-639	
Mar. 21, 1968	67.18	Nov. 7, 1967	70.16	Owner: City of Blanket	
Mar. 11, 1969	69.65	Dec. 4, 1967	69.86	Oct. 8, 1964	160
Well BR-31-57-805		Jan. 3, 1968	69.87	Apr. 28, 1966	162.81
	Owner: Annie Lester	Feb. 5, 1968	69.79	Nov. 29, 1966	156.51
May 10, 1963	16.15	Mar. 11, 1969	60.30	Jan. 2, 1967	154.74
Apr. 28, 1966	15.77			Feb. 8, 1967	155.61

Table 4.—Water Levels in Selected Wells in Brown County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well BR-41-10-639—Continued		Well BR-41-11-721—Continued		Well BR-41-18-620	
Mar. 23, 1967	156.13	Mar. 23, 1967	23.44	Owner: A. R. Sikes	
May 4, 1967	155.09	Mar. 12, 1969	20.36	Nov. 29, 1962	41.5
Aug. 2, 1967	156.88	Well BR-41-18-205		Apr. 28, 1966	27.02
Sept. 13, 1967	155.96	Owner: Joe Foster		Mar. 12, 1969	5.00
Oct. 3, 1967	158.09	Jan. 3, 1963	138.0	Well BR-41-18-930	
Nov. 8, 1967	155.52	Apr. 28, 1966	137.84	Owner: Pete Sanchez	
Dec. 5, 1967	154.84	June 7, 1967	138.19	Oct. 23, 1962	69
Jan. 15, 1968	154.83	June 29, 1967	138.38	Mar. 23, 1967	85.63
Feb. 5, 1968	154.96	Aug. 2, 1967	139.31	Mar. 12, 1969	94.25
Mar. 22, 1968	155.73	Sept. 13, 1967	138.08	Well BR-41-19-110	
Mar. 12, 1969	154.83	Oct. 5, 1967	138.10	Owner: C. R. Boase	
Well BR-41-10-903		Dec. 5, 1967	138.45	Dec. 21, 1962	155.9
Owner: W. J. Bettis		Jan. 15, 1968	138.10	Apr. 28, 1966	155.68
Jan. 18, 1963	76.7	Feb. 5, 1968	137.87	Mar. 23, 1967	156.07
Apr. 28, 1966	79.8	Mar. 22, 1968	137.60	Mar. 12, 1969	156.05
Mar. 12, 1969	71.30	Mar. 12, 1969	140.80	Well BR-41-19-201	
Well BR-41-11-721		Well BR-41-18-303		Owner: John Hovorak	
Owner: Earl Stewart		Owner: Carl Taylor		Dec. 21, 1962	100.6
Feb. 9, 1963	21.6	Dec. 18, 1962	50	Apr. 28, 1966	136.56
Apr. 28, 1966	20.91	Apr. 28, 1966	80.03	Mar. 23, 1967	138.40
		Mar. 12, 1969	78.02	Mar. 22, 1968	48.3
				Mar. 12, 1969	53.30

BROWN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kw, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgt, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hansell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Khs, Hoston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids: "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1) BR-30-64-601	40	Dec. 1, 1937	Ka	--	--	147	11	* 180	--	433	61	245	--	49.0	--	686	906	412	49	--	--	3.9
1)	602	Apr. 23, 1962	do.	17	--	318	17	* 20	--	262	43	130	--	576	--	1,117	1,250	864	5	864	6.8	0.3
	602	Mar. 14, 1969	do.	20	--	750	72	75	--	195	128	292	0.4	2,058	--	3,490	--	2,160	7	4,090	7.2	.7
2)	919	May 1, 1962	do.	16	--	180	99	* 131	--	464	65	488	.8	2.5	--	974	1,210	856	25	2,220	7.0	1.9
	31-57-520	May 31, 1963	do.	14	--	155	66	96	--	425	63	296	.3	18.0	--	1,130	917	660	24	1,690	7.2	1.6
	520	July 23, 1968	do.	--	--	--	--	--	3.0	--	--	--	--	0.4	--	--	--	--	--	--	--	--
	41-01-402	Apr. 9, 1963	Ktp	42	--	200	51	260	--	530	211	409	1.0	9.0	--	1,710	1,448	710	44	2,390	7.3	4.3
3)	918	Mar. 28, 1963	do.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,229	--	--
	02-108	Apr. 8, 1963	do.	16	--	76	52	330	--	398	54	57	.6	9.0	--	700	791	401	66	862	7.6	7.1
3)	805	Feb. 14, 1963	Kp	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	735	--	--
	09-303	Mar. 19, 1963	Ktp	14	--	77	57	41	--	409	111	46	.7	.4	--	760	548	427	17	930	7.9	.9
	10-424	July 6, 1965	do.	13	--	100	57	43	--	418	113	61	.7	7.0	--	830	621	484	16	1,035	7.3	.9
	424	July 23, 1968	do.	--	--	--	--	--	5.0	--	--	--	--	--	.3	--	--	--	--	--	--	--
	602	Feb. 20, 1963	do.	14	--	58	82	41	--	397	130	71	.5	2.0	--	796	594	484	16	1,030	7.6	.8
	603	do.	Khe	14	--	98	73	59	--	398	147	119	.4	17.0	--	925	723	544	19	1,250	7.5	1.1
3)	604	do.	Ktp	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	931	--	--
	725	Jan. 16, 1963	do.	14	--	70	45	286	--	301	158	405	.5	2.0	--	1,281	1,129	362	63	2,000	7.7	6.6
	903	Jan. 18, 1963	do.	12	--	68	58	202	--	447	257	157	1.0	2.9	--	1,205	978	410	52	1,600	7.6	4.4
	11-721	Feb. 2, 1963	Khe	18	--	95	43	58	--	346	98	106	.7	3.0	--	768	592	414	23	1,033	7.6	1.2
	18-303	Dec. 4, 1962	Ktp	17	--	58	57	51	--	434	52	44	1.0	7.0	--	721	500	379	23	872	7.7	1.1
	620	Nov. 29, 1962	do.	11	--	28	23	345	--	580	133	190	1.8	2.9	--	1,314	1,020	166	82	1,756	7.2	11.7
	930	Oct. 19, 1962	Khe, P	16	--	62	57	11	--	455	11	15	.1	6.0	--	631	400	388	6	680	7.6	.2

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

- 1) The University of Texas
- 2) U.S. Geological Survey Laboratory
- 3) Laboratory unknown

BROWN COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
Pennsylvanian ^a	Strawn sand	Regular	490	K-12	1,000	340	11,200*	244	Trace	20,000	—	6.4
Do. ^a	do.	do.	490	K-12	1,000	340	8,940*	268	Trace	16,400	—	6.6
Do. ^a	do.	do.	600	K-12	1,160	535	8,350*	207	Trace	16,400	—	6.6
Do. ^a	do.	do.	1,213	P-4	2,480	826	14,000*	37	Trace	28,400	—	5.6
Do. ^b	Blake sand	Blake No. 1	1,100	P-4	4,300	1,455	18,500	558	427	40,000	—	6.0
Do. ^b	Caddo	Cross Cut	2,131	P-4	5,940	3,140	31,800	132	49	67,500	—	7.1
Do. ^b	Marble Falls	Hafner	2,400	P-4	8,030	1,855	30,250	150	229	66,100	—	6.3
Do. ^b	Cross Cut sand	Caruth No. 2	1,200	P-4	2,350	793	18,800	297	4	35,300	—	6.9
Do. ^b	do.	Regular	—	?	3,120	1,680	20,720	605	90	42,500	68,000	6.5
Do. ^b	do.	do.	—	?	4,800	1,824	23,710	149	10	50,500	80,830	6.7
Do. ^b	do.	do.	—	?	6,370	1,520	27,500	155	—	58,000	105,500	6.4
Do. ^b	Fry sand	do.	—	?	7,330	1,890	30,000	150	100	64,000	95,000	6.7
Do. ^b	do.	Smith-Lewis	—	P-5	7,440	830	26,400	207	380	56,000	91,260	6.1
Ordovician ^b	Ellenberger	Regular	—	?	1,000	336	16,350	378	40	28,000	45,690	7.3
Do. ^b	do.	do.	—	?	1,055	285	14,250	495	125	24,300	42,300	6.8
Cambrian ^b	Cambrian	Regular	—	?	2,600	672	31,890	44	250	55,500	90,410	6.1

* Indicates sodium and potassium.

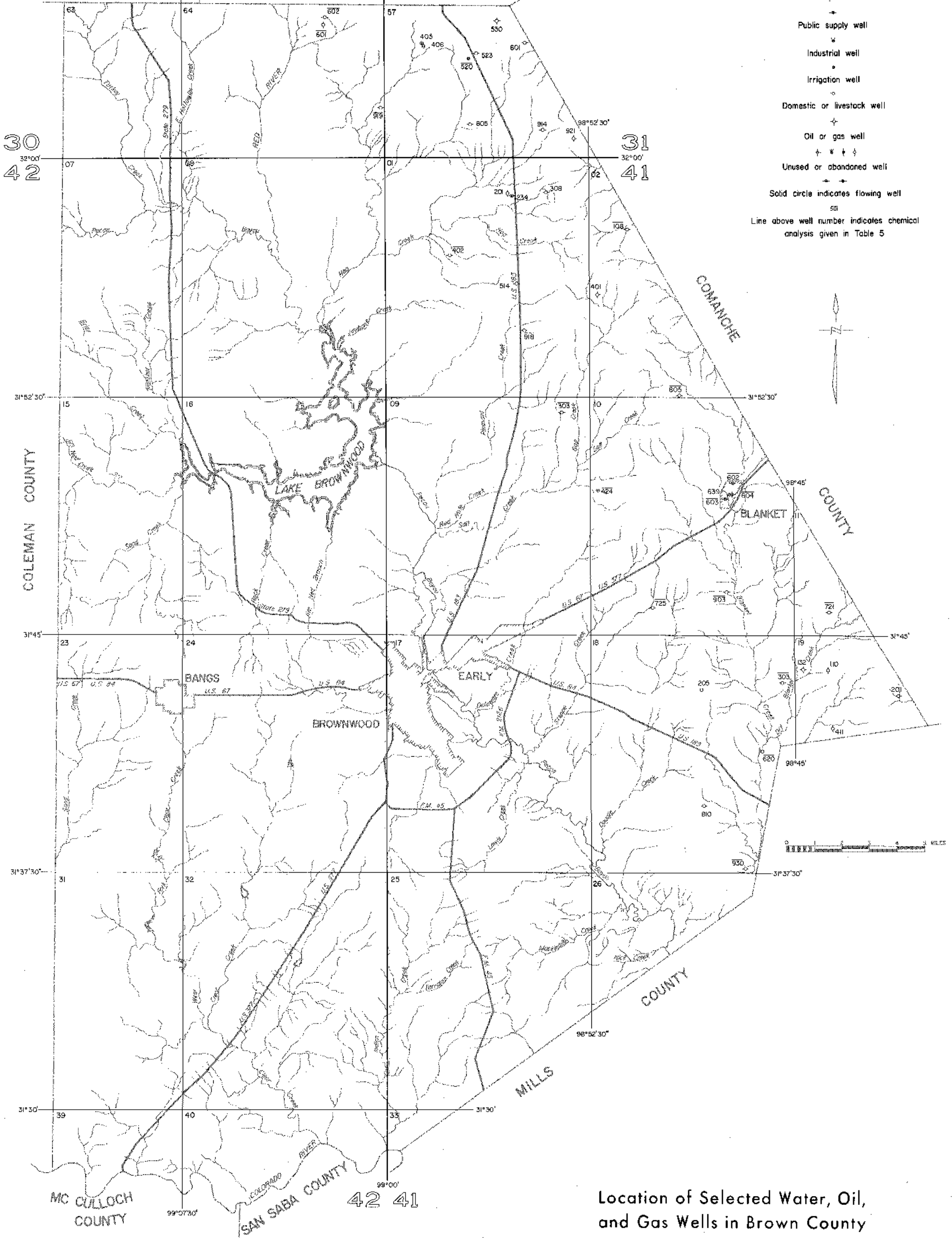
^a Analyses obtained from data accompanying Railroad Commission of Texas' 1967 Salt Water Production and Disposal questionnaires.

^b Analyses obtained from Laxson and others, 1960.

CALLAHAN COUNTY EASTLAND 30 31 COUNTY

EXPLANATION

- Public supply well
 - ∨ Industrial well
 - Irrigation well
 - Domestic or livestock well
 - ⊕ Oil or gas well
 - ⊕ ⊖ ⊕ ⊖ Unused or abandoned well
 - ← Solid circle indicates flowing well
 - 501
- Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in Brown County

BURNET COUNTY

Table I.--Records of Selected Water Wells

Water-bearing unit : Koh, Woodbine Group; Kea, Edwards and associated limestones; KF, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Kba, Mansell Member of the Travis Peak Formation; Kpe, Pearsall Member of Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane, or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING INT ^y	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BT-41-63-901	H. V. Campbell	Noyd Fisher	--	180	5	--	Ktp	1,194	145 151.0	Apr. 27, 1961 Mar. 6, 1969	C, W	U, S	Texas Water Development Board observation well. <u>4</u>
6A-801	Tra Hopper	--	--	270	8	--	do.	1,035	31 29.1	Apr. 20, 1961 Mar. 7, 1969	C, E 1/2	D, S	Do.
57-06-601	Andy Webb	Smart Drilling and Supply	1968	569	5	150	Ktp, P	1,455	290	May 13, 1968	Sub, E 1	D	Open hole completion from 150 to 569 ft. Bailing level 300 ft at 20 gpm. Pump set at 336 ft.
07-401	Clydene May	do.	1968	295	7 5	41 295	P	1,360	264	Apr. 10, 1968	Sub, E 1	D	Slotted from 235 to 295 ft. Pump set at 273 ft. Estimated yield 15 gpm. Cemented from 41 ft to surface.
602	Marvin Coley	--	--	196	--	--	Klp	1,358	101	July 19, 1957	J, E 1	D, S	
* 901	Frank Hall	Smart Drilling and Supply	1965	346	7 5	52 146	do.	1,360	200	July 26, 1965	Sub, E 1-1/2	D	Open hole completion from 52 to 106 ft and perforated from 300 to 346 ft. Bailing level 300 ft at 20 gpm. Pump set at 315 ft. Cemented from 52 ft to surface. Temp. 72°F.
08-501	Paul Barvux	--	1960	232	6	--	do.	1,114	50	Apr. 19, 1961	C, E	S	
* 801	Bill Bryson	Twin City Oil and Gas Co.	1922	2,285	16 10 8	1,100 1,700 2,285	P	1,225	+ 80	1922	Flow	N	Well was originally drilled as oil test. <u>4</u>
15-201	Jack Stanford	Ted Norrod	1951	183	--	183	Ktp	1,330	12	1951	C, W	U, S	Completed from 182 to 183 ft.
* 702	City of Burnet	J. R.-Bob-Johnson Drilling and Supply	1937	74	12 10	-- 74	do.	1,294	27 30.60	May 31, 1961 Feb. 27, 1969	T, E 15	P	Completed from 68 to 74 ft. Reported yield 215 gpm. Well dried up in 1956. Used as stand-by well. Texas Water Development Board observation well. <u>4</u>
705	Mrs. R. S. Bowden	--	--	178	8	--	do.	1,318	53.96	Aug. 1, 1961	T, E	Irr	Yield 47 gpm. Temp. 69°F. <u>3</u>
740	M. K. Ozman	Smart Drilling and Supply	1968	128	7 5	101 128	P	1,345	90	Apr. 26, 1968	Sub, E 1	D	Slotted from 104 to 128 ft. Bailing level 97 ft at 20 gpm on Apr. 26, 1968. Pump set at 115 ft. <u>4</u>
801	J. W. Boss	Wright Drilling Co.	1960	329	5	329	Ktp	1,450	267	Aug. 24, 1961	--	D, S	Reported yield 20 gpm.
* 16-801	Burnet County WCJD No. 1	do.	1954	507	10 8	365 490	do.	1,280	251 260.92	Nov. 4, 1954 Mar. 25, 1968	Sub, K	P	Slotted from 310 to 315, 340 to 350, and 365 to 490 ft. Pumping level 452 ft at 50 gpm on Nov. 4, 1954. Temp. 75°F. Texas Water Development Board observation well. <u>4</u> <u>3</u> <u>4</u>
901	A. R. Boothe	--	--	330	8	--	do.	1,229	301 114.65	Apr. 19, 1961 Mar. 3, 1969	C, W, E	N	Texas Water Development Board observation well. <u>4</u>
* 23-203	Texas Highway Department	Boss Sanford	1951	356	6	340	do.	1,505	295.1 296.2	Mar. 8, 1966 Mar. 5, 1969	Sub, E 1-1/2	Ind	Slotted from 300 to 340 ft. Pump set at 339 ft. Temp. 70°F. Texas Water Development Board observation well. <u>4</u>

See footnotes at end of table.

BURNET COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIQV	USE OF WATER	REMARKS
					DIAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* BT-57-24-101	City of Bertram	Wright Drilling Co.	1958	480	10	360	Kt ₁	1,298	164 185.05	Mar. 10, 1961 Mar. 4, 1969	Sub, E 10	P	Perforated from 256 to 267, 290 to 348 ft, and open hole from 360 to 480 ft. Pump set at 440 ft. Reported yield 50 gpm. Temp. 73°F. Texas Water Development Board observation well. <u>1/3/64</u>
103	Burnet County WCID No. 1	do.	1962	550	--	--	do.	1,298	197.85 187.47	Mar. 8, 1966 Mar. 4, 1969	Sub, E 10	C	Pumping level 245 ft at 50 gpm on Feb. 17, 1965. Pump set at 400 ft. Texas Water Development Board observation well. <u>3/4</u>
* 201	do.	R. J. Bostic	1910	430	8	--	do.	1,262	350 348.7	Mar. 8, 1946 Mar. 8, 1966	C, F	N	Reported yield 10 gpm. Abandoned.
* 202	do.	Layne Texas Co.	1944	469	8	350	do.	1,263	340 362.13	Jan. 15, 1946 Dec. 28, 1966	Sub, E 5	N	Open hole completion from 350 to 469 ft. Reported yield 14 gpm. Texas Water Development Board observation well until 1966. Plugged and abandoned. <u>1/2/64</u>
* 204	City of Bertram	--	1941	2,395	--	--	do.	1,260	--	--	N	N	Abandoned. <u>1/</u>
801	C. D. Lester	Rueben Fisher	1953	456	7	418	do.	1,295	162 48.17	Apr. 27, 1961 Mar. 4, 1969	C, E 1-1/2	D, S	Open hole completion from 418 to 456 ft. Estimated yield 40 gpm. Texas Water Development Board observation well. <u>4/</u>
58-01-101	Ray Gowan	Central Texas Drilling Co., Inc.	1968	200	8	20	do.	860	31.3	May 15, 1968	--	D	Open hole completion from 20 to 200 ft. <u>2/</u>
501	do.	do.	1968	130	8	23	do.	835	20 10.54	Apr. 1968 May 15, 1968	N	N	Open hole completion from 23 to 130 ft. Well drilled as test hole. Abandoned. <u>1/2/</u>
502	do.	do.	1968	133	7	100	do.	835	10.63	May 13, 1968	--	Trr	Open hole completion from 100 to 133 ft. Reported yield 158 gpm. <u>1/</u>
503	do.	do.	1968	145	7	40	do.	835	11.61	do.	--	Trr	Open hole completion from 40 to 145 ft. Reported yield 40 gpm. <u>1/2/</u>
504	F. D. Breedlove	Dixon Pump and Drilling Co.	1963	521	12 2	521 320	do.	1,080	230	May 28, 1963	C, W	D, S	Pumping level 455 ft at 200 gpm on May 29, 1963.
* 801	Carl Steward	Harrison Well Service	1966	508	6	20	do.	1,122	241.62 256.7	Mar. 4, 1966 Mar. 3, 1969	C, W	N	Open hole completion 20 to 508 ft. Reported yield 20 gpm. Temp. 81°F. Texas Water Development Board observation well. <u>4/</u>

* For chemical analysis of water, see Table 5.
1/ For drillers' log of well, see Table 3.
2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.
3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume 1.
4/ For water-level measurements, see Table 4.

BURNET COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

D, Drillers'; E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BT-58-01-301	E. A. Dunnam	John Hunt No. 1	1958	1,245	915	E
302	E. A. Dunnam and Henson Drilling Co.	Day No. 1	1955	4,793	909	E
601	Parker Petroleum Co. Inc.	Williams No. 1	1956	3,559	968	E
602	Bur-Tex Oil Co.	W. C. Dillingham No. 1	1929	1,071	1,065	D

BURNET COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BT-57-08-801			Well BT-57-15-740		
Owner: Bill Bryson Driller: Twin City Oil and Gas Co. (Complete log not shown)			Owner: M. K. Orman Driller: Smart Drilling and Supply		
White and yellow clay	25	25	Yellow clay	14	14
White soft lime	15	40	Gray shale	8	22
Gray hard lime	22	62	Soft sandy	3	25
Gray lime and shells	63	125	Gray sandy rock	5	30
Gray clay and shells	115	240	Sandy shale	10	40
Gray sand (water at 264 ft)	80	320	Hard rock	2	42
White soft sand	26	346	Soft	3	45
Gray hard lime	10	356	Sandy rock	10	55
Gray shale	10	366	Hard and soft sandrock	15	70
Gray shells	14	380	Red bed	15	85
Red clay	5	385	White rock	5	90
Gray hard shells	40	425	Gravel granite	5	95
Gray sand (water at 435 ft)	20	445	Hard rock	5	100
White hard lime	15	460	Yellow	13	113
Black hard lime	28	488	Hard - water	7	120
Black soft slate	5	493	Hard	8	128
Black hard lime	57	550			
Black soft slate	25	575	Well BT-57-16-801		
Brownish gray lime coarse	15	590	Owner: Burnet County WCID No. 1 Driller: Wright Drilling Co.		
Light gray lime fine	60	650	No record	310	310
White sandy lime fine	25	675	Sand	5	315
White soft lime coarse	25	700	Sand	115	430
White lime fine	105	805	Good sand	30	460
Light gray lime coarse	45	850	Cap rock	8	468
Light gray lime medium	5	855	Sand	5	473
Brownish grayish lime coarse	20	875	Cap rock	29	502
White lime fine	40	915	Sand	5	507
Brownish gray lime	25	940			
Gray lime medium	10	950	Well BT-57-24-101		
Brownish gray lime medium	45	995	Owner: City of Bertram Driller: Wright Drilling Co.		
Brownish gray lime coarse	35	1,030	Black loam top soil	2	2
Gray lime medium	20	1,050	White limestone	4	6
Brownish gray coarse	22	1,062	Caliche	15	21
Light brownish gray lime medium	18	1,090	White limestone	10	31
Gray fine lime	3	1,093	Blue shale	16	47
			Sugar sand - some water	17	64

Table 3.—Drillers' Logs of Selected Wells in Burnet County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BT-57-24-101—Continued			Well BT-57-24-202—Continued		
Blue shale	7	71	Soft sandy shale	10	300
Layers of limestone and shale	164	235	Broken formations	25	325
Dry sand	5	240	Green shale	2	327
Shale	16	256	Fine sand - little water	8	335
Coarse sand and water	11	267	Gray sandy shale	3	338
Shale	23	290	Water sand - rock ledges	22	360
Sand	6	296	Coarse water sand - crystal rock	10	370
Layers of sand and limestone	52	348	Green sandy shale	13	383
Limestone	47	395	Shell bed - crystal rock	2	385
Sand rock	45	440	Green shale - shells - sticky	5	390
Coarse sand	11	451	Light green sandstone	10	400
Gray shale	29	480	Coarse sand	2	402
Well BT-57-24-202			Green sandstone - crystal rock	31	433
Owner: Burnet County WCID No. 1 Driller: Layne Texas Co.			Hard sandstone	7	440
Top soil	1	1	Crystal rock with some shale	13	453
White limestone	16	17	Hard blue lime rock	4	457
Soft gray shale	3	20	Sticky green shale	12	469
Rock ledges, sand shale	32	52	Well BT-57-24-204		
Green sandy shale	7	59	Owner: City of Bertram Driller: Unknown		
Water sand, very fine	10	69	White limestone, water	33	33
Sand rock	1	70	White limestone	6	39
Shale rock ledges - 6 in. thick	8	78	White limestone and shale	40	79
Hard shell bed	3	81	Fine grain sand, water	11	90
Broken formation - shale rock	69	150	Shale, limestone	160	250
Sand shale	5	155	Gray limestone	73	323
Broken formation shale shell beds	70	225	Blue shale	20	343
Hard rock	7	232	Gray limestone	62	405
Sandy shale	5	237	Gray mud	5	410
Shell beds	7	244	Hard rock	5	415
Crystal rock (white)	16	260	Break	1	416
Shell and shale	15	275	Gray limestone	22	438
Hard rock	5	280	Gray limestone	9	447
Sticky shale	4	284	Fine grain water sand	3	450
Crystal rock	6	290			

Table 3.—Drillers' Logs of Selected Wells in Burnet County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BT-57-24-204--Continued			Well BT-57-24-204--Continued		
Dark gray limestone	10	460	Hard shale and rock	10	1,410
Water	4	464	Soft shale	17	1,427
Dark gray limestone	6	470	Hard shale	340	1,767
Shale, limestone	15	485	Schist (core showed quartzite)	628	2,395
Dark gray limestone	10	495			
Green shale	8	503	Well BT-58-01-501		
Shale and limestone	30	533	Owner: Ray Cowan Driller: Central Texas Drilling Co., Inc.		
Red bed	27	560	Soil and alluvium	20	20
Brown limestone	8	568	Limestone (Glen Rose)	86	106
Gray limestone	37	605	Sand (Hensell)	22	128
Tan colored	35	640	Very hard limestone (Ellenberger or Cow Creek)	2	130
Red shale and limestone	10	650			
Dark limestone	4	654	Well BT-58-01-502		
Shale caves badly	141	795	Owner: Ray Cowan Driller: Central Texas Drilling Co., Inc.		
Hard shale	35	830	Soil	5	5
Hard shale with soft spots	60	890	Clay and caliche	10	15
Sandy shale	15	905	Loose caving gravel	6	21
Sandy rock	15	920	Limestone and dolomite	55	76
Lead soft and sticky	2	922	Limestone with breaks of fine sand	24	100
Blue rock	3	925	Limestone with 1 to 2 in. cavities	33	133
Sticky shale	6	931			
Boulders and shale	17	948	Well BT-58-01-503		
Shale	3	951	Owner: Ray Cowan Driller: Central Texas Drilling Co., Inc.		
Boulders and shale	5	956	Soil	10	10
Hard and soft shale	134	1,090	Gravel	15	25
Sandstone and shale	25	1,115	Blue shale	9	34
Shale	19	1,134	Lime	56	90
Hard shale	4	1,138	Broken limestone (water)	35	125
Shale	12	1,150	Limestone	20	145
Slate and shale	10	1,160			
Shale	30	1,190	Well BT-58-01-602		
Slate and shale	10	1,200	Owner: W. C. Dillingham Driller: Bur-Tex Oil Co.		
Shale and slate	61	1,261	Surface soil	5	5
Hard rock	13	1,274	Light gray lime	335	340
Shale and slate	46	1,320	Dark gray lime	5	345
Hard rock	9	1,329			
Sandy shale	21	1,350			
Hard sandy shale	50	1,400			

Table 3.—Drillers' Logs of Selected Wells in Burnet County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BT-58-01-602—Continued			Well BT-58-01-602—Continued		
Gray water sand, contains water	10	355	Hard conglomerate lime, beds of large gravel	5	592
Light gray lime, shows oil asphalt	5	360	Hard brown and gray sand, contains water	8	600
Hard gray lime	40	400	Conglomerate of sandy lime, beds of large gravel	28	628
Lime and shale	60	460	Red mud	7	635
Green sandy shale	5	465	Dark gray shale	22	657
Gray lime	7	472	Hard gray sand (dry)	39	696
Glassy water sand had a thin streak of gray sand at 500 ft., shows oil	43	515	Hard black shale	14	710
Light gray lime	28	543	Hard gray sand, contains small amount water	16	726
Gray sand (dry)	5	548	Hard black shale, small showing oil at 757 ft	345	1,071
Gray lime	12	560			
Red sandy shale, shows rainbows	27	587			

BURNET COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well BT-41-63-901		Well BT-57-15-702—Continued		Well BT-57-15-702—Continued	
Owner: H. V. Campbell		July 5, 1963	39.95	Mar. 9, 1965	38.85
Apr. 27, 1961	145	July 15, 1963	40.49	Apr. 13, 1965	36.65
Mar. 6, 1969	151.0	July 20, 1963	40.50	May 10, 1965	35.90
Well BT-41-64-801		July 25, 1963	40.50	June 8, 1965	31.38
Owner: Ira Hopper		July 30, 1963	40.38	July 16, 1965	33.20
Apr. 20, 1961	31	Aug. 5, 1963	45.10	Sept. 27, 1965	36.35
Mar. 7, 1966	29.55	Aug. 12, 1963	45.10	Oct. 15, 1965	36.00
Mar. 7, 1969	29.1	Aug. 20, 1963	42.60	Nov. 22, 1965	34.35
Well BT-57-15-702		Aug. 27, 1963	40.40	Dec. 23, 1965	33.22
Owner: City of Burnet		Sept. 6, 1963	47.25	Jan. 25, 1966	32.50
May 31, 1961	27	Sept. 19, 1963	45.73	Mar. 9, 1966	30.36
Aug. 6, 1962	47.26	Oct. 2, 1963	45.35	Mar. 28, 1966	32.25
Aug. 10, 1962	49.81	Oct. 15, 1963	46.10	May 25, 1966	29.20
Aug. 13, 1962	39.54	Oct. 28, 1963	45.30	July 15, 1966	41.00
Aug. 14, 1962	39.76	Nov. 10, 1963	45.93	Sept. 23, 1966	43.20
Aug. 17, 1962	49.83	Dec. 4, 1963	43.30	Sept. 28, 1966	34.94
Aug. 21, 1962	39.85	Dec. 24, 1963	42.76	Nov. 3, 1966	35.60
Aug. 26, 1962	40.15	Jan. 6, 1964	42.47	Nov. 22, 1966	35.72
Sept. 11, 1962	37.36	Jan. 20, 1964	42.50	Dec. 28, 1966	35.85
Sept. 24, 1962	39.07	Feb. 13, 1964	41.57	Jan. 11, 1967	36.65
Oct. 1, 1962	38.82	Feb. 27, 1964	41.00	Feb. 9, 1967	35.50
Nov. 24, 1962	37.00	Mar. 11, 1964	41.00	Mar. 15, 1967	37.55
Jan. 3, 1963	36.38	Mar. 31, 1964	40.70	May 4, 1967	38.21
Jan. 22, 1963	36.10	Apr. 14, 1964	40.25	May 31, 1967	38.50
Feb. 1, 1963	36.16	Apr. 28, 1964	40.85	July 18, 1967	45.60
Feb. 5, 1963	36.46	May 14, 1964	40.45	Aug. 11, 1967	48.80
Feb. 19, 1963	36.14	June 19, 1964	41.45	Sept. 14, 1967	47.14
Feb. 26, 1963	36.35	July 11, 1964	45.10	Oct. 5, 1967	45.63
Mar. 19, 1963	36.22	Aug. 12, 1964	48.80	Nov. 8, 1967	44.66
Apr. 2, 1963	37.60	Sept. 10, 1964	49.50	Dec. 6, 1967	44.00
May 24, 1963	38.56	Nov. 6, 1964	45.62	Jan. 16, 1968	43.50
June 6, 1963	39.46	Dec. 7, 1964	44.00	Feb. 7, 1968	39.87
June 18, 1963	40.46	Jan. 20, 1965	42.70	Mar. 25, 1968	32.85
		Feb. 26, 1965	40.25	Apr. 18, 1968	30.60

Table 4.—Water Levels in Selected Wells in Burnet County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL				
Well BT-57-15-702—Continued			Well BT-57-23-203			Well BT-57-24-202—Continued			
May 21, 1968	26.50	Owner: Texas Highway Department			Sept. 28, 1966	350.40			
June 24, 1968	25.10	Mar. 8, 1966	295.1	Nov. 2, 1966	353.49				
Aug. 28, 1968	30.50	Mar. 25, 1968	293.20	Nov. 22, 1966	354.75				
Sept. 20, 1968	30.00	Mar. 5, 1969	296.2	Dec. 28, 1966	362.13				
Oct. 24, 1968	30.00	Well BT-57-24-101			Well BT-57-24-801				
Nov. 22, 1968	30.00	Owner: City of Bertram			Owner: C. D. Lester				
Dec. 20, 1968	30.30	Mar. 10, 1961	164	Apr. 27, 1961	162				
Jan. 21, 1969	30.10	Mar. 8, 1966	192.37	Mar. 9, 1966	41.62				
Feb. 27, 1969	30.60	Mar. 25, 1968	207.43	Mar. 4, 1969	48.17				
Well BT-57-16-801			Mar. 4, 1969	185.05	Well BT-58-01-801				
Owner: Burnet County WCID No. 1			Well BT-57-24-103			Owner: Carl Steward			
Nov. 4, 1954	251	Owner: Burnet County WCID No. 1			Mar. 4, 1966	241.62			
Mar. 8, 1966	253.85	Mar. 8, 1966	197.85	Aug. 31, 1966	260.5				
Mar. 25, 1968	260.92	Mar. 25, 1968	215.10	Sept. 28, 1966	253.7				
Well BT-57-16-901			Mar. 4, 1969	187.47	Nov. 2, 1966	256.6			
Owner: A. R. Boothe			Well BT-57-24-202			Nov. 22, 1966	256.1		
Apr. 19, 1961	301	Owner: Burnet County WCID No. 1			Dec. 28, 1966	259.5			
Mar. 7, 1966	175.55	Jan. 15, 1946	340	May 4, 1967	261.0				
Mar. 25, 1968	113.25	Mar. 3, 1966	349.25	June 8, 1967	265.4				
Mar. 3, 1969	114.65	Aug. 31, 1966	350.54	June 30, 1967	273.5				
						Sept. 14, 1967	280.2		
						Nov. 8, 1967	268.8		
						Dec. 6, 1967	266.9		
						Jan. 16, 1968	263.1		
						Feb. 7, 1968	236.9		
						Mar. 3, 1969	256.7		

BURNET COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; E, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

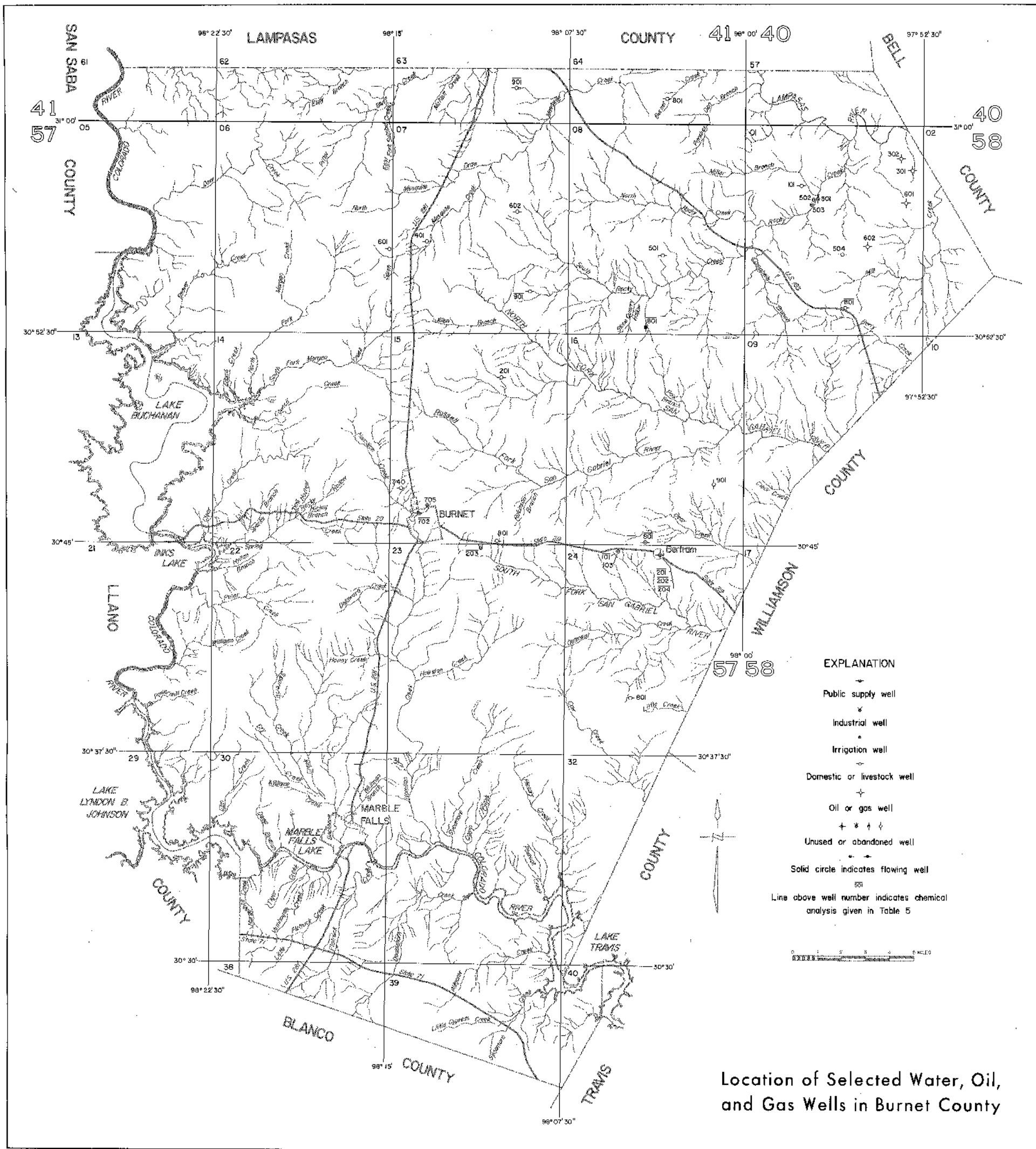
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
1/ BT-41-63-901	180	--	Ktp	--	--	--	--	--	--	--	29	395	--	--	--	968	--	--	--	--	--	--	--
57-07-901	346	Sept. 18, 1968	do.	12	--	85	49	16	--	346	112	38	0.9	< 0.4	--	483	--	414	8	812	7.5	0.3	
2/ 08-801	2,285	1942	F	--	--	70	29	* 17	--	342	19	22	--	--	--	--	--	326	11	--	--	.4	
15-702	74	Apr. 30, 1938	Ktp	12	0.04	94	33	* 9	--	397	19	7.1	< .2	44.0	--	452	413	370	5	--	7.1	.2	
702	74	Oct. 29, 1940	do.	11	.05	95	35	* 32	--	439	14	36	< .4	31.0	--	422	470	331	15	--	7.3	.7	
702	74	Dec. 6, 1950	do.	14	.03	93	35	* 32	--	439	23	36	.2	12.0	--	470	461	376	16	--	7.2	.7	
702	74	July 2, 1961	do.	--	.08	22	10	20	--	0	15	33	.4	22.0	--	195	--	94	31	325	9.3	.9	
2/ 16-801	507	Nov. 6, 1954	do.	17	.0	52	31	* 15	--	345	39	224	1.1	.8	--	719	550	257	11	1,310	8.0	.4	
23-203	356	Sept. 18, 1968	do.	16	--	84	30	14	--	387	16	20	.2	2.0	--	372	--	334	8	643	7.4	.3	
24-101	480	do.	do.	23	--	65	37	22	--	345	40	30	.6	< .4	--	388	--	316	13	664	7.5	.5	
2/ 201	430	Jan. 31, 1941	do.	--	32	49	27	* 71	--	352	32	46	.6	.0	--	399	430	233	40	--	--	2.0	
202	469	June 1944	do.	26	2.0	67	39	* 48	--	280	59	64	--	2.0	--	458	445	328	24	--	8.1	1.2	
204	--	June 23, 1941	do.	26	2.0	67	39	* 48	--	305	59	64	< .4	< .4	--	458	--	328	24	--	8.1	1.2	
58-01-801	508	Mar. 4, 1966	do.	7	--	136	28	69	--	346	194	58	.8	84.0	--	770	747	456	25	1,300	7.3	1.4	

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

- 1/ Laboratory unknown
- 2/ U.S. Geological Survey Laboratory



Location of Selected Water, Oil, and Gas Wells in Burnet County

GALLAHAN COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Ksb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ks, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
* BX-30-47-601	E. K. Battle	Fred Spawls	1920	25	48	25	Ka	1,783	15 13.29	Mar. 19, 1940 Mar. 5, 1969	J, E 1/3	D, S	Dug well with brick wall from 25 ft to surface. Pump set at 22 ft. Temp. 59°F.
* 54-302	Gaidwell Ranch	Cecil Gobel	1950	190	5	190	do.	2,005	31.55	Mar. 6, 1969	Sub, E 1/3	D, S	Slotted. Pump set at 100 ft. Temp. 66°F.
55-502	W. A. Gill	J and L Drilling Co.	1966	48	5	48	do.	1,801	13.14 11.65	Apr. 29, 1966 Mar. 11, 1969	Sub, E	D	Perforated from 32 to 40 ft. Gravel packed. Texas Water Development Board observation well. <u>1/2</u>
503	--	--	1927	82	--	--	do.	1,866	77.51 79.00	Mar. 29, 1966 Mar. 11, 1969	C, W	N	Texas Water Development Board observation well. <u>2</u>
901	City of Cross Plains	--	1950	60	8	60	do.	--	30	Oct. 5, 1959	J, E 1	P	Reported yield 15 gpm.
902	do.	--	1950	60	8	60	do.	--	30	do.	J, E 1	P	Do.
903	do.	--	1950	60	8	60	do.	--	30	do.	J, E 1	P	Do.
904	do.	--	1950	60	7	60	do.	--	30	do.	J, E 1-1/2	P	Do.
905	do.	--	1950	60	7	60	do.	--	30	do.	Sub, E 1/2	P	Completed from 40 to 55 ft. Reported yield 15 gpm.
906	do.	--	1950	60	7	60	do.	--	30	do.	Jet, E 1	P	Slotted from 40 to 55 ft. Reported yield 15 gpm.
907	do.	--	1950	65	7	65	do.	--	30	do.	J, E 1-1/2	P	Do.
908	do.	J and L Drilling Co.	1950	65	7	65	do.	--	--	--	Sub, E 1	P	Do.
909	do.	--	1950	65	7	65	do.	--	--	--	J, E 1-1/2	P	Slotted from 40 to 55 ft.
910	do.	--	1950	65	7	65	Ka	--	--	--	J, E 1-1/2	P	Do.
911	do.	J and L Drilling Co.	1964	70	7	70	do.	--	--	--	Sub, E 1/2	P	Slotted from 45 to 60 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface.
* 912	do.	R. E. Thate	1940	48	8 10	28 48	do.	--	--	--	J, E 1-1/2	P	Perforated from 28 to 48 ft.
913	do.	J and L Drilling Co.	1964	70	7	70	do.	--	--	--	Sub, E 1/2	P	Slotted from 40 to 60 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface. <u>3</u>

See footnotes at end of table.

CALLAHAN COUNTY

Table 1.--Records of Selected Water 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.)			ABOVE (+) OR BELOW LAND SURFACE (ft.)	DATE OF MEASUREMENT			
8X-30-55-914	City of Cross Plains	J and J, Drilling Co.	1964	70	7	70	Ka	--	--	--	Sub, S 1/2	F	Slotted from 50 to 65 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface.
915	do.	do.	1964	70	7	70	do.	--	--	--	Sub, E 1/2	F	Do.
916	do.	do.	1964	70	7	70	do.	--	--	--	Sub, E 1/2	F	Do.
* 917	do.	do.	1964	70	7	70	do.	--	17.41	Mar. 3, 1969	Sub, E 1/2	F	Slotted from 40 to 60 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface. Temp. 66°F.
* 918	do.	--	1926	50	60	35	do.	--	--	--	J, E	F	Dug well with brick wall from 35 ft to surface. Open hole from 35 to 50 ft.
* 919	do.	--	1926	49	48 8	49 49	do.	--	--	--	N	N	A drilled well and a dug well 10 ft apart and connected by a 4 in. tunnel. Eight in. perforated casing below water.
* 920	do.	City Employees	1938	44	60	39	do.	--	32	Sept. 4, 1940	N	N	Dug well with brick wall from 39 ft to surface. Open hole from 39 to 44 ft.
* 921	do.	Ben Welch	1926	48	8	48	do.	--	--	--	J, E 1-1/2	F	Perforated.
* 922	do.	E. K. Thate	1940	47	8 10	27 47	do.	--	--	--	J, E 1-1/2	F	Perforated from 27 to 47 ft.
923	do.	--	--	50	72	--	do.	1,747	30	Oct. 5, 1959 Mar. 11, 1969	J, M 2	F	Dug well. Reported yield 15 gpm. Texas Water Development Board observation well. 2)
* 924	do.	--	--	50	48	--	Ka	--	30	Oct. 5, 1959	J, E 2	F	Dug well. Reported yield 15 gpm.
63-303	do.	--	1945	62	8	62	do.	1,768	30	do.	J, E 2	F	Reported yield 15 gpm.
* 304	do.	--	1943	50	8	50	do.	1,768	30	do.	J, E 2	F	Do.
305	do.	--	1941	61	8	61	do.	1,768	30	do.	J, E 2	F	Do.
306	do.	--	1941	66	8	66	do.	1,772	30	do.	J, E 2	F	Do.
307	do.	J and L Drilling Co.	1963	70	7	70	do.	1,773	--	--	Sub, E 1/2	F	Slotted from 40 to 60 ft. Pump set at 63 ft. Gravel packed. Cemented from 40 ft to surface.
308	do.	do.	1963	70	7	70	do.	1,773	--	--	Sub, E 1/2	F	Do.
* 309	Dale Crawford	Curtis Alford Drilling and Well Service	1962	80	8 5	40 80	do.	1,772	44.70	Mar. 3, 1969	J, E 1/2	D	Perforated from 50 to 70 ft. Pump set at 70 ft. Gravel packed. Cemented from 40 ft to surface. Temp. 64°F.

* For chemical analysis of water, see Table 5.
 1) For drillers' log of well, see Table 3.
 2) For water-level measurements, see Table 4.

CALLAHAN COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BX-30-46-9D1	Frank Ausanka, et al.	Caldwell No. 2	1954	2,781	2,194	E
54-301	Star Oil Co.	Caldwell No. A-1	1949	1,808	2,037	E
55-301	Sunray Oil Co.	C. E. Aspin No. 1	1948	4,151	1,994	E
601	Irvin Producing Co. and Western Natural Gas Co.	Ben Lester No. 1	1960	2,850	1,793	E
701	Harding Brothers	Cornelous No. 1	1954	1,790	1,797	E

CALLAHAN COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BX-30-55-502			Well BX-30-55-913		
Owner: W. A. Gill Driller: J and L Drilling Co.			Owner: City of Cross Plains Driller: J and L Drilling Co.		
Sill	2	2	Caliche and gravel	15	15
Pack sand	18	20	Yellow sandy clay	25	40
Sand water	20	40	Sand with some gravel	20	60
Shale	8	48	Red shale	10	70

CALLAHAN COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well BX-30-55-502		Well BX-30-55-503—Continued		Well BX-30-55-923—Continued	
	Owner: W.A. Gill	Mar. 21, 1968	77.20	Mar. 15, 1967	16.80
Apr. 29, 1966	13.14	Mar. 11, 1969	79.00	May 4, 1967	16.62
Mar. 11, 1969	11.65			Oct. 3, 1967	18.19
		Well BX-30-55-923		Nov. 7, 1967	17.87
	Well BX-30-55-503	Owner: City of Cross Plains		Jan. 3, 1968	17.77
	Owner: Unknown	Oct. 5, 1959	30	Feb. 5, 1968	16.23
Mar. 29, 1966	77.51	Apr. 29, 1966	16.73	Mar. 21, 1968	14.15
Mar. 15, 1967	77.58	Nov. 29, 1966	16.68	Mar. 11, 1969	13.75
		Jan. 4, 1967	16.71		
		Feb. 7, 1967	16.74		

CALLAHAN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwh, Woodbine Group; Kca, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : ^{1/} "Reported" - as appeared in respective analysis.
^{2/} "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Pp)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
^{1/} BX-30-47-601	25	Mar. 19, 1940	Ka	--	--	206	65	* 257	--	445	135	590	--	< 20	--	1,479	--	785	42	--	--	4.0
601	25	Mar. 5, 1969	do.	40	--	104	31	198	--	455	99	214	0.9	70	--	980	--	388	53	1,550	7.4	4.4
54-302	190	Mar. 6, 1969	do.	27	--	309	10	15	2	322	30	104	.3	539	--	1,190	--	810	4	1,600	7.1	0.2
^{2/} 55-912	48	Sept. 4, 1940	do.	--	--	134	21	* 46	--	409	39	96	.3	--	--	553	--	423	19	--	--	1.0
917	70	Mar. 3, 1969	do.	29	0.06	95	14	36	--	349	22	36	1.3	3.5	--	409	--	296	21	675	7.4	.9
^{2/} 918	50	Sept. 4, 1940	do.	--	--	85	16	* 88	--	378	51	64	.6	21	--	512	--	280	41	--	--	2.3
^{2/} 919	49	do.	do.	--	--	124	19	* 129	--	488	89	110	.7	23	--	735	--	387	42	--	--	2.8
^{2/} 920	44	do.	do.	--	--	198	26	* 187	--	567	140	270	.6	< 20	--	1,118	--	601	40	--	--	3.3
^{2/} 921	48	do.	do.	--	--	196	26	* 140	--	494	117	250	.5	24	--	997	--	596	34	--	--	2.5
^{2/} 922	47	do.	do.	--	--	171	25	* 133	--	531	70	210	.4	20	--	890	--	531	35	--	--	2.5
^{2/} 924	50	Feb. 5, 1946	do.	19	.03	99	13	76	6.2	403	48	57	.4	15	--	529	--	300	35	--	7.0	1.9
^{2/} 63-304	50	do.	do.	11	.04	227	23	138	12	520	128	283	.2	23	--	1,150	--	661	31	--	7.0	2.3
309	80	Mar. 3, 1968	do.	20	.21	142	19	87	--	265	82	217	.5	< 0.4	--	700	--	433	31	1,190	7.0	1.8

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

- ^{1/} The University of Texas
- ^{2/} U. S. Geological Survey Laboratory

CALLAHAN COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
Permian ^{b/}	Tannehill	Morrisett	1,609	K-1 and P-1	4,159	1,417	28,530	99	6	55,400	—	7.0
Do. ^{c/}	do.	do.	1,623	K-1 and P-1	4,128	1,256	27,320	139	6	52,950	—	7.1
Do. ^{b/}	do.	Red Horse	1,047	P-3	5,360	1,099	30,785	83	7	60,100	—	7.0
Do. ^{b/}	do.	Three Acres	—	K-1	5,720	1,370	34,100	80	655	66,300	119,800	6.5
Do. ^{b/}	do.	S. E. Clyde	1,312	K-1	6,520	2,105	35,402	105	680	71,800	—	6.8
Do. ^{b/}	do.	N. of Baird	—	P-3	4,750	1,120	27,000	300	0	53,300	92,500	6.3
Do. ^{b/}	Flippen	Three Acres	1,682	K-1	7,310	1,660	38,000	146	0	75,200	132,800	6.2
Do. ^{b/}	Cook Sand	Brock	—	K-1	4,993	1,333	39,445	78	0	73,500	120,000	7.4
Do. ^{b/}	Tannehill	Wagley	—	P-3	3,673	1,384	21,180	21	19	44,050	—	6.3
Do. ^{b/}	U. Tannehill	Regular	—	?	5,860	1,090	34,600	85	0	66,900	112,000	6.2
Do. ^{b/}	L. Tannehill	do.	—	?	5,360	1,120	34,800	85	0	66,400	112,000	6.7
Do. ^{b/}	Flippen	Wildcat	1,763	?	4,390	1,070	29,400	95	340	50,000	85,000	6.8
Do. ^{b/}	Cook Sand	Regular	—	?	5,750	1,440	35,290	85	0	69,100	124,800	6.0
Pennsylvanian ^{b/}	U. Fry	—	—	P-3	5,800	870	—	220	122	61,370	108,800	6.0
Do. ^{a/}	do.	—	—	P-3	4,300	600	—	292	78	41,245	82,000	6.3
Do. ^{b/}	King	Morrisett	1,955	K-1 and P-1	7,793	1,780	33,270	94	92	70,100	—	6.8
Do. ^{b/}	Home Creek	Brock and Eula Lower Hope	—	K-1	3,354	1,143	32,489	312	275	59,000	96,000	6.7
Do. ^{b/}	do.	do.	—	K-1	2,169	820	32,586	124	40	60,000	95,817	7.2
Do. ^{b/}	Moran Sand	Red Horse	2,680	P-3	10,880	1,941	39,648	93	69	85,550	—	6.5
Do. ^{b/}	do.	Red Horse	2,700	P-3	10,085	1,586	35,295	72	110	78,370	—	5.8
Do. ^{b/}	Cross Plains	Baum	—	K-3 and P-4	4,800	1,205	32,100	70	740	60,980	105,150	6.0
Do. ^{b/}	do.	Cross Plains (McKinney)	1,530	K-3 and P-4	3,920	2,350	31,000	124	45	60,500	97,900	6.25
Do. ^{b/}	Fry Sand	1.5 SE Eula	—	K-1	2,930	775	30,000	180	2,730	51,700	91,200	7.0
Do. ^{c/}	Lake	Red Horse	4,190	P-3	4,625	706	15,420	47	337	35,200	—	5.2
Do. ^{b/}	Cisco Sand	Regular	—	?	5,120	1,170	30,400	150	120	60,200	102,800	6.6
Do. ^{b/}	Moran Sand	Herr-King	2,350	P-3	8,787	1,518	32,030	66	329	69,085	111,815	6.15

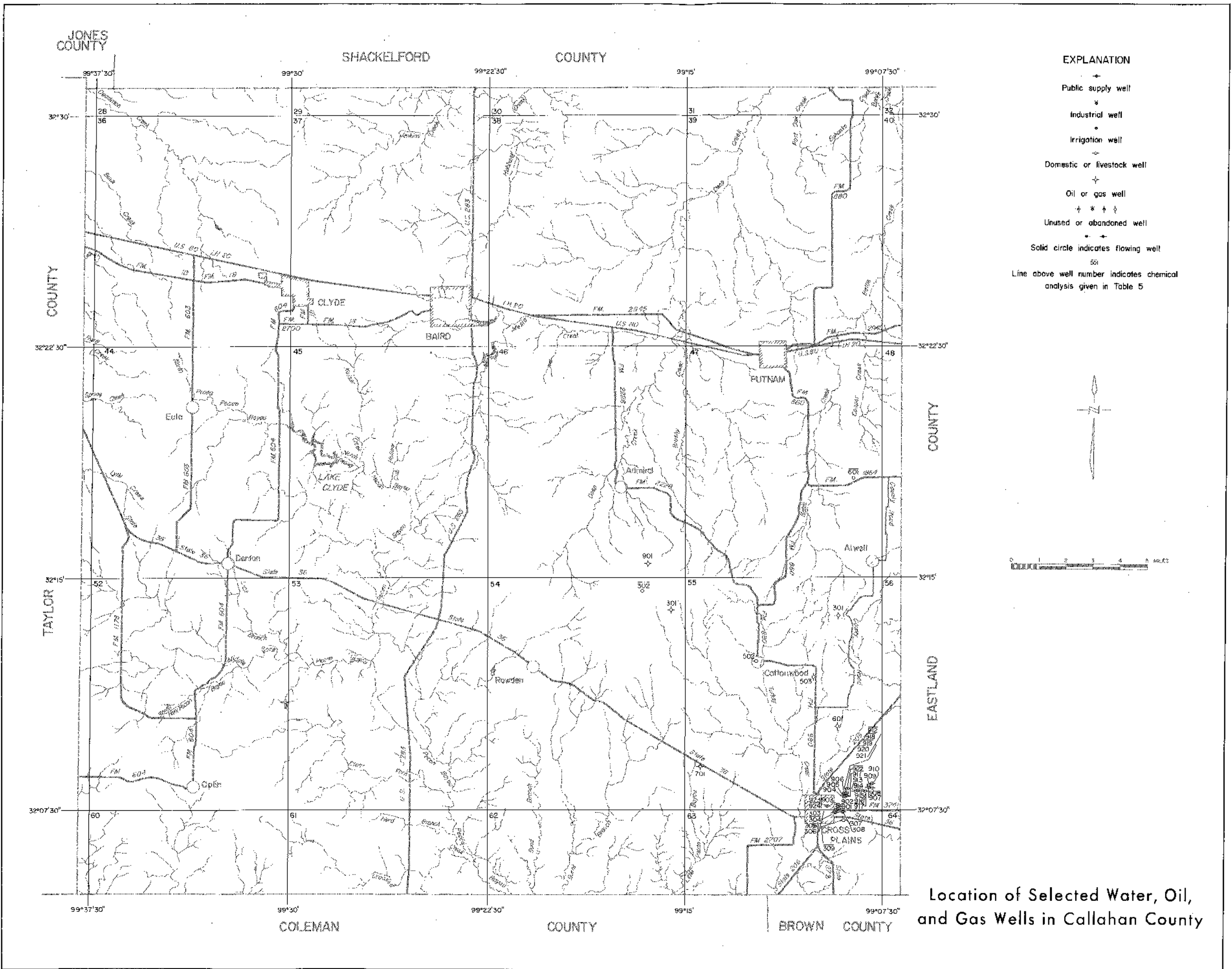
Table 6.—Chemical Analyses of Oil-Field Brines in Callahan County—Continued

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH	
Pennsylvanian ^{b/}	Winchell	Elmdale	—	K-1 and P-1	2,960	1,000	30,750	528	750	54,700	94,500	6.0	
	Do. ^{b/}	Palo Pinto	Box	3,300	P-1	11,680	2,041	20,010	117	148	81,650	97,649	—
	Do. ^{b/}	do.	Regular	—	?	3,280	1,500	32,600	150	0	60,500	100,800	7.3
	Do. ^{b/}	do.	Elmdale	3,270	P-1	15,000	1,980	40,300	795	476	93,500	167,700	6.1
	Do. ^{b/}	Cross Cut	Herr-King	2,580	P-3	9,324	2,889	36,650	195	189	79,430	—	6.0
	Do. ^{b/}	Fry Sand	Regular	—	?	5,960	1,395	34,240	110	36	67,400	118,300	5.0
	Do. ^{b/}	Jennings Sand	Silver Valley	—	?	15,100	2,160	49,400	290	85	109,000	196,000	6.4
	Do. ^{b/}	Lake	Speed Findley	3,800	P-3	13,355	2,723	43,661	109	85	98,759	—	6.7
	Do. ^{b/}	Bend	1X Conglomerate	4,356	?	12,360	2,856	37,330	15	145	95,000	147,700	4.75
	Do. ^{b/}	Conglomerate	1X Conglomerate	4,362	?	10,560	2,180	32,400	66	175	74,900	—	5.3
Ordovician ^{a/}	Ellenberger	Red Horse	4,442	P-3	2,288	1,398	22,944	480	1,592	42,034	71,280	7.03	
	Do. ^{b/}	do.	do.	4,396	P-3	3,240	1,685	22,000	392	1,855	43,300	—	6.6
	Do. ^{b/}	do.	do.	4,460	P-3	2,318	564	23,110	60	1,064	39,300	—	6.8
	Do. ^{b/}	do.	Three Acres	—	K-1	2,200	554	25,100	393	1,250	43,000	75,300	7.7
	Do. ^{c/}	do.	Red Horse	4,410	P-3	2,200	400	23,040	81	1,390	39,520	—	7.8
	Do. ^{c/}	do.	Hatchett	4,420	K-2 and P-3	6,890	1,752	21,200	50	359	49,700	—	6.8
	Do. ^{c/}	do.	Red Horse	4,442	P-3	2,735	733	22,260	121	1,665	40,020	—	5.8
	Do. ^{b/}	do.	Oplin	3,875	None	2,100	352	24,900	312	474	42,600	—	7.1
	Do. ^{b/}	do.	Oplin SE	4,190	None	1,700	690	22,500	433	1,400	38,500	60,500	7.58

^{a/} Analyses obtained from data accompanying Railroad Commission of Texas' 1957 Salt Water Production and Disposal questionnaires.

^{b/} Analyses obtained from Laxson and others, 1960.

^{c/} Analyses obtained from BJ Service, Inc., 1960.



COMANCHE COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Halyx Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; F, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW (AND) SURFACE BATHY (ft)	DATE OF MEASUREMENT			
DY-31-51-308	Robert C. Atchison	Continental Water Well Drilling Co.	1966	180	8	160	Ktp	--	55	Mar. 13, 1966	--	Irr	Perforated from 36 to 160 ft. Pumping level 155 ft at 80 gpm on Mar. 13, 1966. Gravel packed. <u>1</u>
309	do.	do.	1966	200	8	180	do.	--	72.3 71.70	July 10, 1968 Mar. 24, 1969	--	Irr	Perforated from 40 to 180 ft. Reported yield 100 gpm. Gravel packed. Texas Water Development Board observation well. <u>1</u> <u>4</u>
602	Norman Parks	N. L. Box Drilling Contractor	--	120	8	120	do.	--	72.23	July 22, 1965	Sub, E 1-1/2	Irr	Perforated from 60 to 100 ft. Pump set at 90 ft. Reported yield 115 gpm.
* 603	George Warren	do.	1965	56	7	56	do.	--	12 15	June 4, 1965 July 28, 1965	Sub, E 5	Irr	Slotted from 18 to 48 ft. Pumping level 50 ft at 120 gpm on July 10, 1965. Pump set at 47 ft. Gravel packed. <u>1</u>
604	do.	do.	1965	58	7	58	do.	--	39.64	July 28, 1965	Sub, E 3	Irr	Completed from 19 to 52 ft. Pump set at 50 ft. Reported yield 70 gpm. Gravel packed. <u>1</u>
* 605	R. A. Barnett	do.	1965	75	7	75	do.	--	15	do.	Sub, E 5	Irr	Slotted from 30 to 71 ft. Pump set at 68 ft. Reported yield 95 gpm. Power and yield test on Aug. 8, 1966. Gravel packed. Temp. 75°F. <u>1</u> <u>5</u>
* 606	do.	do.	1965	75	7	75	do.	1,371	26.28 25.98	Mar. 23, 1966 Mar. 24, 1969	Sub, E 3	Irr	Slotted from 24 to 65 ft. Pump set at 68 ft. Reported yield 51 gpm. Power and yield test on Aug. 8, 1966. Gravel packed. Temp. 74°F. Texas Water Development Board observation well. <u>4</u> <u>5</u>
* 607	Mrs. Rainey	Ardean Kimmell Irrigation Service	1964	90	8	90	do.	--	45.39	Aug. 9, 1965	Sub, E 3	Irr	Completed from 40 to 90 ft. Pump set at 80 ft. Gravel packed. Temp. 70°F.
608	do.	Robert Lee-Bob-Burnhill	1965	105	8	105	do.	--	42 39.8	June 2, 1965 Aug. 9, 1965	Sub, E 5	Irr	Completed from 39 to 53 and 65 to 95 ft. Pump set at 92 ft. Reported yield 100 gpm. Haydite packed. <u>1</u>
609	R. A. Barnett	N. L. Box Drilling Contractor	1965	78	8	78	do.	--	9	Dec. 28, 1965	Sub, E 1-1/2	Irr	Slotted from 20 to 74 ft. Pumping level 65 ft at 125 gpm on Dec. 28, 1965. Gravel packed. <u>1</u>
610	do.	do.	1965	63	7	63	do.	--	10	do.	Sub, E 3/4	Irr	Slotted from 20 to 60 ft. Pumping level 60 ft at 20 gpm on Dec. 28, 1965. Gravel packed. <u>1</u>
611	do.	do.	1966	75	7	75	do.	--	10	Jan. 3, 1966	Sub, E 3	Irr	Slotted from 26 to 72 ft. Pumping level 65 ft at 40 gpm on Jan. 3, 1966. Gravel packed. <u>1</u>
612	George Warren	do.	1966	45	7	45	do.	--	9	Feb. 28, 1966	--	Irr	Slotted from 14 to 29 ft. Pumping level 39 ft at 75 gpm on Feb. 28, 1966. Gravel packed. <u>1</u>
613	Arnold Butler	Continental Water Well Drilling Co.	1966	100	8	84	do.	--	10	Feb. 3, 1966	--	Irr	Perforated from 12 to 84 ft. Pumping level 75 ft at 110 gpm on Feb. 3, 1966. Gravel packed. <u>1</u>
802	-- Kirk	--	1906	100.5	5	--	do.	--	57	May 26, 1937	T, E 1/4	D, S	--
805	Ray Williams	Sam H. Smith Drilling Contractor	1965	170	8	170	P	--	10	Nov. 1965	Sub, E	Irr	Slotted. Reported yield 50 gpm. Gravel packed. Cemented from 10 ft to surface. <u>1</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF TEST	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-51-806	J. B. Hodges	M and L Drilling Co.	1964	251	8 7	153 251	Ktp, P	--	53.00	July 20, 1965	Sub, E 7-1/2	Irr	Completed from 40 to 55, 118 to 210 and 210 to 250 ft. Pump set at 240 ft. Reported yield 80 gpm. Gravel packed to 150 ft. <u>1</u>
807	do.	Ardean Kimmell Irrigation Service	1964	149	10	149	do.	--	30	do.	Sub, R 3	Irr	Pump set at 135 ft. Reported yield 60 gpm. Gravel packed.
808	do.	M and L Drilling Co.	1964	150	10	150	do.	--	--	--	N	N	Completed from 0 to 150 ft.
901	Blvin Walker	Pace Water Well Service	1964	127	7	50	Ktp	1,328	1.05 +.98	Aug. 11, 1965 Mar. 26, 1969	R, C	Irr	Pump set at 30 ft. Estimated yield 120 gpm. Gravel packed. Texas Water Development Board observation well. <u>4</u>
902	do.	do.	1964	44	7	44	do.	--	3.15	Aug. 11, 1965	R, S 1	Irr	Completed from 6 to 44 ft. Pump set at 30 ft. Reported yield 50 gpm. Gravel packed.
52-201	R. W. Duke	R. W. Duke	1967	80	8	80	do.	--	--	--	Sub, E 2	Irr	Perforated from 60 to 80 ft. Pump set at 77 ft. Reported yield 12 gpm. Measured yield 12.1 gpm. Power and yield test on Aug. 17, 1967. Gravel packed. <u>5</u>
202	do.	do.	1966	96	8	96	do.	--	--	--	Sub, R 3	Irr	Perforated from 76 to 96 feet. Pump set at 93 ft. Reported yield 20 gpm. Measured yield 19.5 gpm. Power and yield test on Aug. 17, 1967. Gravel packed. <u>5</u>
203	do.	do.	1966	92	8	92	do.	--	88.0	Aug. 17, 1967	Sub, E 3	Irr	Perforated from 72 to 92 ft. Pump set at 89 ft. Measured yield 16 gpm. Power and yield test on Aug. 17, 1967. Gravel packed. <u>5</u>
204	R. M. Pack	E. G. Watson	1966	100	8	100	do.	--	--	--	Sub, E 7-1/2	Irr	Slotted. Pump set at 89 ft. Power and yield test on Aug. 10, 1966. <u>5</u>
205	do.	do.	1966	106	8	106	do.	--	48.87	Sept. 10, 1968	Sub, E 10	Irr	Slotted. Pump set at 94 ft. Power and yield test on Aug. 10, 1966. Gravel packed. <u>5</u>
401	Roy Parks	N. L. Box Drilling Contractor	1961	84	7	84	do.	--	26.15 27.41	Oct. 6, 1965 June 28, 1966	Sub, E 7-1/2	Irr	Completed from 15 to 25 ft. Pump set at 76 ft. Reported yield 225 gpm. Measured yield 114.7 gpm. Power and yield test at sprinkler on Aug. 5, 1966. <u>5</u>
* 402	R. M. Higginbotham	--	1925	60	--	--	do.	--	34	May 21, 1937	--	D	--
403	Cedrick Bettis	A. L. Varner	1965	95	7	95	do.	--	--	--	Sub, E 7-1/2	Irr	Slotted. Gravel packed. <u>1</u>
404	do.	do.	1965	70	7	70	do.	--	--	--	Sub, E 5	Irr	do.
405	Herman Gilder	Lightfoot and McCrum	1964	58	7	58	do.	--	--	--	--	Irr	Slotted from 8 to 52 ft. Gravel packed. <u>1</u>
406	do.	do.	1965	80	7	80	do.	--	19	Dec. 14, 1965	--	Irr	Slotted from 36 to 46 and 50 to 67 ft. Reported yield 70 gpm. Gravel packed. <u>1</u>
407	do.	Ardean Kimmell Irrigation Service	1966	78	8	78	do.	--	--	--	--	Irr	Slotted from 15 to 67 ft. Gravel packed. <u>1</u>
* 408	N. B. Gilbreath	Lightfoot and McCrum	1967	80	8	80	Khe, Kho	--	--	--	Sub, E	Irr	Slotted from 20 to 24 and 60 to 71 ft. Reported yield 70 gpm. Gravel packed. <u>1</u>
* 409	do.	do.	1967	84	8	84	Kho	--	--	--	Sub, E	Irr	Slotted from 60 to 73 ft. Gravel packed. <u>1</u>
* 410	do.	do.	1967	80	8	80	do.	--	--	--	Sub, E	Irr	Slotted from 55 to 71 ft. Gravel packed. <u>1</u>
501	N. L. Box	N. L. Box Drilling Contractor	1953	90	7	90	Ktp	--	38.00	June 28, 1966	C, E 1-1/2	Irr	Completed from 42 to 48 and 58 to 77 ft. Pump set at 84 ft. Reported yield 40 gpm. Gravel packed. <u>1</u>

See footnotes at end of table.

CORANICHE COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-52-502	Clarence Craft	N. L. Box Drilling Contractor	1958	91	8	91	Ktp	--	35.68	July 14, 1965	Sub, E 3/4	Irr	Completed from 55 to 85 ft. Reported yield 40 gpm. Measured yield 11.1 gpm. Power and yield test on Aug. 8, 1966. Gravel packed. <u>1/ 5/</u>
503	N. L. Box	do.	--	83	7	83	do.	1,338	14.30 15.80	Oct. 12, 1965 Mar. 24, 1969	N	N	Completed from 40 to 83 ft. Reported yield 18 gpm. Texas Water Development Board observation well. <u>1/ 4/</u>
* 504	Clyde Sartzler	do.	1964	74	7	74	do.	--	--	--	Sub, E 3	Irr	Completed from 40 to 68 ft. Pump set at 65 ft. Reported yield 52 gpm. Gravel packed. Temp. 70°F. <u>1/</u>
* 505	G. W. Garter	do.	1963	83	6	83	P	--	--	--	J, E 1/2	D	Perforated from 44 to 54 ft. Water tastes and smells like crude oil.
506	George Goest	Alford James Crice	1966	87	8	87	Ktp	--	--	--	Sub, E	Irr	Slotted. Reported yield 50 gpm. Gravel packed. <u>1/</u>
507	do.	do.	1966	65	8	65	do.	--	--	--	Sub, E 1-1/2	Irr	Gravel packed. <u>1/</u>
605	B. E. Hanson	J. T. Carson	1965	88	8	88	do.	1,282	57.57 37.63	July 16, 1965 Mar. 24, 1969	Sub, E 15	Irr	Pump set at 72 ft. Reported yield 300 gpm. Gravel packed. Texas Water Development Board Observation well. <u>1/ 4/</u>
606	do.	Lightfoot and McCrum	1965	104	10	104	do.	--	74.19	July 16, 1965	Sub, E 5	Irr	Gravel Packed. <u>1/</u>
607	do.	J. T. Carson	1965	95	8	95	do.	--	88.79	do.	Sub, E 5	Irr	Reported yield 100 gpm. Gravel packed. <u>1/</u>
* 608	C. H. George	N. L. Box Drilling Contractor	1963	103	8	103	do.	--	37.45	Aug. 9, 1965	Sub, E 15	Irr	Pump set at 95 ft. Reported yield 248 gpm. Measured yield 137.1 gpm. Power and yield test at sprinkler on Aug. 5, 1966. Gravel packed. Temp. 68°F. <u>5/</u>
609	do.	Robert Lee-Bob-Bardhill	1961	131	8	112	do.	--	--	--	Sub, E 10	Irr	Pump set at 106 ft. Measured yield 43.6 gpm. Power and yield test at sprinkler on Aug. 8, 1966. Gravel packed. <u>1/ 5/</u>
610	B. E. Hanson	Lightfoot and McCrum	1965	104	8	104	do.	--	--	--	--	Irr	Slotted from 35 to 79 ft. Gravel packed. <u>1/</u>
511	L. V. Park	Ardean Kimmell Irrigation Service	1967	77	8	77	do.	--	25 26.70	Jan. 27, 1967 Mar. 24, 1969	Sub, E 3	Irr	Slotted from 26 to 56 ft. Pumping level 75 ft at 66 gpm on Jan 27, 1967. Pump set at 75 ft. Power and yield test on Aug. 17, 1967. Gravel packed. Texas Water Development Board observation well. <u>1/ 4/ 5/</u>
612	do.	do.	1967	92	8	92	do.	--	17	Jan. 30, 1967	Sub, E 5	Irr	Slotted from 18 to 40 and 70 to 82 ft. Pumping level 83 ft at 80 gpm on Jan. 30, 1967. Pump set at 85 ft. Power and yield test on Aug. 17, 1967. Gravel packed. <u>1/ 5/</u>
613	do.	do.	1967	116	8	109	do.	--	30	Mar. 14, 1967	Sub, E 3	Irr	Slotted from 35 to 50 and 70 to 107 ft. Pumping level 102 ft at 85 gpm on Mar. 14, 1967. Pump set at 103 ft. Power and yield test on Aug. 17, 1967. Gravel packed. <u>1/ 5/</u>
701	R. Robinson	N. L. Box Drilling Contractor	--	67	7	67	do.	--	13	Jan. 13, 1960	J, E 1/4	D	Gravel packed. <u>1/</u>
* 703	Larry Womack Nursery	do.	1963	90	5	90	do.	--	37.11 41.05	July 13, 1965 Mar. 13, 1969	Sub, E 1	Irr	Pump set at 85 ft. Measured yield 27 gpm. Power and yield test on June 28, 1966. Gravel packed. Temp. 69°F. <u>5/</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTI TUD E OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-52-704	Claude Devoll	Lightfoot and McCrum	1963	80	7	80	Ktp	--	40 52.10 46.09	Apr. 15, 1965 July 29, 1965 June 21, 1966	Sub, E 5	Irr	Pump set at 70 ft. Power and yield test on Aug. 5, 1966, Gravel packed. <u>Y</u> <u>5</u>
705	do.	do.	1963	119	7	119	do.	--	40 60.5	Apr. 15, 1965 July 29, 1965	Sub, E 5	Irr	Power and Yield test on Aug. 5, 1966. Gravel Packed. <u>Y</u> <u>5</u>
706	do.	Roy Parker	1963	109	7	109	do.	--	27.82	July 29, 1965	Sub, E 5	Irr	Power and yield test on Aug. 5, 1966. Gravel packed. <u>5</u>
* 707	Dale George	Robert Lee-Bob-Barnhill	1964	82	7	82	do.	--	58.5 40.30	July 13, 1965 June 28, 1966	Sub, R 5	Irr	Completed from 20 to 74 ft. Pump set at 76 ft. Reported yield 80 gpm. Gravel packed. Temp. 67°F. <u>Y</u>
708	do.	do.	1964	85	7	85	do.	--	31.68 42.86	July 13, 1965 June 28, 1966	Sub, E 5	Irr	Completed from 20 to 74 ft. Pump set at 77 ft. Reported yield 80 gpm. Gravel packed. <u>Y</u>
709	do.	Lightfoot and McCrum	1965	110	5	110	do.	1,372	49.96 50.03	June 30, 1966 Mar. 24, 1969	Sub, R 2-1/2	Irr	Perforated from 63 to 90 ft. Reported yield 50 gpm. Gravel packed. Texas Water Development Board observation well. <u>Y</u> <u>2</u> <u>4</u>
* 710	Larry Womack Nursery	Womack Drilling Co.	1967	100	8	100	do.	--	57.58	Mar. 13, 1969	Sub, E 5	Irr	Pump set at 90 ft. Temp. 68°F.
801	Cedric Bettis	N. L. Box Drilling Contractor	1958	107	8	107	do.	--	50.9	July 19, 1965	Sub, R 5	Irr	Perforated. Reported yield 104 gpm. Gravel packed. <u>Y</u>
802	E. Joiner	do.	--	107	--	--	do.	--	--	--	J, E 1/4	D	<u>Y</u>
803	Cedric Bettis	A. L. Varner	1965	97	7	97	do.	--	--	--	Sub, E 7-1/2	Irr	Slotted. Gravel packed. <u>Y</u>
804	John W. Boswell	Johnny Weir Drilling	1967	140	8	140	do.	1,367	80.65	Mar. 24, 1969	Sub, E 10	Irr	Slotted. Pump set at 135 ft. Power and yield test on Aug. 15, 1967. Texas Water Development Board observation well. <u>Y</u> <u>4</u> <u>5</u>
805	do.	do.	1967	131	8	131	do.	--	--	--	Sub, E 15	Irr	Slotted from 71 to 131 ft. Pump set at 125 ft. Power and yield test on Aug. 15, 1967. <u>Y</u> <u>5</u>
806	do.	do.	1967	146	8	146	do.	--	--	--	Sub, E 10	Irr	Slotted from 86 to 146 ft. Pump set at 140 ft. Power and yield test on Aug. 15, 1967. <u>Y</u> <u>5</u>
901	R. L. George	N. L. Box Drilling Contractor	1964	102	7	102	do.	--	45.9	July 13, 1965	Sub, E 5	Irr	Completed from 18 to 34 and 47 to 97 ft. Pump set at 95 ft. Reported yield 63 gpm. Gravel packed. <u>Y</u>
902	do.	do.	1965	104	8	104	do.	--	6	Feb. 11, 1965	Sub, E 7-1/2	Irr	Slotted from 15 to 19 and 22 to 100 ft. Pumping level 100 ft at 190 gpm on Feb. 11, 1965. Measured yield 102.3 gpm. Power and yield test at sprinkler on Aug. 8, 1966. Gravel packed. <u>5</u>
903	do.	do.	1964	101	8	100	do.	--	--	--	Sub, R 7-1/2	Irr	Completed from 46 to 96 ft. Pump set at 88 ft. Reported yield 155 gpm. Gravel packed. <u>Y</u>
904	Feltz Terrill	Pace Water Well Service	1964	97	6	97	do.	1,294	14.95 33.60	July 15, 1965 Mar. 24, 1969	Sub, E 7-1/2	Irr	Completed from 15 to 97 ft. Pump set at 94 ft. Gravel packed. Texas Water Development Board observation well. <u>4</u>
905	do.	do.	1965	95	7	95	do.	--	13.0	July 15, 1965	Sub, E	Irr	Completed from 15 to 95 ft. Gravel packed.
906	Alvis Kimmell	Ardean Kimmell Irrigation Service	1965	114	8	113	do.	--	22	Nov. 10, 1965	Sub, E 7-1/2	Irr	Slotted. Pumping level 113 ft at 125 gpm on Apr. 13, 1966. Pump set at 106 ft. Reported yield 115 gpm. Gravel packed. <u>Y</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
* DY-31-52-907	Ray Joiner	Johnny Wehr Drilling	1967	110	8	110	Klp	--	37.77	Mar. 10, 1969	Sub, E	Irr	Slotted from 75 to 103 ft. Gravel packed. Temp. 65°F. <u>1</u>
* 908	do.	do.	1967	111	8	111	do.	--	--	--	Sub, E	Irr	Slotted from 85 to 100 ft. Gravel packed. <u>1</u>
909	do.	do.	1967	110	8	110	do.	--	--	--	Sub, R	Irr	Slotted. Gravel packed.
* 53-407	Ardean Kimmell	N. L. Box Drilling Contractor	1961	120	8	102	do.	1,290	95	July 16, 1965	Sub, K 10	Irr	Completed from 38 to 96 ft. Pump set at 95 ft. Estimated yield 120 gpm. Gravel packed. Temp. 70°F. <u>1</u>
408	do.	Ardean Kimmell Irrigation Service	1964	92	8	92	do.	1,290	20.79	do.	--	Irr	Completed from 28 to 92 ft. Reported yield 80 gpm. <u>1</u>
409	Alvis Kimmell	do.	1965	103	8	100	do.	1,290	25	Nov. 4, 1965	Sub, R 7-1/2	Irr	Pumping level 100 ft at 125 gpm on Apr. 13, 1966. Pump set at 95 ft. Reported yield 115 gpm. Gravel packed. <u>1</u>
410	Ardean Kimmell	do.	1965	99	--	--	do.	1,290	20	Nov. 20, 1965	--	Irr	Slotted. Pumping level 80 ft at 170 gpm on Mar. 4, 1966. Gravel packed. <u>1</u>
414	do.	do.	1968	115	8	115	Kho	1,303	.40 55.26	Aug. 27, 1968 Mar. 27, 1969	N	N	Slotted from 55 to 105 ft. Pumping level 105 ft at 65 gpm on Aug. 27, 1968. Gravel packed. Owner uses as observation well. Texas Water Development Board observation well. <u>1</u> <u>4</u>
701	James D. Gardner	N. L. Box Drilling Contractor	1957	116	6	116	Ktp	1,275	67 67.65	Oct. 1, 1959 Mar. 26, 1969	Sub, E 1	Irr	Completed from 40 to 116 ft. Pump set at 100 ft. Reported yield 30 gpm. Gravel packed. Texas Water Development Board observation well. <u>1</u> <u>4</u>
702	do.	do.	1955	120	6	120	do.	1,278	68	Oct. 1, 1959	T, E 3	Irr	Completed from 40 to 120 ft. Pump set at 105 ft. Reported yield 45 gpm. Measured yield 33.3 gpm. Power and yield test on July 29, 1966. <u>1</u> <u>5</u>
* 703	do.	do.	1955	112	6	112	do.	1,278	70	do.	T, E 3	Irr	Completed from 40 to 112 ft. Reported yield 45 gpm. Measured yield 28.5 gpm. Power and yield test on July 29, 1966. Temp. 69°F. <u>5</u>
704	do.	do.	1955	130	6	130	do.	1,275	--	--	T, E 5	Irr	Completed from 40 to 120 ft. Pump set at 115 ft. Estimated yield 100 gpm. Measured yield 72.7 gpm. Power and yield test on July 29, 1966. <u>1</u> <u>5</u>
705	do.	do.	1955	126	6	126	do.	1,275	--	--	T, E 5	Irr	Do.
706	do.	Terry Drilling and Supply Co.	1952	128	5	128	do.	1,299	77 70 81.91	Oct. 1, 1959 Dec. 9, 1959 July 13, 1965	T, E 5	Irr	Completed from 40 to 128 ft. Pump set at 105 ft. Reported yield 75 gpm. Measured yield 30.4 gpm. Power and yield test at sprinkler on July 29, 1966. <u>5</u>
707	do.	N. L. Box Drilling Contractor	1956	128	6	128	do.	1,289	--	--	T, E 5	Irr	Completed from 84 to 128 ft. Pump set at 125 ft. Reported yield 200 gpm.
708	do.	do.	1956	118	6	118	do.	1,289	--	--	T, R 5	Irr	Perforated from 22 to 25, 40 to 48, and 97 to 114 ft. Pump set at 115 ft. Reported yield 80 gpm.
709	R. D. Ross	Roy Parker	1956	100	10	100	do.	1,255	38	Oct. 22, 1959	T, E 25	Irr	Pump set at 95 ft. Estimated yield 140 gpm.
719	James D. Gardner	N. L. Box Drilling Contractor	1961	118	6	118	do.	1,289	--	--	T, E 5	Irr	Pump set at 110 ft. Gravel packed. <u>1</u>
720	Deryl Johnson	Lightfoot and McGraw	1965	116	7	116	do.	1,255	65	Mar. 8, 1965	Sub, E 7-1/2	Irr	Completed from 45 to 98 ft. Pump set at 100 ft. Gravel packed. <u>1</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-53-721	Dale Johnson	Lightfoot and McCrum	1965	105	7	105	Ktp	1,285	35 45.04	Mar. 2, 1965 Mar. 21, 1967	Sub, E 2	Irr	Completed from 25 to 40 and 60 to 97 ft. Pump set at 85 ft. Reported yield 50 gpm. Gravel packed. Texas Water Development Board observation well. <u>Y 4</u>
722	do.	do.	1965	112	7	112	do.	1,285	54.30 50.05	Apr. 19, 1966 Mar. 26, 1969	Sub, E 5	Irr	Completed from 62 to 105 ft. Pump set at 105 ft. Reported yield 70 gpm. Gravel packed. Texas Water Development Board observation well. <u>Y 4</u>
723	do.	Dale Johnson	1964	40	7	40	Xhe	1,285	--	--	Sub, E 2	Irr	Completed from 35 to 40 ft. Pump set at 37 ft. Reported yield 100 gpm. Gravel packed.
724	Alvis Kimmell	Ardean Kimmell Irrigation Service	1966	96	8	96	Ktp	1,285	14 50.89	Mar. 4, 1966 July 11, 1968	Sub, E 1	Irr	Slotted from 25 to 96 ft. Pumping level 85 ft at 30 gpm on Mar. 4, 1966. Measured yield 10.9 gpm. Power and yield test on Aug. 5, 1966. Gravel packed. <u>Y 5</u>
725	do.	do.	1966	80	5	80	do.	1,278	14	May 4, 1968	Sub, E 1	Irr	Perforated from 5 to 15, 32 to 40, and 56 to 76 ft. Pump set at 70 ft. Reported yield 30 gpm. Measured yield 8.3 gpm. Power and yield test on Aug. 5, 1966. Gravel packed. <u>Y 5</u>
726	P. R. George	N. L. Box Drilling Contractor	1966	102	7	102	do.	1,255	--	--	Sub, E 3	Irr	Slotted from 45 to 95 ft. Reported yield 130 gpm. Gravel packed. <u>Y</u>
727	do.	do.	1966	102	7	102	do.	1,255	--	--	--	Irr	Slotted from 45 to 95 ft. Reported yield 115 gpm. Gravel packed. <u>Y</u>
728	William L. Owens	do.	1966	83	5	83	do.	1,240	31	Feb. 18, 1966	Sub, E 1	Irr	Slotted from 32 to 82 ft. Pump set at 78 ft. Reported yield 30 gpm. Gravel packed. <u>Y</u>
729	do.	do.	1966	66	5	66	do.	1,235	26	Feb. 21, 1966	Sub, E 1-1/2	Irr	Slotted from 20 to 63 ft. Pump set at 58 ft. Reported yield 50 gpm. Gravel packed. <u>Y</u>
730	Dale Johnson	Lightfoot and McCrum	1966	110	7	110	do.	1,285	30	Mar. 12, 1966	--	Irr	Slotted from 30 to 35 and 55 to 103 ft. Reported yield 60 gpm. Gravel packed. <u>Y</u>
731	Deryl Johnson	do.	1966	102	7	102	do.	1,255	30	Mar. 18, 1966	--	Irr	Slotted from 40 to 96 ft. Reported yield 75 gpm. Gravel packed. <u>Y</u>
* 57-604	Oscar White	Roy Michael	1955	100	10	100	Ka	--	55	Dec. 10, 1959	Sub, E 10	Irr	Completed from 60 to 100 ft. Reported yield 140 gpm. Measured yield 73.3 gpm. Power and yield test at sprinkler on Aug. 9, 1966. Temp. 70°F. <u>Y</u>
605	do.	Windham and Michael	1964	105	10	105	do.	--	56.12	July 5, 1965	Sub, E 10	Irr	Perforated. Pumps oil some times and water smells like gas. <u>Y</u>
* 606	do.	J. R. Marr	--	100	10	100	do.	1,617	40.53 41.55	July 5, 1965 Mar. 15, 1967	Sub, E 10	Irr	Texas Water Development Board observation well. <u>Y</u>
* 58-702	Harold Pierson	Akin and Tower	1938	56	22 18 15	36 46 56	Ktp	--	22.0	July 9, 1965	Sub, E 3	Irr	Completed from 30 to 50 ft. Pump set at 46 ft. Reported yield 50 gpm. Gravel packed. Temp. 66°F.
703	T. E. Simonton	T. E. Simonton	1963	68	7	68	do.	1,606	38 33.57	July 9, 1965 Mar. 26, 1969	Sub, E 3	Irr	Completed from 28 to 40 and 50 to 68 ft. Pump set at 45 ft. Reported yield 60 gpm. Measured yield 43.4 gpm. Power and yield test on Aug. 9, 1966. Gravel packed. Texas Water Development Board observation well. <u>Y 4 5</u>
* 59-201	Webb Heathington	-- Bradley	1940	160	6	--	Ktp, P	--	--	--	C, E 1/2	I	--
202	Dean Pounds	J. R. Quarles	1965	85	8	85	Kcp	--	18	July 20, 1965	T, C	Irr	Completed from 26 to 85 ft. Pump set at 70 ft. Estimated yield 150 gpm. Gravel packed.

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft.)	CASING		WATER MAKING UNIT	AMPLITUDE OF LAND SURFACE (ft.)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft.)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft.)	DATE OF MEASUREMENT			
DY-31-59-203	Dean Pounds	Carl A. Taylor	1966	75	8	52	Ktp	--	17	Jan. 15, 1966	Sub, E 15	Irr	Slotted from 15 to 52 ft and open hole from 52 to 75 ft. Pump set at 50 ft. Reported yield 250 gpm. Gravel packed. <u>1</u>
204	do.	do.	1966	75	8	52	do.	--	20	Feb. 18, 1966	Sub, E 3	Irr	Slotted from 17 to 52 ft and open hole from 52 to 75 ft. Reported yield 30 gpm. Gravel packed. <u>1</u>
* 205	Toye Keith	--	--	106	5	106	do.	--	--	--	J, E 3/4	S	Pump set at 75 ft. Reported yield 10 gpm. Temp. 60°F.
* 301	Tom Johnson	N. L. Box Drilling Contractor	1964	219	7	218	P	1,334	57.96	July 19, 1965	Sub, E 15	Irr	Completed from 167 to 213 ft. Pump set at 213 ft. Reported yield 120 gpm. Power and yield test on Aug. 11, 1966. Gravel packed. Temp. 70°F. <u>1</u> <u>2</u>
* 302	E. L. White	Timmie Johnson	1964	262	7	262	Ktp, P	1,340	46.16 20.82	Mar. 23, 1966 Mar. 26, 1969	Sub, E 15	Irr	Completed from 20 to 40 and 222 to 262 ft. Pump set at 257 ft. Reported yield 85 gpm. Temp. 74°F. Texas Water Development Board observation well. <u>1</u>
303	L. E. Farley	Lightfoot and McCrum	1965	190	--	--	do.	--	--	--	N	N	Well was plugged and abandoned. <u>1</u>
* 304	Charlie Counts	Timmie Johnson	1964	145	8 7	22 145	Ktp	--	--	--	T, G 20	Irr	Completed from 18 to 22 ft, open hole from 22 to 62 ft, and completed from 62 to 72 ft. Pump set at 92 ft. Reported yield 220 gpm. Temp. 68°F.
305	Wendell Pounds	Carl A. Taylor	1965	100	8	100	do.	--	17	Dec. 30, 1965	Sub, E 2	Irr	Slotted from 25 to 95 ft. Measured yield 23.1 gpm. Power and yield test on July 28, 1966. Gravel packed. <u>1</u> <u>2</u>
306	do.	do.	1966	100	8	64	do.	--	15	Jan. 19, 1966	Sub, E 1-1/2	Irr	Slotted from 20 to 64 ft and open hole from 64 to 100 ft. Reported yield 30 gpm. Measured yield 18.1 gpm. Power and yield test on July 28, 1966. Gravel packed. <u>1</u> <u>2</u>
307	Tom Johnson	Lightfoot and McCrum	1966	205	8	205	Ktp, P	--	20	Jan. 11, 1966	Sub, E 10	Irr	Slotted from 20 to 32 and 169 to 197 ft. Reported yield 70 gpm. Power and yield test on Aug. 11, 1966. Gravel packed. <u>1</u> <u>2</u>
601	Herbert W. Buchanan	N. L. Box Drilling Contractor	1964	95	7	94	P	1,295	11.79 12.76 15.84 20.55	July 20, 1965 Mar. 23, 1966 Mar. 21, 1967 Mar. 22, 1968	Sub, E	Irr	Completed from 66 to 90 ft. Reported yield 60 gpm. Gravel packed. <u>1</u>
703	Charles Carter	Mac Bradford	1959	100	14 7	58 100	Ktp	1,467	23.62 23.89	June 29, 1966 Mar. 26, 1969	N	N	Perforated. Gravel packed. Texas Water Development Board observation well. <u>1</u> <u>2</u>
901	Jack Martin	-- Taylor	1870	42	48	--	do.	1,345	27 23.03	Oct. 24, 1959 Mar. 26, 1969	J, E 1/2	D, S	Dug well with brick wall. Texas Water Development Board observation well. <u>1</u>
60-101	Elvin Walker	Pate Water Well Service	1964	35	7	35	do.	1,268	10.03 11.46	Aug. 11, 1965 Mar. 26, 1969	R, E 1	Irr	Completed from 6 to 35 ft. Pump set at 30 ft. Reported yield 60 gpm. Gravel packed. Texas Water Development Board observation well. <u>1</u>
102	do.	do.	1965	35	5	35	do.	--	9.7	Aug. 11, 1965	R, E	Irr	Completed from 6 to 35 ft. Pump set at 30 ft. Reported yield 20 gpm. Gravel packed.
103	do.	do.	--	35	7	35	do.	--	7.62	do.	--	Irr	Completed from 6 to 35 ft. Reported yield 30 gpm. Gravel packed.
201	C. W. Crawford	N. L. Box Drilling Contractor	1954	74	8	74	do.	--	50	Oct. 21, 1959	G, E 1	Irr	Completed from 50 to 74 ft. Gravel packed.
* 202	do.	do.	1958	74	8	74	do.	--	47 44.85	Oct. 21, 1959 July 12, 1965	Sub, E 1	D	Completed from 50 to 70 ft. Pumping level 55 ft at 35 gpm. Reported yield 40 gpm. Gravel packed. <u>1</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water 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
					DJAM-PIPER (in.)	DEPTH (ft.)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft.)	DATE OF MEASUREMENT			
DY-31-60-203	L. M. Richman	L. M. Richman	1956	85	7	85	Klp	--	57	Oct. 22, 1959	T, E 3	Irr	Completed from 60 to 85 ft. Pump set at 84 ft. Reported yield 80 gpm. Well was drilled to 115 ft and plugged back to 85 ft. 1/
204	do.	do.	1956	85	5	85	do.	--	52	do.	T, E 3	Irr	Perforated from 48 to 55, 59 to 78, and 79 to 81 ft. Reported yield 80 gpm. 1/
205	do.	--	1955	85	7	85	do.	1,301	61	do.	T, E 3	Irr	Perforated. Pump set at 85 ft. Reported yield 70 gpm.
206	Bill Dendy	N. L. Box Drilling Contractor	1956	71	6	--	do.	1,337	45 42.08	Dec. 9, 1959 Mar. 24, 1969	C, R	Irr	Completed from 43 to 63 ft. Reported yield 75 gpm. Texas Water Development Board observation well. 1/ 4/
* 209	L. M. Richman	M and L Drilling Co.	1964	103	6	103	do.	1,319	57 67.13 66.90	July 13, 1965 Mar. 24, 1966 Mar. 7, 1967	Sub, E 3	Irr	Reported yield 80 gpm. Measured yield 72.7 gpm. Power and yield test on Aug. 16, 1966. Gravel packed. Temp. 70°F. 5/
210	do.	do.	1964	103	6	103	do.	1,318	66.32 67.03	Mar. 24, 1966 Mar. 7, 1967	Sub, E 2	Irr	Measured yield 64.8 gpm. Power and yield test on Aug. 16, 1966. Gravel packed. 5/
211	do.	do.	1964	103	6	103	do.	1,311	59.22 58.82	Sept. 1, 1966 Mar. 26, 1969	N	N	Pumping level 84 ft at 140 gpm in 1964. Texas Water Development Board observation well. 4/
212	C. A. Short	Holdridge Drilling Co.	1966	106	7	102	do.	--	--	--	Sub, E 3	Irr	Slotted from 52 to 58 and 80 to 102 ft. Pump set at 91 ft. Measured yield 35.8 gpm. Power and yield test at sprinkler on Aug. 15, 1966. Gravel packed. 5/
* 213	Bill Wilkerson	N. L. Box Drilling Contractor	1964	98	5	98	Kho	1,308	60 52.96	Oct. 9, 1964 Mar. 26, 1969	Sub, E 2	Ind	Completed from 72 to 93 ft. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. 1/ 4/
214	N. L. Box	do.	1966	100	8	100	do.	1,321	40 38.92	Dec. 5, 1966 Jan. 23, 1969	Sub, E	Irr	Slotted from 42 to 95 ft. Pumping level 90 ft at 100 gpm on Dec. 5, 1966. Gravel packed. 1/
* 215	do.	do.	1967	100	8	100	do.	1,323	44 41.87 41.59	Aug. 2, 1967 Jan. 23, 1969 Mar. 25, 1969	Sub, E 7-1/2	Irr	Slotted from 46 to 96 ft. Pumping level 84 ft at 125 gpm on Aug. 2, 1967. Pumping level 78 ft at 80 gpm on Mar. 27, 1969. Pump set at 95 ft. Reported yield 100 gpm. Gravel packed. 1/ 3/
216	do.	Texas Water Development board	1969	101	7 2	45.5 101	Kho	1,323	40.49 40.18 39.50	Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969	N	N	Slotted from 38 to 101 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Casing pulled and well plugged and abandoned. 2/ 3/
* 217	do.	do.	1969	103	7 2	45.5 103	do.	1,324	41.37 41.19 40.36 41.16 41.27	Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969 Mar. 24, 1969 Mar. 25, 1969	N	N	Slotted from 40 to 103 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Casing pulled and well plugged and abandoned. 2/ 3/
* 218	do.	do.	1969	101	7 2	42 85	do.	1,326	41.89 42.17 42.09 41.64	Mar. 19, 1969 Mar. 21, 1969 Mar. 22, 1969 Mar. 24, 1969	N	N	Slotted from 43 to 84 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Casing pulled and well plugged and abandoned. 1/ 2/ 3/
219	do.	do.	1969	105	5 2	44 105	do.	1,322	40.01 39.60 39.89 39.75 39.95	Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969 Mar. 24, 1969 Mar. 25, 1969	N	N	Slotted from 40 to 105 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Casing pulled and well plugged and abandoned. 2/ 3/

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF MEASUREMENT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (AND SURFACE DATUM) (ft)	DATE OF MEASUREMENT			
BY-31-60-220	N. L. Box	Texas Water Development Board	1969	105	7 2	39 105	Kho	1,321	39.49 39.04 38.37 39.09 39.23	Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969 Mar. 24, 1969 Mar. 25, 1969	N	N	Slotted from 42 to 105 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Temp. 67°F. Casing pulled and well plugged and abandoned. <u>2</u> <u>3</u>
* 221	do.	do.	1969	32	2	31.5	Khe	1,322	14.18 14.34 13.85 13.02 13.70 13.73	Mar. 19, 1969 Mar. 21, 1969 Mar. 22, 1969 Mar. 23, 1969 Mar. 24, 1969 Mar. 25, 1969	N	N	Slotted from 20.6 to 31 ft. Well drilled as observation well for pumping test on well DY-31-60-215. Temp. 67°F. Casing pulled and well plugged and abandoned. <u>2</u>
301	M.K.&T. Railroad Co.	--	--	150	8	150	Ktp, P	--	34	Oct. 15, 1959	T, E 5	P	Pump set at 140 ft.
303	Fred Cuze	M. L. Box Drilling Contractor	--	70	8	30	Ktp	1,286	26.20 27.40	Apr. 1, 1966 Mar. 7, 1967	--	D	Well drilled to 110 ft and plugged back to 70 ft. <u>1</u>
305	City of DeLeon	--	--	178	4	--	Ktp, P	1,268	45	Mar. 20, 1946	N	N	Well plugged and abandoned. <u>3</u>
306	do.	--	--	150	6	--	do.	--	100	do.	Sub, E 3	P	Well drilled to 210 ft and plugged back to 150 ft.
307	do.	--	--	210	6	--	do.	--	100	do.	N	N	Well plugged and abandoned.
308	do.	--	--	200	6	--	do.	--	100	do.	N	N	Abandoned.
309	do.	--	--	200	6	--	do.	--	100	do.	T, E 3	P	Pump set at 165 ft. Reported yield 25 gpm.
310	do.	J. B. Tatum	--	150	6	--	do.	--	100	Oct. 21, 1960	N	N	Abandoned.
311	do.	--	--	150	6	--	do.	--	100	Mar. 20, 1946	T, E 3	P	Pump set at 145 ft. Reported yield 25 gpm.
* 312	do.	--	--	200	6	--	do.	--	--	--	N	N	Abandoned.
313	do.	J. B. Tatum	--	150	8	--	do.	--	--	--	N	N	Do.
314	do.	do.	--	200	6	--	do.	--	--	--	T, E 3	P	Pump set at 165 ft. Reported yield 25 gpm.
* 315	do.	do.	--	200	6	--	do.	--	--	--	T, E 3	P	Pump set at 165 ft. Reported yield 25 gpm. Temp. 68.5°F.
317	M.K.&T. Railroad Co.	--	--	195	8	--	do.	--	--	--	T, E 7-1/2	P	Pump set at 145 ft. Reported yield 96 gpm.
318	do.	--	--	155	8	--	do.	--	--	--	T, E 7-1/2	P	Pump set at 140 ft. Reported yield 93 gpm.
319	do.	--	--	125	8	--	do.	--	--	--	T, E 5	P	Pump set at 110 ft.
320	do.	--	--	150	6	--	do.	--	--	--	Sub, E 3	P	Do.
321	City of DeLeon	--	--	150	8	--	do.	--	--	--	T, E 3	P	Pump set at 140 ft.
322	do.	--	--	150	8	--	do.	--	--	--	T, E 3	P	Pump set at 145 ft.
323	do.	--	--	150	8	--	do.	--	--	--	T, E 3	P	Do.

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
0Y-31-60-324	City of DeLeon	--	--	150	8	--	Ktp, P	--	--	--	T, E 3	P	Pump set at 145 ft.
325	J. J. Mathis	Ardean Kimmell Irrigation Service	1966	94	8	94	Ktp	1,280	50	Apr. 5, 1966	Sub, E 3	Irr	Slotted from 58 to 94 ft. Pumping level 80 ft at 90 gpm on Apr. 5, 1966. Gravel packed. <u>4</u>
326	do.	do.	1966	87	8	87	do.	--	54	Apr. 13, 1966	Sub, E 3	Irr	Slotted from 50 to 82 ft. Pumping level 80 ft at 140 gpm on Apr. 13, 1966. Gravel packed. <u>4</u>
327	do.	do.	1966	86	8	86	do.	--	50	Apr. 18, 1966	Sub, E 3	Irr	Slotted from 55 to 84 ft. Pumping level 80 ft at 90 gpm on Apr. 18, 1966. Gravel packed. <u>4</u>
328	do.	do.	1966	80	8	80	do.	--	40	Apr. 20, 1966	Sub, E 3	Irr	Slotted from 45 to 80 ft. Pumping level 70 ft at 150 gpm on Apr. 20, 1966. Gravel packed. <u>4</u>
401	O. G. Gilchrist	N. L. Box Drilling Contractor	--	55	5	55	do.	1,294	13.24 12.83	Mar. 24, 1966 Mar. 26, 1969	--	D	Reported yield 2.5 gpm. Texas Water Development Board observation well. <u>4</u> <u>4</u>
501	Billy Gray	do.	1964	85	7	85	do.	--	18 39.85	June 8, 1964 Sept. 28, 1965	Sub, E 3	Irr	Completed from 25 to 80 ft. Pump set at 80 ft. Reported yield 42 gpm. Gravel packed. <u>4</u>
502	Tomnie Lawless	do.	--	95	5	95	do.	--	41.31	Mar. 7, 1967	Sub, E 3/4	Irr	Reported yield 29 gpm. Measured yield 26.3 gpm. Power and yield test on July 28, 1966. <u>5</u>
503	do.	do.	--	55	5	55	do.	1,253	16.00 17.42	Mar. 24, 1966 Mar. 26, 1969	J, R 1/2	D	Gravel packed. Texas Water Development Board observation well. <u>4</u>
601	Elmon Kerby	Ardean Kimmell Irrigation Service	1966	124	8	83	do.	--	40	Feb. 18, 1966	Sub, E 1-1/2	Irr	Perforated from 0 to 74 ft. Pumping level 70 ft at 70 gpm on Feb. 18, 1966. Gravel packed. <u>4</u>
602	do.	do.	1966	75	8	75	do.	--	40	Feb. 21, 1966	Sub, E 3	Irr	Slotted. Pumping level 70 ft at 90 gpm on Feb. 21, 1966. Gravel packed. <u>4</u>
603	do.	do.	1966	78	8	78	do.	--	37	Apr. 8, 1966	Sub, E 2	Irr	Slotted. Pumping level 70 ft at 80 gpm on Apr. 8, 1966. Gravel packed. <u>4</u>
604	Fred Williams	Edwin Davis and Tredell Drilling	1967	120	--	--	do.	1,280	--	--	N	N	Drilled as test hole. <u>4</u>
605	Tomnie Taylor	Smith and Wolf Drilling Co.	1967	80	8	80	do.	--	61.6	Aug. 15, 1967	Sub, E 3	Irr	Perforated. Reported yield 36.6 gpm. Measured yield 36.1 gpm. Power and yield test on Aug. 15, 1967. Gravel packed. <u>4</u> <u>5</u>
606	do.	do.	1967	90	8	90	do.	--	--	--	Sub, E 3	N	Perforated. Gravel packed. <u>4</u>
607	do.	do.	1967	98	8	98	do.	--	84.5	Aug. 15, 1967	Sub, E 3	Irr	Perforated. Reported yield 49.2 gpm. Measured yield 48.7 gpm. Power and yield test on Aug. 15, 1967. Gravel packed. <u>4</u> <u>5</u>
608	do.	do.	1967	85	8	85	do.	--	68	do.	Sub, E 3	Irr	Perforated. Reported yield 68.2 gpm. Measured yield 66.5 gpm. Power and yield test on Aug. 15, 1967. Gravel packed. <u>4</u> <u>5</u>
701	Ray McGinnis	do.	1966	78	7	78	do.	--	--	--	Sub, E 1-1/2	Irr	Completed from 50 to 78 ft. Reported yield 35 gpm. Measured yield 34.7 gpm. Power and yield test on July 25, 1967. Gravel packed. <u>5</u>
801	Gayle McGinnis	N. L. Box Drilling Contractor	1953	38	10	38	do.	--	19	Oct. 22, 1959	N	N	Reported yield 90 gpm. <u>4</u>
* 802	do.	do.	1953	25	6	25	do.	1,239	10.11 12.79	July 12, 1965 Mar. 24, 1966	R, E 1/2	D, Irr	Perforated from 8 to 25 ft. Reported yield 50 gpm. Temp. 66°F.

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft.)	CASTING		WATER BEARING UNIT	ASPIRATOR OF LAND SURFACE (ft.)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft.)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft.)	DATE OF MEASUREMENT			
DY-31-60-803	Cayle McGinnis	Mac Bradford	1953	40	6	--	Ktp	--	13	Oct. 22, 1959	N	N	Perforated from 8 to 25 ft. Well plugged and abandoned.
804	do.	--	--	35	8	35	do.	--	11	do.	T, E	Irr	Perforated from 13 to 35 ft. Dug well with brick wall, with 8 in. casing sec. Gravel packed.
805	do.	N. L. Box Drilling Contractor	1953	39	8	38	do.	--	9.08	July 12, 1965	T, E 1	Irr	Perforated from 13 to 38 ft. <u>1</u>
806	Rex McGinnis	--	1955	65	6	65	do.	--	--	--	N	N	Perforated from 43 to 65 ft. Reported yield 60 gpm. Well plugged and abandoned.
807	Cayle McGinnis	L. L. Spears Water Well Drilling	1966	58	8	58	do.	1,251	20.62	June 30, 1966	Sub, E 5	Irr	Perforated from 33 to 58 ft. Gravel packed. <u>2</u>
* 808	do.	M and I Drilling Co.	1964	110	12	110	do.	--	11.26	July 12, 1965	R, E	Irr	Gravel packed. Temp. 68°F.
809	Rex McGinnis	Holdridge Drilling Co.	1967	80	8	80	do.	--	--	--	Sub, E 3	Irr	Slotted from 50 to 80 ft. Measured yield 64.7 gpm. Power and yield test on July 25, 1967. Gravel packed. <u>2</u>
810	do.	Ardean Kimmell Irrigation Service	1966	48	8	48	do.	--	--	--	Sub, E 1-1/2	Irr	Slotted. Reported yield 36 gpm. Measured yield 35.9 gpm. Power and yield test on July 25, 1967. Gravel packed. <u>2</u>
811	do.	do.	1966	60	8	60	do.	--	--	--	Sub, E 10	Irr	Slotted. Power and yield test on July 25, 1967. Gravel packed. <u>2</u>
812	do.	Holdridge Drilling Co.	1967	60	8	60	do.	--	--	--	Sub, E 5	Irr	Do.
901	I. N. Orissom	-- Scott	--	76	4	--	do.	1,213	33 29.12	Jan. 20, 1960 Mar. 27, 1969	T, N	D, S	Texas Water Development Board observation well. <u>4</u>
61-103	Robert Hodges	N. L. Box Drilling Contractor	1965	116	--	--	do.	1,250	45	Jan. 21, 1965	N	N	Reported yield 35 gpm. Well plugged and abandoned. <u>1</u>
104	do.	do.	1965	86	5	86	Kho	1,252	66.1	July 19, 1965	Sub, E 3	Irr	Completed from 58 to 80 ft. Gravel packed. <u>1</u>
105	do.	do.	1965	187	7	83	Ktp	1,255	69.93	do.	Sub, E 3	Irr	Completed from 28 to 80 ft. Reported yield 60 gpm. Gravel packed. <u>1</u>
106	do.	do.	1965	92	5	91	Kho	1,257	72.71	do.	Sub, E 3	Irr	Completed from 48 to 88 ft. Reported yield 50 gpm. Gravel packed. <u>1</u>
* 107	do.	do.	--	95	7	95	do.	1,258	69.31	do.	Sub, E 3	Irr	Completed from 45 to 90 ft. Reported yield 52 gpm. Gravel packed. Temp. 70°F. <u>1</u>
108	do.	do.	1966	83	5	83	Ktp	1,247	--	--	Sub, E 3	Irr	Slotted from 40 to 78 ft. Pump set at 70 ft. Reported yield 50 gpm. Gravel packed. <u>1</u>
109	do.	do.	1966	97	7	97	Kho	1,250	--	--	Sub, E 3	Irr	Slotted from 40 to 89 ft. Pump set at 85 ft. Reported yield 60 gpm. Power and yield test on Aug. 10, 1966. Gravel packed. Temp. 66°F. <u>1</u> <u>2</u>
110	do.	do.	1966	100	7	100	Ktp	1,255	--	--	Sub, E 3	Irr	Slotted from 45 to 95 ft. Pump set at 85 ft. Reported yield 100 gpm. Power and yield test on Aug. 10, 1966. Gravel packed. <u>1</u> <u>2</u>
111	do.	do.	1966	105	7	105	do.	1,248	--	--	Sub, E 3	Irr	Slotted from 66 to 100 ft. Pump set at 90 ft. Reported yield 60 gpm. Power and yield test on Aug. 10, 1966. Gravel packed. <u>1</u> <u>2</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-61-112	Bill Wood	Lightfoot and McFrum	1966	65	7	65	Kho	1,240	35	June 28, 1966	Sub, E 1	Irr	Slotted from 40 to 57 ft. Pumping level 45 ft at 80 gpm on June 29, 1966. Pump set at 60 ft. Reported yield 21 gpm. Measured yield 21.2 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. <u>ly</u> <u>5y</u>
113	do.	do.	1966	66	7	66	do.	1,235	35	June 30, 1966	Sub, E 2	Irr	Slotted from 40 to 57 ft. Pumping level 40 ft at 75 gpm on July 1, 1966. Pump set at 60 ft. Reported yield 41 gpm. Measured yield 41.1 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. <u>ly</u> <u>5y</u>
114	do.	do.	1966	63	7	63	do.	1,230	35	July 2, 1966	Sub, E 2	Irr	Completed from 38 to 54 ft. Pumping level 40 ft at 75 gpm on July 2, 1966. Pump set at 60 ft. Reported yield 33 gpm. Measured yield 33.4 gpm. Power and yield test on Aug. 16, 1966. Gravel packed. <u>ly</u> <u>5y</u>
115	do.	do.	1967	67	5	67	do.	1,230	40	Mar. 15, 1967	Sub, E 1	Irr	Perforated from 45 to 55 ft. Pumping level 60 ft at 30 gpm on Mar. 15, 1967. Pump set at 62 ft. Reported yield 17 gpm. Measured yield 17.2 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. <u>ly</u> <u>5y</u>
116	do.	do.	1967	64	7	69	do.	1,230	30	Mar. 17, 1967	Sub, E 2	Irr	Slotted from 43 to 55 ft. Pump set at 64 ft. Reported yield 43 gpm. Measured yield 42.9 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. <u>ly</u> <u>5y</u>
117	do.	do.	1967	61	7	61	do.	1,220	20	June 6, 1967	Sub, E 7-1/2	Irr	Slotted from 31 to 50 ft. Pumping level 50 ft at 134 gpm on June 7, 1967. Pump set at 55 ft. Reported yield 69 gpm. Measured yield 68.6 gpm. Power and yield test on Aug. 16, 1967. Gravel packed. <u>ly</u> <u>5y</u>
118	do.	N. L. Box Drilling Contractor	--	57	5	57	do.	1,230	--	--	J, E 1/2	D	Reported yield 5 gpm.
119	do.	Comco Drilling Co.	1967	60	4	60	Ktp	1,235	--	--	J, E 1/2	D, S	Reported yield 20 gpm. <u>ly</u>
120	P. R. George	N. L. Box Drilling Contractor	1966	100	10	55 100	do.	1,252	--	--	J, E 1	Irr	Slotted from 57 to 95 ft. Reported yield 38 gpm. Gravel packed. <u>ly</u>
121	Herman S. Baker	--	--	77	3	77	do.	1,243	45.28	July 22, 1968	J, E 3/4	D	Slotted from 50 to 56 ft.
122	-- Dicky	--	1959	98	6	98	Kho	1,275	53.03	do.	T, E	D, S	Slotted from 88 to 98 ft. Pump set at 92 ft.
123	Howard Boswell	N. L. Box Drilling Contractor	1953	40	5	40	do.	1,215	14.65	do.	C, W	S	Perforated from 23 to 36 ft. Reported yield 27 gpm.
* 201	George Caraway	do.	1956	61	5	61	Khe	1,265	17 37.23	Jan. 20, 1960 Mar. 27, 1969	J, E	D	Perforated from 43 to 57 ft. Texas Water Development Board observation well. <u>ly</u> <u>4y</u>
w 401	C. A. Tucker	--	--	89	36	--	do.	1,330	85	Jan. 21, 1960	C, W	S	Dug well with brick wall.
402	J. C. Barnes	Steward Drilling Co.	1964	117	7	117	do.	1,258	--	--	Sub, E 3	Irr	Pump set at 105 ft. Reported yield 90 gpm. Measured yield 57 gpm. Power and yield test on June 29, 1966. Gravel packed. <u>ly</u>
403	do.	J. A. Lyons	1958	103	6	103	do.	1,258	40	July 20, 1965	Sub, E 1-1/2	Irr	Reported yield 48 gpm. Measured yield 29 gpm. Power and yield test on June 29, 1966. Gravel packed. <u>5y</u>
404	do.	-- Smith	1966	135	6	135	Ktp	1,255	58.29 54.81	Apr. 15, 1966 Mar. 27, 1969	Sub, E	D	Texas Water Development Board observation well. <u>4y</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING URLY	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF TEST	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-31-61-405	Humble Pipeline Co.	N. L. Box Drilling Contractor	1963	109	5	109	Kho	1,252	50	Feb. 19, 1963	Sub, B 3/4	Irr	Slotted from 80 to 102 ft. Pump set at 101 ft. Reported yield 60 gpm. Gravel packed. <u>1/</u>
* 701	E. G. McKinnon	Steward Drilling Co.	1959	135	8	135	Kfp	1,260	58 57.39	Oct. 28, 1959 Apr. 15, 1966	T, E 10	Irr	Pump set at 134 ft. Reported yield 160 gpm. Measured yield 90 gpm. Power and yield test at sprinkler on Aug. 3, 1966. Temp. 70°F. <u>5/</u>
702	G. R. Butler	D. C. Johnson	--	57	3	--	do.	1,215	43	Jan. 21, 1960	--	U, S	--
703	K. G. McKinnon	Steward Drilling Co.	1964	130	7	130	do.	1,255	60.1 56.97	July 20, 1965 Mar. 22, 1968	Sub, K 5	Irr	Completed from 40 to 60 and 90 to 130 ft. Measured yield 80 gpm. Power and yield test on Aug. 3, 1966. Gravel packed. Texas Water Development Board observation well. <u>4/ 5/</u>
704	C. B. Garner	do.	1963	130	7	130	do.	1,255	69.6	July 30, 1965	Sub, E 5	Irr	Completed from 60 to 130 ft. Pump set at 123 ft. Reported yield 150 gpm. Gravel packed.
705	Henry Van Terrell	Lightfoot and McCrum	1966	110	8	110	Kho	1,250	65	Feb. 25, 1966	Sub, E 10	Irr	Slotted from 68 to 100 ft. Pumping level 100 ft at 120 gpm on Feb. 25, 1966. Pump set at 100 ft. Gravel packed. <u>1/</u>
706	John H. Holey	Petit and Kight Drilling Co.	1966	140	--	140	do.	1,265	66	Apr. 8, 1966	--	N	Slotted from 118 to 137 ft. Pumping level 137 ft at 90 gpm on Apr. 8, 1966. Gravel packed. <u>1/</u>
801	K. G. McKinnon	N. L. Box Drilling Contractor	1955	127	8	127	Kfp	1,245	48 47	Oct. 28, 1959 Jan. 21, 1960	T, E 7-1/2	Irr	Completed from 47 to 83 ft. Pump set at 125 ft. Reported yield 100 gpm. <u>1/</u>
* 802	Dave C. Sears	Steward Drilling Co.	1961	160	8	160	do.	1,258	--	--	Sub, E 7-1/2	Irr	Pump set at 150 ft. Reported yield 150 gpm. Measured yield 114.3 gpm. Power and yield test on Aug. 3, 1966. Gravel packed. Temp. 70°F. <u>5/</u>
803	do.	--	1963	130	8	130	do.	1,258	52.21	July 29, 1965	Sub, E 5	Irr	Completed from 70 to 130 ft. Pump set at 130 ft. Reported yield 100 gpm. Gravel packed.
804	do.	--	1963	130	7	130	do.	1,251	71.44	do.	Sub, E 5	Irr	Completed from 70 to 130 ft. Pump set at 120 ft. Reported yield 150 gpm. Gravel packed.
805	do.	James Drilling Co.	1964	130	8	130	do.	1,251	127.0	do.	Sub, E 5	Irr	Completed from 70 to 130 ft. Pump set at 130 ft. Reported yield 100 gpm. Gravel packed.
806	do.	-- Ray	1966	205	10	--	do.	1,255	46.52	July 5, 1965	--	Irr	Gravel packed. <u>2/</u>
901	Joe Howell	George Holton	1963	180	7	180	do.	1,260	50	July 29, 1965	Sub, K 3	Irr	Completed from 110 to 180 ft. Pump set at 110 ft. Reported yield 120 gpm. Measured yield 58.5 gpm. Power and yield test on July 27, 1966. Gravel packed. <u>5/</u>
902	Lee Campbell	J. T. Brown Water Well Driller	1965	180	7	180	do.	1,318	--	--	Sub, E 3	D, S	Slotted. Pump set at 168 ft. Reported yield 12 gpm. Gravel packed. Cemented 28 to 40 ft. <u>1/</u>
* 41-02-110	O. C. Allen	A. Turpin	1927	106	6	106	Khe	1,622	--	--	C, W	D, S	--
603	Mrs. H. T. Redwine	-- Coffee	1906	90	--	--	do.	1,570	78.44 78.45	Mar. 24, 1966 Mar. 26, 1969	C, W	D, S	Texas Water Development Board observation well. <u>4/</u>
* 901	D. C. Fry	Harris Drilling Co.	1969	111	5	111	do.	1,565	71.45	Mar. 6, 1969	--	D	Perforated from 80 to 111 ft. Gravel packed. Temp. 68°F. <u>1/</u>
* 03-101	Roland Collins	Steward Drilling Co.	1957	80	8	80	Kfp	1,466	30 28.03	Oct. 28, 1959 Mar. 6, 1967	T, E 5	Irr	Measured yield 41.1 gpm. Power and yield test on Aug. 7, 1967. Temp. 69°F. Texas Water Development Board observation well. <u>4/ 5/</u>
201	B. E. Hanson	Comco Drilling Co.	1967	101	6	101	do.	--	--	--	Sub, K	Irr	Perforated from 35 to 50 and 70 to 90 ft. Pump set at 90 ft. Reported yield 65 gpm. Gravel packed. <u>1/</u>
202	do.	do.	1967	121	6	121	do.	--	--	--	Sub, E	Irr	Perforated from 40 to 50 and 90 to 110 ft. Pump set at 110 ft. Gravel packed.

See footnotes at end of table.

CUMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER RISING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-41-03-203	B. E. Hanson	V. L. Spears Water Well Drilling	1966	40	7	40	Ktp	--	--	--	Sub, E 1-1/2	Irr	Slotted. Reported yield 30 gpm. Measured yield 29.7 gpm. Power and yield test on July 26, 1967. Gravel packed. <u>5</u>
601	P. D. Hall	--	1915	110	8	110	do.	--	--	--	J, R 1	P	--
601	L. L. Bact	Watt Foster	1959	150	7	114	Kho	1,390	50.03	June 23, 1966	G, W	D, S	Well drilled as oil test to 464 ft and plugged back to 150 ft. <u>1</u>
903	W. C. Chilton	Hoff Irrigation Co.	1952	113	5	--	Khe	1,425	50.50 50.85	Oct. 8, 1965 Mar. 26, 1969	N	N	Completed from 45 to 93 ft. Gravel packed. Texas Water Development Board observation well. <u>1</u> <u>4</u> <u>5</u>
04-201	A. L. Hendrix	J. W. Reeves	1967	40	7	17.5	Rtp	--	--	--	Sub, E 1-1/2	Irr	Open hole completion from 17.5 to 40 ft. Measured yield 51.6 gpm. Power and yield test on Aug. 7, 1967. <u>5</u>
202	do.	do.	1967	40	7	40	do.	--	--	--	Sub, N 1	Irr	Slotted from 20 to 40 ft. Measured yield 12.2 gpm. Power and yield test on Aug. 7, 1967. Gravel packed. <u>5</u>
203	do.	do.	1967	40	6	40	do.	--	--	--	Sub, N 1	Irr	Slotted from 20 to 40 ft. Pump set at 40 ft. Measured yield 30 gpm. Power and yield test on Aug. 7, 1967. Gravel packed. <u>5</u>
204	do.	do.	1967	50	6	50	do.	--	21.62	Mar. 26, 1969	Sub, E 2	Irr	Slotted from 35 to 50 ft. Power and yield test on July 25, 1967. Gravel packed. Texas Water Development Board observation well. <u>4</u> <u>5</u>
205	do.	Comco Drilling Co.	1967	50	8	50	do.	--	--	--	Sub, E 2	Irr	Slotted from 35 to 50 ft. Power and yield test on July 25, 1967. Gravel packed. <u>5</u>
206	do.	do.	1967	50	8	50	do.	--	--	--	Sub, N 2	Irr	Do.
* 302	U.S. Army Corps of Engineers	Jones Drilling Co.	1964	66	--	--	do.	--	--	--	--	P	--
* 303	do.	do.	1964	63	--	--	do.	--	--	--	--	P	--
501	Elton McDonald	Hoff Irrigation Co.	1964	64	6	64	do.	--	27	July 14, 1965	T, E 5	Irr	Estimated yield 60 gpm. <u>1</u>
502	do.	Jack Leonard Drilling Co.	1965	116	8	116	Kho	1,287	81.43 67.35	July 29, 1965 Mar. 27, 1969	Sub, E 5	Irr	Completed from 95 to 116 ft. Pump set at 114 ft. Reported yield 120 gpm. Measured yield 67 gpm. Power and yield test on June 29, 1966. Gravel packed. Texas Water Development Board observation well. <u>1</u> <u>4</u> <u>5</u>
* 503	Brooks Kerley	Steward Drilling Co.	1964	125	8	89	Ktp	--	88.52	July 15, 1965	Sub, E 5	Irr	Pump set at 118 ft. Reported yield 115 gpm. Temp. 70°F.
504	Lloyd Diggs	Pickett Drilling Co.	1964	126	7	126	do.	1,291	61.29	Sept. 29, 1965	Sub, E 7-1/2	Irr	Completed from 60 to 78 and 94 to 120 ft. Pump set at 118 ft. Reported yield 180 gpm. Gravel packed. <u>1</u>
505	R. H. Skurlock	Harris Drilling Co.	1966	114	8	114	do.	1,280	--	--	Sub, E 5	Irr	Slotted from 38 to 48, 56 to 66 and 92 to 114 ft. Power and yield test on Aug. 4, 1966. Gravel packed. <u>1</u> <u>5</u>
506	do.	do.	1966	113	8	113	do.	--	--	--	Sub, N 7-1/2	Irr	Slotted from 18 to 25, 40 to 45, 60 to 65 and 96 to 113 ft. Reported yield 80 gpm. Power and yield test on Aug. 4, 1966. Gravel packed. <u>1</u> <u>5</u>
601	Rhea T. Hoff	Hoff Irrigation Co.	1934	125	8	50	do.	--	50	Nov. 16, 1959	T, E 5	Irr	Pump set at 110 ft. Reported yield 75 gpm. <u>1</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
0Y-41-04-602	Shea T. Hoff	Hoff Irrigation Co.	--	130	7	73	Kcp	--	50.39	July 12, 1965	T, E 5	Irr	Open hole completion from 73 to 130 ft. Pump set at 110 ft. Reported yield 100 gpm. <u>y</u>
603	do.	do.	1954	130	--	--	do.	1,273	50 39.32	Nov. 16, 1959 Mar. 27, 1969	T, E 5	Irr	Open hole completion from 0 to 130 ft. Reported yield 65 gpm. Texas Water Development Board observation well. <u>y</u> <u>y</u>
604	do.	do.	1963	86	8	43	do.	--	21.94	July 12, 1965	T, E 3	Irr	Open hole completion from 43 to 86 ft. Pump set at 65 ft. Reported yield 150 gpm. <u>y</u>
* 701	Comanche Public School	do.	1951	88	7	88	Khe	1,372	25.80 26.00	July 6, 1965 Mar. 26, 1969	Sub, E 1	Irr	Completed from 32 to 52 and 73 to 83 ft. Estimated yield 50 gpm. Temp. 71°F. Texas Water Development Board observation well. <u>y</u> <u>y</u>
801	Ed Burdette	George Bolton	1953	138	8	138	ktp	--	39.45 38.54	Oct. 20, 1959 June 22, 1966	Sub, E	Irr	Completed from 91 to 138 ft. Reported yield 150 gpm.
901	Floyd Prather	Steward Drilling Co.	1955	207	14	207	do.	--	61.80	July 7, 1965	Sub, E 7-1/2	Irr	Completed from 70 to 207 ft. Pump set at 200 ft. Reported yield 140 gpm.
902	do.	do.	--	180	14	180	do.	--	30 30.08 30.51	Oct. 20, 1959 July 7, 1965 June 22, 1966	T, E 10	Irr	Completed from 0 to 180 ft. Reported yield 175 gpm.
* 05-102	U.S. Army Corps of Engineers	Jones Drilling Co.	1964	80	--	--	do.	1,175	51	Oct. 26, 1964	--	P	Pumping level 65 ft at 10 gpm on Oct. 26, 1964.
* 103	do.	do.	1964	93	--	--	do.	1,210	66	Oct. 23, 1964	--	P	Pumping level 75 ft at 10 gpm on Oct. 23, 1964.
* 104	do.	do.	1964	84	--	--	do.	1,200	37	Oct. 26, 1964	--	P	Pumping level 44 ft at 10 gpm on Oct. 26, 1964.
* 105	do.	J. L. Myers Sons	1961	120	8 5	68 110	Kho	1,210	50.96	Mar. 27, 1969	Sub, E	P	Screened from 69 to 79 ft. Pump set at 100 ft. Gravel packed. Well drilled to 175 ft and plugged back to 110 ft. Texas Water Development Board observation well. <u>y</u> <u>y</u> <u>y</u>
202	John Croft	Steward Drilling Co.	1964	100	6	100	Ktp	1,190	36.76 24.46	July 30, 1965 Mar. 27, 1969	Sub, E 5	Irr	Reported yield 125 gpm. Gravel packed. Texas Water Development Board observation well. <u>y</u>
203	L. O. Stunkie	do.	1955	104	12	104	do.	1,202	40	Dec. 7, 1959	T, E 5	S	Completed from 69 to 104 ft. Reported yield 150 gpm.
204	Joe Dorsey	M. R. Box Drilling Contractor	1959	97	8	87	do.	1,185	21 24.32	Jan. 19, 1960 Mar. 27, 1969	Sub, E	Irr	Completed from 21 to 30 and 37 to 81 ft. Reported yield 75 gpm. Texas Water Development Board observation well. <u>y</u> <u>y</u>
205	Ray Carlton	do.	--	--	5	--	do.	1,240	--	--	Sub, E 3	Irr	Pump set at 85 ft. Reported yield 70 gpm. Measured yield 34.4 gpm. Power and yield test on Aug. 2, 1966. <u>y</u>
206	Bob Brannon	Hoff Irrigation Co.	1955	106	8	106	do.	1,212	40	July 9, 1965	T, E 5	Irr	Completed from 45 to 50, 70 to 80 and 90 to 105 ft. Reported yield 110 gpm. Measured yield 71 gpm. Power and yield test on June 21, 1966. <u>y</u>
207	do.	do.	1956	106	8	106	do.	1,212	40	do.	T, E 5	Irr	Completed from 45 to 50, 70 to 80 and 90 to 105 ft. Reported yield 110 gpm. Measured yield 51 gpm. Power and yield test on June 21, 1966. <u>y</u>
* 208	Fred Backley	George Bolton	1963	124	8	124	do.	1,191	26.14	June 22, 1966	Sub, E 5	Irr	Completed from 40 to 124 ft. Pump set at 105 ft. Reported yield 100 gpm. Gravel packed. Temp. 70°F.
209	Ben Clement	J. T. Brown Water Well Driller	--	150	7	150	do.	1,220	60.51 48.17	July 30, 1965 June 27, 1966	Sub, E 5	Irr	Pump set at 119 ft. Gravel packed.
210	Mary Kay Hamlett	Lightfoot and McCrum	1965	125	8	125	do.	1,155	35	Aug. 4, 1965	Sub, E 5	Irr	Completed from 45 to 50 and 60 to 115 ft. Power and yield test on Aug. 2, 1966. Gravel packed. <u>y</u> <u>y</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	NSR OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
07-41-05-211	Mary Kay Hamlett	Lightfoot and McCrum	1965	126	8	126	Ktp	1,155	35	Aug. 9, 1965	Sub, E 5	Irr	Completed from 35 to 40, 55 to 67 and 75 to 115 ft. Power and yield test on Aug. 2, 1966. Gravel packed. <u>1</u> <u>5</u>
212	Ray Carleton	Doc McMillian Water Wells	1964	136	8	136	do.	1,240	--	--	Sub, E 3	Irr	Slotted from 96 to 136 ft. Pump set at 134 ft. Measured yield 50 gpm. Power and yield test on Aug. 2, 1966. Gravel packed. <u>5</u>
213	do.	do.	1964	142	8	142	do.	1,240	--	--	Sub, E 7-1/2	Irr	Slotted from 102 to 142 ft. Pump set at 133 ft. Measured yield 100 gpm. Power and yield test on Aug. 2, 1966. Gravel packed. <u>5</u>
214	Joe Dorsey	Holdridge Drilling Co.	1966	105	8	105	do.	1,191	22.88	June 21, 1966	--	Irr	Perforated. <u>1</u>
* 502	R. W. Evans	Curtis Alford Drilling and Well Service	1957	140	12 7	132 160	do.	1,185	78 65	Nov. 4, 1959 July 1, 1965	T, E 5	Irr	Perforated from 68 to 128 ft. Pump set at 125 ft. Reported yield 85 gpm. Measured yield 56.5 gpm. Power and yield test on Aug. 2, 1966. Gravel packed. Temp. 74°F. <u>1</u> <u>5</u>
* 503	Irvin Dunn	George Bolton	1963	156	8	156	do.	1,230	39.23 40.68	July 9, 1965 Mar. 27, 1969	Sub, E 7-1/2	Irr	Completed from 86 to 156 ft. Pump set at 145 ft. Reported yield 150 gpm. Measured yield 218.1 gpm. Power and yield test on Aug. 2, 1966. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. <u>4</u> <u>5</u>
* 801	George Stephens	Elvis Williard	1956	85	30	85	do.	1,130	25 22.66	Oct. 2, 1959 Mar. 27, 1969	T, E 5	Irr	Completed from 55 to 85 ft. Reported yield 100 gpm. Temp. 70°F. Texas Water Development Board observation well. <u>4</u>
* 901	Guy B. Moore	Steward Drilling Co.	1956	142	12	142	do.	1,165	71 67.60	Oct. 2, 1959 Mar. 27, 1969	T, E 7-1/2	Irr	Reported yield 66 gpm. Texas Water Development Board observation well. <u>4</u>
* 902	J. A. Thompson	do.	1956	118	10	118	do.	1,140	24 19.67	Oct. 2, 1959 Mar. 27, 1969	T, E 5	Irr	Completed from 20 to 118 ft. Pump set at 108 ft. Reported yield 156 gpm. Gravel packed. Temp. 69°F. Texas Water Development Board observation well. <u>4</u>
903	Gullen Stephens	Hoff Irrigation Co.	1953	90	6	90	do.	1,122	--	--	T, E 2	Irr	Completed from 60 to 85 ft. Pump set at 80 ft. Reported yield 50 gpm.
904	do.	Curtis Alford Drilling and Well Service	1956	90	10	90	do.	1,122	30 21.44	Oct. 27, 1959 June 30, 1965	T, E 3	Irr	Completed from 60 to 85 ft. Pump set at 80 ft. Reported yield 80 gpm.
905	George Stephens	Steward Drilling Co.	--	137	12	137	Khe, Khe	1,145	49.3	July 1, 1965	Sub, E 5	Irr	Perforated from 37 to 63 and 100 to 137 ft. Pump set at 137 ft. Measured yield 60 gpm. Power and yield test on July 27, 1966. Gravel packed. <u>5</u>
* 906	D. W. Moore	do.	1964	122	6	122	Ktp	1,150	56.13 37.46	July 2, 1965 June 22, 1966	Sub, E 3	Irr	Pump set at 117 ft. Reported yield 75 gpm. Gravel packed. Temp. 69°F.
907	Thurman Boucher	do.	--	156	8	--	do.	1,200	64.14	July 5, 1965	Sub, E 7-1/2	Irr	--
* 06-501	J. W. Barbee	Texas Irrigation Sales, Inc.	1959	250	6	250	Khe	1,270	122 125.18	Oct. 26, 1959 Mar. 27, 1969	Sub, E 3-1/2	D, S	Perforated from 230 to 250 ft. Temp. 72°F. Texas Water Development Board observation well. <u>4</u>
601	W. A. Springer	J. T. Brown Water Well Driller	1965	213	7 5	84 212	do.	1,280	175	Aug. 18, 1965	C, W	S	Slotted from 170 to 212 ft. Pump set at 189 ft. <u>1</u>
* 701	W. D. Bryson	Steward Drilling Co.	1959	190	10	180	Khe	1,170	66 66.57	Oct. 26, 1959 Mar. 27, 1969	T, E 20	Irr	Completed from 170 to 180 ft. Open hole from 180 to 190 ft. Reported yield 175 gpm. Temp. 70°F. Texas Water Development Board observation well. <u>4</u>
901	Sherman Benson	Tatum Drilling Co.	1963	150	5	150	Khe	1,195	60.37 112.65	June 28, 1965 Mar. 27, 1969	Sub, E 3/4	D	Completed from 120 to 150 ft. Pump set at 140 ft. Reported yield 16 gpm. Texas Water Development Board observation well. <u>1</u> <u>4</u>
07-701	Travis Lincecum	Alford James Price	1966	118	10	--	do.	1,125	60.97	July 11, 1968	N	S	Reported yield 25 gpm. <u>1</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF TEST	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
* NY-41-11-803	J. M. Foreman	--	1920	100	6	100	Kp	--	80	Jan. 19, 1960	G, #	D	
* 12-101	City of Comanche	George Bolton	1946	123	10	123	Kgr, Khe	1,448	14 9.80	Sept. 3, 1946 Mar. 27, 1969	N	N	Reported yield 80 gpm when well was used. Texas Water Development Board observation well. <u>1/2/4</u>
201	Brady York	Steward Drilling Co.	1950	147	10	147	Khe	1,386	54 62.56	Oct. 20, 1959 Mar. 27, 1969	N	N	Completed from 87 to 147 ft. Reported yield 400 gpm when well was used. Texas Water Development Board observation well. <u>2/4</u>
301	Max Keeter	do.	1954	180	16	180	Kcp	--	65 46.28 48.47	Oct. 19, 1959 July 2, 1965 June 22, 1966	T, K 15	S, Irr	Completed from 130 to 165 ft. Pump set at 165 ft. Estimated yield 175 gpm.
302	M. E. Carter	Hoff Irrigation Co.	1958	60	5	60	Khe	--	39 33.93	Oct. 20, 1950 July 2, 1965	Sub, E	N	Completed from 0 to 60 ft. Reported yield 20 gpm when well was used.
303	Buster McDonald	Steward Drilling Co.	1957	150	10	150	Kcp	1,258	140 16.60 18.06	July 26, 1965 Apr. 14, 1966 Mar. 15, 1967	T, E 7-1/2	Irr	Slotted from 25 to 150 ft. Pump set at 147 ft. Reported yield 120 gpm. Measured yield 95.7 gpm. Power and yield test on July 12, 1966. Gravel packed. <u>5/</u>
304	do.	do.	1963	165	8 7	110 165	do.	1,256	100 32.82	July 26, 1965 Mar. 27, 1969	Sub, E 10	Irr	Well deepened from 110 to 165 ft in 1963. Completed from 30 to 110 and 110 to 165 ft. Pump set at 160 ft. Reported yield 120 gpm. Measured yield 69.8 gpm. Power and yield test at sprinkler on June 21, 1966. Gravel packed. Texas Water Development Board observation well. <u>4/5/</u>
* 901	J. B. Pogue	--	--	70	6	--	Khe	--	50	Jan. 18, 1960	T, K	D, S	
13-101	Dalton Perkins	Steward Drilling Co.	1954	150	16	150	Khe, Khe	1,265	36	Oct. 20, 1959	T, E 7-1/2	Irr	Slotted from 30 to 150 ft. Pump set at 145 ft. Reported yield 150 gpm. Measured yield 92.3 gpm. Power and yield test on Aug. 4, 1966. <u>2/</u>
102	do.	do.	--	140	10	140	do.	1,265	60 37.16 37.94	July 5, 1965 June 22, 1966 June 29, 1966	N	N	Slotted from 30 to 140 ft. <u>2/</u>
* 103	do.	do.	1965	145	8	145	do.	1,250	61.45	July 5, 1965	Sub, K 5	Irr	Completed from 30 to 145 ft. Pump set at 138 ft. Reported yield 125 gpm. Gravel packed. Temp. 70°F.
201	Chester Evans	Willingham and Williard	1955	160	5	155	Khe	1,210	33.79 30.87	July 2, 1965 Apr. 2, 1969	T, E 3	Irr	Completed from 120 to 155 ft. Pump set at 150 ft. Reported yield 85 gpm. Measured yield 30 gpm. Power and yield test on Aug. 8, 1967. Gravel packed. Texas Water Development Board observation well. <u>4/2/</u>
202	do.	Petit and Right Drilling Co.	1967	155	6	155	do.	1,210	--	--	Sub, E 3	Irr	Slotted from 130 to 155 ft. Pump set at 150 ft. Measured yield 21.3 gpm. Power and yield test on Aug. 8, 1967. Gravel packed. <u>2/</u>
301	Dustine Water Supply Corp.	Andrews and Foster	1966	173	6	173	Khe, Khe	1,190	48.14	Jan. 4, 1967	Sub, E 3	F	Completed from 58 to 70, 140 to 148, and 160 to 168 ft. Pumping level 158 ft at 48 gpm in Dec. 1966. Gravel packed. Cemented from 58 ft to surface. Well drilled to 255 ft and plugged back to 173 ft. Texas Water Development Board observation well. <u>1/2/4</u>
14-101	J. D. Allen	Steward Drilling Co.	1959	137	10	137	Kcp	1,115	44 47.74	Oct. 16, 1959 June 30, 1965	N	N	Reported yield 150 gpm in 1959.
* 102	R. E. Adcock	do.	1956	179	10	--	do.	1,155	72 67.46	Oct. 16, 1959 Mar. 27, 1969	T, E 15	Irr	Pumping level 128 ft at 175 gpm on Oct. 16, 1959. Temp. 72°F. Texas Water Development Board observation well. <u>4/</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (1) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
DY-41-14-103	L. H. Estes	Steward Drilling Co.	1955	170	10	--	Ktp	1,155	77 98.31	Oct. 27, 1959 June 29, 1965	T, E 13	Irr	Reported yield 200 gpm.
* 105	J. D. Allen	do.	1964	155	8	155	do.	1,140	76.59	June 30, 1965	T, E 25	Irr	Pump set at 153 ft. Estimated yield 135 gpm. Gravel packed. Temp. 70°F.
* 106	U. L. Kingsbury	Pettic and Knight Drilling Co.	1966	182	8	182	Kho	1,165	88.15 76.79	Dec. 6, 1966 Dec. 12, 1966	T, E 5	Irr	Slotted from 155 to 180 ft. Pumping level 159 ft at 61.1 gpm on Dec. 13, 1966. Pump set at 177 ft. Measured yield 30 gpm. Power and yield test on Aug. 4, 1966. Gravel packed. Temp. 70°F. <u>Y Y Y</u>
107	do.	do.	1966	183	--	183	do.	1,158	45.05	Dec. 12, 1966	T, E 15	Irr	Slotted from 150 to 180 ft. Pump set at 177 ft. Reported yield 53 gpm. Measured yield 53.3 gpm. Power and yield test on Aug. 4, 1966. Gravel packed. <u>Y Y Y</u>
108	Brent Darfel	Iredell Drilling	1966	180	10	180	do.	1,158	25	Apr. 16, 1966	Sub, E 5	Irr	Slotted from 130 to 180 ft. Pump set at 165 ft. Reported yield 90 gpm. Gravel packed. <u>Y</u>
301	Glen McLothlin	Roy Michael	1954	215	16	180	Ktp	1,065	23	Jan. 27, 1960	T, C 52	N	Completed from 20 to 180 ft. Pump set at 180 ft. Reported yield 300 gpm.
302	do.	do.	1954	300	16	200	do.	1,065	19	do.	N	N	Perforated from 20 to 200 ft. Reported yield 200 gpm in 1954. Well drilled to 300 ft and plugged back to 300 ft. Well caved in and was abandoned. <u>Y</u>
* 303	Rual Eddleman	Curtis Alford Drilling and Well Service	1963	150	8	150	Kha	1,070	27 34.20	June 29, 1965 Mar. 27, 1969	Sub, E 4	Irr	Perforated from 27 to 150 ft. Gravel packed. Temp. 69°F. Texas Water Development Board observation well. <u>Y Y</u>
304	Rosco White	Tatum Drilling Co.	1963	112	5	112	do.	1,170	91.56	June 28, 1965	Sub, E 1/2	S	Completed from 84 to 108 ft. Pump set at 102 ft. Reported yield 16 gpm. <u>Y</u>
305	J. N. Thompson	do.	1966	188	12 7	72 188	Kha, Kho	1,065	34	Feb. 10, 1966	Sub, E 7-1/2	Irr	Slotted from 80 to 87, 130 to 143, and 173 to 188 ft. Pumping level 88 ft at 250 gpm on Feb. 10, 1966. Pump set at 176 ft. Measured yield 96.7 gpm. Power and yield test at sprinkler on Aug. 8, 1967. <u>Y Y</u>
402	Russell Hayes	Iredell Drilling	1966	185	10	185	Kho	1,168	30	1966	Sub, E 5	Irr	Perforated from 125 to 185 ft. Pump set at 175 ft. Reported yield 90 gpm. Gravel packed. <u>Y</u>
* 701	Gayle Isham, Jr.	Tatum Drilling Co.	1966	335	5	335	Khe	1,370	235 252.0	Apr. 16, 1966 Mar. 27, 1969	Sub, E 3	D, S	Perforated from 280 to 335 ft. Pump set at 330 ft. Reported yield 30 gpm. Temp. 74°F. Texas Water Development Board observation well. <u>Y Y</u>
803	Elsie M. Rea	L. W. Little Drilling Co.	1962	255	4	255	Kgr, Khe	1,342	180	June 1, 1962	C, E 3/4	S	Slotted from 168 to 232 ft. Pumping level 184 ft at 8 gpm on June 1, 1962. Gravel packed. <u>Y</u>
15-101	H. C. Aytes	Leon Drilling Co.	1964	176	10	176	Khe	1,120	37	Nov. 22, 1964	T, C 58	Irr	Slotted from 66 to 90, 110 to 130, and 150 to 172 ft. Pump set at 157 ft. Reported yield 150 gpm. Gravel packed. Cemented from 20 to 30 ft. <u>Y</u>
401	F. L. Stephens	Tatum Drilling Co.	1966	205	7	205	Kha, Kho	1,082	37 48.57	Jan. 28, 1966 Mar. 27, 1969	Sub, E 7-1/2	Irr	Slotted from 53 to 87 and 185 to 196 ft. Pumping level 100 ft at 185 gpm on Jan. 28, 1966. Pump set at 194 ft. Texas Water Development Board observation well. <u>Y Y</u>

See footnotes at end of table.

COMANCHE COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
* 21-201	Roy Henson	Steward Drilling Co.	--	111	6	108	gp	1,525	71 70.03	Jan. 18, 1960 Mar. 27, 1969	C, W	D, S	Open hole completion from 108 to 111 ft, Texas Water Development Board observation well. ⁴

- * For chemical analysis of water, see Table 5.
¹ For drillers' log of well, see Table 3.
² Electric logs in files of the Texas Water Development Board, Austin, Texas.
³ For results of pumping tests, yields and specific capacities of wells, see Table 4, Volume I.
⁴ For water-level measurements, see Table 4.
⁵ For power and yield test on well, see Table 10, Volume I.

COMANCHE COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
DY-31-57-607	Lone Star Gas Co.	J. C. Watkins No. 1	1940	2,796	1,590	S
41-02-602	Frank Gilliam	C. C. Ross No. 1	1950	2,589	1,490	E
604	John W. Bartlett	D. E. Steel No. 1	1955	2,714	1,480	R
03-501	Orville H. Parker	Ferrill No. 1	1949	2,870	1,508	E
11-201	Texas Crude Oil	Dudley Ranch No. 1	1950	2,775	1,704	S
301	Sun Oil Co.	E. E. Bryson No. 1	1929	3,135	1,520	D
411	Lloyd N. Smith	Gail Dudley No. 1	1950	2,684	1,834	E
802	Humble Oil and Refining Co.	J. M. Foreman No. 1	1955	4,380	1,667	E
901	Jack C. Staley, et al.	R. M. Ratliffe No. 1	1955	3,005	1,654	E
13-501	J. J. Lynn	R. E. Manning No. 1	1949	4,002	1,176	E
14-401	Humble Oil and Refining Co.	Macksville Oil Unit	1956	4,300	1,126	E
19-301	United North and South Development Co.	J. B. Aldridge, et al. No. 1	1950	4,913	1,680	E
20-201	Humble Oil and Refining Co.	Mrs. Frankie W. Durham No. 1	1957	3,319	1,445	E
21-301	Placid Oil Co.	Pettit No. 1	1942	3,276	1,445	E

COMANCHE COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-51-308			Well DY-31-51-604—Continued		
Owner: Robert C. Atchison Driller: Continental Water Well Drilling Co.			Sand and gravel	19	44
Sand - sandy clay	20	20	Yellow clay	2	46
Sand - sandstone	40	60	Pink clay	10	56
Blow - sand	50	110	Blue shale	2	58
Sand - sandstone	32	142	Well DY-31-51-605		
Sandstone	18	160	Owner: R. A. Barnett Driller: N. L. Box Drilling Contractor		
Well DY-31-51-309			Soil	3	3
Owner: Robert C. Atchison Driller: Continental Water Well Drilling Co.			Sand	7	10
Sand	15	15	Sandstone	5	15
Sandy clay	21	36	Sand	12	27
Sand	74	110	Water gravel	12	39
Sand - gravel	5	115	Sand and clay	14	53
Sand - sandstone	67	182	Gravel	18	71
Gray sandstone	15	197	Yellow clay	3	74
Blue shale	3	200	Blue shale	1	75
Well DY-31-51-603			Well DY-31-51-608		
Owner: George Warren Driller: N. L. Box Drilling Contractor			Owner: Mrs. Rainey Driller: Robert Lee-Bob-Barnhill		
Soil	3	3	Topsoil - sand	2	2
Yellow clay	3	6	Shale, yellow	31	33
Sand	9	15	Sand rock - white	2	35
Gravel and clay	30	45	Shale, yellow	7	42
Yellow clay	10	55	Sand, soft white, water	22	64
Blue shale	1	56	Red shale	11	75
Well DY-31-51-604			Coarse sand (water)	16	91
Owner: George Warren Driller: N. L. Box Drilling Contractor			Yellow shale	14	105
Soil	3	3	Well DY-31-51-609		
Sand and clay	16	19	Owner: R. A. Barnett Driller: N. L. Box Drilling Contractor		
Gravel	4	23	Soil	5	5
Lime	2	25	Sand - water (10 gpm)	7	12
			Lime	2	14

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-51-609—Continued			Well DY-31-61-612—Continued		
Sand and gravel	14	28	Sand and gravel	25	38
Lime	8	36	Blue and yellow clay	7	45
Broken lime and gravel	16	52			
Gravel	14	66	Well DY-31-51-613		
Tight coarse sand	6	72	Owner: Arnold Butler		
Blue shale	6	78	Driller: Continental Water Well Drilling Co.		
			Sand	3	3
Well DY-31-51-610			Clay	9	12
Owner: R. A. Barnett			Sand - gravel - (water)	8	20
Driller: N. L. Box Drilling Contractor			Sandstone	2	22
Sand	10	10	Clay	2	24
Water sand	10	20	Sandstone - clay stringers	4	28
Tight gravel	4	24	Clay	10	38
Lime	2	26	Sandstone	26	64
Tight gravel	8	34	Blue shale	2	66
Tight sand	4	38	Sandstone	22	88
Tight sand and gravel	22	60	Blue shale	12	100
Blue shale	3	63			
			Well DY-31-51-805		
Well DY-31-51-611			Owner: Ray Williams		
Owner: R. A. Barnett			Driller: Sam H. Smith Drilling Contractor		
Driller: N. L. Box Drilling Contractor			Sand	3	3
Sand	6	6	Clay	7	10
White sand - little water	6	12	Sand and gravel	2	12
Lime and sand	12	24	Sandy clay	83	95
Gravel	2	26	Conglomerate	65	160
Tight sand and gravel	17	43	Clay	10	170
Tight sand and gravel	11	54			
Sand and gravel	16	70	Well DY-31-51-806		
Blue shale	5	75	Owner: J. B. Hodges		
			Driller: M. and L. Drilling Co.		
Well DY-31-51-612			Red sandy clay	15	15
Owner: George Warren			Yellow clay	25	40
Driller: N. L. Box Drilling Contractor			Water sand	15	55
Soil	2	2	Sand and shale	10	65
Clay	6	8	Clay	5	70
Sandstone	5	13	Blue shale	58	128

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-51-806—Continued			Well DY-31-52-405—Continued		
Sand	12	140	Sand - water - 30 gpm	8	15
Broken sand	10	150	Lime	1	16
Sand	15	165	Red shale	4	20
Blue shale	10	175	Sand - water - 20 gpm	25	45
Blue gumbo shale	55	230	Small gravel - 35 gpm	7	52
Black shale	6	236	Blue shale	6	58
Sandy lime	14	250			
Shale	1	251			
			Well DY-31-52-406		
			Owner: Herman Gilder Driller: Lightfoot and McCrum		
			Soil	1	1
			Yellow and blue clay	16	17
			Lime	5	22
			Red clay	14	36
			Sand and gravel (water)	10	46
			Lime	4	50
			Sand and gravel (water)	10	60
			Sandy lime	2	62
			Sandy and gravel (water)	5	67
			Red clay	3	70
			Yellow and blue clay	10	80
			Well DY-31-52-407		
			Owner: Herman Gilder Driller: Ardean Kimmell Irrigation Service		
			Surface	6	6
			Sandy shale	12	18
			Sand and gravel	17	35
			Sand	13	48
			Hard sand	8	56
			Gravel	11	67
			Conglomerate	11	78
			Well DY-31-52-404		
			Owner: Cedric Bettis Driller: A. L. Varner		
Sand	3	3			
Clay	22	25			
Sand	20	45			
Sand and gravel	15	60			
Yellow clay	9	69			
Blue shale	1	70			
			Well DY-31-52-405		
			Owner: Herman Gilder Driller: Lightfoot and McCrum		
Soil	3	3			
Red and blue clay	4	7			
			Well DY-31-52-408		
			Owner: N. B. Gilbreath Driller: Lightfoot and McCrum		
			Sandy soil	2	2
			Blue sand, clay	18	20

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-408—Continued			Well DY-31-52-501		
Water sand	4	24	Owner: N. L. Box Driller: N. L. Box Drilling Contractor		
Sandy lime	2	26	Soil and clay	10	10
Red clay	2	28	Red bed	20	30
Sandy blue clay	6	34	Sand	12	42
Red bed	14	48	Water gravel	6	48
Lime	2	50	Lime	2	50
Blue sandy clay	10	60	Hard lime	3	53
Gravel (water)	11	71	Broken lime	5	58
Yellow clay	9	80	Water gravel	6	64
Well DY-31-52-409			Yellow clay	6	70
Owner: N. B. Gilbreath Driller: Lightfoot and McCrum			Sandstone	7	77
Sand	1	1	Yellow clay	13	90
Red and blue clay	17	18	Well DY-31-52-502		
Water sand	7	25	Owner: Clarence Craig Driller: N. L. Box Drilling Contractor		
Lime	2	27	Sand and sandstone	11	11
Red sandy clay	8	35	Water sand	3	14
Red bed	5	40	Red clay	16	30
Sand	5	45	Sand and clay	12	42
Red bed	10	55	Sand and white clay	13	55
Blue and white clay	5	60	Tight sand (water)	17	72
Sand and gravel (water)	13	73	Water gravel	13	85
Yellow and blue clay	11	84	Yellow clay	6	91
Well DY-31-52-410			Well DY-31-52-503		
Owner: N. B. Gilbreath Driller: Lightfoot and McCrum			Owner: N. L. Box Driller: N. L. Box Drilling Contractor		
Red and blue clay	7	7	Sand and clay	20	20
Blue sandy clay	8	15	Water sand	3	23
Lime	2	17	Red bed	17	40
Sandy clay (red)	10	27	Sand	5	45
Red clay	8	35	Sand, clay, and lime	15	60
Sand	7	42	Sand, gravel, and lime	20	80
Red bed	13	55	Yellow and blue clay	3	83
Sand and gravel (water)	16	71			
Yellow clay	9	80			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-504			Well DY-31-52-507—Continued		
Owner: Clyde Setzler Driller: N. L. Box Drilling Contractor			Sandy clay	2	61
Red clay	32	32	Sand and gravel (water)	3	64
Sand, dry	5	37	Clay	1	65
Water sand and gravel	27	64	Well DY-31-52-605		
Yellow clay	10	74	Owner: B. E. Hanson Driller: J. T. Carson		
Well DY-31-52-506			Soil	5	5
Owner: George Guest Driller: Alford James Price			Dry sand	30	35
Topsoil	4	4	Water sand	35	70
Red clay	29	33	Clay	18	88
Sand	10	43	Well DY-31-52-606		
Soapstone	3	46	Owner: B. E. Hanson Driller: Lightfoot and McCrum		
Sand and gravel (water)	6	52	Red clay	15	15
Yellow clay	3	55	Sandy clay	10	25
Red shale	6	61	Sand (hard)	5	30
Yellow clay	9	70	Lime	3	33
Sandy oil shale	3	73	Sand	5	38
Blue shale	14	87	Water sand	40	78
Well DY-31-52-507			Yellow clay	4	82
Owner: George Guest Driller: Alford James Price			Blue shale	22	104
Topsoil	2	2	Well DY-31-52-607		
Sandy clay	5	7	Owner: B. E. Hanson Driller: J. T. Carson		
Dry sand	3	10	Soil	2	2
Rock	1	11	Clay	10	12
Yellow clay	5	16	Sandy shale	10	22
Red clay, shale	5	21	Lime	5	27
Dry sand	3	24	Sand	13	40
Yellow clay	3	27	Lime	5	45
Rock	2	29	Water sand	40	85
Red shale	5	34	Clay and shale	10	95
Dry sand	5	39	Well DY-31-52-609		
Sand and gravel (water)	7	46	Owner: C. H. George Driller: Robert Lee-Bob-Barnhill		
Soapstone	2	48	Sand and gravel, water	28	28
Red shale	5	53	Hard sand	2	30
Soapstone	3	56	Gravel, water	13	43
Sand (water)	3	59			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-609—Continued			Well DY-31-52-612--Continued		
Red shale	11	54	Brown shale	22	58
Sand and shale	9	63	Light blue shale	7	65
Sand	24	87	Sand	8	73
Red shale	3	90	Gravel	9	82
Gravel	8	98	Brown shale	10	92
Hard sand	8	106			
Shale	25	131			
			Well DY-31-52-613		
			Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service		
			Sand	4	4
			Conglomerate	5	9
			Sand	36	45
			Shale	4	49
			Hard gravel	4	53
			Shale	17	70
			Sand	22	92
			Brown shale	4	96
			Sand	9	105
			Hard sand	3	108
			Light blue shale	8	116
Well DY-31-52-610			Well DY-31-52-701		
Owner: B. E. Hanson Driller: Lightfoot and McCrum			Owner: R. Robinson Driller: N. L. Box Drilling Contractor		
Red clay	15	15	Clay, sand, and sandstone	21	21
Sandy clay	10	25	Red bed	26	47
Sand - hard	5	30	Sand - little water	7	54
Lime	3	33	Sand and gravel	13	67
Sand	5	38			
Water sand	40	78			
Yellow clay	4	82			
Blue shale	22	104			
			Well DY-31-52-704		
			Owner: Claude DeVoll Driller: Lightfoot and McCrum		
			Red clay	15	15
			Blue sandy clay	10	25
			Sandy lime	1	26
			Blue clay	4	30
			Lime	2	32
			Sand	15	47
			Sand (water)	10	57
			Sandy lime	4	61
			Gravel (water)	11	72
			Blue clay	8	80
Well DY-31-52-611					
Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service					
Sand	2	2			
Brown shale	4	6			
Sand	9	15			
Gravel	20	35			
Sand	10	45			
Gravel	11	56			
Hard gravel	4	60			
Brown shale	10	70			
Blue shale	7	77			
Well DY-31-52-612					
Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service					
Surface	5	5			
Brown shale	5	10			
Gravel	8	18			
Sand	9	27			
Gravel	9	36			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-705			Well DY-31-52-708—Continued		
Owner: Claude DeVoll Driller: Lightfoot and McCrum			Sand	11	64
Red clay	20	20	Sand, rock	2	66
Sandy clay (red)	4	24	Sand	3	69
Lime	1	25	Gravel	9	78
Sand	18	43	Shale	7	85
Lime	1	44	Well DY-31-52-709		
Sand (water)	16	60	Owner: Dale George Driller: Lightfoot and McCrum		
Lime	1	61	Sand	21	21
Red sandy clay	10	71	Red clay	11	32
Sand and gravel (water)	36	107	White sand	13	45
Yellow clay	9	116	Hard sand	4	49
Blue clay	3	119	Sand	11	60
Well DY-31-52-707			Red clay	3	63
Owner: Dale George Driller: Robert Lee-Bob-Barnhill			Gravel and sand (water)	16	79
Soil	2	2	Sand (water)	6	85
Gravel	4	6	Sandy lime	12	97
Shale	6	12	Blue sandy clay	6	103
Sand and gravel, water at 26 ft	18	30	Blue shale	7	110
Sand	22	52	Well DY-31-52-801		
Sand, rock	1	53	Owner: Cedric Bettis Driller: N. L. Box Drilling Contractor		
Sand, soft	14	67	Sand and clay	26	26
Hard sand	1	68	Water sand	5	31
Gravel	7	75	Red bed	10	41
Shale	7	82	Sand and clay	9	50
Well DY-31-52-708			Sand	6	56
Owner: Dale George Driller: Robert Lee-Bob-Barnhill			Coarse sand	9	65
Soil	2	2	Coarse sand	17	82
Gravel	5	7	Red bed	2	84
Sandy shale	5	12	Lime and gravel	9	93
White shale	16	28	Coarse sand	8	101
Sand and water	7	35	Yellow clay	6	107
Red sand	9	44	Well DY-31-52-802		
Sand, red - oil	1	45	Owner: E. Joiner Driller: N. L. Box Drilling Contractor		
Sand	7	52	Sand and clay	12	12
Sand, rock	1	53	Sand and gravel, dry	8	20

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-802—Continued			Well DY-31-52-804—Continued		
Sand and clay	13	33	Sand and small gravel	5	95
Red clay	2	35	Hard	2	97
Sand, water	8	43	Sand	10	107
Lime	2	45	Sand and gravel	12	119
Sand and wet clay - 6 gpm	12	57	Hard	5	124
Broken lime	3	60	Gravel	5	129
Red clay	20	80	Hard	4	133
Blue and red clay	5	85	Clay	7	140
Sand and clay	3	88			
Sand and gravel	9	97	Well DY-31-52-805		
Water gravel, bailed 40 gpm	7	104	Owner: John W. Boswell Driller: Johnny Weir Drilling		
Yellow clay	3	107	Sand	5	5
Well DY-31-52-803			Red clay	7	12
Owner: Cedric Bettis Driller: A. L. Verner			White clay	23	35
Soil and sand	4	4	White sand and gravel (little water)	10	45
Clay and gravel	8	12	Red clay	10	55
Sand	10	22	Hard	5	60
Red bed	26	48	Red clay	18	78
Broken lime	10	58	Hard	3	81
Lime	2	60	Red clay	17	98
Sand and gravel	29	89	Sand and gravel	13	111
Yellow clay	6	95	Hard	3	114
Clay	2	97	Sand and gravel	8	122
Well DY-31-52-804			Clay	9	131
Owner: John W. Boswell Driller: Johnny Weir Drilling			Well DY-31-52-806		
Sand	2	2	Owner: John W. Boswell Driller: Johnny Weir Drilling		
Clay	12	14	Sand	15	15
Dry sand	26	40	Hard sand	10	25
Sand and gravel	5	45	Sandy clay	10	35
Hard	5	50	Red and pink clay	12	47
Clay	5	55	Sand (dry)	13	60
Hard	5	60	Sand (little water)	14	74
Clay	5	65	Sand	7	81
White and gray water sand	9	74	Hard	3	84
Hard	6	80	Red clay	6	90
Clay	10	90	Sand - small gravel	11	101
			Hard	3	104

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-806—Continued			Well DY-31-52-906—Continued		
Clay	5	109	Brown shale	7	80
Gravel	14	123	Sand and gravel	23	103
Gravel	17	140	Sand	11	114
Clay	6	146			
Well DY-31-52-901			Well DY-31-52-907		
Owner: R. L. George			Owner: Ray Joiner		
Driller: N. L. Box Drilling Contractor			Driller: Johnny Weir Drilling		
			Soil	5	5
Sand and gravel	18	18	Gravel	15	20
Water, sand and gravel	16	34	White clay	10	30
White clay	5	39	Gray sand	10	40
Red bed	8	47	Lime rock	10	50
Lime, sand, and white clay	17	64	Red clay	20	70
Water sand	5	69	Lime	5	75
Coarse sand	4	73	Gravel	9	84
White clay	3	76	Lime	6	90
Coarse sand	6	82	Red sand and gravel	5	95
Broken lime	15	97	Lime, very hard	5	100
Purple clay	5	102	Gravel	3	103
			Clay	7	110
Well DY-31-52-903			Well DY-31-52-908		
Owner: R. L. George			Owner: Ray Joiner		
Driller: N. L. Box Drilling Contractor			Driller: Johnny Weir Drilling		
Sand and gravel	16	16	Soil	5	5
Yellow clay	14	30	Sand and gravel	10	15
Light blue clay	16	46	Lime	8	23
Water sand	20	66	Sand	12	35
Sand and gravel	11	77	Lime	25	60
Water sand	16	93	Red clay	25	85
Blue shale	8	101	Gravel	9	94
			Hard lime	4	98
Well DY-31-52-906			Well DY-31-53-407		
Owner: Alvis Kimmell			Owner: Ardean Kimmell		
Driller: Ardean Kimmell Irrigation Service			Driller: N. L. Box Drilling Contractor		
Sand	2	2	Clay and gravel	14	14
Brown shale	8	10	Sand and clay	4	18
Sand and gravel	17	27	Red bed	4	22
Sand	8	35			
Shale, gray	22	57			
Sand	16	73			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-407—Continued			Well DY-31-53-410—Continued		
Sand and clay (little water)	5	27	Water sand - soft	35	65
Sand and gravel, 12 gpm	5	32	Hard sand	14	79
Sand and clay	12	44	Sand and gravel	6	85
Water sand and white clay	16	60	Brown shale	12	97
Water gravel (bailed 60 gpm)	21	81	Blue shale	2	99
Broken lime	11	92	Well DY-31-53-414		
Hard lime and gravel	4	96	Owner: Ardean Kimmell Driller: Ardean Kimmell Irrigation Service		
Hard broken sand	12	108	Surface	3	3
Hard sand	10	118	Red clay	3	6
Blue shale	2	120	Sand and gravel	19	25
Well DY-31-53-408			Sand and shale	10	35
Owner: Ardean Kimmell Driller: Ardean Kimmell Irrigation Service			Gravel	3	38
Sand and clay	28	28	Brown shale	17	55
Fine sand	2	30	Sand	37	92
Fine sand	30	60	Gravel	13	105
Medium sand - clay	12	72	Shale (blue)	10	115
Coarse sand and gravel	20	92	Well DY-31-53-701		
Well DY-31-53-409			Owner: James D. Gardner Driller: N. L. Box Drilling Contractor		
Owner: Alvis Kimmell Driller: Ardean Kimmell Irrigation Service			Sand, gravel, clay	30	30
Sand	2	2	Red and blue clay	8	38
Red clay	6	8	Sand and clay	5	43
Gravel	11	19	Sandstone and clay	24	67
Sand, rock	5	24	Broken lime	7	74
Red clay	6	30	Water sand and lime	13	87
Sand, hard	15	45	Gray lime	5	92
Sand, soft	40	85	Water gravel	5	97
Gravel	15	100	Lime	2	99
Shale	3	103	Gravel and blue clay	11	110
Well DY-31-53-410			Yellow and red clay	6	116
Owner: Ardean Kimmell Driller: Ardean Kimmell Irrigation Service			Well DY-31-53-702		
Owner: James D. Gardner Driller: N. L. Box Drilling Contractor			No record	93	93
Surface	6	6	Lime and sand	7	100
Gravel	5	11	Gravel	7	107
Heavy sand	8	19	Blue clay	4	111
Brown shale	11	30			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-702--Continued			Well DY-31-53-719--Continued		
Yellow and red clay	2	113	Lime	2	41
Yellow and blue clay	7	120	Sand and clay	19	60
Well DY-31-53-704			Water sand	19	79
Owner: James D. Gardner			Lime	2	81
Driller: N. L. Box Drilling Contractor			Hard sand, little gravel	4	85
Sand, clay, and gravel	18	18	Lime and gravel	6	91
Dry gravel	21	39	Lime and clay	7	98
Water gravel	2	41	Gravel	13	111
White clay	6	47	Lime	3	114
Broken lime	13	60	Yellow clay	4	118
Red bed	3	63	Well DY-31-53-720		
Red, blue shale and lime	22	85	Owner: Deryl Johnson		
Sand water	15	100	Driller: Lightfoot and McCrum		
Sand and clay	5	105	Soil	4	4
Broken lime	12	117	Sand and gravel	22	26
Sand and gravel	6	123	Lime	4	30
Lime	2	125	Red clay	15	45
Yellow clay	5	130	Sand and water gravel	12	57
Well DY-31-53-705			Lime	1	58
Owner: James D. Gardner			Water gravel	10	68
Driller: N. L. Box Drilling Contractor			Lime	1	69
Sand and clay	8	8	Water gravel	17	75
Sand and gravel, seep at 39 ft	31	39	Blue green clay	2	77
White clay and lime	16	55	Water sand and gravel	21	98
Red, blue shale and lime	29	84	Yellow and blue clay	18	116
Water sand	9	93	Well DY-31-53-721		
Blue clay	4	97	Owner: Dale Johnson		
Water gravel	24	121	Driller: Lightfoot and McCrum		
Yellow clay	5	126	Soil	1	1
Well DY-31-53-719			Clay (red)	2	3
Owner: James D. Gardner			Caliche	5	8
Driller: N. L. Box Drilling Contractor			Sandy clay, white	12	20
Sandy clay	6	6	Sand	5	25
Gravel and sand, little water	21	27	Sand and gravel (water)	15	40
Sand and clay	7	34	Red bed	11	51
Sand water	5	39	Sandy lime	1	52
			Sandy clay, white	8	60

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-721—Continued			Well DY-31-53-726		
Sand (water)	37	97	Owner: P. R. George		
Blue clay	8	105	Driller: N. L. Box Drilling Contractor		
Well DY-31-53-722			Soil and clay	10	10
Owner: Dale Johnson			Sand clay	5	15
Driller: Lightfoot and McCrum			Gravel	15	30
Sand and gravel	34	34	Red bed	3	33
Red clay	28	62	Blue clay	7	40
Sand and gravel (water)	14	76	Sand and water	10	50
Sandy lime	2	78	Sandstone, hard	7	57
Sand and gravel (water)	8	86	Sand and gravel	38	95
Blue green clay	2	88	Blue shale	7	102
Gravel (water)	17	105	Well DY-31-53-727		
Blue clay	7	112	Owner: P. R. George		
Well DY-31-53-724			Driller: N. L. Box Drilling Contractor		
Owner: Alvis Kimmell			Sand and clay	8	8
Driller: Ardean Kimmell Irrigation Service			Sandy clay	12	20
Surface	5	5	Gravel and sand - little water	10	30
Sand and gravel	15	20	Red bed	3	33
Sand	6	26	Gravel and clay	12	45
Brown shale	16	42	Sand and gravel	20	65
Conglomerate	5	47	Hard sandstone	13	78
Brown shale	11	58	Gravel and sand	17	95
Sand	15	73	Blue shale	7	102
Conglomerate	4	77	Well DY-31-53-728		
Gravel	8	85	Owner: William L. Owens		
Conglomerate	11	96	Driller: N. L. Box Drilling Contractor		
Well DY-31-53-725			Soil	1	1
Owner: Alvis Kimmell			Clay and gravel	15	16
Driller: Ardean Kimmell Irrigation Service			Sand and clay	6	22
Surface	5	5	Yellow clay	2	24
Gravel	10	15	Sand and clay	8	32
Yellow clay	5	20	Water sand	28	60
Brown shale	12	32	Gravel and clay	21	81
Sand	8	40	Purple clay	2	83
Brown shale	16	56	Well DY-31-53-729		
Sand	8	64	Owner: William L. Owens		
Hard gravel	10	74	Driller: N. L. Box Drilling Contractor		
Brown shale	6	80	Soil and clay	3	3
			Lime	2	5

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-729--Continued			Well DY-31-57-605--Continued		
Gravel and clay	7	12	Water sand	20	80
Sand (water at 20 ft)	13	25	Gravel	5	85
Gravel	7	32	White shale	6	91
Gravel and clay	31	63	Gravel	12	103
Purple clay	3	66	Gray lime	2	105
Well DY-31-53-730			Well DY-31-58-703		
Owner: Dale Johnson Driller: Lightfoot and McCrum			Owner: T. E. Simonton Driller: T. E. Simonton		
Soil	1	1	Surface soil, sand	5	5
Red clay	8	9	Shale	25	30
Sand and gravel	21	30	Sand	10	40
Water sand and gravel	5	35	Shale	10	50
Sand	11	46	Sand	16	66
Red bed	9	55	Gravel	2	68
Sand	29	84			
Blue green clay	1	85	Well DY-31-59-203		
Sand and gravel	18	103	Owner: Dean Pounds Driller: Carl A. Taylor		
Blue shale	7	110	Soil	15	15
Well DY-31-53-731			Sand rock	10	25
Owner: Deryl Johnson Driller: Lightfoot and McCrum			Sand and sand rock ledges	13	38
Soil	1	1	Sand rock	17	55
Sand	26	27	Conglomerate	20	75
Sandy lime	4	31	Well DY-31-59-204		
Red bed	9	40	Owner: Dean Pounds Driller: Carl A. Taylor		
Water sand and gravel	30	70	Soil	16	16
Blue green clay	2	72	Sand rock	9	25
Sand and gravel	16	88	Crushed lime, soft	15	40
Sandy lime	2	90	Sand rock	15	55
Sand and gravel	6	96	Conglomerate	20	75
Blue shale	6	102	Well DY-31-59-301		
Well DY-31-57-605			Owner: Tom Johnson Driller: N. L. Box Drilling Contractor		
Owner: Oscar White Driller: Windham and Michael			Sand	10	10
Surface soil	10	10	Water sand	2	12
Shale	4	14	Red bed	8	20
Sandy shale	8	22	Blue shale	109	129
Dry sand	38	60	Sandy lime	14	143

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-59-301—Continued			Well DY-31-59-307		
Blue shale	24	167	Owner: Tom Johnson Driller: Lightfoot and McCrum		
Water sand	46	213	Soil	2	2
Blue shale	6	219	Red and blue clay	13	15
Well DY-31-59-303			Lime	2	17
Owner: L. E. Farley Driller: Lightfoot and McCrum			Sand	2	19
Soil	2	2	Lime	1	20
Sand	6	8	Sand (water)	12	32
Sand (water)	2	10	Blue and yellow clay	73	105
Sand	12	22	Blue shale	22	127
Blue clay	88	110	Gray sandy lime	25	152
Blue shale	15	125	Blue shale	17	169
Lime	1	126	Water sand (hard) water	28	197
Blue shale	64	190	Blue shale	8	205
Well DY-31-59-305			Well DY-31-59-601		
Owner: Wendell Pounds Driller: Carl A. Taylor			Owner: Herbert W. Buchanan Driller: N. L. Box Drilling Contractor		
Soil	3	3	Soil	4	4
Sandy clay	22	25	Purple clay	40	44
Sand rock	20	45	Lime, trace of water	1	45
Sand rock, hard	30	75	Blue clay	7	52
Sand rock, shells	10	85	Lime	12	64
Sand rock	5	90	Water sand	23	87
Sand rock, soft	5	95	Blue clay	8	95
Shale	5	100	Well DY-31-60-201		
Well DY-31-59-306			Owner: C. W. Crawford Driller: N. L. Box Drilling Contractor		
Owner: Wendell Pounds Driller: Carl A. Taylor			Sand and clay	21	21
Soil	3	3	Broken lime	4	25
Sand rock	52	55	Sand and clay	17	42
Hard sand rock	15	70	Lime	3	45
Soft sand rock	10	80	Sandy clay	5	50
Hard sand rock	10	90	Water gravel	5	55
Soft sand rock	5	95	Lime	3	58
Shale	5	100	Gravel	3	61
			Red clay	2	63
			Water gravel	7	70
			Yellow clay	4	74

Table 3.—Drillers' Logs of Selected Wells in Comanche County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-60-202			Well DY-31-60-204--Continued		
Owner: C. W. Crawford Driller: N. L. Box Drilling Contractor			Clean sand and fine black gravel		
Sand and clay	23	23	13	78	
Lime	2	25	Rock	1	79
Sand and clay	10	35	Coarse sand and some large gravel	2.5	81.5
Sand (little water)	17	52	Yellow clay	2.5	84
Lime	6	58	Gray clay	1	85
Broken lime	3	61	Well DY-31-60-206		
Water gravel	9	70	Owner: Bill Dendy Driller: N. L. Box Drilling Contractor		
Yellow clay	4	74	Clay and sand and gravel	30	30
Well DY-31-60-203			Dry gravel	15	45
Owner: L. M. Richman Driller: L. M. Richman			Water sand and gravel	17	62
Pack sand, soft sand, only small seep at 50 ft	50	50	Lime	2	64
Red clay	18	68	Red bed	7	71
Sand with 1 gpm water	3	71	Well DY-31-60-213		
Hard rock, 2 ft red rock	4	75	Owner: Bill Wilkerson Driller: N. L. Box Drilling Contractor		
Sand and gravel (6 gpm)	5	80	Clay	6	6
Hard rock	1	81	Sand and clay	16	22
Coarse sand, more water	5	86	Lime	1	23
Hard rock	1	87	Water sand	12	35
Sand and gravel	7.5	94.5	Lime	2	37
Rock	1	95.5	Broken lime and sand	25	62
Sand and gravel	7	102.5	Red bed	10	72
Rock	1.5	104	Water gravel	19	91
Yellow clay, brown clay to blue clay	11	115	Yellow clay	7	98
Well DY-31-60-204			Well DY-31-60-214		
Owner: L. M. Richman Driller: L. M. Richman			Owner: N. L. Box Driller: N. L. Box Drilling Contractor		
Soft sand rock	41	41	Clay	12	12
Hard rock	5	46	Sand	14	26
Gray clay	2	48	Broken lime	3	29
Fine white sand	6	54	Red bed	13	42
White sand, 2 in. rock	1	55	Sand and sandstone (water)	7	49
Rock	4	59	Sand	6	55
Brown sand and fine gravel	1	60	Sand and gravel	12	67
No record	5	65	Sandy clay	3	70
			Lime	1	71

Table 3.--Drillers' Logs of Selected Wells in Comanche County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-60-214--Continued			Well DY-31-60-218--Continued		
Sand and small gravel	16	87	Clay - sandy, silty, red, gray and yellow	3.5	46
Purple clay	13	100	Sand - fine to medium grain, thin clay lenses present, loose to consolidated, gray	9	55
Well DY-31-60-215			Well DY-31-60-218--Continued		
Owner: N. L. Box Driller: N. L. Box Drilling Contractor			Sand - fine to coarse grain, thin sandstone lenses present, loose to consolidated, poor sorting, gray		
Soil	1	1	Clay - silty, green	9	64
Clay	4	5	Sand - see sand (64 ft)	2	66
Broken lime	9	14	Sandstone - fine to very coarse grain, pebbly, poor sorting, gray	5	71
Sand and clay	6	20	Sand - fine to very coarse grain, pebbly, poor sorting, gray	3	74
Sand (water)	11	31	Conglomerate - see conglomerate (15 ft)	2	76
Red bed	13	44	Clay - sandy, silty, gray to green	.5	76.5
Sand	21	65	Sandstone - fine to coarse grain pebbly well cemented, poor sorting, gray	1.5	78
Gravel	29	94	Clay - silty, green	1	79
Blue shale	6	100	Sand - fine to medium grain, silty, clayey, brown and yellow	.33	79.33
Well DY-31-60-218			Well DY-31-60-218--Continued		
Owner: N. L. Box Driller: Texas Water Development Board			Sand - fine to medium grain, well cemented, gray		
Sand - fine to medium grain, silty, clayey, brown and yellow	3	3	Siltstone - sandy, clayey, gray	.5	80
Sand - fine to coarse grain, pebbly, brown and red	3	6	Conglomerate - see conglomerate (15 ft)	2	82
Sand - see sand (6 ft) red	2	8	Siltstone - clayey, green and white	1	83
Conglomerate - pebble size, sandy, well to poorly cemented, multi-colored, white, pink, black, mineral composition - quartz varieties (rose and smokey quartz, and chert)	7	15	Conglomerate - pebble size, sandy, poorly cemented, mineral composition, see conglomerate (15 ft)	3	86
Sandstone - fine grain, poorly cemented, yellow	1	16	Sand - fine to very coarse grain, gray	2	88
Conglomerate - see conglomerate (15 ft)	2	18	Conglomerate - pebble size, sandy, clayey, poor sorting, well to poorly cemented, green and gray	2	90
Sand - fine to medium grain, clayey gray and yellow	14	32	Sand - fine to medium grain, yellow to gray	3	93
Sandstone - fine to medium grain, calcareous cement, well cemented, gray	1	33	Conglomerate - see conglomerate (90 ft)	2	95
Clay - sandy, silty, red and gray	4	37	Sand - see sand (93 ft)	1.5	96.5
Sandstone - fine grain, gray	2	39	Sandstone - fine grain, well sorted, blue to gray	.5	97
Clay - sandy, silty, red and gray	3	42	Clay - blue	4	101
Sandstone - see sandstone (39 ft)	.5	42.5			

Table 3.--Drillers' Logs of Selected Wells in Comanche County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-60-303			Well DY-31-60-325--Continued		
Owner: Fred Cuze Driller: N. L. Box Drilling Contractor			Gravel 16 74		
Sand and clay	17	17	Yellow clay	4	78
Shells and sand, little water	8	25	Gravel	7	85
Red clay	16	41	Yellow clay	9	94
Dry sand	5	46	Well DY-31-60-326		
Tight sand, white	3	49	Owner: J. J. Mathis Driller: Ardean Kimmell Irrigation Service		
Broken lime	9	58	Surface	4	4
Red and blue clay	6	64	Sand	7	11
Yellow clay	17	81	Brown shale	14	25
Red bed	8	89	Sand	38	63
Hard lime	10	99	Gravel	14	77
Blue shale and shells	11	110	Brown shale	10	87
Well DY-31-60-305			Well DY-31-60-327		
Owner: City of DeLeon Driller: Unknown			Owner: J. J. Mathis Driller: Ardean Kimmell Irrigation Service		
Sand and gravel	2	2	Surface	4	4
Clay and gravel	10	12	Brown shale	20	24
Packed sand and clay	14	26	Sand	31	55
White sand rock	3	29	Gravel	20	75
Packed sand	20	49	Brown shale	11	86
Sand rock	3	52	Well DY-31-60-328		
Red bed, clay, and shale	12	64	Owner: J. J. Mathis Driller: Ardean Kimmell Irrigation Service		
Packed sand	8	72	Surface	4	4
Concrete rock	5	77	Yellow clay	8	12
Sand and gravel	4	81	Sand	23	35
Blue shale	19	100	Gravel	29	64
Blue sand rock	4	104	Sand and gravel	6	70
Blue shale	30	134	Brown shale	10	80
Blue sand and rock	12	146	Well DY-31-60-401		
Sandy shale and blue rock	32	178	Owner: O. G. Gilchrist Driller: N. L. Box Drilling Contractor		
Well DY-31-60-325			Sand and clay	9	9
Owner: J. J. Mathis Driller: Ardean Kimmell Irrigation Service			Sand (little water at 20 ft)	11	20
Surface	5	5	Sand and limestone	6	26
Sand	10	15	Red clay	16	42
Brown shale	17	32	Blue clay	2	44
Conglomerate	14	46	Yellow clay	11	55
Sand	12	58			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-60-501			Well DY-31-60-603—Continued		
Owner: Billy Gray Driller: N. L. Box Drilling Contractor			Sand and gravel		
Soil	4	4		10	55
Sand and clay	15	19	Gravel	13	68
Sand and gravel	7	26	Brown shale	10	78
Lime and gravel	31	57	Well DY-31-60-604		
Clay	3	60	Owner: Fred Williams Driller: Edwin Davis and Iredell Drilling		
Sand and gravel	19	79	Red bed - red shale	20	20
Blue shale	6	85	Sand, very fine with streaks of sandy shale	20	40
Well DY-31-60-601			Sand, very fine with increased sandy shale	5	45
Owner: Elmon Kerby Driller: Ardean Kimmell Irrigation Service			Sand, very fine - some shale	5	50
Surface	6	6	Sand and small gravel	5	55
Red - brown shale	18	24	Sand and small gravel	5	60
Soft sand	6	30	Sand and red shale	5	65
Conglomerate	6	36	Sand	5	70
Sand	14	50	Sandy shale	5	75
Gravel	24	74	Sand - sandy shale - some gravel	5	80
Brown shale	19	93	Sand and gravel	5	85
Yellow clay	30	123	Sand and increase gravel	5	90
Blue shale	1	124	Gravel - pick up first blue shale	5	95
Well DY-31-60-602			Blue - red brown shale	5	100
Owner: Elmon Kerby Driller: Ardean Kimmell Irrigation Service			Red - brown shale	20	120
Surface	5	5	Well DY-31-60-605		
Gravel	7	12	Owner: Tommy Taylor Driller: Smith and Wolf Drilling Co.		
Brown shale	13	25	Topsoil	3	3
Sand	8	33	Gray clay	7	10
Brown shale	9	42	Sandy shale	12	22
Sand	8	50	Sand	19	41
Sand and gravel	14	64	Rock	2	43
Yellow clay	4	68	Water sand	30	73
Brown shale	7	75	Clay	7	80
Well DY-31-60-603			Well DY-31-60-606		
Owner: Elmon Kerby Driller: Ardean Kimmell Irrigation Service			Owner: Tommy Taylor Driller: Smith and Wolf Drilling Co.		
Surface	5	5	Surface	6	6
Brown shale	30	35	Gray clay	6	12
Sand	10	45			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-60-606—Continued			Well DY-31-60-805		
Rock	2	14	Owner: Gayle McGinnis		
Blue clay	3	17	Driller: N. L. Box Drilling Contractor		
Rock	3	20	No record	13	13
Red bed	11	31	Coarse gravel	16	29
Sandy shale	27	58	Fine water sand	9	38
Water sand	24	82	Blue clay	1	39
Gray clay	8	90	Well DY-31-61-103		
Well DY-31-60-607			Owner: Robert Hodges		
Owner: Tommy Taylor			Driller: N. L. Box Drilling Contractor		
Driller: Smith and Wolf Drilling Co.			Sand and clay	28	28
Red clay	8	8	Dry gravel	8	36
Brown sandy clay	17	25	Clay	6	42
Rock	9	34	Lime	1	43
Red clay	21	55	Clay	5	48
Water sand	8	63	Water sand	5	53
Brown clay	7	70	Sand and white clay	17	70
Layer of rock	17	87	Water sand	6	76
Yellow clay	11	98	Tight coarse sand	6	82
Well DY-31-60-608			Tight gravel and sand	11	93
Owner: Tommy Taylor			Broken lime	5	98
Driller: Smith and Wolf Drilling Co.			Broken lime and clay	15	113
Red sandy clay	9	9	Purple clay	3	116
Rock	10	19	Well DY-31-61-104		
Gray sandy clay	12	31	Owner: Robert Hodges		
Gray sand	17	48	Driller: N. L. Box Drilling Contractor		
Rock	5	53	Soil	2	2
Clay	9	62	Red clay	4	6
Rock	12	74	Brown clay	9	15
Clay	6	80	Sand and clay	34	49
Yellow clay	5	85	Red bed	8	57
Well DY-31-60-801			Sand	10	67
Owner: Gayle McGinnis			Coarse sand	12	79
Driller: N. L. Box Drilling Contractor			Clay	7	86
Sand and clay	18	18	Well DY-31-61-105		
Gravel	7	25	Owner: Robert Hodges		
White clay	2	27	Driller: N. L. Box Drilling Contractor		
Gravel	7	34	Soil	2	2
Yellow clay	4	38	Clay	8	10

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-105—Continued			Well DY-31-61-108		
Sand and gravel, little water	18	28	Owner: Robert Hodges		
Sand and white clay	20	48	Driller: N. L. Box Drilling Contractor		
Gravel	17	65	Sand and clay (little water at 20 ft)	20	20
Sand and gravel	13	78	Sand - increase in water at 30 ft	32	52
Yellow clay	12	90	Gravel and sand - water	23	75
Sandstone	3	93	Yellow and blue clay	8	83
Mixed clay	90	183	Well DY-31-61-109		
Sandy shale	2	185	Owner: Robert Hodges		
Blue shale	2	187	Driller: N. L. Box Drilling Contractor		
Well DY-31-61-106			Soil and clay	8	8
Owner: Robert Hodges			Sandy clay	7	15
Driller: N. L. Box Drilling Contractor			Dry sand	11	26
Soil	2	2	Hard sand	4	30
Red clay	11	13	Sandy clay and gravel	7	37
Gravel	2	15	Hard sand	3	40
White clay	8	23	Water sand and gravel	47	87
Sand and clay	21	44	Blue shale	10	97
Water sand	11	55	Well DY-31-61-110		
Sand and clay	7	62	Owner: Robert Hodges		
Sand	6	68	Driller: N. L. Box Drilling Contractor		
Sand and clay	7	75	Soil	2	2
Coarse sand	11	86	Clay	6	8
Yellow clay	6	92	Sand and clay	12	20
Well DY-31-61-107			Sand and gravel	15	35
Owner: Robert Hodges			Sand and gravel - water	15	50
Driller: N. L. Box Drilling Contractor			Hard sand	10	60
Sand and clay	8	8	Sand and gravel	32	92
Dry gravel	7	15	Blue shale	8	100
Clay	2	17	Well DY-31-61-111		
Sand, little water	3	20	Owner: Robert Hodges		
Gravel	17	37	Driller: N. L. Box Drilling Contractor		
Sand and gravel	13	50	Soil and clay	10	10
Sand	6	56	Sandy clay	15	25
Sand and gravel	5	61	Dry sand and gravel	20	45
Sand	4	65	Sand water	10	55
Tight sand	8	73	Gravel and sand	43	98
Gravel	17	90	Blue shale	7	105
Clay	5	95			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-112			Well DY-31-61-116		
Owner: Bill Wood Driller: Lightfoot and McCrum			Owner: Bill Wood Driller: Lightfoot and McCrum		
Red and blue clay	12	12	Red clay	6	6
Sandy clay	6	18	Red and blue sandy clay	14	20
Sand	7	25	White sand and clay	23	43
Sandy clay	5	30	Water sand and gravel	12	55
Sand	13	43	Yellow clay	14	69
Water sand and gravel	14	57			
Blue and yellow shale	8	65	Well DY-31-61-117		
Owner: Bill Wood Driller: Lightfoot and McCrum			Owner: Bill Wood Driller: Lightfoot and McCrum		
			Red clay	5	5
			Red and blue sandy clay	13	18
Red clay	4	4	Sand	13	31
Gravel	4	8	Sand (water)	5	36
Red clay	4	12	Sand and gravel (water)	14	50
Red and blue sandy clay	15	27	Yellow clay	11	61
Lime	1	28			
Red and blue sandy clay	12	40	Well DY-31-61-119		
Sand and gravel	17	57	Owner: Bill Wood Driller: Comco Drilling Co.		
Blue and yellow shale	9	66	Limestone	2	2
Well DY-31-61-114			Sand and clay stringers	23	25
Owner: Bill Wood Driller: Lightfoot and McCrum			Sand	10	35
Red clay	12	12	Gravel and sand	11	46
Red sandy clay	15	27	Yellow shale	14	60
Sand and clay	10	37	Well DY-31-61-120		
Lime	1	38	Owner: P. R. George Driller: N. L. Box Drilling Contractor		
Water sand and gravel	16	54	Soil and clay	10	10
Yellow and blue shale	9	63	Sand and clay (little water)	40	50
Well DY-31-61-115			Hard sand	10	60
Owner: Bill Wood Driller: Lightfoot and McCrum			Sand and gravel	34	94
Red clay	10	10	Blue shale	6	100
Red and blue sandy clay	15	25	Well DY-31-61-201		
White sandy clay	15	40	Owner: George Caraway Driller: N. L. Box Drilling Contractor		
Sand	5	45	Clay and sand	22	22
Sand and marl (water)	10	55	Dry sand and gravel	21	43
Yellow clay	12	67	Water sand and gravel	6	49

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-201—Continued			Well DY-31-61-706—Continued		
White clay	2	51	Sand and gravel	8	28
Water gravel	6	57	Yellow clay	11	39
Clay	4	61	Fine sand	6	45
Well DY-31-61-405			Shale and rock	6	51
Owner: Humble Pipeline Co.			Sand streaks	21	72
Driller: N. L. Box Drilling Contractor			Clay streaks	24	96
Surface soil	1	1	Rock	2	98
Red clay	1	2	Yellow sand	4	102
Gravel	4	6	Sand streaks	14	116
Sandy clay	10	16	Rock	2	118
Hard, sandy lime	2	18	Coarse sand	17	135
Clay	8	26	Yellow clay and shale	5	140
Sand, small amount water 36 to 41 ft (2 gpm)	10	36	Well DY-31-61-801		
Broken lime	5	41	Owner: E. G. McKinnon		
Red clay	5	46	Driller: N. L. Box Drilling Contractor		
Sand and clay	12	58	Sand and clay	23	23
Fine grained white sand	6	64	Lime and sand	9	32
Coarse sand	17	81	Sand and clay	11	43
Gravel - water	22	103	White sand	17	60
Yellow clay	6	109	Sand, limy clay	23	83
Well DY-31-61-705			Red clay	10	93
Owner: Henry Van Terrell			Sand and clay	11	104
Driller: Lightfoot and McCrum			Gravel	4	108
Sandy clay	2	2	Yellow clay	2	110
Red clay	8	10	Gravel	5	115
Sand and sandy clay	35	45	Sandy lime	1	116
Sandy lime	5	50	Gravel	9	125
Sand	5	55	Yellow clay	2	127
Lime	2	57	Well DY-31-61-902		
Sand	11	68	Owner: Lee Campbell		
Water sand	12	80	Driller: J. T. Brown Water Well Driller		
Gravel	20	100	Brown soil	3	3
Blue and yellow clay	10	110	White clay	5	8
Well DY-31-61-706			Yellow clay	24	32
Owner: John H. Foley			White sand	8	40
Driller: Petit and Kight Driller Co.			Yellow sand	20	60
Sand rock	15	15	Red and green clay	8	68
Clay	5	20	Gray clay	7	75

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-902—Continued			Well DY-41-03-601—Continued		
Red clay	2	77	Sand, water	31	125
Green clay	13	90	Brown shale	25	150
White sand	20	110	Brown shale	40	190
White sand and gravel	35	145	Shale	8	198
Yellow sand and clay clods	15	160	Lime	4	202
White sand and gravel	15	175	Blue shale	63	265
Red and green clay	5	180	Lime	2	267
			Blue shale	13	280
Well DY-41-02-901			Blue shale with sand	120	400
Owner: D. C. Fry Driller: Harris Drilling Co.			Shale and sand, dry	32	432
Soil	3	3	Shale and sand, dry	32	464
Blue shale	61	64			
Dry sand and sandy shale	17	81	Well DY-41-03-903		
Water sand	21	102	Owner: W. C. Chilton Driller: Hoff Irrigation Co.		
Sand rock	3	105	Surface soil	5	5
Water sand	3	108	Caliche	17	22
Blue shale	3	111	Red rock	6	28
			Red rock with sand	7	35
Well DY-41-03-201			Sandy shale	10	45
Owner: B. E. Hanson Driller: Comco Drilling Co.			Sand with water	48	93
Sand and sandy clay	35	35	Shale and brown, yellow lime	10	103
Sand and gravel (water)	15	50	Sandy shale	10	113
Shale	20	70			
Sand (water)	20	90	Well DY-41-04-501		
Shale	11	101	Owner: Elton McDonald Driller: Hoff Irrigation Co.		
			Soil, red bed, caliche	17	17
Well DY-41-03-601			Sand rock	7	24
Owner: L. L. Hart Driller: Watt Foster			Shale	4	28
Soil	5	5	Sand rock	11	39
Light shale	20	25	Sandy shale	6	45
Red shale	30	55	Colored gravel	5	50
Sand	9	64	Water	10	60
Red shale	8	72	Shale	4	64
Sand, small amount water	1	73			
Red shale	7	80	Well DY-41-04-502		
Gravel, water	13	93	Owner: Elton McDonald Driller: Jack Leonard Drilling Co.		
Lime	1	94	Sand	22	22
			Lime	2	24

Table 3.--Drillers' Logs of Selected Wells in Comanche County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-04-502--Continued			Well DY-41-04-505--Continued		
Yellow clay	4	28	White sandy shale	13	57
Lime	3	31	White water sand	5	62
Sand with shale streaks	29	60	Yellow sandrock	12	74
Sand with small gravel (water)	11	71	Yellow sandy shale	16	90
Sand with shale streaks	25	96	White sandy shale	6	96
Lime	1	97	Sand and gravel	12	108
Water sand	5	102	Yellow shale	6	114
Water gravel	8	110	Well DY-41-04-506		
Yellow clay	6	116	Owner: R. H. Skurlock Driller: Harris Drilling Co.		
Well DY-41-04-504			White sandy shale	18	18
Owner: Lloyd Biggs Driller: Pickett Drilling Co.			Brown water sand	7	25
Top, sand	3	3	Rock	2	27
Sandy clay	17	20	Red sandy shale and red bed	13	40
Clay	10	30	Water sand	5	45
Sand	10	40	White sandy shale	15	60
Red shale	2	42	White water sand	5	65
Sand rock	4	46	Yellow sand rock	10	75
Red clay	14	60	Yellow sandy shale	15	90
Sand and small gravel, water	18	78	White sandy shale	6	96
Sand rock	2	80	Sand and gravel	12	108
Gravel	7	87	Yellow shale	5	113
Yellow clay	5	92	Well DY-41-04-601		
Red rock	2	94	Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.		
Gravel, water	26	120	Soil	1	1
Clay	6	126	Red clay	3	4
Well DY-41-04-505			White clay	15	19
Owner: R. H. Skurlock Driller: Harris Drilling Co.			Red clay and some sand	14	33
White, sandy shale	18	18	Sand rock	8	41
Brown water sand	4	22	Gravel	2	43
Rock	1	23	Gray sandy shale	9	52
Water sand	2	25	Yellow lime	1	53
Rock	1	26	Dry sand rock	4	57
Red sandy shale and red bed	13	39	Red bed	13	70
Water sand	5	44	Sand	9	79
			Gravel	1	80

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-04-601—Continued			Well DY-41-04-603—Continued		
Red bed	1	81	Light shale	1	102
Gray sandy shale	5	86	Sand to coarse gravel	18	120
Lime	5	91	Light shale	3	123
Sand	7	98	Yellow clay	7	130
Gravel	2	100			
Sandy lime	5	105	Well DY-41-04-604		
Broken lime, sandy shale, and red bed	5	110	Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.		
Gravel	10	120	Surface and red bed	25	25
Hard sandy lime	5	125	Lime shells	9	34
			Shale	6	40
Well DY-41-04-602			Sand	13	53
Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.			Yellow shale	1	54
No record	30	30	Sand and gravel	28	82
Shale - sand	15	45	Green shale	4	86
Red bed - red rock	15	60			
Gray shale - lime shale and sand rock	11.5	71.5	Well DY-41-04-701		
Gray shale - sandrock	10.5	82	Owner: Comanche Public School Driller: Hoff Irrigation Co.		
Red rock	2	84	Surface	3	3
Light shale	6	90	Gravel	7	10
Sand - gravel	30	120	Red clay	10	20
Yellow and purple gumbo	10	130	Gray shale	12	32
			Water sand	20	52
Well DY-41-04-603			Red bed	6	58
Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.			Sandy shale	19	77
Soil	2	2	Sand	5	82
Clay and shale	8	10	Sandy shale	3	85
Sand	8	18	Lime	2	87
Shale	16	34	Shale	1	88
Lime	4	38			
Shale	4	42	Well DY-41-05-105		
Sand	4	46	Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons		
Shale with coal and gravel	2	48	Surface soil	8	8
Sand	5	53	Clay	12	20
Red bed	17	70	Sand	2	22
Gray shale	7	77	Sand rock	24	46
Sand and lime	23	100	Shale	12	58
Red bed	1	101	Gravel	5	63
			Lime	3	66

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-05-105--Continued			Well DY-41-05-211--Continued		
Clay	4	70	Sand (water)	10	85
Sand	12	82	Gravel (water)	10	95
Shale	93	175	Sand and clay	6	101
			Gravel (water)	14	115
			Yellow and blue clay	11	126
Well DY-41-05-204			Well DY-41-05-214		
Owner: Joe Dorsey Driller: N. L. Box Drilling Contractor			Owner: Joe Dorsey Driller: Holdridge Drilling Co.		
Sand and clay	13	13	Sand	2	2
Broken lime and gravel	8	21	Brown clay	14	16
Water sand and gravel	8	29	Lime, gravel, and sand	9	25
Red bed	8	37	Sandstone and lime	3	28
Sandstone and lime	9	46	Sand and gravel	8	36
Sand and clay	9	55	Gravel and shale	4	40
Limy sand and gravel	26	81	Red clay	20	60
Yellow clay	16	97	Sand	8	68
			Sand rock	2	70
Well DY-41-05-210			Sand	20	90
Owner: Mary Kay Hamlett Driller: Lightfoot and McCrum			Sand rock and gravel	4	94
Sand	2	2	Brown and blue clay	11	105
Sandy clay (red)	17	19			
Sand (white) (water)	21	40	Well DY-41-05-502		
Red clay	5	45	Owner: R. W. Evans Driller: Curtis Alford Drilling and Well Service		
Sand (water)	5	50	Soil	4	4
Blue and yellow clay (sand)	10	60	Sand and caliche	11	15
Red clay	2	62	Sand	9	24
Sand (water)	23	85	Sand rock	2	26
Sand and gravel (water)	29	114	Sand	14	40
Yellow and blue clay	11	125	Sand rock	11	51
			Water sand	36	87
Well DY-41-05-211			Lime shell	3	90
Owner: Mary Kay Hamlett Driller: Lightfoot and McCrum			Water sand and gravel	32	122
Sand	1	1	Blue shale	18	140
Red clay	14	15			
Sand	15	30	Well DY-41-06-601		
Sand (water)	8	38	Owner: W. A. Springer Driller: J. T. Brown Water Well Driller		
Red clay	8	46	Topsoil	1	1
Blue clay (sand)	9	55	White clay and shale rock	6	7
Sand (water)	10	65			
Blue clay	10	75			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-06-601—Continued			Well DY-41-07-701—Continued		
Yellow clay and flat rock	11	18	Dry sand	7	73
Blue clay and flat rock	37	55	Sand	7	80
Gray clay	90	145	Broken rock and sand	20	100
Red and green clay	25	170	Soapstone	3	103
White sand	42	212	Sandy shale	5	108
Green clay	1	213	Soapstone	2	110
			Dry sand	4	114
			Shale	4	118
Well DY-41-06-901			Well DY-41-11-301		
Owner: Sherman Henson Driller: Tatum Drilling Co.			Owner: E. E. Bryson Driller: Sun Oil Co.		
Caliche	23	23	Yellow clay	10	10
Blue shale	37	60	Gray shale	30	40
Gray sandy shale	8	68	Broken lime	25	65
Crystalized sandstone	2	70	Blue shale	10	75
Green sandy clay	10	80	Broken lime	5	80
Red water sand	8	88	Blue shale	20	100
Green sandy clay	6	94	Sand (4 bwph)	45	145
Red bed	11	105	Shale	5	150
Blue clay	17	122	Sand (20 bwph)	10	160
Water sand	13	135	Pink shale	10	170
Crystalized sandstone	1	136	Sandy shale	35	205
Water sand	10	146	Sand	20	225
Blue shale	4	150	Red rock	10	235
			Water sand	20	255
Well DY-41-07-701			Well DY-41-11-301		
Owner: Travis Lincecum Driller: Alford James Price			Owner: E. E. Bryson Driller: Sun Oil Co.		
Topsoil	5	5	Sandy shale	70	325
Red clay	2	7	Gray shale	75	400
Caliche	3	10	Broken lime	10	410
Rock	3	13	Light shale	15	425
Dry sand	4	17	Broken lime	5	430
Yellow clay	2	19	Lime	10	440
Dry yellow clay	2	21	Blue shale	45	485
Yellow clay	6	27	Gritty lime	20	505
Sand	11	38	Gritty shale	155	660
Blue sandy shale	4	42	Blue shale	155	815
Blue sand (little water)	2	44	Lime	5	820
Coal, black	11	55	Blue shale	25	845
Sandy blue shale	11	66	Sand	5	850

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-11-301—Continued			Well DY-41-11-301—Continued		
Shale	85	935	Black lime	48	2,450
Sand	55	990	Lime	45	2,495
Blue shale	15	1,005	Black lime	135	2,630
Broken lime	15	1,020	White lime	250	2,880
Sandy shale	20	1,040	Sand	25	2,905
Sand	10	1,050	Brown lime	20	2,925
Sandy shale	25	1,075	White sand	15	2,940
Dark shale	45	1,120	White lime	20	2,960
Sandy shale	10	1,130	White sand	15	2,975
Sandy lime	30	1,160	White lime	25	3,000
Sandy shale	15	1,175	White sand, water	15	3,015
Sandy lime	20	1,195	White lime	5	3,020
Sand (1 bwp)	65	1,260	Dark sand	5	3,025
Sandy shale	30	1,290	Sand (water)	15	3,040
Dark shale	10	1,300	White sand	5	3,045
Sandy shale	5	1,305	White sand	5	3,050
Lime	100	1,405	Lime	5	3,055
Sand	10	1,415	White lime	5	3,060
Broken lime	15	1,430	White sand	28	3,088
Sand	15	1,445	Lime	2	3,090
Dark shale	25	1,470	Sand, water	45	3,135
Sand	25	1,495			
Sandy shale	15	1,510			
Sand	15	1,525			
Sandy lime	35	1,560	Soil	8	8
Sand	45	1,605	Sand and gravel	12	20
Blue shale	5	1,610	Blue clay	70	90
Sandy lime	20	1,630	Coal and fine sand	7	97
Sandy shale	45	1,675	Blue clay	26	123
Sand	10	1,685			
Dark shale	30	1,715			
Sandy shale	75	1,790			
Dark shale	450	2,240	Rock	12	12
Black shale	45	2,285	Sand	6	18
Dark shale	70	2,355	Shale	20	38
Soft dark shale	5	2,360	Rock	2	40
Black lime	34	2,394	Shale and rock	10	50
Black shale	8	2,402	Shale	8	58

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-13-301—Continued			Well DY-41-14-107—Continued		
Sand	12	70	Red rock and clay	44	143
Rock	6	76	Rock	7	150
Shale and sand breaks	4	80	Sand and gravel streaks	10	160
Red bed	53	133	Sand and gravel	20	180
White shale	3	136	Blue shale	3	183
Shale	4	140			
Sand	8	148	Well DY-41-14-108		
Rock	2	150	Owner: Brent Daniel Driller: Iredell Drilling		
Shale	2	152	Surface sand	15	15
Sand and gravel	8	160	Sand and rock shelf	15	30
Rock and shale breaks	20	180	Hard sand and shale	55	85
Shale and rock	25	205	Red clay	45	130
Rock	50	255	Sandy shale	2	132
			Sand and gravel and rock layers	34	166
Well DY-41-14-106			Green shale	14	180
Owner: U. L. Kingsbury Driller: Petit and Kight Drilling Co.					
No record	20	20	Well DY-41-14-302		
Sand	17	37	Owner: Glen McGlothlin Driller: Roy Michael		
Blue shale	59	96	Surface soil	9	9
Red clay and rock	16	112	Sandy red clay	3	12
Coarse sand	8	120	Sand and gravel - weak water	6	18
Lime rock	7	127	White caliche - shale breaks	7	25
Gray clay	21	148	Red clay	5	30
Rock	7	155	White shale	5	35
Shale and gravel streaks	11	166	Blue shale - light color	7	42
Gravel	14	180	Water sand - weak	3	45
Blue shale	2	182	Hard sandstone	5	50
			Water sand	10	60
Well DY-41-14-107			Blue sandy shale	2	62
Owner: U. L. Kingsbury Driller: Petit and Kight Drilling Co.			Red clay	23	85
No record	16	16	Blue shale	5	90
Sand and sand rock	17	33	Red clay	12	102
Blue clay and shale	17	50	Blue shale	2	104
Hard sand streaks	12	62	Water sand - good water	3	107
Blue clay	6	68	Blue shale	5	112
Red clay	21	89	Water sand	1	113
Blue clay	3	92			
Shale and lime rock	7	99			

Table 3.--Drillers' Logs of Selected Wells in Comanche County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-14-302--Continued			Well DY-41-14-303		
Hard limestone	4	117	Owner: Euel Eddleman Driller: Curtis Alford Drilling and Well Service		
Blue-green shale	8	125	Soil	2	2
Hard limestone	8	133	Red clay	3	5
Blue shale	7	140	Brown and yellow shale	16	21
Sand and gravel - good sand	23	163	Sand	7	28
Hard limestone	2	165	Gravel	4	32
Hard sand	5	170	Hard lime rock	2	34
Blue sandy shale	27	197	Gravel and sand	30	64
Black shale	9	206	Hard lime	1	65
Blue sandy shale	9	215	Gravel and sand	10	75
Black shale	5	220	Blue shale	5	80
Blue sandy shale	10	230	Hard lime	5	85
Black shale	5	235	Blue sand	10	95
Blue sandy shale	15	250	Hard red sand	10	105
Black shale	30	280	Hard red sand rock	19	124
Hard sandy shale	4	284	Water sand	14	138
Black shale	22	306	Lime rock	3	141
Light blue shale	32	338	Red bed	9	150
Hard gray sand - 1 barrel salt water (rainbowed)	152	490	Well DY-41-14-304		
Black shale	60	550	Owner: Roscoe White Driller: Tatum Drilling Co.		
Light sandy shale	15	565	Caliche and limestone	18	18
Black shale	43	608	Blue shale	47	65
Sandy blue shale	127	735	Water sand	13	78
Gray sand - light gas show	28	763	Sandy shale	7	85
Black shale	9	772	Water sand	22	107
White sand (6 barrels salt water)	9	781	Blue shale	5	112
Sandy shale	9	790	Well DY-41-14-305		
Black shale (real black)	8	798	Owner: J. N. Thompson Driller: Tatum Drilling Co.		
Light blue shale	32	830	No record	72	72
White sand (dry)	18	848	Sand and gravel	10	82
Hard gray sand	8	856	Sandy clay and sandstone	8	90
Black shale - coal black	15	871	Sandy clay	16	106
Hard sand with layers blue shale	29	900	Limestone	4	110
			Red and blue clay	23	133
			Water sand	10	143

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-14-305—Continued			Well DY-41-14-803		
Crystal sandstone - hard	3	146	Owner: Elsie M. Rea Driller: L. W. Little Drilling Co.		
Red and blue clay	14	160	Surface	2	2
Coarse water sand	8	168	Hard white limestone	88	90
Limestone	2	170	Green shale	8	98
Sand and gravel	8	178	Hard white limestone	38	136
Limestone	6	184	Fine dark sand	10	146
Green sandy clay	4	188	Black shale	2	148
Well DY-41-14-402			Blue green shale	20	168
Owner: Russell Hayes Driller: Fredell Drilling			White sand	9	177
Topsoil and clay	15	15	Hard blue limestone	13	190
Sand and rock shelf	15	30	Red shale	22	212
Hard sand rock	55	85	Sand	18	230
Red clay	45	130	Hard white flint rock	8	238
Sandy shale	2	132	Red shale, hard	17	255
Sand and gravel with rock breaks	35	167	Well DY-41-15-101		
Green shale	18	185	Owner: H. C. Aytes Driller: Leon Drilling Co.		
Well DY-41-14-701			Soil	4	4
Owner: Gayle Isham, Jr. Driller: Tatum Drilling Co.			Caliche - gravel	16	20
Topsoil and pack sand	10	10	Sandy shale	30	50
Yellow caliche	8	18	Water sand	20	70
Brown sand	12	30	Hard sand	5	75
Yellow sand	14	44	Sand - gravel - water	15	90
Gray shale	119	163	Hard sand	10	100
Sandy shale	6	169	Sand - gravel - water	25	125
Gray shale	24	193	Sand - lime - hard	5	130
Sandy shale	28	221	Lime shells - red shale	18	148
Water sand	13	234	Water sand	24	172
Soapstone	8	242	Lime - sandy	4	176
Hard rock	3	245	Well DY-41-15-401		
Sandy shale	27	272	Owner: F. L. Stephens Driller: Tatum Drilling Co.		
Red bed	11	283	Sandy red clay	30	30
Sand and water sand	42	325	Crystal limestone	2	32
Soapstone	10	335	Water sand	13	45
			Sandy clay	8	53
			Water sand (12 gpm)	34	87

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-15-401—Continued			Well DY-41-15-401—Continued		
Red and blue clay	68	155	Sand and gravel	9	196
Fine sand	8	163	Red and blue clay	6	202
Red bed	24	187	Yellow rock	3	205

COMANCHE COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL				
Well DY-31-51-309		Well DY-31-52-503—Continued		Well DY-31-53-701	
Owner: Robert C. Atchison		Jan. 3, 1968	16.63	Owner: James D. Gardner	
July 10, 1968	72.3	Feb. 5, 1968	16.14	Oct. 1, 1959	67
Mar. 24, 1969	71.70	Mar. 24, 1969	15.80	Apr. 1, 1966	66.54
Well DY-31-51-606		Well DY-31-52-605		Mar. 21, 1968	68.16
Owner: R. A. Barnett		Owner: B. E. Hanson		Mar. 26, 1969	67.65
Mar. 23, 1966	26.28	July 16, 1965	57.57	Well DY-31-53-721	
Mar. 22, 1968	26.98	Apr. 19, 1966	28.81	Owner: Dale Johnson	
July 22, 1968	25.75	Mar. 21, 1967	29.87	Mar. 2, 1965	35
Mar. 24, 1969	25.98	Mar. 24, 1969	37.63	Apr. 19, 1966	44.73
Well DY-31-51-901		Well DY-31-52-611		Mar. 21, 1967	45.04
Owner: Elvin Walker		Owner: L. V. Park		Well DY-31-53-722	
Aug. 11, 1965	1.05	Jan. 27, 1967	25	Owner: Dale Johnson	
Mar. 23, 1966	+ .50	Mar. 24, 1969	26.70	Apr. 19, 1966	54.30
Mar. 23, 1967	+ .95	Well BY-31-52-709		Mar. 21, 1967	50.72
Mar. 26, 1969	+ .98	Owner: Dale George		Mar. 26, 1969	50.05
Well DY-31-52-503		June 30, 1966	49.96	Well DY-31-57-606	
Owner: N. L. Box		Mar. 24, 1969	50.03	Owner: Oscar White	
Oct. 10, 1965	14.30	Well DY-31-52-804		July 5, 1965	40.53
Mar. 23, 1966	15.50	Owner: John W. Boswell		Mar. 24, 1966	44.28
Sept. 1, 1966	15.39	Mar. 24, 1969	80.65	Mar. 15, 1967	41.55
Sept. 27, 1966	15.41	Well DY-31-52-904		Well DY-31-58-703	
Nov. 2, 1966	16.07	Owner: Feltz Terrill		Owner: T. E. Simonton	
Nov. 29, 1966	15.70	July 15, 1965	14.95	July 9, 1965	38
Jan. 4, 1967	16.32	Apr. 19, 1966	29.44	Mar. 24, 1966	34.42
Mar. 21, 1967	16.42	Mar. 21, 1967	16.80	Mar. 26, 1969	33.57
May 3, 1967	16.33	Mar. 24, 1969	33.60	Well DY-31-59-302	
June 7, 1967	16.18	Well DY-31-53-414		Owner: E. L. White	
Aug. 2, 1967	16.38	Owner: Ardean Kimmell		Mar. 23, 1966	46.16
Sept. 11, 1967	16.62	Aug. 27, 1968	40	Mar. 21, 1967	20.64
Oct. 3, 1967	16.64	Mar. 27, 1969	55.26	Mar. 26, 1969	20.82
Nov. 7, 1967	16.83				
Dec. 4, 1967	16.78				

Table 4.—Water Levels in Selected Wells in Comanche County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well DY-31-59-703		Well DY-31-60-211—Continued		Well DY-31-60-901—Continued	
Owner: Charles Carter		Aug. 3, 1967	59.17	Mar. 7, 1967	30.45
June 29, 1966	23.62	Sept. 11, 1967	60.20	May 3, 1967	31.36
Mar. 26, 1969	23.89	Oct. 3, 1967	59.52	July 5, 1967	32.04
Well DY-31-59-901		Nov. 7, 1967	59.54	Aug. 3, 1967	32.21
Owner: Jack Martin		Dec. 4, 1967	59.14	Sept. 11, 1967	31.90
Oct. 28, 1959	27	Jan. 3, 1968	59.05	Oct. 4, 1967	31.55
Mar. 23, 1966	24.90	Feb. 5, 1968	62.50	Dec. 5, 1967	30.80
Mar. 21, 1967	25.79	Mar. 22, 1968	59.09	Jan. 4, 1968	30.80
Mar. 26, 1969	25.03	Mar. 26, 1969	58.82	Feb. 6, 1968	30.83
Well DY-31-60-101		Well DY-31-60-213		Well DY-31-61-201	
Owner: Elvin Walker		Owner: Bill Wilkerson		Owner: George Caraway	
Aug. 11, 1965	10.03	Oct. 9, 1964	60	Jan. 20, 1960	37
Apr. 19, 1966	9.34	Sept. 30, 1965	52.90	Apr. 1, 1966	37.14
Mar. 21, 1967	9.75	Apr. 1, 1966	51.85	Mar. 7, 1967	37.66
Mar. 22, 1968	8.69	Mar. 4, 1967	53.6	Mar. 22, 1968	37.62
Mar. 26, 1969	11.46	Mar. 26, 1969	52.96	Mar. 27, 1969	37.23
Well DY-31-60-206		Well DY-31-60-401		Well DY-31-61-404	
Owner: Bill Dendy		Owner: O. G. Gilchrist		Owner: J. C. Barnes	
Dec. 9, 1959	45	Mar. 24, 1966	13.24	Apr. 15, 1966	58.29
July 13, 1965	41.00	Mar. 7, 1967	13.86	Mar. 7, 1967	57.07
Apr. 19, 1966	32.99	Mar. 26, 1969	12.83	Mar. 27, 1969	54.81
Mar. 21, 1967	42.23	Well DY-31-60-503		Well DY-31-61-703	
Mar. 22, 1968	43.16	Owner: Tommie Lawless		Owner: E. G. McKinnon	
Mar. 24, 1969	42.08	Mar. 24, 1966	16.00	July 20, 1965	60.1
Well DY-31-60-211		Mar. 7, 1967	17.13	Mar. 7, 1967	54.26
Owner: L. M. Richman		Mar. 26, 1969	17.42	Mar. 22, 1968	56.97
Sept. 1, 1966	59.22	Well DY-31-60-901		Well DY-41-02-603	
Sept. 27, 1966	58.16	Owner: I. N. Grissom		Owner: Mrs. H. T. Redwine	
Nov. 2, 1966	58.53	Jan. 20, 1960	33	Mar. 24, 1966	78.44
Nov. 29, 1966	57.97	Apr. 15, 1966	29.58	Mar. 6, 1967	78.20
Jan. 4, 1967	58.41	Sept. 1, 1966	30.28	Mar. 26, 1969	78.45
Feb. 8, 1967	57.98	Sept. 27, 1966	30.06		
Mar. 7, 1967	58.16	Nov. 2, 1966	30.23		
May 2, 1967	58.39	Nov. 30, 1966	30.38		
June 7, 1967	58.23	Jan. 4, 1967	30.69		
July 5, 1967	58.49	Feb. 8, 1967	30.60		

Table 4.—Water Levels in Selected Wells in Comanche County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well DY-41-03-101		Well DY-41-05-105		Well DY-41-05-503—Continued	
Owner: Roland Collins		Owner: U.S. Army Corps of Engineers		Mar.	7, 1967 39.37
Oct.	28, 1959 30	Mar.	27, 1969 50.96	Mar.	27, 1969 40.68
July	5, 1965 27.21	Well DY-41-05-202		Well DY-41-05-801	
Mar.	24, 1966 27.90	Owner: John Croft		Owner: George Stephens	
Mar.	6, 1967 28.03	July	30, 1965 36.74	Oct.	2, 1959 25
Well DY-41-03-903		Mar.	25, 1966 24.15	July	1, 1965 21.73
Owner: W. C. Chilton		Mar.	6, 1967 26.22	Apr.	14, 1966 23.12
Oct.	8, 1965 50.50	Mar.	27, 1969 24.46	Mar.	22, 1967 22.75
Mar.	24, 1966 51.14	Well DY-41-05-204		Mar.	27, 1969 22.66
Mar.	6, 1967 51.42	Owner: Joe Dorsey		Well DY-41-05-901	
Mar.	26, 1969 50.85	Jan.	19, 1960 21	Owner: Guy E. Moore	
Well DY-41-04-204		Oct.	8, 1965 23.58	Oct.	2, 1959 71
Owner: A. L. Hendrix		June	27, 1966 23.47	Dec.	8, 1959 64
Mar.	26, 1969 21.62	Sept.	1, 1966 23.32	June	30, 1965 68.24
Well DY-41-04-502		Sept.	27, 1966 22.55	Sept.	1, 1966 72.59
Owner: Elton McDonald		Nov.	2, 1966 23.01	Sept.	27, 1966 69.71
July	29, 1965 81.43	Nov.	30, 1966 23.39	Nov.	2, 1966 70.31
Mar.	24, 1966 75.73	Jan.	4, 1967 23.71	Nov.	29, 1966 71.67
Mar.	7, 1967 95.60	Feb.	7, 1967 23.97	Jan.	4, 1967 70.71
Mar.	27, 1969 67.35	Mar.	6, 1967 24.16	Feb.	8, 1967 70.40
Well DY-41-04-603		May	3, 1967 24.51	Mar.	22, 1967 70.66
Owner: Rhea T. Hoff		June	7, 1967 24.72	May	3, 1967 69.91
Nov.	16, 1959 50	July	5, 1967 24.90	June	7, 1967 72.76
July	12, 1965 61.32	Aug.	3, 1967 25.14	Sept.	11, 1967 77.20
Mar.	24, 1966 41.73	Sept.	11, 1967 26.58	Oct.	4, 1967 73.31
Mar.	6, 1967 40.39	Oct.	4, 1967 26.03	Nov.	8, 1967 73.65
Mar.	21, 1968 36.10	Nov.	7, 1967 26.08	Dec.	5, 1967 72.58
Mar.	27, 1969 39.32	Dec.	5, 1967 26.04	Jan.	4, 1968 72.79
Well DY-41-04-701		Jan.	4, 1968 26.20	Feb.	6, 1968 66.96
Owner: Comanche Public School		Feb.	6, 1968 24.55	Mar.	27, 1969 67.60
July	6, 1965 25.80	Mar.	21, 1968 23.96	Well DY-41-05-902	
Mar.	24, 1966 26.35	Mar.	27, 1969 24.32	Owner: J. A. Thompson	
Mar.	26, 1969 26.00	Well DY-41-05-503		Oct.	2, 1959 24
		Owner: Irvin Dunn		July	1, 1965 22.26
		July	9, 1965 39.23	Apr.	14, 1966 26.51
		Apr.	19, 1966 40.78	Mar.	22, 1967 22.36
				Mar.	27, 1969 19.67

Table 4.—Water Levels in Selected Wells in Comanche County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well DY-41-06-501		Well DY-41-12-201—Continued		Well DY-41-14-102	
Owner: J. W. Barbee		Nov. 2, 1966 63.24		Owner: R. E. Adcock	
Oct. 26, 1959	122	Nov. 30, 1966	63.42	Oct. 16, 1959	72
Sept. 9, 1968	122.25	Jan. 2, 1967	63.04	Dec. 18, 1959	71
Mar. 27, 1969	125.18	Feb. 8, 1967	63.35	Apr. 14, 1966	93.56
Well DY-41-06-701		Mar. 15, 1967	63.90	Mar. 7, 1967	98.7
Owner: W. D. Bryson		May 3, 1967	63.23	Mar. 27, 1969	67.46
Oct. 26, 1959	66	July 5, 1967	63.59	Well DY-41-14-303	
June 30, 1965	65.65	Aug. 3, 1967	63.57	Owner: Euel Eddleman	
Apr. 14, 1966	66.48	Sept. 12, 1967	63.69	June 29, 1965	27
Mar. 22, 1967	67.72	Oct. 4, 1967	63.72	Apr. 14, 1966	34.13
Mar. 27, 1969	66.57	Dec. 5, 1967	63.62	Mar. 22, 1967	33.85
Well DY-41-06-901		Jan. 4, 1968	63.91	Mar. 27, 1969	34.20
Owner: Sherman Henson		Feb. 5, 1968	63.47	Well DY-41-14-701	
June 28, 1965	60.37	Mar. 27, 1969	62.56	Owner: Gayle Isham, Jr.	
Apr. 14, 1966	113.20	Well DY-41-12-304		Apr. 16, 1966	235
Mar. 22, 1967	113.01	Owner: Buster McDonald		Mar. 27, 1969	252.0
Mar. 27, 1969	112.65	July 26, 1965	100	Well DY-41-15-401	
Well DY-41-12-101		Apr. 15, 1966	74.9	Owner: F. L. Stephens	
Owner: City of Comanche		Mar. 15, 1967	52.81	Jan. 28, 1966	37
Sept. 3, 1946	14	Mar. 27, 1969	32.82	July 11, 1968	48.71
Nov. 3, 1959	8	Well DY-41-13-201		Mar. 27, 1969	48.57
Mar. 25, 1966	10.52	Owner: Chester Evans		Well DY-41-21-201	
Mar. 6, 1967	10.74	July 2, 1965	33.79	Owner: Roy Henson	
Mar. 21, 1968	7.92	Apr. 14, 1966	32.89	Jan. 18, 1960	71
Mar. 27, 1969	9.80	Mar. 15, 1967	32.43	Apr. 13, 1966	71.35
Well DY-41-12-201		Apr. 2, 1969	30.87	Mar. 15, 1967	73.81
Owner: Brady York		Well DY-41-13-301		Mar. 27, 1969	70.03
Oct. 20, 1959	64	Owner: Gustine Water Supply Corp.			
July 5, 1965	62.96	Jan. 4, 1967	48.14		
Apr. 15, 1966	62.63				
Sept. 1, 1966	60.95				
Sept. 27, 1966	62.98				

COMANCHE COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: (Wb, Woodbine Group; Kea, Edwards and associated limestones; KF, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Bensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Bosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "Reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnotes.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
DY-31-51-603	56	July 28, 1965	Ktp	25	--	174	13	97	--	350	52	220	0.6	55.0	--	990	811	486	30	1,400	7.1	1.9
605	75	do.	do.	20	--	95	5	35	--	281	26	42	.7	24	--	530	386	259	23	653	7.6	1.0
606	75	July 22, 1968	do.	19	--	97	6	44	3.0	298	33	53	.3	16.5	0.1	416	--	270	26	700	7.4	1.2
607	90	Aug. 9, 1965	do.	18	--	237	11	65	--	362	43	321	.2	3	--	1,060	879	660	18	1,600	7.1	1.1
52-402	60	May 21, 1937	do.	--	--	--	--	--	--	293	84	365	--	--	--	930	--	--	--	--	--	--
402	60	Aug. 11, 1966	do.	20	--	234	15	98	--	345	60	352	.1	3	--	950	--	650	25	1,670	7.1	1.7
408	80	Jan. 10, 1969	Khe, Kho	--	--	314	17.1	195.5	2.0	433.1	46	305.3	--	--	--	1,458	1,093	--	33	2,352	7.3	2.9
409	84	do.	Kho	--	--	480	85.4	282.9	2.7	854	96	745.5	--	--	--	2,726	2,113	--	28	4,596	7.1	3.1
410	80	do.	do.	--	--	620	103.7	501.4	4.7	762.5	120	1,189.2	--	--	--	3,799	2,914	--	36	6,128	7.4	4.9
504	74	July 13, 1965	Ktp	18	--	241	16	184	--	400	129	399	.4	29	--	1,420	1,220	670	37	2,060	7.2	3.1
505	83	Aug. 11, 1966	P	22	--	167	49	164	--	420	61	397	.3	< 0.4	--	1,070	--	620	37	1,860	7.3	2.9
608	103	Aug. 9, 1965	Ktp	24	--	40	4	23	--	128	19	15	.3	31	--	284	219	117	30	349	7.0	.93
703	90	May 4, 1967	do.	--	--	226	32.9	82.8	3.9	244	100.8	117.1	--	--	--	1,049	684	--	20	1,685	6.6	1.4
703	90	Mar. 13, 1969	do.	22	--	205	17	88	--	345	68	289	.3	11.5	--	870	--	590	25	1,490	7.0	1.7
707	82	July 13, 1965	do.	23	--	305	31	212	--	423	93	630	.7	6	--	1,720	1,512	890	34	2,630	7.1	3.1
710	100	May 4, 1967	do.	--	--	358	36.6	119.6	3.9	244	48	181	--	--	--	1,529	868	--	20	2,466	6.9	1.6
710	100	Mar. 13, 1969	do.	22	--	323	27	116	--	268	87	620	< .1	3.5	--	1,330	--	920	22	2,320	6.7	1.6
907	110	Jan. 24, 1969	do.	--	--	--	--	--	--	--	--	--	--	--	--	1,664	--	--	--	2,600	7.0	--
907	110	Feb. 20, 1969	do.	--	--	114	46.4	147.2	4.3	469.7	33.6	305.3	--	--	--	1,493	882	--	40	2,408	7.2	2.9
907	110	Mar. 10, 1969	do.	50	16.8	199	43	367	--	540	185	570	1.8	< .4	--	1,680	1,699	670	54	2,630	7.1	6.2
908	111	Jan. 24, 1969	do.	--	--	--	--	--	--	--	--	--	--	--	--	454.4	--	--	--	730	7.4	--
53-407	120	July 16, 1965	do.	18	--	63	5	32	--	200	16	44	.5	12	--	391	289	178	28	492	7.2	1.1
703	112	July 13, 1965	do.	14	--	88	25	36	--	333	27	71	.5	< .4	--	600	426	324	20	750	7.4	.9
57-604	100	Dec. 10, 1959	Ke	15	--	120	35	60.7	--	401	34	138	--	5.1	.26	605	--	444	23	1,090	6.8	1.3
604	100	July 5, 1965	do.	14	--	125	37	62	--	399	38	156	.7	11	--	840	640	465	23	1,138	7.3	1.3
604	100	Aug. 11, 1966	do.	15	--	118	37	54	--	405	28	142	.3	7	--	600	--	647	21	1,070	7.3	1.1

See footnotes at end of table.

CUMANCHE COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Pp)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
DY-31-57-604	100	Mar. 6, 1969	Ka	13	--	143	42	63	--	429	34	188	.5	5.6	--	700	--	530	21	1,200	7.3	1.2
606	100	Aug. 11, 1966	Ka	16	--	78	19	40	--	283	20	63	0.3	15	--	390	--	274	24	688	7.5	1.1
58-702	56	July 9, 1965	Ktp	21	--	110	26	61	--	434	36	64	1.8	27.0	--	580	560	383	26	920	7.4	1.4
702	56	July 23, 1968	do.	22	--	112	25	65	4.0	429	38	82	.9	25	0.2	580	--	384	27	980	7.2	1.4
59-201	160	Jan. 20, 1960	Ktp, P	13	1.2	141	47	* 98	--	423	50	252	.3	4.8	--	874	815	546	28	1,470	7.3	1.8
205	106	Mar. 5, 1969	Ktp	18	--	248	68	610	--	422	49	1,300	.6	5	--	2,510	--	900	60	4,210	7.1	8.9
301	219	July 16, 1965	P	7	--	10	4	196	--	353	44	97	--	< .4	--	710	532	43	91	910	8.3	13.1
302	262	Aug. 10, 1965	Ktp, P	20	--	54	36	250	--	520	68	236	1	< .4	--	1,190	925	285	66	1,600	7.4	6.5
304	145	July 20, 1965	Ktp	33	--	71	12	4	--	255	11	6	.7	10	--	403	273	227	4	439	7.9	0.1
60-202	74	Dec. 9, 1959	do.	20	--	218	19	* 128.2	--	431	54	335	--	10	.08	996	--	622	31	1,790	6.8	2.2
209	103	July 13, 1965	do.	21	--	231	20	72	--	361	56	325	.4	8	--	1,090	913	650	19	1,610	7.2	1.2
213	98	Sept. 30, 1965	Kbo	17	--	166	10	46	--	331	23	176	.2	5	--	770	606	457	18	1,080	7.3	.9
215	100	Mar. 25, 1969	do.	7	--	65	5	24	--	206	15	27	.4	1.0	--	265	--	184	22	460	7.5	.8
215	100	do.	do.	8	--	90	8	29	--	292	12	43	< .1	< .4	--	334	--	258	19	598	7.4	.8
215	100	do.	do.	7	--	94	8	30	--	310	10	46	< .1	< .4	--	347	--	269	20	624	7.3	.8
215	100	do.	do.	6	--	94	8	30	--	306	10	46	< .1	< .4	--	344	--	268	20	620	7.3	.8
215	100	do.	do.	7	--	96	9	30	--	314	9	47	.3	< .4	--	352	--	274	19	631	7.3	.8
215	100	do.	do.	7	--	98	8	31	--	322	9	49	.2	.5	--	361	--	280	19	647	7.3	.8
215	100	do.	do.	6	--	100	9	31	--	326	9	51	.2	.5	--	367	--	285	19	655	7.3	.8
215	100	Mar. 26, 1969	do.	7	--	100	9	31	--	325	9	51	.2	< .4	--	367	--	285	19	656	7.3	.8
215	100	do.	do.	20	--	101	9	32	--	327	11	52	< .1	2	--	388	--	290	20	664	7.3	.8
215	100	Mar. 27, 1969	do.	19	--	101	9	32	--	327	11	53	< .1	1	--	387	--	290	20	666	7.3	.8
215	100	Mar. 28, 1969	do.	18	--	101	9	32	--	327	12	54	< .1	2	--	389	--	290	20	671	7.3	.8
217	103	Mar. 13, 1969	do.	--	--	48	44	41	1	321	55	72.5	--	--	--	422	--	--	23	660	7.8	1.0
218	101	Mar. 7, 1969	do.	17	--	86	13	43	--	320	23	47	.2	5	--	391	--	269	26	675	7.4	1.1
218	101	Mar. 14, 1969	do.	--	--	68	23	44	6.7	302	40	60	--	--	--	533	390	--	26	680	7.7	1.2
221	32	do.	Khe	--	--	28	5	100	.8	248	175	30	--	--	--	425	461	--	71	585	8.0	4.6
312	200	Mar. 20, 1946	Ktp, P	12	0.03	150	22	* 22.8	--	296	33	160	.0	8.2	--	675	554	465	10	973	7.2	.5
315	200	Mar. 20, 1946	Ktp, P	12	.04	162	20	* 20.4	--	390	86	242	.0	6	--	912	740	486	8	1,530	7.2	.4
802	25	July 24, 1968	Ktp	--	--	--	--	--	3	--	--	--	--	--	.1	--	--	--	--	--	--	--
808	110	July 12, 1965	do.	24	--	91	8	43	--	293	31	43	.9	22	--	560	407	262	27	673	7.4	1.2
61-107	95	July 19, 1965	Kho	20	--	79	5	43	--	254	20	37	.3	22	--	474	345	204	32	578	7.3	1.3
201	61	Jan. 20, 1960	Khe	19	--	134	14	* 86	--	463	36	95	.2	34	--	646	--	392	32	1,070	7.2	1.9
401	89	Jan. 21, 1960	do.	11	2.0	102	42	* 52	--	429	38	100	--	11.0	--	579	--	427	21	1,000	7.5	1.1

See footnotes at end of table.

CUMANCHE COUNTY

Table 5.--Chemical Analyses of Water from Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ABSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
DY-31-61-701	135	July 20, 1965	Ktp	21	--	108	20	41	--	376	24	76	.3	7	--	670	482	351	20	882	7.3	.9
802	160	July 29, 1965	do.	17	--	239	36	95	--	398	47	395	.4	22	--	1,050	--	750	22	1,900	7.2	1.5
Y 41-02-110	106	Dec. 9, 1959	Khe	15	--	118	66	84	--	451	174	126	.6	25	--	864	831	366	24	1,350	7.3	1.5
901	111	Mar. 10, 1969	do.	16	--	87	25	13	--	317	46	26	.4	< 0.4	--	369	--	322	82	620	7.5	.3
03-101	80	Sept. 9, 1968	Ktp	17	--	144	45	69	--	456	118	152	.4	2	--	770	--	550	22	1,290	7.2	1.3
04-302	66	Oct. 23, 1964	do.	--	> .02	194	87	90	--	449	75	423	.3	7	--	1,330	1,100	840	19	2,365	7.6	1.4
303	63	do.	do.	--	> .02	156	77	122	--	466	72	367	.3	9	--	1,270	1,032	710	27	2,200	7.7	2.0
503	125	July 15, 1965	do.	15	--	80	62	54	--	461	66	91	.7	< .4	--	830	596	456	21	1,035	7.4	1.1
701	88	Sept. 9, 1968	Khe	16	--	100	30	30	--	409	29	35	.5	21.5	--	464	--	375	15	775	7.3	.7
05-102	80	Oct. 26, 1964	Ktp	--	.06	324	247	210	--	580	670	830	.6	< .4	--	2,860	2,567	1,830	20	5,330	7.0	2.1
103	93	Oct. 23, 1964	do.	--	.29	80	28	15	--	379	17	19	.4	1.5	--	540	347	316	9	672	7.6	.4
704	84	Oct. 26, 1964	do.	--	> .02	121	77	54	--	436	30	248	.3	11	--	980	755	620	16	1,632	7.3	.9
105	110	Apr. 4, 1961	Khe	--	.14	104	58	64	--	470	62	135	.1	6	--	762	660	500	22	1,270	7.3	1.2
208	124	July 30, 1965	Ktp	18	--	88	59	40	--	417	26	129	.3	3.5	--	780	569	463	16	1,021	7.3	.8
502	140	July 1, 1965	do.	28	--	63	52	79	--	434	30	102	1.1	15	--	580	--	373	32	1,010	7.8	1.8
503	156	July 9, 1965	do.	17	--	197	32	75	--	372	68	279	.7	17	--	1,060	871	620	21	1,540	7.3	1.3
801	85	July 1, 1965	do.	11	--	73	82	108	--	500	111	149	.8	< .4	--	780	--	520	31	1,350	7.8	2.1
Y 901	142	Dec. 8, 1959	do.	24	--	84	28	53	--	378	40	62	--	6	0.06	483	--	324	26	830	6.7	1.3
902	118	July 1, 1965	do.	17	--	60	74	145	--	550	77	138	2.8	21	--	810	--	454	41	1,370	7.9	3
906	122	July 2, 1965	do.	23	--	233	119	169	--	560	238	486	1.2	7	--	1,550	--	1,070	26	2,550	7.3	2.2
501	250	Sept. 9, 1968	Khe	18	--	87	29	19	--	386	41	16	.4	< .4	--	400	--	338	11	665	7.4	.5
06-701	190	June 30, 1965	Khe	14	--	79	25	37	--	353	29	30	0.8	15	--	404	--	302	21	700	7.4	0.9
Y 11-803	100	Jan. 19, 1960	Kp	14	4.9	84	29	23	--	378	35	22	.6	.5	--	394	--	328	13	667	7.3	.6
Y 12-101	123	Sept. 3, 1946	Kgr, Khe	--	--	62	31	13	--	312	4	36	--	.8	--	336	300	282	9	--	--	.3
Y 901	70	Jan. 18, 1960	Khe	20	0.36	126	86	141	--	416	183	225	--	155	--	1,140	--	668	31	1,800	7.1	2.4
13-103	145	July 5, 1965	Khe, Khe	15	--	76	43	43	--	411	62	44	.7	2	--	700	488	368	20	830	7.4	1.0
Y 301	173	Dec. 9, 1966	do.	--	.05	53.7	19	61.9	--	253.8	42.4	67	.5	15	--	513.3	385	212	39	720	7.9	1.8
301	173	Apr. 5, 1967	do.	--	.04	79	11	21	--	245	22	23	.3	41	--	442	317	243	16	600	7.8	.6
301	173	Apr. 17, 1968	do.	--	< .02	67	24	69	--	275	51	86	.5	31	--	600	464	267	36	--	7.8	1.8
Y 14-102	179	Dec. 8, 1959	Kcp	22	--	150	67	154.4	--	432	334	188	--	13	.12	1,180	1,141	296	34	1,760	7.0	2.6
102	179	June 29, 1965	do.	14	--	83	51	83	--	455	109	71	.6	< .4	--	640	--	415	30	1,064	7.5	1.8
105	155	June 30, 1965	do.	24	--	280	132	219	--	462	630	456	.8	< .4	--	1,970	--	1,240	28	2,910	7.1	2.7
106	182	June 23, 1968	Khe	21	--	122	38	114	3	471	110	143	.6	10	.3	790	--	462	35	1,300	7.2	2.3

See footnotes at end of table.

COMANCHE COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER-BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
DY-41-14-303	150	June 29, 1965	Khe	15	--	80	30	34	--	379	34	32	.5	< .4	--	412	--	323	19	713	7.3	.8
303	150	July 23, 1968	do.	--	--	--	--	--	3	--	--	--	--	--	.9	--	--	--	--	--	--	--
701	335	Sept. 10, 1968	do.	17	--	38	27	82	--	359	57	31	.5	< .4	--	430	--	208	46	730	7.7	2.5
21-201	111	Jan. 18, 1960	Kp	14	3.9	100	17	* 16	--	332	57	16	.2	.5	--	394	--	320	10	641	7.0	.4

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

- 1/ U.S. Geological Survey Laboratory
- 2/ Texas A&M University
- 3/ Texas Department of Agriculture
- 4/ Pope Testing Laboratories

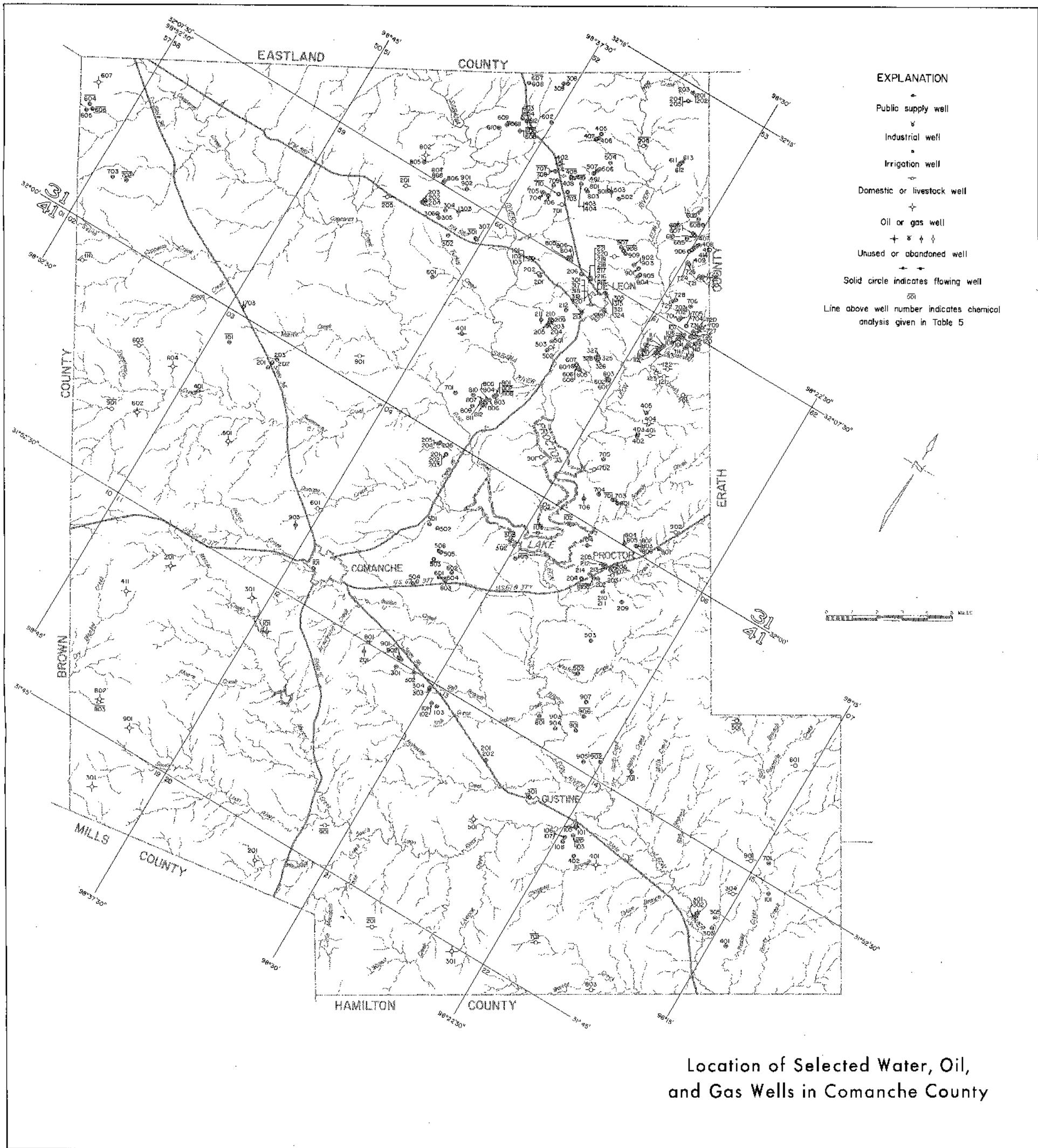
COMANCHE COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
— ^a	—	Smith-Morgan	—	K-6	1,360	313	8,300	83	4	15,300	26,300	7.3

^a Analyses obtained by Texas Water Development Board.



GORYBLI COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Krb, Woodbine Group; Kca, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpc, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; E, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	CASING			WATER MAKING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
				DEPTH OF WELL (ft)	DIAMETER (in.)	DEPTH (ft)			ABOVE (1) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* 11B-40-19-803	Curtis Watson	Clarence Erickson	1965	334	4	334	Kp	1,045	274 278.58	Apr. 14, 1965 Mar. 19, 1969	C, E 1	D, S	Perforated from 307 to 334 ft. Pumping level 294 ft at 10 gpm on Apr. 14, 1965. Pump set at 290 ft. Reported yield 5 gpm. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. <u>1/4</u>
* 901	John A. Kyle	R. A. Adams and Son	1960	792	7 5	20 792	Khe	990	--	--	C, E	D, S	Slotted. Reported yield 20 gpm.
25-401	Joe Faubion	do.	1962	107	7 5	30 107	Kp	1,065	45 56.24	May Mar. 19, 1969	J, E 1/2	D	Pump set at 90 ft. Reported yield 6 gpm. Cemented from 30 ft to surface. Texas Water Development Board observation well. <u>1/4</u>
801	-- Adams	Phillips Petroleum Co.	1957	670	8	634	Khe, Kho	970	--	--	--	Irr	Gun perforated with 16 shots 358 to 374 ft, 13 shots 456 to 466 ft, 18 shots 474 to 489 ft, 21 shots 520 to 540 ft, 16 shots 547 to 560 ft, 10 shots 567 to 577 ft, 20 shots 594 to 616 ft, and 2 shots 624 to 625 ft. Well originally drilled as oil test to 3,550 ft and plugged back to 670 ft. <u>2/</u>
* 902	Lovita Water Supply Corp.	James Mathew Adams	1968	417	7	417	Khe	935	308.10	Dec. 30, 1968	Sub, E	F	Gun perforated from 360 to 385 ft. Well drilled to 588 ft and plugged back to 417 ft. Cemented from 587 ft to surface. <u>1/2</u>
* 26-101	R. A. Adams	R. A. Adams and Son	1953	423	7 6	55 --	do.	950	250 275.10	1960 Mar. 30, 1966	C, E	D, S	Reported yield 18 gpm. <u>1/</u>
* 102	Jonesboro Water Supply Corp.	C. M. Stoner Drilling Co.	1965	622	7	622	Kho	982	335 338.85	Mar. 14, 1965 Mar. 19, 1969	Sub, E 15	F	Gun perforated with 77 shots 574 to 612 ft. Pumping level 365 ft at 74 gpm on Mar. 24, 1965. Pump set at 464 ft. Reported yield 73 gpm. Cemented from 622 ft to surface. Texas Water Development Board observation well. <u>1/2 3/4</u>
401	R. L. Campbell	R. A. Adams and Son	1963	120	6 5	25 120	Kp	970	70 81.20	Mar. 1963 Mar. 19, 1969	Sub, R 1/4	D, S	Perforated from 80 to 90 ft. Bailing level 120 ft at 13 gpm in Mar. 1963. Pump set at 105 ft. Reported yield 5 gpm. Texas Water Development Board observation well. <u>1/4</u>
702	E. E. Vermillion	James Mathew Adams	1965	509	8	509	Ktp	860	--	--	T, G 60	Irr	Slotted from 300 to 509 ft. Pumping level 300 ft at 550 gpm on Sept. 13, 1965. Pump set at 411 ft. Well was acidized. <u>1/</u>
* 801	Paul Hinson	--	1959	200	5	--	Kp, Kgr	957	--	--	C, E	D, S	Slotted.
* 27-102	Turnersville Water Supply Corp.	J. L. Myers Sons	1963	1,003	10 7	10 946	Khe, Kho	1,085	460 490.0	Nov. 2, 1963 Mar. 19, 1969	Sub, R 10	F	Perforated from 900 to 946 ft. Gun perforated with 10 shots 750 to 760 ft, 10 shots 770 to 780 ft, 10 shots 832 to 842 ft, 10 shots 882 to 892 ft, and 10 shots 912 to 922 ft. Pumping level 500 ft at 107 gpm in Nov. 1963. Pump set at 575 ft. <u>1/2</u>

See footnotes at end of table.

CORYELL COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
HB-40-27-401	A. L. Carroll	Don Adams	1945	217	5	217	Kp	990	60 90.40	Jan. 3, 1961	C, W	D, S	Pump set at 200 ft.
* 28-402	Joe Tubbs	Frank Baker Place	1964	470	6 5	35 398	do.	990	200 245.0	Apr. 6, 1964 Sept. 19, 1968	Sub, K 3/4	D	Open hole completion from 35 to 110 ft and slotted from 380 to 390 ft. Temp. 70°F. Texas Water Development Board observation well. <u>1/4</u>
34-601	Coryell County	--	--	675	--	--	Ktp	805	130	July 1937	N	N	Well abandoned.
604	Curtis Davis	Garland Engineers	1964	524	5	480	Kie	885	265 327.82 327.10	Mar. 29, 1964 May 6, 1968 Mar. 21, 1969	Sub, E 5	F	Open hole completion from 480 to 532 ft. Pumping level 400 ft at 22 gpm on Mar. 24, 1964. Pump set at 485 ft. Cemented from 480 ft to surface.
* 35-101	Gatesville State School for Boys	--	1922	728	8	--	Kcp	890	178	Sept. 1928	N	N	Reported yield 125 gpm in 1942. Well plugged and abandoned.
102	do.	--	--	749	6	--	do.	890	180	Nov. 14, 1939	N	N	Reported yield 100 gpm in 1942. Well plugged and abandoned.
* 103	do.	Kenton Preston	1946	771	10 6	575 771	Khe, Kho	890	290 387	July 8, 1952 Mar. 18, 1969	T, E 20	F	Perforated from 575 to 590, 598 to 611, 635 to 659, and 705 to 770 ft. Pumping level 302 ft at 40 gpm on July 8, 1952. Reported yield 350 gpm. Cemented from 575 ft to surface. Texas Water Development Board observation well. <u>1/4</u>
* 104	do.	Layne Texas Co.	1949	762	10 8	562 762	do.	890	290	1949	T, E 30	F	Screened from 584 to 609, 638 to 658, and 710 to 760 ft. Reported yield 257 gpm. <u>1/4</u>
* 107	Mountsview State School for Boys	J. L. Myers Sons	1961	898	18 13 8	13.8 790 --	Kho	961	419	Feb. 10, 1961	T, E 50	F	Screened from 790 to 882 ft. Reported yield 250 gpm. Cemented from 790 ft to surface. <u>1/2</u>
* 401	City of Gatesville	--	--	680	10 8	100 --	Ktp	755	+ 82 130 130 110 138 292 290	1898 1933 July 1934 July 1937 Oct. 1939 June 1946 July 1955 July 1959	T, E 20	F	Reported yield 380 gpm.
* 402	do.	--	--	680	8	768	do.	755	110 138 298 257.75 295.0	Nov. 6, 1939 June 4, 1946 Oct. 2, 1964 Apr. 5, 1966 Aug. 25, 1966	T, E 60	F	Pumping level 420 ft at 150 gpm on Oct. 2, 1964. Pump set at 430 ft.
* 403	do.	Kenton Preston	1949	828	12 10	700 828	Kho	825	298 338.60	Oct. 2, 1964 Mar. 15, 1968	Sub, E 100	F	Screened from 702 to 802 ft. Pumping level 420 ft at 550 gpm on Oct. 2, 1964. Pump set at 508 ft. Reported yield 500 gpm. Cemented from 700 ft to surface. Texas Water Development Board observation well. <u>1/4</u>
* 404	do.	Layne Texas Co.	1955	755	16 12 10	73 694 755	do.	823	292 345.93	July 18, 1955 Mar. 16, 1967	T, E	F	Screened from 695 to 739 ft. Pumping level 368 ft at 285 gpm on July 21, 1955. Pump set at 512 ft. <u>1/2</u>
* 405	do.	R. A. Adams and Son	1933	700	8 6	20 565	Ktp	785	130	July 1934	T, E 25	F	Slotted from 425 to 565 ft. Open hole from 565 to 700 ft. Pump set at 360 ft. Reported yield 225 gpm. <u>1/2</u>
* 407	do.	--	--	700	8	300	do.	825	--	--	N	N	Reported yield 300 gpm in 1940. Well plugged and abandoned.

See footnotes at end of table.

CORYELL COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft.)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft.)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft.)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft.)	DATE OF MEASUREMENT			
HB-40-35-409	City of Gatasville	Layne Texas Co.	1968	916	12 10	770 895	Kho	900	449	Mar. 11, 1968	T, E 200	P	Screened from 785 to 875 ft. Pumping level 588 ft at 818 gpm on Mar. 11, 1968. Pump set at 700 ft. Reported yield 800 gpm. Gravel packed. <u>1/2/</u>
501	Mountain Water Supply Corp.	Jones Drilling Co. and James Mathew Adams	1966	1,045	--	--	do.	1,025	527	Jan. 1967	--	P	<u>2/</u>
* 701	Fort Gates Water Supply Corp.	J. E. Farquharson	1964	821	10 7	10 821	do.	840	390 371.88	July 21, 1964 Mar. 19, 1969	Sub, E	P	Gun perforated from 700 to 750, 757 to 776, and 786 to 796 ft. Pump set at 504 ft. Reported yield 145 gpm. Cemented from 821 ft to surface. Texas Water Development Board observation well. <u>1/2/4/</u>
* 801	U.S. Army	Layne Texas Co.	1943	755	10 8	522 755	Khe, Kho	731	149	June 1943	T, E 40	P	Perforated from 516 to 545 and 679 to 744 ft. Pumping level 298 ft at 227 gpm in June 1943. Pump set at 420 ft. Reported yield 300 gpm. Cemented from 522 ft to surface. <u>1/</u>
* 802	do.	do.	1943	690	16 10 8	27 454 690	do.	730	63	Jan. 14, 1943	T, E	P	Perforated from 478 to 544 and 632 to 678 ft. Pumping level 272 ft at 242 gpm in Oct. 1946. Reported yield 300 gpm. Cemented from 483 ft to surface. <u>1/</u>
* 803	do.	do.	1943	721	10 8	496 721	do.	740	85 183	Feb. 12, 1943 Oct. 1946	T, E 40	P	Perforated from 492 to 516 and 663 to 710 ft. Pumping level 292 ft at 285 gpm in Oct. 1946. Reported yield 300 gpm. Cemented from 496 ft to surface. <u>1/</u>
* 804	Jack Fry	do.	1943	745	10 8	504 745	do.	750	101 271.04	Jan. 10, 1943 Mar. 19, 1969	Sub, E	D, S	Perforated from 492 to 534 and 671 to 737 ft. Reported yield 300 gpm. Texas Water Development Board observation well. <u>1/4/</u>
* 805	U.S. Army	do.	1943	759	10 8	538 759	do.	782	132	Feb. 1943	N	N	Perforated from 537 to 554 and 699 to 748 ft. Pumping level 318 ft at 293 gpm in Feb. 1943. Reported yield 292 gpm. Well abandoned. <u>1/</u>
* 36-601	F. R. Law	-- Cluck	1934	1,170	8 6	125 1,170	Ktp	850	326 300 349.5 356.0	Apr. 1956 Nov. 6, 1964 Feb. 17, 1965 Mar. 30, 1966	Sub, E 15	P	Pump set at 600 ft. Estimated yield 70 gpm.
* 602	Oglesby Water Supply Corp.	Key Water Well Drilling-Development Co.	1967	1,220	7	1,100	Kpe, Kho	845	747.3	Feb. 3, 1969	Sub, E 40	P	Slotted from 995 to 1,100 ft. Pumping level 860 ft at 120 gpm on Jan. 31, 1968. Pump set at 958 ft. Cemented from 1,000 ft to surface. <u>1/2/</u>
* 41-201	John Murphy	Fowler Drilling Co.	1964	455	6	357	Khe, Kpe	1,025	170 207.02 205.20	Mar. 31, 1964 Oct. 8, 1968 Mar. 21, 1969	Sub, E 1	S	Open hole completion from 357 to 455 ft. Pump set at 346 ft. Reported yield 10 gpm. Temp. 71°F.
601	Johnny Woodlief	J. B. Farquharson	1963	613	5 --	800 580	Ktp	970	170 207.30	June 1963 Mar. 18, 1969	Sub, E 2	D, S	Pumping level 380 ft at 15 gpm in June 1963. Texas Water Development Board observation well. <u>1/4/</u>
702	M. C. Storm and Joe Perkins	do.	1963	364	6	37	Kgr, Khe	1,080	250 187.8	Aug. 1963 Mar. 18, 1969	Sub, E	D	Open hole completion from 37 to 364 ft. Reported yield 12 gpm. Texas Water Development Board observation well. <u>1/4/</u>
* 901	Ernest Pendleton	Fowler Drilling Co.	1967	271	5	36	do.	825	48.30 48.80	Oct. 7, 1968 Mar. 18, 1969	Sub, E 1/2	D	Open hole completion from 36 to 271 ft. Pump set at 210 ft. Reported yield 12 gpm. Temp. 70°F. <u>1/</u>
* 43-201	U.S. Army	Layne Texas Co.	1942	765	10 8	505 760	Khe, Kho	765	97	Sept. 1946	T, E 40	P	Perforated from 505 to 555 and 697 to 747 ft. Pumping level 110 ft at 225 gpm in Sept. 1946. Reported yield 300 gpm. Cemented from 505 ft to surface. <u>1/</u>

See footnotes at end of table.

CORYELL COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* NB-40-43-202	U.S. Army	Layne Texas Co.	1943	772	10 8	517 771	Khe, Kho	782	128	Feb. 2, 1943	N	N	Perforated from 531 to 599 and 726 to 760 ft. Pumping level 222 ft at 302 gpm on Feb. 2, 1943. Reported yield 300 gpm. Cemented from 517 ft to surface. Abandoned. <u>1</u> <u>3</u>
* 203	do.	do.	1943	795	10 8	581 782	do.	780	150	Feb. 22, 1943	N	N	Perforated from 572 to 639 and 760 to 782 ft. Reported yield 300 gpm in 1943. Cemented from 581 ft to surface. Well plugged and abandoned. <u>1</u>
* 204	do.	do.	1943	758	10 8	533 758	do.	738	190	May 1943	T, E 40	P	Perforated from 533 to 550, 583 to 600, 684 to 715, and 725 to 746 ft. Pumping level 249 ft at 218 gpm in May 1943. Pump set at 400 ft. Reported yield 200 gpm. Cemented from 533 ft to surface. <u>1</u>
* 205	do.	do.	1943	755	10 8	517 755	do.	720	123	June 1943	T, E 40	P	Perforated from 518 to 550 and 681 to 745 ft. Pumping level 254 ft at 240 gpm in June 1943. Pump set at 400 ft. Reported yield 300 gpm. Cemented from 517 ft to surface. <u>1</u>
* 206	do.	do.	1942	735	10 8	505 731	do.	750	140 109	Dec. 26, 1942 Mar. 1943	T, E 40	P	Perforated from 496 to 563 and 651 to 718 ft. Pumping level 209 ft at 302 gpm in Mar. 1943. Pump set at 450 ft. Reported yield 300 gpm. Cemented from 505 ft to surface. <u>1</u> <u>3</u>
* 207	do.	do.	1943	745	10 8	518 745	do.	727	86	Feb. 26, 1943	T, E 40	P	Perforated from 517 to 561 and 667 to 733 ft. Pump set at 450 ft. Reported yield 300 gpm. Cemented from 518 ft to surface. <u>1</u>
* 603	Flat Water Supply Corp.	Hervey Meadows and Son Well Driller	1965	993	7	990	Kho	870	390 403.14	July 31, 1965 Mar. 19, 1969	Sub, E 15	P	Perforated from 900 to 990 ft. Pump set at 500 ft. Reported yield 80 gpm. Texas Water Development Board observation well. <u>1</u> <u>2</u> <u>4</u>
* 44-501	Lonnie Donaldson	Allens Drilling Co.	1960	900	4	865	Kgr, Khe	885	300	1960	C, E	S	--
* 502	Temco Feed Mills	R. A. Adams and Son	--	905	4	868	Khe	845	--	--	--	D, S	Reported yield 25 gpm. <u>1</u>
* 801	Trurman Bird	Jesse Bunden	1949	900	5	885	Kgr, Khe	862	189	1960	C, E	D, S	Open hole completion from 885 to 900 ft.
* 901	G. E. Wolfe	--	--	990	6	990	Kgr, Khe	780	24 220.15	1890 Mar. 15, 1968	C, E 3	N	Pump set at 270 ft. Texas Water Development Board observation well. <u>1</u>
* 902	The Grove Water Supply Corp.	Hervey Meadows and Son Well Driller	1968	1,126	7	1,126	Kho	800	172 343.30	Oct. 22, 1968 May 9, 1969	Sub, H 15	P	Slotted from 1,015 to 1,125 ft. Pumping level 412 ft at 65 gpm on Oct. 23, 1968. Pump set at 550 ft. Reported yield 170 gpm. <u>2</u>
* 45-401	Texas Parks and Wildlife Department	--	--	975	--	--	Kgr, Khe	712	93 230.75	Feb. 26, 1942 Mar. 10, 1966	C, E	N	Reported yield 20 gpm. <u>2</u>
* 402	do.	Watts Drilling Co.	1966	1,030	4	975	Khe	678	201.23 259.73	July 15, 1966 Mar. 20, 1969	Sub, E 2	P	Reported yield 16 gpm. Texas Water Development Board observation well. <u>1</u>
* 49-403	G. H. Cassena	Fowler Drilling Co.	1967	496	5	489	Khe, Kpe	1,105	270 261.50	Sept. 9, 1967 Oct. 8, 1968	Sub, E 1-1/2	D, S	Perforated from 335 to 355 and 450 to 460 ft. Pumping level 340 ft at 17 gpm on Sept. 9, 1967. Pump set at 399 ft. Temp. 72°F. <u>1</u>
* 57-301	City of Copperas Cove	--	1925	657	6	400	Ktp	1,095	140	June 3, 1946	N	N	Abandoned.
* 302	do.	Layne Texas Co.	1944	646	12 8	441 643	do.	1,105	140 300	June 3, 1946 June 3, 1961	N	N	Slotted from 442 to 465 and 475 to 643 ft. Pumping level 493 ft at 51 gpm on Aug. 3, 1944. Reported yield 50 gpm. Well plugged and abandoned. <u>1</u>

See footnotes at end of table.

CORYELL COUNTY

Table 1. -- Records of Selected Water 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
					DJAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* HB-40-57-303	Sam Millsap	J. L. Myers Sons	1951	573	5	573	Ktp	1,080	410 310.42	Apr. 10, 1951 Mar. 18, 1969	C, E	D	Perforated from 468 to 573 ft. Reported yield 10 gpm. Texas Water Development Board observation well. <u>1</u> <u>4</u>
* 304	City of Copperas Cove	do.	1953	525	6	525	Khe, Kpe	1,080	286	Feb. 3, 1961	N	N	Well plugged and abandoned.
* 305	Willie Groth	Smart Drilling and Supply	1962	570	5	250	Kgr, Ktp	1,100	270	Feb. 2, 1962	Sub, E 1-1/2	D	Open hole completion from 250 to 570 ft. Pumping level 430 ft at 8 gpm on Feb. 2, 1962. Pump set at 475 ft. Temp. 72°F. <u>1</u>
* 41-39-301	L. S. Passmore	J. R. -Rob -Johnson Drilling and Supply	1936	522	6	522	Kho	1,250	360	1961	T, E 5	P	Slotted from 480 to 522 ft. Reported yield 12 gpm. Well supplied Evans, Texas.
* 302	do.	Edwin Dyson	1944	450	6	200	Ktp	1,255	350 299.5	1961 Mar. 30, 1966	Sub, E	P	Pump set at 425 ft. Reported yield 20 gpm. Well supplies Evans, Texas.
303	do.	J. L. Myers Sons	1951	486	8 7	368 486	do.	1,250	337.0 336.0	Apr. 11, 1967 Mar. 19, 1969	Sub, E 7-1/2	P	Slotted from 426 to 444 and 455 to 478 ft. Reported yield 40 gpm. Well drilled to 532 ft and plugged back to 486 ft. Texas Water Development Board observation well. Well supplies Evans, Texas. <u>1</u> <u>4</u>
* 304	J. Y. Hamilton	James Mathew Adams	1964	535	5	400	Ktp	1,245	325.60 324.07	Aug. 26, 1966 Mar. 19, 1969	Sub, E 3	D, P	Open hole completion from 400 to 535 ft. Pump set at 380 ft. Reported yield 20 gpm. Cemented from 400 ft to surface. Temp. 74°F. Texas Water Development Board observation well. <u>4</u>
40-202	Floyd Elam	Tatum Drilling Co.	1964	95	5	95	Kp	1,105	40 37.60	Jan. 15, 1964 Jan. 3, 1969	C, E 1	D	Perforated from 45 to 65 and 85 to 95 ft. Pump set at 84 ft. Reported yield 5 gpm. Cemented from 19 ft to surface. <u>1</u>
601	Grady Keeton	James Mathew Adams	1959	581	--	--	Ktp	1,145	--	--	C, E	D, S	--
* 803	Mary Caddel	Jim Smith	1964	372	6 5	320 372	Khe	1,170	117.35 188.42	Apr. 8, 1966 Mar. 17, 1969	Sub, E	D, S	Completed from 350 to 372 ft. Reported yield 15 gpm. Temp. 73°F. Texas Water Development Board observation well. <u>4</u>
901	Harry King	Edwin Dyson	1934	440	6 5	200 440	Kgr, Khe	1,190	157.61 159.60	Apr. 8, 1966 Mar. 12, 1968	C, W	N	Open hole from 200 to 380 ft.
902	R. A. Manning	do.	1958	570	7 5 4	165 424 570	Ktp	1,225	184.55	Apr. 8, 1966	C, W	D, S	Open hole from 165 to 370 ft. <u>1</u>
903	Bertis Ballard	Allens Drilling Co.	1969	440	5	420	Khe	1,170	255.05	Jan. 21, 1969	Sub, E 1	D, S	Open hole completion from 420 to 440 ft. Pump set at 378 ft.
48-101	Mrs. J. H. Conner, Sr.	C. W. Lovell	1947	455	--	--	Kgr, Khe	1,295	69.65 145.4	Apr. 8, 1966 Mar. 18, 1969	C, W	S	Texas Water Development Board observation well. <u>4</u>
102	Gerald Cummings	Fowler Drilling Co.	1965	670	5	570	Khe	1,450	350	Dec. 14, 1965	--	S	Open hole completion from 570 to 670 ft. Well filled with gravel from 570 to 670 ft. <u>1</u>

* For chemical analysis of water, see Table 5.

1 For drillers' log of well, see Table 3.

2 Electric logs in files of the Texas Water Development Board, Austin, Texas.

3 For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.

4 For water-level measurements, see Table 4.

CORYELL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
HB-40-25-501	Amerada Petroleum Corp.	N. F. Tate No. 1	1949	4,868	976	E
27-801	Gulf Oil Corp.	V. L. Turner No. 1	1965	6,010	1,062	R
28-403	Shell Oil Co.	Rabbe No. 1	1965	970	970	E
41-501	do.	Saunders No. 1	1965	490	965	E
801	Smith and Leonard	W. D. Bowlin No. 2	1965	3,493	831	E
45-201	General Crude Oil Co.	Ernest Day No. 1	1957	3,035	720	E
49-201	Gulf Oil Corp.	Virgil Lockhart, et al. No. 1	—	—	940	D
801	—	J. K. Summers No. 1	1962	1,550	1,040	R
51-501	N. A. Schwald, Sugarloaf Mountain Oil Co.	Thomas Young No. 1	1920	2,895	845	D
41-39-602	Shell Development Co.	Leslie Sheldon No. 1	—	150	1,310	S

CORYELL COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-19-803			Well HB-40-25-902—Continued		
Owner: Curtis Watson Driller: Clarence Erickson			Red bed with green shale	37	482
Large hitch rocks	6	6	No record	106	588
Clay	2	8	Well HB-40-26-101		
Hard blue rock	72	80	Owner: R. A. Adams Driller: R. A. Adams and Son		
White crystal-like lime	80	160	No record	37	37
White lime	90	250	Glen Rose lime	303	340
Hard blue rock	30	280	Trinity sand and shale	83	423
Shell rock and layers shale	15	295	Well HB-40-26-102		
Green gum	11	306	Owner: Jonesboro Water Supply Corp. Driller: C. M. Stoner Drilling Co.		
Paluxy sand and water	22	328	Soil	1	1
Black gum	2	330	Rock and clay	9	10
Hard lime	4	334	Clay	10	20
Well HB-40-25-401			Rock	20	40
Owner: Joe Faubion Driller: R. A. Adams and Son			Sand	5	45
Surface soil	2	2	Rock	315	360
Yellow clay	20	22	Sandy shale and lime	45	405
Shale and lime	8	30	Sand	15	420
Sand and water	20	50	Sandy shale and lime	20	440
Glen Rose lime	57	107	Broken sand and sandy shale	70	510
Well HB-40-25-902			Sand	10	520
Owner: Levita Water Supply Corp. Driller: James Mathew Adams			Hard red sand rock	20	540
Sand - clay	20	20	Red bed	25	365
Lime	176	196	Green sand shale	5	570
Shale breaks	12	208	Sand	42	612
Coarse lime sand - water	74	282	Gravel	6	618
Shale	13	295	Yellow shale	4	622
Lime and shale (green)	65	360	Well HB-40-26-401		
Brown lime	20	380	Owner: R. L. Campbell Driller: R. A. Adams and Son		
White lime	15	395	Surface soil and yellow clay	12	12
Red bed - green shale	40	435	Blue lime	28	40
White sand	10	445			

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-26-401—Continued			Well HB-40-27-102—Continued		
Black shale	2	42	Lime	18	351
Lime	23	65	Blue lime	248	599
Sand	3	68	Shale	69	668
Sand - little water	7	75	Sand	2	670
Water and sand	10	85	Lime	59	729
Water and sand	5	90	Sand	28	757
Glen Rose lime	30	120	Sandy shale	5	762
			Sand	12	774
			Sandy shale	9	783
			Sand	10	793
			Red bed	79	872
			Shale (broken sand)	40	912
			Sand	28	940
			Shale	63	1,003
Well HB-40-26-702			Well HB-40-28-402		
Owner: E. E. Vermillion Driller: James Mathew Adams			Owner: Joe Tubbs Driller: Frank Baker Place		
No record	6	6	No record	110	110
Glen Rose lime	239	245	Broken white lime and blue shale	195	305
Gray shale	14	259	White lime	25	330
Glen Rose lime	39	298	Blue shale and soapstone	50	380
Trinity sand	2	300	Paluxy sand	10	390
Brown lime	25	325	Black shale	2	392
Red bed - green shale	19	344	White lime	18	410
Hard white sand	23	367			
Red bed - green shale	9	376			
Second Trinity sand - gravel	23	399			
Red bed - green shale	7	406			
Hard gray sand	10	416			
Red bed green shale	13	429			
Gray sand - coarse	19	448			
Red bed	22	470			
Brown sand	15	485			
Yellow lime	3	488	Sandy soil	5	5
Small gravel sand	6	494	Gravel	10	15
Yellow lime	15	509	Yellow clay	5	20
			Blue shale	20	40
			Gray shale	40	80
			Blue shale	40	120
			Gray shale	15	135
			Austin chalk	123	258
			Blue shale	2	260
Well HB-40-27-102					
Owner: Turnersville Water Supply Corp. Driller: J. L. Myers Sons					
Soil	1	1			
Blue limestone	303	304			
Sand	29	333			

Table 3.—Drillers' Logs of Selected Wells in Coryell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-103—Continued			Well HB-40-35-104—Continued		
Austin chalk	250	510	Lime, hard shells	20	490
Hard sandy shale	10	520	Harder lime	7	497
Blue shale	10	530	Broken lime, hard shells	23	520
Austin chalk	55	575	Broken lime	39	559
Sand - 4 f.w.	15	590	Green shale	3	562
Shale	8	598	Sand (water)	5	567
Sand	13	611	Hard sandy lime	4	571
Shale	9	620	Gray shale	9	580
Red bed	4	624	Water sand	27	607
Gray shale	3	627	Hard sandstone	3	610
Red bed	8	635	Gray shale	1	611
Sand shale black	24	659	Shale	3	614
Gray shale	7	666	Red bed	23	637
Red bed	39	705	Water sand	13	650
Sand and gravel	65	770	Broken sand	10	660
Shale	1	771	Red bed	40	700
Well HB-40-35-104			Water sand	45	745
Owner: Gatesville State School for Boys			Gravel and sand	17	762
Driller: Layne Texas Co.			Well HB-40-35-107		
Shell, gravel, and clay	20	20	Owner: Mountainview State School for Boys		
Hard gray shale	8	28	Driller: J. L. Myers Sons		
Gray shale	12	40	Lime	230	230
Broken lime soft	53	93	Broken lime	410	640
Shale	2	95	Shale	25	665
Lime	10	105	Sand and shale	25	690
Soft broken lime	17	122	Broken sand and shale	78	768
Lime	13	135	Shale	20	788
Soft broken lime	60	195	Broken sand and shale	92	880
Soft broken lime	5	200	Shale	18	898
Soft lime and shale	50	250	Well HB-40-35-403		
Broken lime and shale	50	300	Owner: City of Gatesville		
Broken lime	55	355	Driller: Kenton Preston		
Broken lime and shale	45	400	Soil	5	5
Broken lime and hard shells	35	435	Caliche	15	20
Broken lime and shale	35	470	Blue shale	40	60
			Sand (dry)	10	70

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-403—Continued			Well HB-40-35-404—Continued		
Lime (chalky)	430	500	Sand	15	710
Sand, 10 bph	15	515	Sand, gravel, and shale	20	730
Shale (green)	10	525	Hard sand and gravel	5	735
Red bed	125	650	Yellow clay	7	742
Red bed (broken)	20	670	Blue shale	13	755
Red bed (sandy)	20	690			
Red sand	5	695	Well HB-40-35-405		
Sand (water)	10	705	Owner: City of Gatesville Driller: R. A. Adams and Son		
Sand and gravel - water	97	802	Solid clay sand	12	12
Yellow clay - sandy	13	815	Gray lime	348	360
Yellow clay	13	828	Sandy lime	20	380
			Gray lime	5	385
Well HB-40-35-404			Shale	5	390
Owner: City of Gatesville Driller: Layne Texas Co.			Sandy lime	33	423
Surface soil	2	2	Sand	14	437
Gravel	2	4	Sandy shale	10	447
Yellow clay and caliche	16	20	Water sand	19	466
Blue shale	25	45	Sandy shale	4	470
Lime	5	50	Red bed (sand and gravel)	70	540
Sand (water)	6	56	Water sand	10	550
Blue shale	2	58	Pink shale	33	583
Sand	12	70	Water sand	8	591
Lime	5	75	Sandy shale	39	630
Lime (white)	115	190	Water sand	23	653
Sand	20	210	Red bed	17	670
Lime (white)	40	250	Shale	30	700
Gray shale	100	350			
Lime and shale	110	460	Well HB-40-35-409		
Shale and sandy lime	33	493	Owner: City of Gatesville Driller: Layne Texas Co.		
Sand (water)	32	525	Rocky lime	20	20
Red bed	85	610	Blue gray shale	169	189
Red shale	20	630	Sandy shale	4	193
Red bed	34	664	Lime and rock	172	365
Gray sand	11	675	Brown shale and lime	116	481
Gray sand and lime	10	685	Hard shale	40	521
Sand and gravel	10	695	Broken shale	15	536

Table 3.—Drillers' Logs of Selected Wells in Coryell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-409--Continued			Well HB-40-35-701--Continued		
Hard shale and lime	75	611	Sand	5	623
Broken shale	5	616	Red bed	11	634
Hard shale and lime	14	630	Sand	5	639
Sand and lime	39	669	Red bed	19	658
Lime layers - sand and gravel	33	702	Sand	8	666
Hard shale	8	710	Red bed	31	697
Red sandy clay and shale	11	721	Sand	21	718
Hard shale	2	723	Red bed	3	721
Red sandy clay and lime	50	773	Sand	8	729
Hard sandy lime	22	795	Red bed	3	732
Lime	5	800	Sand	20	752
Hard sandy shale	4	804	Red bed	4	756
Hard shale	2	806	Sand	22	778
Sand, shale layers - gravel	45	851	Red bed	7	785
Hard lime	4	855	Sand	15	800
Hard sand and gravel	14	869	Blue black shale	21	821
Hard shale, breaks, sandy shale	47	916			
Well HB-40-35-701			Well HB-40-35-801		
Owner: Fort Gates Water Supply Corp. Driller: J. B. Farquharson			Owner: U.S. Army Driller: Layne Texas Co.		
Yellow clay	18	18	Surface sand	2	2
Blue shale	20	38	Sandy red clay	6	8
Chalky lime with blue shale streaks	7	45	Quicksand	10	18
Shale with lime streaks	37	82	Yellow sand and clay	2	20
Blue shale with sand and lime streaks	38	120	Clay and gravel	20	40
Chalky lime with shale, bentonite, and sand streaks	324	444	Clay and gravel	15	55
Chalky lime	113	557	Shale	3	58
Blue gumbo shale	13	570	Blue shale	2	60
Sand	18	588	Gray lime	65	125
Red bed	2	590	Lime and shale	85	210
Sand	20	610	Lime and shale	85	295
Red bed	8	618	Lime and shale	65	360
			Lime and shale	50	410
			Lime and shale	55	465
			Lime and shale	25	490
			Shells and lime	10	500
			Lime	5	505
			Lime	10	515
			Shell	5	520

Table 3.—Drillers' Logs of Selected Wells in Coryell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-801--Continued			Well HB-40-35-802--Continued		
Lime and shale (top of first Trinity sand)	2	522	Soft water sand (bottom of first Trinity sand)	57	540
Sand	13	535	Red bed	45	585
Sandy lime	15	550	Red bed	60	645
Shale	20	570	Water sand	17	662
Red bed	40	610	Hard broken lime	5	667
Red bed	50	660	Gravel and sand (bottom second Trinity sand)	13	680
Red bed	20	680	Red bed	10	690
Red bed (top second Trinity sand)	5	685			
Sand	30	715			
Sand	25	740			
Broken sand	5	745			
Dark shale	10	755			
Well HB-40-35-802			Well HB-40-35-803		
Owner: U.S. Army Driller: Layne Texas Co.			Owner: U.S. Army Driller: Layne Texas Co.		
Surface soil	15	15	Surface soil	1	1
Gravel and water sand	12	27	Red clay	7	8
Lime	3	30	Sand and gravel	17	25
Sand (dry)	25	55	Sand and gravel	25	50
Broken lime and shale	40	95	Lime and shale	65	115
White lime	35	130	Lime and shale	40	155
Shale	35	165	Lime and shale	105	260
Lime	40	205	Lime and shale	50	310
Gray shale and shells	20	225	Lime and shale	40	350
Broken lime	45	270	Lime and shale	55	405
White lime	45	315	Lime and shale	40	445
Gray shale	40	355	Lime and shale	40	485
Broken lime	10	365	Sandy shale	9	494
Lime	40	405	Sandy shale (top first Trinity sand)	2	496
Shale	10	415	Sand	5	501
Gray shale and shells	40	455	Sand	6	507
Gray shale (top of first Trinity sand)	28	483	Sand (bottom first Trinity sand)	10	517
			Sandy shale	13	530
			Red bed	5	535
			Red bed	20	555
			Red rock and shale	20	575
			Red rock and shale	22	597
			Red rock and shale	13	610
			Red rock and shale	25	635

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-803—Continued			Well HB-40-35-805—Continued		
Sand, shale (top second Trinity sand)	30	665	Gray lime and shell	85	125
Sand (bottom second Trinity sand)	45	710	Lime and shale	395	520
Dark shale	11	721	Sandy lime	7	527
			Sandy shale (top first Trinity sand)	11	538
Well HB-40-35-804			Sand	2	540
Owner: Jack Fry Driller: Layne Texas Co.			Sand (bottom first Trinity sand)	7	547
Surface soil	4	4	Lime	4	551
Yellow clay and gravel	6	10	Red rock	5	556
Yellow clay	10	20	Red bed	119	675
Blue rock	11	31	Hard, sandy shale (top second Trinity sand)	25	700
Lime and shale	88	119	Sand	48	748
Broken lime and shale	31	150	Shale	11	759
Glen Rose sand lime	36	186	Well HB-40-36-602		
Lime and shale	297	483	Owner: Oglesby Water Supply Corp. Driller: Key Water Well Drilling-Development Co.		
Sandy lime	15	498	Lime	424	424
Shale (top first Trinity sand)	6	504	Sandy lime	314	738
Sand	31	535	Sand	382	1,120
Sand and shale (bottom first Trinity sand)	8	543	Hard lime	100	1,220
Red bed	80	623	Well HB-40-41-601		
Sand	17	640	Owner: Johnny Woodlief Driller: J. B. Farquharson		
Red bed	20	660	Yellow clay	25	25
Sandy shale (top second Trinity sand)	20	680	Sandy shale and shale streaks	45	70
Sand (bottom Trinity sand)	51	731	Sandy lime	3	73
Broken shale	4	735	Chalky lime with shale streaks	37	110
Dark shale	10	745	Chalky lime	85	195
			Black shale	1	196
Well HB-40-35-805			Chalky lime with very few shale stringers	198	394
Owner: U.S. Army Driller: Layne Texas Co.			Blue shale	4	398
Surface soil (black)	5	5	Chalky lime	4	402
Yellow clay	10	15	Good water sand	14	416
Yellow clay and gravel	10	25	Hard lime and flint rock	27	443
Blue shale and shells	15	40			

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-41-601—Continued			Well HB-40-43-201		
Chalky lime	17	460			
Blue shale with lime streaks	22	482			
Red bed	84	566	Yellow clay and rock	60	60
Water sand	14	480	Gray lime and shell	266	326
Red bed	20	600	Hard gray lime	34	360
Blue shale	4	604	Gray lime	65	425
Lime	9	613	Gray lime and breaks of shale	45	470
			Sandy lime (top of first Trinity sand)	35	505
Well HB-40-41-702					
Owner: N. C. Storm and Joe Perkins Driller: J. B. Farquharson			Sand	3	508
Black dirt	2	2	Sand	30	538
Yellow clay	6	8	Sand (bottom of first Trinity sand)	14	552
Hard lime	6	14	Shale	13	565
Chalky lime	11	25	Red rock	10	575
Austin chalk	33	58	Shale	25	600
Sand	4	62	Shale	5	605
Austin chalk	168	230	Sand	5	610
Sand	6	236	Red bed	30	640
Austin chalk	102	338	Blue shale	25	665
Trinity sand	14	352	Red rock	5	670
Lime	6	358	Hard shale	5	675
Red bed	6	364	Red rock (top of second Trinity sand)	18	693
			Sand	8	701
Well HB-40-41-903			Gravel sand	30	731
Owner: Ernest Pendleton Driller: Fowler Drilling Co.			Shale and broken sand	4	735
Yellow clay	15	15	Sand (bottom of second Trinity sand)	13	748
White rock	20	35	Blue shale	9	757
Gray limestone	40	75	Dark shale	3	760
Gray mud	15	90	Dark shale	5	765
Gray limestone	125	215			
Gray mud	7	222			
Gray limestone	33	255			
Hard, brown rock	5	260			
Sand	11	271			
			Well HB-40-43-202		
			Owner: U.S. Army Driller: Layne Texas Co.		
			Yellow clay	14	14
			Hard lime	35	49

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-202—Continued			Well HB-40-43-202—Continued		
Blue shale	27	76	Water sand and gravel (second Trinity sand)	34	762
Lime	64	140	Red bed	10	772
Broken lime	30	170			
Shale and lime shells	20	190			
Broken sand and shale	8	198			
Sand and shells	17	215	Yellow shale	20	20
Broken lime	45	260	Blue shale	53	73
White lime	15	275	Lime	4	77
Broken lime	45	320	Blue shale	13	90
Blue shale	15	335	Broken lime	15	105
Broken lime and shale	30	365	Blue shale	10	115
Lime	31	396	Lime	54	169
Shale	4	400	Lime and shale	13	182
Lime	25	425	Lime	6	188
Sandy shale and shells	30	455	Broken lime	42	230
Blue shale	5	460	Hard lime	30	260
Broken lime	20	480	Broken lime	21	281
Shale	10	490	Lime and shale	29	310
Lime	25	515	Lime	139	449
Broken lime	10	525	Hard lime	28	477
Shale and lime	23	548	Lime	17	494
Blue shale (top of first Trinity sand)	4	552	Hard lime	6	500
Water sand	14	566	Broken lime	15	515
Sand and gravel (bottom of first Trinity sand)	34	600	Lime	41	556
Gray shale	5	605	Broken lime	15	571
Red bed	40	645	Lime	2	573
Lime	13	658	Gray shale	6	579
Broken lime and shale	7	665	Gray sand	4	583
Blue shale	5	670	Shale	2	585
Red gumbo	25	695	Blue shale	5	590
Red bed	10	705	Broken sand	6	596
Blue shale	14	719	Sand and gravel	49	645
Red bed	9	728	Red, sticky shale	3	648
			Red shale	5	653
			Blue shale	10	663
			Gray shale	2	665
			Red shale	15	680

Well HB-40-43-203
Owner: U.S. Army
Driller: Layne Texas Co.

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-203—Continued			Well HB-40-43-205—Continued		
Blue shale	10	690	Quicksand	23	30
Red bed	22	712	Blue rock	10	40
Red shale	44	756	Lime and shale	460	500
Red and blue shale	9	765	Shell	10	510
Sand, second Trinity	20	785	Lime and shale (top of first Trinity sand)	7	517
Red bed	10	795	Sand	8	525
Well HB-40-43-204			Broken sand	5	530
Owner: U.S. Army Driller: Layne Texas Co.			Sand	3	533
Red and yellow clay	20	20	Lime	4	537
Lime and blue shale	55	75	Red rock and lime	133	670
Gray lime and shale	90	165	Broken sand	2	672
Lime and shale	120	285	Sandy shale (top of second Trinity sand)	3	675
Gray lime and shale	60	345	Sand	55	730
Gray lime and shale	15	360	Shale (break in sand)	5	735
Lime	25	385	Coarse sand	10	745
Lime and shale	148	533	Sandy shale	5	750
Shale (top of first Trinity sand)	15	548	Dark shale	5	755
Red bed	7	555	Well HB-40-43-206		
Sandy shale	10	565	Owner: U.S. Army Driller: Layne Texas Co.		
Red rock	10	575	Yellow clay and gravel	30	30
Shale	20	595	Blue shale	30	60
Sandy shale	5	600	Sand	15	75
Red bed	35	635	Lime	12	87
Red bed (hole caving)	15	650	Sandy lime and shale	43	130
Red bed	35	685	Broken lime	20	150
Sand (top of second Trinity sand)	27	712	Blue shale	20	170
Shale	1	713	Sand	5	175
Red rock	12	725	Sandy shale	7	182
Sand	23	748	Sandy shale and lime	8	190
Sandy lime	5	753	Lime (soft)	45	235
Sand	5	758	Gray shale	20	255
Well HB-40-43-205			Blue shale and shells	5	260
Owner: U.S. Army Driller: Layne Texas Co.			Gray shale	10	270
Sandy soil	2	2			
Sandy clay	5	7			

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-206—Continued			Well HB-40-43-207—Continued		
Sand	5	275	Gray lime and shale	40	100
Gray shale	33	308	Gray lime and shale	130	230
Hard lime	7	315	Lime and shale	265	495
Broken lime	25	340	Sandy lime	10	505
Hard lime	7	347	Sandy shale (top of first Trinity sand)	13	518
Hard lime	23	370	Sand	32	550
Sandy shale and shells	32	402	Sand, coarse (bottom of first Trinity sand)	12	562
Lime	8	410	Shale	3	565
Broken lime and shale	15	425	Bed rock and shale	55	620
Broken lime	35	460	Shale (top of second Trinity sand)	40	660
Gray shale	5	465	Sand	5	665
Lime	10	475	Broken sand	25	690
Sandy shale and shells	30	505	Sand	35	725
Broken sand and shale	30	535	Sand, coarse (bottom of second Trinity sand)	10	735
Sand (water)	27	562	Shale	10	745
Sand	15	577			
Red bed	28	605	Well HB-40-43-603		
Lime	5	610	Owner: Flat Water Supply Corp.		
Blue shale	5	615	Driller: Harvey Meadows and Son Well Driller		
Blue shale	15	630	Soil	3	3
Red bed	10	640	Rock and chalk	17	20
Red bed	18	658	Blue rock	40	60
Blue shale	5	663	Lime	55	115
Red bed	5	668	Shale mixed with lime	380	495
Blue shale	14	682	Glen Rose lime	293	788
Sand and shale	8	690	Hensell sand	85	873
Soft water sand	15	705	Red bed - peat gravel	22	895
Sand and gravel	15	720	Red bed, peat gravel, quartzite, pyrites, and shale	75	970
Brown shale	15	735	Hosston sand	20	990
			Shale	3	993
Well HB-40-43-207					
Owner: U.S. Army					
Driller: Layne Texas Co.					
Surface soil	2	2			
Yellow clay	5	7			
Yellow lime	18	25			
Blue rock	35	60			

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-44-502			Well HB-40-49-201—Continued		
Owner: Temco Feed Mills Driller: R. A. Adams and Son			Lime, shale, and sand	10	460
Soil and chunk rock	3	3	Limestone, shale, and sand	10	470
Gray lime	42	45	Limestone, shale, and sand	10	480
Dark shale	5	50	Shale, lime, and sand	10	490
Gray lime	140	190	Shale, lime, and sand	10	500
Shale	8	198	No record	10	510
Lime	73	271	Hard shale and sand	10	520
White lime	109	380	Sand, lime, and shale	10	530
Shale	24	404	Sand, lime, and shale	10	540
Glen Rose lime	86	490			
Shale	1	491	Well HB-40-49-403		
Lime	101	592	Owner: G. H. Cassens Driller: Fowler Drilling Co.		
Shale	2	594	Yellow clay	20	20
Lime	181	775	Blue shale and fine sand	50	70
Shale	20	795	Gray rock	10	80
Lime	63	858	Gray lime	55	135
Blue sandy shale	8	866	Blue clay	7	142
Sand	6	872	Gray lime	48	190
Sandy lime	6	878	Gray clay	10	200
Sand and gravel	25	903	Gray lime	30	230
Black shale	2	905	Blue clay	10	240
			Gray lime	75	315
Well HB-40-49-201			Blue rock	20	335
Owner: Gay Lockhart Driller: Gulf Oil Corp. (Complete log not shown)			Brown limestone (water)	15	350
No record	260	260	Blue mud	5	355
Lime	20	280	White mud and sand	33	388
Lime and sand	20	300	Hard brown rock	15	403
Lime	20	320	Red bed (shale and sand)	93	496
Lime and sand	30	350			
Lime and shale	50	400	Well HB-40-51-501		
Lime, sand, and shale	10	410	Owner: Thomas Young Driller: Sugarloaf Mountain Oil Co. (Complete log not shown)		
Lime, sand, and shale	10	420	Yellow clay	28	28
Lime and sand	10	430	Lime	8	36
Lime and sand	10	440			
Lime and sand	10	450			

Table 3.—Drillers' Logs of Selected Wells in Coryell County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-51-501--Continued			Well HB-40-57-302		
Blue slate	14	50	Owner: City of Copperas Cove Driller: Layne Texas Co.		
White lime	10	60	Shale and rock	15	15
Blue slate	40	100	Yellow shale - hard layers	11	26
White lime	5	105	Shale and shells	220	246
Blue slate	295	400	Gray shale and hard layers lime rock	17	263
Lime	12	412	Gray shale	22	285
White slate	58	470	Gray shale and layers hard lime	35	320
White lime	12	482	Shale	11	331
White slate	18	500	Shale and lime	15	346
White lime, water	55	555	Lime and shale	121	467
Hard lime	9	564	Lime	17	484
White slate	36	600	Shale and lime	6	490
Red slate	10	610	Shale and thin layers sand	12	502
White slate	20	630	Sandy lime and shale	4	506
White sand 630 ft little water	6	636	Lime and shale	18	524
White shale 636 ft	6	642	Sandy lime and shale	14	538
White sand, little water	8	650	Hard shale and lime	16	554
Red shale	10	660	Hard lime and pink shale	34	588
White lime	5	665	Gray shale (soft)	14	602
Blue shale	5	670	Lime and shale (hard)	25	627
Lime	5	675	Sandy lime	8	635
Red shale	10	685	Lime and shale	11	646
Lime	15	700	Well HB-40-57-303		
Blue shale	10	710	Owner: Sam Millsap Driller: J. L. Myers Sons		
Hard lime	5	715	Caliche	19	19
White paste	2	717	Shale with lime streaks	22	41
Hard lime	13	730	Broken lime (caliche)	17	58
White lime	28	758	Shale and lime chalk	13	71
Red shale	3	761	Broken lime	5	76
Gray lime	3	764			
Yellow shale	8	772			
Sand	6	778			
Lime	6	784			
Gray slate	5	789			
Lime	6	795			
Brown lime	35	830			
Gray lime	8	838			

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-57-303—Continued			Well HB-40-57-305—Continued		
Shale and lime streaks	34	110	Solid blue	12	45
Sand and lime shale	8	118	Gray, pretty hard	65	110
Lime shale (broken)	20	138	Soft sand rock (cavey)	10	120
Shale and streaks of lime	51	189	Hard, gray shale	1	121
Lime shale, gray	29	218	Hard, brown lime (some water)	352	473
Shale, gray	7	225	Hard	57	530
Limy shale	13	238	White soft	20	550
Gray shale	7	245	Soft pink	11	561
Limy shale	13	258	Red	5	566
Shale and lime streaks	112	370	Gray dark shale	4	670
Limy shale	25	395	Well HB-41-39-303		
Shale, gray	7	402	Owner: L. S. Passmore Driller: J. L. Myers Sons		
Shale and lime	16	418	Rock	14	14
Shale, gray	8	445	Clay	9	23
Limy shale	16	461	Rock and shale	17	40
Sandy lime	8	469	Rock	5	45
Lime	14	483	Sandy shale	25	70
Lime, broken and shale	15	498	Lime and shale	50	120
Sandy lime	14	512	Shale and rock	49	169
Shale soft white	1	513	Chalk rock	131	300
Sandy lime	6	519	Shale and rock	35	335
Sandy shale	4	523	Mixed shale	15	350
Lime, soft	2	525	Lime rock	10	360
White sandy shale	12	537	Lime	66	426
Shale red	2	539	Sandy shale	4	430
White sandy shale	7	546	Sand	5	435
Sandy shale and sand	8	554	Sandy shale	9	444
Red shale	3	557	Shale	11	455
Sandy shale red	6	563	Sandy lime	23	478
Shale red	10	573	Rock and lime	28	506
			Rock	4	510
			Shale	22	532
Well HB-40-57-305			Well HB-41-40-202		
Owner: Willie Groth Driller: Smart Drilling and Supply			Owner: Floyd Elam Driller: Tatum Drilling Co.		
Yellow	25	25			
Gummy blue	8	33	Caliche	18	18
			Blue shale	24	42

Table 3.—Drillers' Logs of Selected Wells in Coryell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-41-40-202—Continued			Well HB-41-40-902—Continued		
Brown water sand	10	52	Lime	34	474
Gray shale	43	95	Red shale	28	502
Well HB-41-40-901			Brown lime	3	505
Owner: R. A. Manning			Red shale	37	542
Driller: Edwin Dyson			Brown lime	3	545
Clay - rock	120	120	Red shale	7	552
Paluxy sand	10	130	Sand	13	565
Gray lime	250	380	White lime	5	570
Sandy shale	10	390	Well HB-41-48-102		
Gray lime	25	415	Owner: Gerald Cummings		
Sandy shale	5	420	Driller: Fowler Drilling Co.		
Hard, gray lime	15	435	Fine sand and blue mud	570	570
Blue shale	5	440	Brown limestone	100	670

CORYELL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well HB-40-19-803		Well HB-40-28-402		Well HB-40-35-804	
Owner: Curtis Watson		Owner: Joe Tubbs		Owner: Jack Fry	
Apr. 14, 1965	274	Apr. 6, 1964	200	Jan. 10, 1943	101
Mar. 18, 1968	279.6	Mar. 18, 1968	244.5	Mar. 11, 1966	252.70
Mar. 19, 1969	278.58	Sept. 19, 1968	245.0	Aug. 25, 1966	265.71
Well HB-40-25-401		Well HB-40-35-103		Sept. 29, 1966	277.07
Owner: Joe Faubion		Owner: Gatesville State School for Boys		Oct. 31, 1966	274.14
May 1962	45	July 8, 1952	290	Dec. 5, 1966	258.05
Mar. 14, 1968	56.00	Apr. 5, 1966	374.06	Dec. 29, 1966	260.07
Mar. 19, 1969	56.24	Mar. 16, 1967	389.98	Feb. 7, 1967	262.46
Well HB-40-26-102		Mar. 14, 1968	390.99	Mar. 16, 1967	258.92
Owner: Jonesboro Water Supply Corp.		Mar. 18, 1969	387	May 2, 1967	262.07
Mar. 14, 1965	335	Well HB-40-35-403		June 5, 1967	263.98
Mar. 30, 1966	297.2	Owner: City of Gatesville		June 28, 1967	271.25
Oct. 1966	305.0	Oct. 2, 1964	298	Aug. 1, 1967	281.75
Mar. 16, 1967	316.62	Apr. 5, 1966	255.3	Sept. 12, 1967	282.95
May 2, 1967	322.91	Mar. 22, 1967	342.0	Oct. 4, 1967	285.87
June 29, 1967	323.96	Mar. 15, 1968	338.60	Nov. 8, 1967	282.02
Aug. 2, 1967	324.94	Well HB-40-35-701		Dec. 1, 1967	278.77
Oct. 4, 1967	327.46	Owner: Fort Gates-Water Supply Corp.		Jan. 5, 1968	279.67
Nov. 6, 1967	328.12	July 21, 1964	390	Feb. 13, 1968	280.13
Dec. 1, 1967	327.98	Mar. 10, 1966	344.5	Mar. 19, 1969	271.04
Jan. 4, 1968	328.18	Dec. 29, 1966	357.37	Well HB-40-41-601	
Feb. 13, 1968	327.89	Feb. 7, 1967	360.25	Owner: Johnny Woodlief	
Mar. 14, 1968	328.19	Mar. 10, 1967	359.0	June 1963	170
Mar. 19, 1969	338.85	May 2, 1967	362.80	Mar. 15, 1968	208.50
Well HB-40-26-401		June 28, 1967	382.40	Mar. 18, 1969	207.30
Owner: R. L. Campbell		Sept. 12, 1967	397.40	Well HB-40-41-702	
Mar. 1963	70	Oct. 4, 1967	388.67	Owner: N. C. Stormi and Joe Perkins	
Mar. 14, 1968	79.73	Nov. 6, 1967	381.86	Aug. 1963	250
Mar. 19, 1969	81.20	Feb. 13, 1968	372.84	Mar. 14, 1968	183.20
		Mar. 14, 1968	374.42	Mar. 18, 1969	187.8
		Mar. 19, 1969	371.88		

Table 4.—Water Levels in Selected Wells in Coryell County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well HB-40-43-603		Well HB-40-45-402—Continued		Well HB-41-39-304—Continued	
Owner: Flat Water Supply Corp.		Nov. 8, 1967	258.75	June 5, 1967	324.24
July 31, 1965	390	Dec. 1, 1967	258.24	June 28, 1967	330.05
Mar. 10, 1966	379.2	Jan. 5, 1968	257.81	Aug. 1, 1967	335.07
Mar. 16, 1967	389.07	Feb. 13, 1968	257.73	Oct. 5, 1967	326.53
Mar. 15, 1968	402.03	Mar. 15, 1968	257.63	Nov. 13, 1967	324.87
Mar. 19, 1969	403.14	Mar. 20, 1969	259.73	Dec. 1, 1967	324.92
Well HB-40-44-901		Well HB-40-57-303		Jan. 5, 1968	323.52
Owner: G. E. Wolfe		Owner: Sam Millsap		Feb. 7, 1968	322.60
1890	24	Apr. 10, 1951	410	Mar. 12, 1968	321.42
Mar. 10, 1966	260.6	Aug. 14, 1967	316.40	Mar. 19, 1969	324.07
Mar. 16, 1967	285.53	Mar. 15, 1968	309.20	Well HB-41-40-803	
Mar. 15, 1968	220.15	Mar. 18, 1969	310.42	Owner: Mary Caddel	
Well HB-40-45-402		Well HB-41-39-303		Apr. 8, 1966	177.35
Owner: Texas Parks and Wildlife Department		Owner: L. S. Passmore		Mar. 10, 1967	199.47
July 15, 1966	201.23	Apr. 11, 1967	337.0	Mar. 12, 1968	177.13
Mar. 16, 1967	251.49	Mar. 13, 1968	335.9	Mar. 17, 1969	188.42
May 2, 1967	251.95	Mar. 19, 1969	336.0	Well HB-41-48-101	
June 5, 1967	252.14	Well HB-41-39-304		Owner: Mrs. J. H. Conner, Sr.	
June 28, 1967	252.87	Owner: J. Y. Hamilton		Apr. 8, 1966	69.65
Aug. 1, 1967	256.73	Aug. 26, 1966	325.60	Sept. 26, 1966	51.70
Sept. 12, 1967	258.68	Dec. 29, 1966	324.05	Apr. 10, 1967	156.3
Oct. 4, 1967	258.91	Feb. 7, 1967	322.50	Mar. 12, 1968	94.6
		May 2, 1967	323.58	Mar. 18, 1969	145.4

CORYELL COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; E, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
y HE-40-19-803	334	Sept. 19, 1968	Kp	9	0.92	6	12	428	--	640	336	82	8.4	< 0.4	--	1,200	--	64	94	1,820	8.2	23.3
	901	792	Apr. 19, 1961	Khe	8.1	--	16	15	* 517	--	444	756	43	5.2	.0	--	1,580	--	102	92	2,330	7.9
z 25-902	460	June 13, 1968	Kho	--	9.8	6	3	404	--	403	272	163	4.4	.4	--	1,300	1,061	30	97	2,093	9.0	33.2
z 902	547	do.	do.	--	.1	4.1	2.9	406.2	--	390.8	224.7	214.3	1.5	1.2	--	1,274.6	1,047	21.6	98	1,600	8.4	37.6
	560																					
y 902	360	July 21, 1968	Khe	--	.64	10	4	391	--	472	276	149	4.9	< .4	--	1,310	1,067	42	95	--	8.4	26.2
	444																					
y 26-101	423	Mar. 9, 1960	do.	--	--	16	15	* 296	--	430	226	104	3.1	3	--	884	--	102	86	1,420	7.8	12.8
	102	622	Mar. 24, 1965	Kho	--	.14	7	2	308	--	464	116	145	1	< .4	--	1,040	807	25	97	1,520	8.3
y 102	622	Apr. 23, 1966	do.	--	< .02	89	4	374	--	378	112	415	1.3	< .4	--	1,370	1,182	238	77	2,574	7.4	10.5
	801																					
y 27-102	200	Jan. 30, 1961	Kp, Kgr	12	--	22	28	* 166	--	383	149	41	1.4	.0	--	620	607	170	68	980	7.6	5.6
	1,003	Nov. 19, 1963	Kho, Kho	--	.82	4	7	262	--	445	78	98	1.2	< .4	--	900	670	39	94	1,240	8.5	18.4
y 28-402	410	Sept. 19, 1968	Kp	8	--	44	35	740	--	540	1,140	179	6.1	< .4	--	2,420	--	254	86	3,330	7.8	20.2
	35-101	728	Aug. 1942	Ktp	13	.05	7.9	4.8	* 400	--	451	251	191	2.2	1	--	1,100	--	39	96	--	8.1
y 103	771	July 9, 1952	Khe, Kho	21	6	18	29	* 285	--	483	283	181	2.8	1.3	--	1,180	1,064	141	79	--	8.4	9.7
	104	762	do.	6	.15	19	17	* 359	--	445	269	181	2.6	< .4	--	1,110	1,073	118	87	--	8.4	14.3
y 107	898	Dec. 6, 1964	Kho	--	< .02	5	3	367	--	447	183	176	2.3	3	--	1,190	959	27	97	1,804	8.1	31.9
	401	680	May 25, 1942	Ktp	32	.16	16	6	* 423	--	415	210	277	2.2	< .4	--	1,154	1,171	65	93	--	8.3
y 401	680	June 3, 1946	do.	10	.05	7.8	4.4	* 457	--	448	211	293	3	4	--	1,210	--	38	96	2,070	8.0	32.1
	401	680	July 2, 1953	do.	25	.04	21	5	415	--	458	207	273	2	< .4	--	1,183	--	73	93	--	7.9
y 401	680	Apr. 24, 1964	do.	--	.04	13	8	468	--	467	382	213	.9	< .4	--	1,550	1,315	67	94	2,519	8.3	25.1
	402	680	Aug. 15, 1942	do.	--	--	7.8	4.7	* 455	--	447	234	296	--	.0	--	1,227	--	39	96	--	8.0
y 402	680	June 3, 1946	do.	3	.09	8.4	4.6	* 460	--	442	233	286	4	2.2	--	1,220	--	40	96	2,120	7.6	31.8
	402	680	July 2, 1953	do.	18	.04	24	4	413	--	458	206	273	2	< .4	--	1,182	1,165	77	92	--	7.9
y 402	680	Apr. 24, 1964	do.	--	.04	20	14	435	--	442	357	234	.7	1.5	--	1,510	1,279	107	90	2,442	8.0	18.2

See footnotes at end of table.

CORYELL COUNTY

Table 5.--Chemical Analysis of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
RR-40-35-402	680	Oct. 12, 1965	Ktp	--	0.18	16	9	464	--	467	384	201	4.6	< 0.4	--	1,550	1,309	75	93	2,496	8.0	22.9
403	828	July 2, 1953	Kho	14	.56	27	11	381	--	439	249	231	1.8	< .4	--	1,215	1,134	113	88	--	8.0	15.6
403	828	Nov. 6, 1957	do.	--	.08	7	4	425	--	460	188	300	2	< .4	--	1,140	1,152	35	96	1,900	7.7	31.9
3 404	755	July 21, 1955	do.	14	.12	9	4	458	--	415	202	320	--	--	--	1,481	1,211	39	96	--	8.4	32.1
404	755	Apr. 24, 1964	do.	--	.04	8	5	435	--	428	201	288	.4	< .4	--	1,370	1,148	39	96	2,244	8.0	29.6
405	700	do.	Ktp	--	< .02	7	4	435	--	428	202	298	.4	1.5	--	1,380	1,158	33	97	2,277	8.0	32.6
407	700	Apr. 27, 1940	do.	16	.14	12	8	* 432	--	380	216	280	2.6	3	--	1,175	1,157	64	94	--	8.2	23.8
2 701	821	Aug. 3, 1964	Kho	--	.14	7.2	4.4	453.4	--	400.2	214	308	.5	--	--	1,408.8	1,184	36	96	--	8.4	32.9
701	821	Oct. 21, 1964	do.	--	.08	8	4	435	--	426	195	298	2	< .4	--	1,370	1,151	37	96	2,222	8.3	31.0
4 801	755	June 25, 1943	Khe, Kho	34	.22	7.2	5.3	* 412	--	462	230	222	2	.0	--	1,140	--	40	96	1,870	8.5	28.4
4 801	755	Sept. 9, 1955	do.	14	.03	7.2	3.9	* 402	--	438	236	210	2	2.5	--	1,090	--	34	96	1,820	7.5	30.2
4 802	690	May 1943	Khe, Kho	12	.10	12	6.9	* 487	--	661	298	298	2.8	1.5	--	1,345	--	58	95	--	8.5	27.5
4 802	690	Sept. 9, 1955	do.	14	.05	13	7.2	* 483	--	445	309	295	3	4	--	1,350	--	62	94	2,250	7.6	26.6
4 803	721	May 1943	do.	12	.08	10	5.9	* 469	--	456	256	300	2	.5	--	1,280	--	50	95	--	8.5	29.1
4 803	721	July 10, 1952	do.	14	.16	8.8	5.5	* 465	--	450	240	305	2	.0	--	1,260	--	44	96	2,210	8.5	30.2
4 804	745	July 2, 1943	do.	26	.05	8.5	4.9	* 428	--	454	219	262	1.6	.0	--	1,174	--	41	96	1,930	8.3	29.1
4 805	759	Feb. 22, 1943	do.	15	.08	8.2	4.7	* 419	--	432	215	259	2.2	1	--	1,137	--	40	96	--	8.3	28.9
4 36-601	1,170	Apr. 30, 1942	Ktp	11	.04	4.2	2.2	± 303	--	477	95	129	1.3	.0	--	781	--	20	97	--	8.2	29.3
601	1,170	May 19, 1942	do.	18	.32	14	6	± 318	--	427	138	144	1.2	< .4	--	849	--	60	92	--	8.4	18.0
4 601	1,170	June 3, 1946	do.	14	.20	8.1	7.3	* 429	--	493	300	166	2.2	1.5	--	1,170	--	50	95	2,020	8.5	26.3
601	1,170	Feb. 5, 1961	do.	--	.07	7	4	345	--	467	195	129	1.4	< .4	--	974	912	35	96	1,624	8.2	25.9
601	1,170	Jan. 27, 1964	do.	--	.13	4	6	359	--	472	209	146	1.8	< .4	--	1,200	958	35	96	1,870	8.2	26.5
601	1,170	Feb. 17, 1965	do.	12	--	8	4	361	--	482	197	149	2.1	< .4	--	970	--	39	96	1,610	7.8	25.7
2 602	1,220	Jan. 13, 1968	Kpe, Kho	--	.2	4.8	.5	312.5	--	439.2	87.9	140	1.2	1.6	--	1,014.3	765	14	98	1,230	8.7	36.7
41-201	455	Oct. 8, 1968	Khe, Kpe	10	1.92	50	48	590	--	399	490	570	2.7	< .4	--	1,960	--	322	80	2,890	7.8	14.3
903	271	Oct. 7, 1968	Kgt, Khe	12	.40	32	31	900	--	409	630	830	3.7	< .4	--	2,640	--	206	90	3,830	7.9	27.2
4 43-201	765	May 1943	Khe, Kho	11	.05	7.8	3.9	* 430	--	470	200	262	2.8	1	--	1,150	--	36	96	--	8.3	31.2
4 201	765	July 10, 1952	do.	13	.23	8.3	5.6	* 454	--	442	245	285	3.2	4	--	1,240	--	44	96	2,150	8.2	29.9
4 202	772	Mar. 10, 1943	do.	8	.02	10	5.6	* 460	--	446	246	298	2.6	.5	--	1,250	--	48	95	--	--	29.0
4 203	795	May 1943	do.	9.5	.09	11	6	* 480	--	456	272	305	2.8	.8	--	1,312	--	52	95	--	8.5	29.0
4 204	758	May 6, 1943	do.	10	.42	13	8	* 506	--	439	293	350	2.2	.0	--	1,399	--	66	94	--	7.9	27.2
4 204	758	Sept. 9, 1955	do.	14	.07	9.6	5.3	* 460	--	415	214	338	1.4	4	--	1,250	--	46	96	2,140	7.5	29.4
4 205	755	June 4, 1943	do.	9.5	.06	10	5.8	* 437	--	446	239	270	1.8	0.0	--	1,193	--	49	95	--	8.5	27.2
4 205	755	Sept. 9, 1955	do.	13	.04	9.6	5.5	* 444	--	436	265	262	2	3.5	--	1,220	--	46	95	2,040	7.6	28.0

See footnotes at end of table.

CORVELL COUNTY

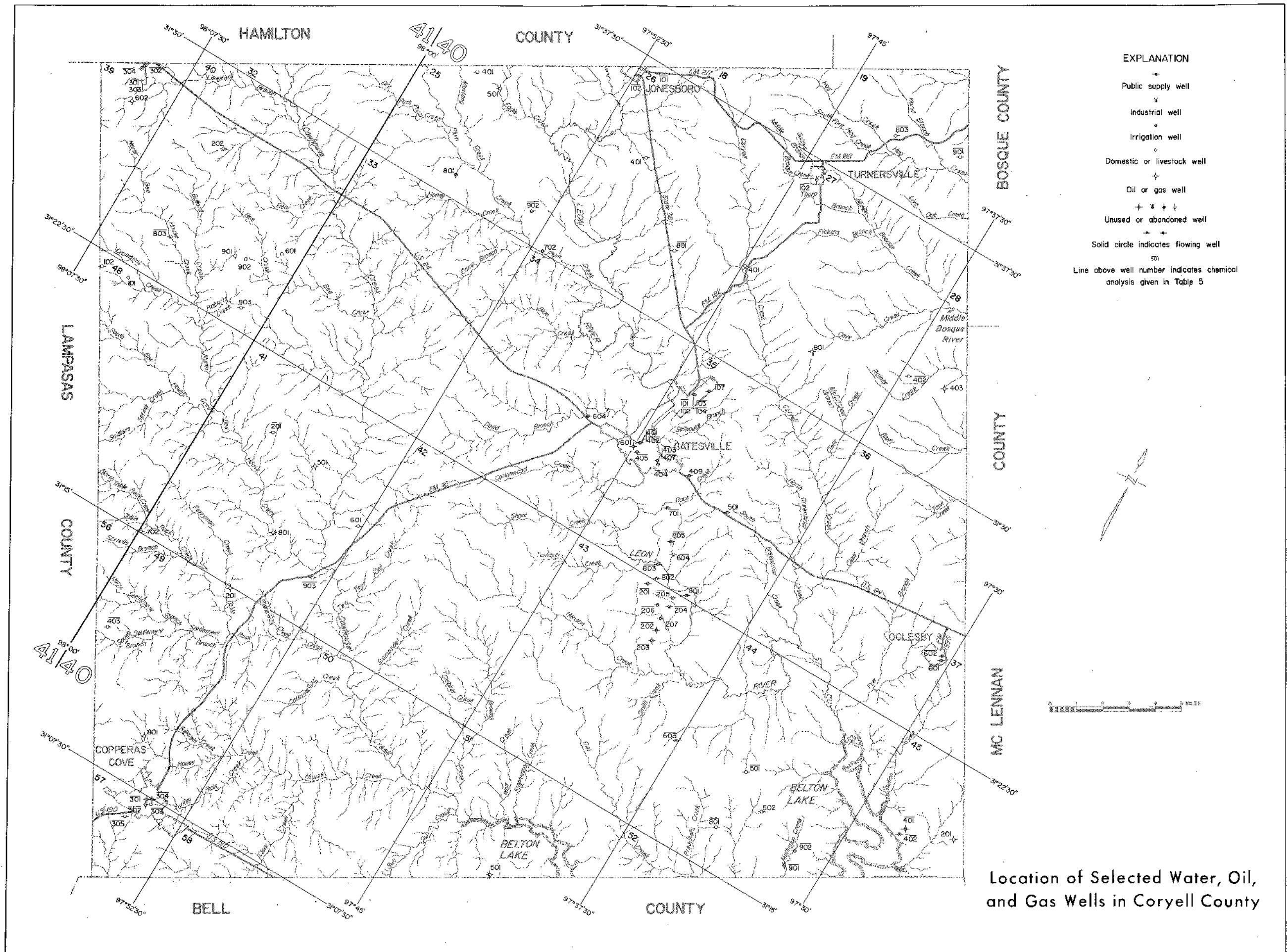
Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ HB-40-43-206	735	Mar. 4, 1943	Khe, Kho	13	0.03	8.1	4.5	* 429	--	468	205	260	2.8	0.5	--	1,153	--	38	96	--	--	30.1
1/ 206	735	Sept. 9, 1955	do.	14	.03	7.8	4.4	* 454	--	451	239	280	2.8	3.5	--	1,230	--	38	96	2,080	7.7	31.9
1/ 207	745	July 2, 1943	do.	14	.06	9.9	5.3	* 458	--	450	221	309	2.2	1	--	1,242	--	46	96	2,080	8.4	28.9
4/ 603	993	Aug. 22, 1965	do.	--	0	21	11	540	--	471	450	295	--	--	--	1,600	1,549	52	92	--	7.9	23.8
603	993	Sept. 29, 1965	Kho	--	.09	8	3	354	--	445	193	183	1.8	2	--	1,190	964	34	96	1,826	8.3	27.0
603	993	Mar. 27, 1966	do.	--	.18	8	3	374	--	418	192	192	2	< .4	--	1,200	978	34	96	1,870	8.7	28.5
1/ 44-501	900	Jan. 24, 1961	Kgr, Kha	7.9	.46	20	33	* 637	--	1,070	500	114	4.9	.0	--	1,840	--	186	88	2,830	8.0	20.4
1/ 801	900	do.	do.	9.6	.14	42	55	* 908	--	512	1,510	211	5.6	1.5	--	2,990	--	331	86	4,140	7.7	21.7
1/ 901	990	do.	Jo.	8.9	.01	34	24	* 509	--	428	704	134	4.5	7.4	--	1,640	--	184	86	2,450	8.0	16.3
4/ 902	1,126	Oct. 25, 1968	Kho	--	.0	9	2	335	--	425	178	150	.7	--	--	900	884	23	96	--	8.2	26.5
1/ 45-401	975	Feb. 26, 1942	Kgr, Khe	--	.11	42	58	* 1,357	--	610	2,156	390	--	.2	--	4,300	--	344	90	--	--	31.9
402	1,030	July 13, 1966	Khe	--	.20	8	3	346	--	475	186	144	2.2	< .4	--	1,160	924	34	96	--	8.3	26.4
402	1,030	May 1968	do.	--	.13	--	--	--	--	--	115	171	2.5	.4	--	1,200	--	--	--	--	--	--
49-403	496	Oct. 8, 1968	Khe, Kpe	14	.10	46	37	580	--	389	560	468	3.1	.5	--	1,900	--	266	83	2,750	7.8	15.5
57-301	657	Oct. 17, 1941	Ktp	27	.8	38	31	* 759	--	433	641	604	3	< .4	--	2,262	2,317	223	88	--	7.9	22.2
301	657	May 1942	do.	60	.80	42	13	* 765	--	350	623	586	3	--	--	2,287	2,265	160	91	--	8.2	26.4
302	646	Aug. 4, 1944	do.	8	.3	33.2	21	* 756.2	--	407.5	680.1	545	--	--	--	2,492.6	2,264	169.5	91	--	7.6	25.3
1/ 302	646	June 3, 1946	do.	14	.43	27	7.6	* 806	--	380	700	530	4.4	1.8	--	2,280	--	98	95	3,760	7.8	35.4
304	525	Apr. 8, 1953	Khe, Kpe	40	2.1	174	88	783	--	351	626	1,001	3.4	< .4	--	3,055	2,891	796	68	--	7.3	12.1
304	525	Apr. 1953	do.	40	.8	42	13	* 765	--	435	623	586	3	--	--	3,055	2,287	160	91	--	7.3	26.4
305	570	Oct. 7, 1968	Kgr, Ktp	12	< .02	46	38	510	--	366	660	290	4.5	5	--	1,750	--	270	81	2,430	7.8	13.6
1/ 41-39-301	522	June 4, 1946	Khe	65	.52	16	10	* 424	--	352	334	246	1.8	5	--	1,280	--	81	92	2,020	7.9	20.5
1/ 302	450	do.	Ktp	10	1.5	54	35	* 131	--	332	194	50	1.6	3.5	--	644	--	279	43	1,040	7.6	3.4
304	535	July 2, 1968	do.	9	--	18	15	458	--	339	319	327	1.9	< .4	--	1,320	--	105	90	2,150	7.4	19.3
40-803	372	Sept. 4, 1968	Khe	9	--	66	47	375	--	337	510	264	2.6	2.5	--	1,440	--	357	70	2,200	7.5	8.6

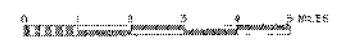
* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

- 1/ U. S. Geological Survey Laboratory
- 2/ Pope Testing Laboratory
- 3/ Curtis Laboratories
- 4/ Trinity Testing
- 5/ Laboratory Unknown



- EXPLANATION**
- Public supply well
 - Industrial well
 - Irrigation well
 - Domestic or livestock well
 - Oil or gas well
 - Unused or abandoned well
 - Solid circle indicates flowing well
 - 501
 - Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in Coryell County

EASTLAND COUNTY

Table I.--Records of Selected Water Wells

Water-bearing unit : Kw, Woodbine Group; Kez, Edwards and associated limestone; Kf, Fredericksburg Group; Kp, Baluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Kcp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kps, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JD-30-48-201	G. M. Waters	-- Fagan	1900	29	42	29	Ka	1,738	6 8.04	May 17, 1937 Mar. 12, 1969	N	N	Dug well with rock wall from 29 ft to surface. Reported yield 10 gpm. Texas Water Development Board observation well. <u>3</u>
* 701	W. T. Rutherford	--	1910	35	42	35	do.	1,758	10 10.79	Mar. 17, 1937 Mar. 12, 1969	N	N	Dug well with rock wall from 35 ft to surface. Reported yield 10 gpm. Texas Water Development Board observation well. <u>3</u>
901	U. D. Jackson	Jack Leonard Drilling Co.	1966	58	12	58	do.	1,720	31.76	Mar. 12, 1969	Sub, R 3	Irr	Completed from 52 to 58 ft. Pump set at 55 ft. Measured yield 37.5 gpm. Power and yield test on Aug. 18, 1967. Gravel packed. Texas Water Development Board observation well. <u>3</u> <u>4</u>
902	do.	do.	1966	63	12	63	do.	1,725	26	Feb. 12, 1966	Sub, E 5	Irr	Completed from 56 to 63 ft. Pumping level 53 ft at 270 gpm on Feb. 12, 1966. Pump set at 60 ft. Reported yield 225 gpm. Measured yield 110 gpm. Power and yield test on Aug. 18, 1967. Gravel packed. <u>3</u> <u>4</u>
56-103	W. B. Holcomb	J and L Drilling Co.	1967	65	8	65	do.	1,762	--	--	Sub, E 2	Irr	Slotted from 30 to 48 ft. Measured yield 25.6 gpm. Power and yield test at sprinkler on Aug. 18, 1967. Gravel packed. <u>3</u> <u>4</u>
401	Smith and Anderson	Timmie Johnson	1957	90	8	90	do.	--	25	Jan. 10, 1961	T, E 3	Irr	Perforated. Pump set at 85 ft. Measured yield 40.6 gpm. Power and yield test on Aug. 15, 1966. <u>4</u>
402	do.	do.	1959	95	8	95	do.	--	25	do.	T, E	Irr	--
403	do.	do.	1959	90	8	90	do.	--	25	do.	T, E	Irr	Reported yield 95 gpm.
407	W. P. Lilly	do.	1964	111	6	111	do.	1,878	43.21 39.66	July 8, 1965 Mar. 12, 1969	Sub, E 3	Irr	Completed from 71 to 111 ft. Gravel packed. Texas Water Development Board observation well. <u>3</u>
408	do.	do.	1964	140	7	140	Ka	--	33.19	July 8, 1965	Sub, E 5	Irr	Completed from 45 to 85 ft. Pump set at 110 ft. Gravel packed.
* 409	do.	do.	1964	138	7	138	do.	--	71.01	do.	Sub, E 3	Irr	Completed from 93 to 138 ft. Gravel packed. Temp. 70°F.
411	Claud Moore	Curtis Alford Drilling and Well Service	--	110	7	110	do.	--	42	do.	T, E 1	D	Completed from 60 to 110 ft. Gravel packed.
* 501	Cowan Hutton	Timmie Johnson	1958	70	7	70	do.	--	22	Jan. 19, 1961	T, E 3	Irr	Completed from 40 to 70 ft. Reported yield 100 gpm. Temp. 66°F.
502	do.	do.	1959	70	8	70	do.	1,744	22 26.36	Jan. 19, 1961 Mar. 12, 1969	N	N	Completed from 40 to 70 ft. Reported yield 100 gpm. Texas Water Development Board observation well. <u>3</u>
503	do.	Curtis Alford Drilling and Well Service	1956	70	7	70	do.	--	--	--	T, E 3	Irr	Perforated. Reported yield 100 gpm.

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JD-30-56-504	Cowan Hutton	Timmie Johnson	1959	70	7	70	Ka	--	22	Jan. 19, 1961	T, E 3	Irr	Completed from 40 to 70 ft. Reported yield 100 gpm.
506	do.	do.	--	70	8	70	do.	--	25 28.58	July 7, 1965 Apr. 7, 1966	T, E 3	Irr	Completed from 35 to 70 ft. Pump set at 65 ft. Gravel packed.
507	do.	do.	1963	72	8	72	do.	--	--	--	T, E 3	Irr	Completed from 47 to 72 ft. Pump set at 65 ft. Gravel packed.
508	do.	do.	--	112	8	112	do.	1,780	82 63.48	July 7, 1965 Apr. 7, 1966	Sub, E 5	Irr	Completed from 85 to 112 ft. Pump set at 95 ft. Measured yield 57.5 gpm. Power and yield test at sprinkler on Aug. 16, 1966. Gravel packed. <u>4y</u>
* 509	Oscar Schaefer	Jack Leonard Drilling Co.	1964	56	12	56	do.	--	28.23	July 7, 1965	Sub, E 5	Irr	Completed from 32 to 52 ft. Pump set at 56 ft. Reported yield 150 gpm. Gravel packed. Temp. 70°F.
510	do.	do.	1964	59	12	59	do.	1,739	30.41 18.89	July 7, 1965 Mar. 12, 1969	Sub, E 2	Irr	Completed from 32 to 52 ft. Reported yield 150 gpm. Gravel packed. Texas Water Development Board observation well. <u>4y</u>
511	Rorace King	do.	1964	39	12	39	do.	--	19	July 8, 1965	T, E 10	Irr	Completed from 21 to 39 ft. Pump set at 39 ft. Gravel packed.
* 512	do.	do.	1964	42	12	42	do.	--	15	do.	R, E 1/2	Irr	Completed from 22 to 42 ft. Reported yield 15 gpm. Gravel packed. Temp. 70°F.
513	do.	do.	1964	46	12	46	do.	--	39.73	do.	R, E 1/2	Irr	Completed from 26 to 46 ft. Reported yield 20 gpm. Gravel packed.
* 514	do.	do.	1964	48	12	48	do.	--	36.11		R, E 3/4	Irr	Completed from 28 to 48 ft. Gravel packed. Temp. 70°F.
515	Frank Snodgrass, Jr.	Curtis Alford Drilling and Well Service	1963	60	--	--	do.	--	--	--	Sub, E 1	Irr.	--
801	H. L. Vestal	--	1920	60	--	--	do.	--	44	May 19, 1937	N	N	Dug well. Well plugged and abandoned.
* 901	A. L. Buchanan	Curtis Alford Drilling and Well Service	1954	65	5	65	do.	--	20	Jan. 10, 1961	T, E	Irr	Reported yield 65 gpm. Gravel packed. Temp. 68°F.
902	do.	do.	1954	64	5	64	do.	--	20	do.	T, E 2-1/2	Irr	Completed from 35 to 64 ft. Gravel packed.
64-101	Marion Harvey	John Cooch	1897	48	--	--	do.	--	5 23.84	May 13, 1937 Apr. 7, 1966	N	N	Dug well. Well abandoned.
* 202	Elton B. Burgett	Curtis Alford Drilling and Well Service	1963	42	5	42	do.	--	--	--	J, E 1/2	D	Perforated from 21 to 42 ft. Pump set at 32 ft. Gravel packed. Temp. 64°F.
* 301	H. Erwin	do.	1956	80	6	80	do.	--	--	--	T, E 2	Irr	Completed from 60 to 80 ft. Reported yield 65 gpm. Measured yield 35.8 gpm. Power and yield test on Aug. 17, 1966. Gravel packed. Temp. 67°F. <u>4y</u>
302	do.	do.	1956	80	6	80	do.	--	--	--	T, E 2	Irr	Slotted from 60 to 80 ft. Reported yield 65 gpm. Measured yield 47 gpm. Power and yield test on Aug. 17, 1966. Gravel packed. <u>4y</u>
305	H. V. Burk	Timmie Johnson	1965	91	7	91	do.	--	--	--	Sub, E 2	Irr	Completed from 46 to 91 ft.
306	H. Erwin	Curtis Alford Drilling and Well Service	1965	60	12	60	do.	--	--	--	Sub, E 3	Irr	Perforated from 54 to 60 ft. Measured yield 37.5 gpm. Power and yield test on Aug. 17, 1966. Gravel packed. <u>4y</u>

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
JD-30-64-307	S. C. Nixon	Timmie Johnson	1965	157	7	157	Ka	--	--	--	Sub, E 5	Irr	Slotted from 127 to 157 ft. Pump set at 150 ft. Measured yield 27.8 gpm. Power and yield test at sprinkler on Aug. 17, 1967. Gravel packed. <u>4</u>
* 608	J. W. Stover	--	--	41	36	41	do.	--	21.33	Mar. 14, 1969	J, E 1	D	Dug well with rock wall from 41 ft to surface. Temp. 59°F.
31-35-601	Morris Campbell	Robert Lee-Bob-Barrhill	1965	50	8	50	do.	1,510	18.31	Oct. 12, 1965	R, E 5	Irr	Completed from 17 to 37 ft. Reported yield 145 gpm. Measured yield 10.4 gpm. Power and yield test on July 17, 1967. Gravel packed. <u>1</u> <u>4</u>
602	do.	do.	1965	50	8	50	do.	1,510	17.58	do.	R, E 2	Irr	Completed from 3 to 30 ft. Reported yield 120 gpm. Gravel packed. <u>1</u>
603	do.	do.	--	50	5	50	do.	1,508	18.9	do.	--	Irr	--
* 604	do.	do.	1965	50	6	50	do.	1,501	18.56 18.80	Oct. 12, 1965 Mar. 13, 1969	--	Irr	Completed from 3 to 38 ft. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. <u>1</u> <u>2</u> <u>3</u>
* 36-702	Bob Rebels	do.	1965	80	7	80	do.	1,457	16 14.86	Sept. 9, 1965 Mar. 13, 1969	Sub, E 1	Irr	Completed from 19 to 53 ft. Reported yield 20 gpm. Gravel packed. Temp. 68°F. Texas Water Development Board observation well. <u>1</u> <u>3</u>
703	do.	W. F. Smith Drilling Co.	1967	65	7	65	do.	1,490	--	--	Sub, E 5	Irr	Slotted from 25 to 50 ft. Pump set at 63 ft. Reported yield 50 gpm. Power and yield test on July 12, 1967. Gravel packed. <u>4</u>
704	do.	do.	1967	65	8 7	-- 65	do.	1,490	--	--	Sub, E 5	Irr	Do.
705	do.	do.	1967	65	8 7	-- 65	do.	1,493	--	--	Sub, E 5	Irr	Do.
706	Dalton Covington	Robert Lee-Bob-Barrhill	1965	70	8	70	do.	1,452	18.0	Oct. 21, 1965	Sub, E 1-1/2	Irr	Reported yield 70 gpm. Haydite packed.
707	do.	do.	1965	70	8	70	do.	1,452	14.98	do.	Sub, E 1	Irr	Reported yield 45 gpm. Haydite packed.
708	do.	do.	1965	70	8	70	do.	1,450	11.17	do.	Sub, E 1-1/2	Irr	Haydite packed.
* 41-701	C. Livingston	Sam Hitt	1897	187	5	187	Ka, P	1,665	7 5.24	May 17, 1937 Mar. 5, 1969	T, E	D, S	Temp. 64°F. Texas Water Development Board observation well. <u>3</u>
42-402	J. D. Griffin	--	--	90	5	--	P	1,585	57	Apr. 27, 1937	N	N	Well caved and abandoned.
403	do.	H. B. Norton	1949	111	5	111	do.	1,588	51.42 50.70	Apr. 6, 1966 Mar. 14, 1967	R, E	D, S	Pump set at 90 ft. Reported yield 2 gpm.
504	W. H. Hoffmann	W. H. Hoffmann	1963	57	10	57	Ka	1,595	26.50	July 28, 1965	Sub, E	Irr	Pump set at 55 ft. Haydite packed.
505	do.	do.	1962	150	6	150	do.	1,601	22.18 19.39	Apr. 6, 1966 Mar. 12, 1969	Sub, E	Irr	Completed from 35 to 49 and 72 to 83 ft. Texas Water Development Board observation well. <u>1</u> <u>3</u>
506	do.	do.	1962	136	6	136	do.	1,608	37.2	July 28, 1965	Sub, E	Irr	Haydite packed.
507	do.	do.	1964	202	10	--	Ka, P	1,614	--	--	Sub, E	Irr	Open hole completion. Haydite packed. <u>1</u>
508	R. C. Lyerla	W. F. Smith Drilling Co.	1967	43	6	43	Ka	1,560	9.54	Jan. 21, 1969	Sub, E 1-1/2	Irr	Pump set at 40 ft. Estimated yield 30 gpm. Power and yield test on Aug. 18, 1966. Gravel packed. <u>1</u> <u>4</u>
509	do.	do.	1967	31	6	31	do.	1,562	--	--	Sub, E 1	Irr	Pump set at 28 ft. Power and yield test on Aug. 18, 1966. Gravel packed. <u>1</u> <u>4</u>

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JD-31-42-510	Mrs. J. S. Turner	--	1890	36	36	36	Ka	--	18.80	Mar. 5, 1969	N	N	Dug well with rock wall from 36 ft to surface. Temp. 65°F. Owner reported too salty to use since 1940.
805	Clyde Barbee	Watson Drilling Co.	1965	80	8	80	do.	1,598	30.22	Oct. 20, 1965	Sub, E 1-1/2	Irr	Completed from 50 to 80 ft. Pump set at 62 ft. Reported yield 65 gpm. Gravel packed.
* 806	do.	do.	1965	65	8	65	do.	1,609	31.79 29.20	Apr. 6, 1966 Mar. 12, 1969	Sub, E 1-1/2	Irr	Completed from 35 to 65 ft. Pump set at 60 ft. Reported yield 60 gpm. Gravel packed. Temp. 67°F. Texas Water Development Board observation well. <u>3</u>
807	do.	do.	1965	65	8	65	do.	1,598	30.9	Oct. 20, 1965	Sub, E 1-1/2	Irr	Completed from 35 to 65 ft. Pump set at 60 ft. Reported yield 80 gpm.
808	do.	do.	1965	70	8	70	do.	1,598	36.07	do.	Sub, E 1-1/2	Irr	Completed from 40 to 70 ft. Pump set at 60 ft. Reported yield 40 gpm. Gravel packed.
901	Rollo Tinkler	Robert Lee-Bob-Barnhill	1965	85	8	85	do.	1,511	27.22 28.54	Oct. 20, 1965 Apr. 6, 1966	Sub, E 2	Irr	Completed from 35 to 65 ft. Pump set at 70 ft. Reported yield 15 gpm. Measured yield 34.3 gpm. Power and yield test on Aug. 19, 1966. Gravel packed. <u>1</u> <u>4</u>
* 902	do.	do.	1965	92	5	92	do.	1,511	28.42 28.33 29.77	Oct. 20, 1965 Apr. 6, 1966 Mar. 14, 1967	Sub, E 3	Irr	Measured yield 64.8 gpm. Power and yield test on Aug. 19, 1966. Gravel packed. Temp. 67°F. <u>1</u> <u>4</u>
903	J. F. Guy	J. T. Carson	1966	91	12 8	35 91	do.	1,510	15	Feb. 2, 1966	Sub, E 5	Irr	Slotted from 35 to 85 ft. Pump set at 80 ft. Reported yield 70 gpm. Power and yield test on Aug. 19, 1966. <u>1</u> <u>4</u>
904	do.	do.	1966	72	12 8	20 72	do.	1,502	10	Feb. 9, 1966	Sub, E 7-1/2	Irr	Slotted from 21 to 62 ft. Pump set at 60 ft. Reported yield 145 gpm. Power and yield test on Aug. 19, 1966. <u>1</u> <u>4</u>
905	do.	do.	1966	68	12 8	17 68	do.	1,502	10	Feb. 20, 1966	Sub, E 7-1/2	Irr	Slotted from 17 to 58 ft. Pump set at 50 ft. Reported yield 175 gpm. Power and yield test on Aug. 19, 1966. <u>1</u> <u>4</u>
906	do.	do.	1966	82	12	18	do.	1,505	10	Feb. 21, 1966	Sub, E 5	Irr	Open hole completion from 18 to 82 ft. Reported yield 50 gpm. Power and yield test on Aug. 19, 1966. <u>1</u> <u>4</u>
907	do.	do.	1966	65	12 10	16 65	do.	1,497	10	Feb. 24, 1966	Sub, E 7-1/2	Irr	Slotted from 16 to 53 ft. Reported yield 120 gpm. Power and yield test on Aug. 19, 1966. <u>1</u> <u>4</u>
908	do.	do.	1966	70	12 8	20 70	do.	1,497	10	Mar. 9, 1966	--	N	Completed from 23 to 58 ft. Reported yield 50 gpm. <u>1</u>
43-301	Alameda School	Frank Mahary	1912	22.8	36	22.8	P	1,368	13 15.49 15.78	Apr. 16, 1937 Apr. 1, 1966 Mar. 14, 1967	N	N	Dug well with brick wall from 22.8 ft to surface. Reported yield 10 gpm. School and well abandoned.
406	G. N. Adams	J. I. Carson	1965	100	8	100	Ka	1,525	--	--	Sub, E 3	Irr	Completed from 35 to 86 ft. Pump set at 80 ft. Reported yield 70 gpm. Gravel packed. <u>1</u>
702	do.	do.	1965	75	8	73	do.	1,484	16.63 15.13	Sept. 27, 1966 Mar. 12, 1969	Sub, E 5	Irr	Completed from 31 to 56 ft. Pump set at 70 ft. Gravel packed. Well drilled to 150 ft and plugged back to 75 ft. Texas Water Development Board observation well. <u>1</u> <u>3</u>
703	do.	do.	1965	76	8	76	do.	1,483	16.89	July 24, 1965	--	Irr	Completed from 31 to 54 ft. Haydite packed. <u>1</u>
704	do.	do.	1965	88	8	88	do.	1,508	--	--	Sub, E 3	Irr	Completed from 31 to 84 ft. Pump set at 80 ft. Reported yield 70 gpm. Gravel packed. <u>1</u>
801	H. L. Scitern	--	1953	18	--	--	do.	1,400	--	--	T, E	Irr	Dug well.

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JD-31-43-803	R. W. Eaves	-- Smith	1951	90	6	90	Ka	1,417	3.56 6.23	July 22, 1965 Mar. 12, 1969	Sub, E 1-1/2	Irr	Pump set at 83 ft. Reported yield 30 gpm. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. <u>3</u>
804	Durwood Burgess	Curtis Alford Drilling and Well Service	1966	80	8	80	do.	1,440	--	--	Sub, E 3	Irr	Slotted from 35 to 75 ft. Pump set at 76 ft. Reported yield 30 gpm. Power and yield test on July 10, 1967. Gravel packed. <u>3</u> <u>4</u>
805	do.	do.	1966	82	8	82	do.	1,432	--	--	Sub, E 3	Irr	Completed from 35 to 77 ft. Pump set at 77 ft. Reported yield 40 gpm. Power and yield test on July 10, 1967. Gravel packed. <u>4</u>
806	R. W. Eaves	Robert Lee-Bob-Barnhill	1966	75	8	65	do.	1,450	--	--	Sub, E 1/2	Irr	Perforated from 20 to 55 ft. Measured yield 20 gpm. Power and yield test on July 10, 1967. Gravel packed. <u>4</u>
807	do.	do.	1966	75	8	65	do.	1,443	--	--	Sub, E 1-1/2	Irr	Perforated from 30 to 60 ft. Measured yield 45.1 gpm. Power and yield test on July 10, 1967. Gravel packed. <u>4</u>
808	do.	do.	1966	70	8	65	do.	1,450	--	--	Sub, E 1-1/2	Irr	Perforated from 30 to 60 ft. Measured yield 34.9 gpm. Power and yield test on July 10, 1967. Gravel packed. <u>4</u>
903	Norman Parks	N. L. Sox Drilling Contractor	1965	77	--	--	Ktp	1,390	16	May 7, 1965	N	N	Well plugged and abandoned. <u>1</u>
904	Jo.	do.	1965	75	8	75	do.	1,390	3.95	July 22, 1965	Sub, E 7-1/2	Irr	Completed from 17 to 71 ft. Reported yield 100 gpm. Power and yield test on July 24, 1967. Gravel packed. Well drilled to 237 ft and plugged back to 75 ft. <u>1</u> <u>4</u>
44-106	M. Love	Watson Drilling Co.	1966	50	8	50	Ka	1,425	--	--	Sub, E 1	Irr	Slotted from 20 to 50 ft. Power and yield test on Aug. 16, 1967. Gravel packed. <u>4</u>
107	do.	W. F. Smith Drilling Co.	1965	74	8	74	do.	1,425	--	--	Sub, E 1/2	Irr	Slotted from 20 to 74 ft. Power and yield test on Aug. 16, 1967. Gravel packed. <u>4</u>
108	do.	do.	1965	50	8	50	do.	1,418	--	--	Sub, E 1/2	Irr	Slotted from 20 to 50 ft. Power and yield test on Aug. 16, 1967. Gravel packed. <u>4</u>
109	do.	Watson Drilling Co.	1965	50	8	50	do.	1,430	--	--	Sub, E 1	Irr	Do.
110	do.	W. F. Smith Drilling Co.	1966	50	8	50	do.	1,425	--	--	Sub, E 1	Irr	Do.
111	do.	Watson Drilling Co.	1966	50	8	50	do.	1,425	--	--	Sub, E 3	Irr	Do.
112	do.	W. F. Smith Drilling Co.	1965	50	8	50	do.	1,422	--	--	Sub, E 3	Irr	Do.
113	Jack Rogers	Watson Drilling Co.	1967	80	8	80	do.	1,435	55.	Feb. 1967	Sub, E 3	Irr	Slotted from 60 to 80 ft. Pump set at 75 ft. Reported yield 120 gpm. Measured yield 23.6 gpm. Power and yield test on Aug. 10, 1967. Gravel packed. <u>4</u>
114	do.	do.	1967	75	8	75	do.	1,432	50	Mar. 1967	Sub, E 1-1/2	Irr	Slotted from 55 to 75 ft. Pump set at 70 ft. Reported yield 60 gpm. Measured yield 33.7 gpm. Power and yield test on Aug. 10, 1967. Gravel packed. <u>4</u>
115	do.	do.	1967	75	8	75	do.	1,440	50	--	Sub, E 1-1/2	Irr	Slotted from 55 to 75 ft. Pump set at 70 ft. Measured yield 20.5 gpm. Power and yield test on Aug. 10, 1967. Gravel packed. <u>4</u>

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (1) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JO-31-44-401	W. A. Logan	Ervin Ryan	1906	37	42	10	Ka	1,392	23 22.03	June 17, 1937 Mar. 13, 1969	N	N	Dug well with brick wall from 10 ft to surface. Open hole from 10 to 37 ft. Reported yield 10 gpm. Texas Water Development Board observation well. <u>4j</u>
403	J. M. Yancey	Watson Drilling Co.	1965	46	8	46	do.	1,388	12	Feb. 1965	Sub, R 2	Irr	Slotted from 26 to 46 ft. Pump set at 41 ft. Reported yield 55 gpm. Measured yield 41.2 gpm. Power and yield test on July 17, 1967. Gravel packed. <u>4j</u>
404	do.	B. G. Watson	1965	50	8	50	Jo.	1,386	10	June 1965	Sub, E 2	Irr	Slotted from 30 to 50 ft. Pump set at 43 ft. Reported yield 50 gpm. Measured yield 36.7 gpm. Power and yield test on July 17, 1967. Gravel packed. <u>4j</u>
405	do.	do.	1965	42	8	42	do.	1,385	10	do.	Sub, E 2	Irr	Slotted from 22 to 42 ft. Pump set at 37 ft. Measured yield 55 gpm. Power and yield test on July 17, 1967. Gravel packed. <u>4j</u>
406	do.	do.	1967	42	8	42	do.	1,386	10	Feb. 1967	Sub, E 1-1/2	Irr	Slotted from 22 to 42 ft. Pump set at 37 ft. Reported yield 50 gpm. Gravel packed.
407	Roy Squyres and J. D. Rogers	--	1962	60	5	60	do.	1,410	--	--	Sub, R 1	Irr	Completed from 40 to 60 ft. Reported yield 25 gpm. Power and yield test on Aug. 14, 1967. <u>4j</u>
408	do.	-- McDougal	1967	75	8	75	do.	1,408	--	--	Sub, E 7-1/2	Irr	Slotted from 55 to 75 ft. Reported yield 50 gpm. Power and yield test on Aug. 14, 1967. Gravel packed. <u>4j</u>
409	do.	do.	1967	60	8	60	do.	1,410	--	--	Sub, E 3	Irr	Slotted from 40 to 60 ft. Power and yield test on Aug. 14, 1967. Gravel packed. <u>4j</u>
* 501	Sam Powers	N. L. Box Drilling Contractor	1958	125	8	125	Ktp	1,405	--	--	T, G	Irr	Completed from 55 to 125 ft. Pump set at 115 ft. Reported yield 88 gpm. Temp. 70°F.
502	do.	Terry Drilling and Supply co.	1950	115	8	115	do.	1,413	38.97 36.17	Apr. 6, 1966 Mar. 13, 1969	T, E 5	Irr	Completed from 40 to 115 ft. Pump set at 115 ft. Reported yield 75 gpm. Gravel packed. Texas Water Development Board observation well. <u>3j</u>
503	do.	Robert Lee-Bob-Barnhill	1964	109	7	109	do.	1,395	19.47	July 21, 1965	Sub, E 2	Irr	Completed from 35 to 109 ft. Measured yield 59.6 gpm. Power and yield test on July 18, 1967. Gravel packed. <u>4j</u>
504	do.	do.	1964	100	8	100	do.	1,393	19.61	do.	Sub, E	Irr	Completed from 35 to 100 ft. Gravel packed.
505	James Ryan	Watson Drilling Co.	1966	104	8	104	do.	1,425	--	--	Sub, R 7-1/2	Irr	Slotted from 65 to 99 ft. Pump set at 97 ft. Measured yield 87.6 gpm. Power and yield test at sprinkler on July 18, 1967. <u>4j</u>
506	C. L. Highsmith	C. L. Highsmith	--	85	6	85	do.	1,430	--	--	Sub, R 2	Irr	Slotted from 55 to 85 ft. Measured yield 44 gpm. Power and yield test on July 18, 1967. Gravel packed. <u>4j</u>
507	do.	do.	--	84	7	84	do.	1,418	--	--	Sub, R 5	Irr	Slotted from 54 to 84 ft. Measured yield 66 gpm. Power and yield test on July 18, 1967. Gravel packed. <u>4j</u>
* 601	Felix Sparks	N. L. Box Drilling Contractor	1958	88	7	88	do.	1,382	30	Jan. 17, 1961	T, E	Irr	Slotted. Pumping level 65 ft at 78 gpm in 1958. Pump set at 60 ft. Gravel packed. Well drilled to 187 ft and plugged back to 88 ft. <u>1j</u>
602	B. O. Buckley	B. G. Watson	1967	110	8	110	do.	1,397	55	July 1967	Sub, E 5	Irr	Slotted from 55 to 100 ft. Pump set at 100 ft. Estimated yield 80 gpm. Power and yield test on Aug. 14, 1967. Gravel packed. <u>4j</u>

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft.)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft.)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft.)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft.)	DATE OF MEASUREMENT			
JD-31-44-603	R. O. Buckley	B. G. Watson	1967	100	8	100	Ktp	1,403	55	July 1967	Sub, E 5	Irr	Slotted from 55 to 85 ft. Pump set at 90 ft. Power and yield test on Aug. 14, 1967. Gravel packed. <u>y</u>
801	Magnolia Petroleum Co.	--	1924	283	13 7	30 283	Ktp, P	1,365	--	--	T, E 5	Ind	Slotted from 40 to 66 and 237 to 249 ft. Gravel packed. <u>y</u>
* 802	L. E. Clark	Guy Hooper	1950	80	8 5	--	Ktp	1,349	30 31.97	Jan. 24, 1961 Mar. 13, 1969	J, E 2	P	Perforated from 55 to 80 ft. Pump set at 72 ft. Texas Water Development Board observation well. <u>y</u>
804	L. A. Sharp	Lightfoot and McCrum	1965	79	8	79	do.	1,368	48.52 48.76	Oct. 12, 1965 Mar. 13, 1969	Sub, E 2	Irr	Slotted from 15 to 19 and 35 to 71 ft. Measured yield 21.3 gpm. Power and yield test on July 11, 1967. Gravel packed. Texas Water Development Board observation well. <u>y</u> <u>z</u> <u>y</u>
* 805	do.	do.	1965	80	8	80	do.	1,368	50.23 50.69	Oct. 12, 1965 Apr. 1, 1966	Sub, E 2	Irr	Slotted from 16 to 19 and 35 to 71 ft. Measured yield 34.7 gpm. Power and yield test on July 11, 1967. Gravel packed. Temp. 67°F. <u>y</u> <u>z</u> <u>y</u>
806	R. L. Lewis	B. G. Watson	1967	80	8	80	do.	1,375	60	June 1967	Sub, E 3	Irr	Slotted from 40 to 80 ft. Pump set at 65 ft. Measured yield 40 gpm. Power and yield test on July 18, 1967. Gravel packed. <u>y</u>
807	do.	Watson Drilling Co.	1967	69	8	69	do.	1,378	--	--	Sub, E 2	Irr	Slotted. Reported yield 35 gpm. Gravel packed.
808	do.	do.	1967	70	8	70	do.	1,385	--	--	Sub, E 2	Irr	Slotted. Pump set at 70 ft. Power and yield test on Aug. 15, 1967. Gravel packed. <u>y</u>
809	do.	do.	1967	70	8	70	do.	1,385	--	--	Sub, E 2	Irr	Slotted. Pump set at 75 ft. Power and yield test on Aug. 15, 1967. Gravel packed. <u>y</u>
810	do.	do.	1967	70	8	70	do.	1,385	--	--	Sub, E 2	Irr	Slotted. Pump set at 70 ft. Power and yield test on Aug. 15, 1967. Gravel packed. <u>y</u>
812	R. L. Clark	--	--	--	--	--	do.	1,343	--	--	--	P	--
51-101	T. H. Birdsong III	J. T. Carson	1966	80	8	80	Ka	--	--	--	Sub, E 3	Irr	Slotted from 60 to 80 ft. Pump set at 75 ft. Power and yield test on Aug. 9, 1967. <u>y</u>
102	do.	Sanders Drilling Co.	1966	60	8	60	do.	--	--	--	Sub, E 3	Irr	Slotted from 40 to 60 ft. Pump set at 55 ft. Power and yield test on Aug. 9, 1967. Gravel packed. <u>y</u>
103	do.	Curtis Alford Drilling and Well Service	1966	82	8	82	do.	--	--	--	Sub, E 1	Irr	Perforated from 52 to 64 ft. Reported yield 60 gpm. Power and yield test on Aug. 9, 1967. Gravel packed. <u>y</u> <u>y</u>
104	do.	do.	1966	81	8	81	do.	--	--	--	Sub, E 3/4	Irr	Perforated from 41 to 60 ft. Reported yield 60 gpm. Power and yield test on Aug. 9, 1967. Gravel packed. <u>y</u> <u>y</u>
105	-- Preston	Robert Lee-Bob-Barnhill	1965	50	7	50	do.	1,470	17 15.58	June 17, 1965 Oct. 20, 1965	Sub, E	Irr	Completed from 17 to 40 ft. Reported yield 40 gpm. Gravel packed. <u>y</u>
201	Q. D. Fuller	Steward Drilling Co.	1953	100	7	100	do.	--	35	July 22, 1965	T, E 3-1/2	Irr	Completed from 50 to 90 ft. Pump set at 85 ft. Reported yield 65 gpm. Gravel packed.
202	do.	do.	1953	100	7	100	do.	--	35	do.	T, E 3-1/2	Irr	Completed from 55 to 90 ft. Pump set at 85 ft. Reported yield 65 gpm. Gravel packed.
* 203	do.	do.	1953	105	7	105	do.	--	35	do.	T, E 3-1/2	Irr	Completed from 55 to 100 ft. Pump set at 95 ft. Reported yield 85 gpm. Gravel packed. Temp. 69°F.
* 204	City of Gorman	H. S. Norton	1948	108	10	108	Ktp	--	68	Nov. 17, 1959	T, E 7-1/2	P	Perforated from 70 to 108 ft. Pump set at 102 ft. Reported yield 66 gpm.

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIPT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JD-31-51-205	City of Gorman	H. B. Norton	1947	113	10	113	Ktp	1,468	66	Nov. 17, 1959	N	N	Perforated from 70 to 113 ft. Pumping level 90 ft at 55 gpm on Nov. 17, 1959. Well abandoned. <u>1</u>
* 206	do.	Charles Gordon	1944	100	6	--	do.	--	--	--	N	N	Well abandoned.
* 207	do.	--	1914	84	72	--	do.	--	--	--	T, E	P	Dug well. Reported yield 30 gpm.
* 208	do.	Bradford Brothers	1920	120	10	--	do.	--	--	--	T, E	P	Reported yield 30 gpm.
* 209	do.	do.	1924	106	8	--	do.	--	--	--	T, E	P	Do.
* 210	do.	do.	1924	106	8	--	do.	--	40	1945	C, E	N	Reported yield 25 gpm.
211	O. R. Buchanan	Curtis Alford Drilling and Well Service	1964	90	7	90	do.	1,448	42 44.91	July 22, 1965 Mar. 12, 1969	Sub, E	Irr	Completed from 50 to 83 ft. Reported yield 170 gpm. Haydite packed. Texas Water Development Board observation well. <u>1</u> <u>2</u> <u>3</u>
212	do.	Robert Lee-Bob-Barnhill	1965	100	8	100	do.	--	40 41.24	July 22, 1965 July 23, 1965	Sub, E	Irr	Completed from 58 to 88 ft. Reported yield 340 gpm. Gravel packed. <u>1</u>
213	Charles Underwood	do.	1964	70	10	50	do.	--	17	July 23, 1965	T, E	Irr	Open hole completion from 50 to 70 ft. Pump set at 55 ft. Reported yield 105 gpm. Gravel packed.
* 214	do.	do.	1965	68	10	52	do.	--	37.0	do.	Sub, E 5	Irr	Open hole completion from 52 to 68 ft. Pump set at 55 ft. Gravel packed. Temp. 69°F. <u>1</u>
* 215	Lizzie Jackson	Texas Irrigation Sales, Inc.	1965	96	7	96	KA	1,434	24.61 26.44	Apr. 6, 1966 Mar. 12, 1969	Sub, E 7-1/2	Irr	Perforated from 56 to 96 ft. Reported yield 125 gpm. Gravel packed. Temp. 74°F. Texas Water Development Board observation well. <u>1</u> <u>3</u>
216	do.	do.	1965	138	7	138	do.	--	54.22	July 26, 1965	Sub, E 7-1/2	Irr	Reported yield 90 gpm. Gravel packed
* 217	Bill Andrys	Curtis Alford Drilling and Well Service	1964	100	7	75	do.	--	29.15	July 21, 1965	Sub, E	Irr	Completed from 20 to 75 ft. Gravel packed. Temp. 70°F.
* 218	do.	Robert Lee-Bob-Barnhill	1965	60	10	60	do.	--	17.75	do.	Sub, E 7-1/2	Irr	Completed from 20 to 60 ft. Pump set at 50 ft. Reported yield 150 gpm. Gravel packed. Temp. 65°F.
219	do.	do.	1965	84	7	84	do.	--	--	--	Sub, E 5	Irr	Pump set at 72 ft. Reported yield 75 gpm.
220	do.	do.	1965	100	10	84	do.	--	--	--	Sub, E 5	Irr	Completed from 20 to 72 ft. Reported yield 100 gpm. Gravel packed.
222	City of Gorman	C. E. Reynolds	1965	98	8	98	Ktp	--	--	--	T, E	P	Slotted from 54 to 96 ft. Gravel packed. <u>1</u>
* 223	do.	Roy Parker	1962	106	--	--	do.	--	--	--	T, E 7-1/2	P	--
224	R. F. Hodge	Curtis Alford Drilling and Well Service	1966	89	8	89	do.	--	--	--	Sub, E 7-1/2	Irr	Pump set at 84 ft. Measured yield 56 gpm. Power and yield test at sprinkler on July 11, 1967. Gravel packed. <u>1</u> <u>4</u>
225	Q. D. Fuller	do.	1966	110	10	110	KA	--	65	Mar. 5, 1966	T, E 3	Irr	Slotted from 65 to 100 ft. Pump set at 95 ft. Measured yield 47.1 gpm. Power and yield test on July 10, 1967. <u>4</u>
226	do.	do.	1967	110	10	110	do.	--	65	Feb. 25, 1967	Sub, E 3	Irr	Slotted from 65 to 100 ft. Pump set at 95 ft. Measured yield 61.1 gpm. Power and yield test on July 10, 1967. Gravel packed. <u>4</u>
* 227	Doy Reynolds	N. L. Box Drilling Contractor	1966	90	8	90	do.	--	36.20	Oct. 15, 1968	Sub, E 7-1/2	Irr	Slotted from 50 to 90 ft. Estimated yield 200 gpm. Temp. 69°F.

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JD-31-51-302	E. L. Dennis	Roy Parker	1962	95	8	90	Ktp	--	54.05	July 23, 1965	N	N	Completed from 75 to 90 ft. Reported yield 100 gpm. Gravel packed.
303	Oscar Howard	do.	1958	30	8	30	do.	--	18	July 26, 1965	J, E 2	Irr	Completed from 20 to 30 ft. Gravel packed.
304	do.	do.	1959	75	7	75	do.	--	18	do.	J, E 1-1/2	Irr	Completed from 20 to 30 ft. Pump set at 30 ft. Gravel packed.
305	do.	do.	1960	35	7	35	do.	--	18	do.	C, W	Irr	Completed from 25 to 35 ft. Gravel packed.
306	Norman Parks	N. L. Box Drilling Contractor	1965	269	8	92	do.	1,383	6.87 6.45	Apr. 1, 1966 Mar. 13, 1969	Sub, E 7-1/2	Irr	Completed from 18 to 58 and 66 to 90 ft. Reported yield 150 gpm. Power and yield test on July 24, 1967. Gravel packed. Texas Water Development Board observation well. <u>1</u> <u>3</u> <u>4</u>
307	do.	do.	1965	89	8	67	do.	--	21.60	July 22, 1965	Sub, E 3	Irr	Completed from 16 to 63 ft. Reported yield 65 gpm. Power and yield test on July 24, 1967. Gravel packed. <u>1</u> <u>4</u>
52-102	Ray Burgess	--	--	--	--	--	do.	--	--	--	Sub, E 3/4	Irr	Pump set at 65 ft. Power and yield test on July 10, 1967. <u>4</u>
103	do.	Ardean Kismell Irrigation Service	1965	95	8	75	do.	--	11	Feb. 12, 1966	Sub, E 1/2	Irr	Perforated from 20 to 75 ft. Pump set at 65 ft. Power and yield test on July 10, 1969. Gravel packed. Cemented from 66 ft to surface. <u>1</u> <u>4</u>
104	do.	do.	1965	69	8	58	do.	--	11	do.	Sub, E 1	Irr	Slotted from 18 to 50 ft. Power yield test on July 10, 1967. Gravel packed. <u>1</u> <u>4</u>
* 57-101	City of Rising Star	--	1922	70	10	--	Ka	--	20	1946	T, E 7-1/2	P	Reported yield 30 gpm.
102	do.	--	1940	70	--	--	do.	--	--	--	T, E 3	P	Do.
103	do.	Curtis Alford Drilling and Well Service	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
* 104	do.	--	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
105	do.	--	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
106	do.	--	1945	70	--	--	do.	--	--	--	T, E 3	P	--
107	do.	--	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
108	do.	--	1945	70	--	--	do.	1,640	24.72 15.18	Apr. 7, 1966 Mar. 12, 1969	Sub, E 1	P	Texas Water Development Board observation well. <u>3</u>
109	do.	--	--	--	--	--	do.	--	--	--	N	N	--
110	do.	--	1945	70	--	--	do.	--	--	--	Sub, E 1	P	--
111	do.	--	1945	70	--	--	do.	--	--	--	T, E 3	P	--
112	do.	--	1945	70	--	--	do.	--	--	--	T, E 3	P	--

See footnotes at end of table.

EASTLAND COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF TEST	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JD-31-57-113	City of Rising Star	--	1945	70	--	--	Ka	--	--	--	Sub, E 1	P	--
114	do.	--	1945	70	--	--	do.	--	--	--	T, E	P	--
115	do.	--	1945	70	--	--	do.	--	--	--	N	N	Well to be plugged.
118	do.	Curtis Alford Drilling and Well Service	1967	95	12 8	45 94	do.	1,642	--	--	Sub, E	P	Slotted from 50 to 80 ft. Pump set at 88 ft. Gravel packed. ^{1/}
* 429	Weldon Fenter	do.	1964	80	6	80	do.	1,681	34.13 32.61	July 8, 1965 Mar. 12, 1969	Sub, E 1	Irr	Pump set at 76 ft. Reported yield 30 gpm. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. ^{1/} ^{2/}

* For chemical analysis of water, see Table 5.

^{1/} For drillers' log of well, see Table 3.^{2/} Electric logs in files of the Texas Water Development Board, Austin, Texas.^{3/} For water-level measurements, see Table 4.^{4/} For power and yield tests on wells, see Table 10, Volume I.

EASTLAND COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JD-30-56-201	Haynes B. Ownby Drilling Co.	Mrs. Lelia Clark No. 1-A	1953	2,858	1,733	E
412	Kerlyn Oil Co.	Fentem No. A-1	1945	3,785	1,775	S
701	Durham and Young Oil Co.	H. L. Vestal No. 1	1949	2,571	1,813	E
802	Jake T. Lake Trustee	A. A. Tyler No. 1	1949	2,501	1,705	R
903	A. R. Dillard and Frank Wood	Pearl Dill No. 1	1948	3,204	1,736	D
31-43-905	Great Western Drilling Co.	Roane No. 1	1964	3,087	1,401	R
44-604	H. M. Gogle	Lone Star Producing Co. No. 1	1955	1,876	1,505	E
605	Grace Oil Co.	Letha King No. 1	1955	1,839	1,491	E
811	Standard Oil of Texas	L. E. Clark No. 1	1954	2,803	1,327	E
49-703	Smart and Brooks	P. C. Larkin No. 1	1940	3,165	1,679	S
57-202	Coastal States Gas Producing Co.	J. E. Watkins No. 2	1961	3,006	1,654	E
203	Trumter Petroleum Corp.	W. S. Carter, et al. No. 1	1953	1,756	1,658	E
303	Coastal States Gas Producing Co.	Bertha Beal No. 1-A	—	2,790	1,532	S

EASTLAND COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-30-48-902			Well JD-31-35-602		
Owner: D. D. Jackson Driller: Jack Leonard Drilling Co.			Owner: Morris Campbell Driller: Robert Lee-Bob-Barnhill		
Sand	6	6	Soil	3	3
Sandy clay	40	46	Sand and gravel (water at 18 ft)	20	23
Gravel with clay streaks	6	52	Gravel	7	30
Coarse sand	9	61	Yellow shale	7	37
Blue shale	2	63	Blue shale	13	50
Well JD-30-56-103			Well JD-31-35-604		
Owner: W. B. Holcomb Driller: J. and L. Drilling Co.			Owner: Morris Campbell Driller: Robert Lee-Bob-Barnhill		
Soil	10	10	Soil	3	3
Sand	20	30	Sand	15	18
Water sand	18	48	Gravel (water)	20	38
Yellow	4	52	Yellow shale	6	44
Brown	10	62	Blue shale	6	50
Red	3	65			
Well JD-30-56-510			Well JD-31-36-702		
Owner: Oscar Schaefer Driller: Jack Leonard Drilling Co.			Owner: Bob Rebels Driller: Robert Lee-Bob-Barnhill		
Topsoil	4	4	Soil	3	3
White sandy clay	8	12	Gravel	15	18
Hard sand	19	31	Hard sand	1	19
White and blue clay	4	35	Gravel (water)	19	38
Sand and gravel	23	58	Red shale	12	50
Red bed	1	59	Hard sand	3	53
			Soft sand	5	58
			Brown shale	10	68
			Purple shale	12	80
Well JD-31-35-601			Well JD-31-42-505		
Owner: Morris Campbell Driller: Robert Lee-Bob-Barnhill			Owner: W. H. Hoffmann Driller: W. H. Hoffmann		
Soil	2	2	Sandy soil	15	15
Shale	4	6	Sand and streaks of shale	20	35
Sand	11	17	Sand (little water)	7	42
Gravel (water)	2	19	Sand and gravel (water)	7	49
Coarse sand	9	28	Red bed	23	72
Gravel	3	31			
Shale	19	50			

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-42-505—Continued			Well JD-31-42-509		
Sand and gravel (water)	11	83	Owner: R. G. Lyerla Driller: W. F. Smith Drilling Co.		
Lime	7	90	Topsoil	3	3
Blue shale	3	93	Pack sand	12	15
Lime	23	116	Sand rock	5	20
Shale	2	118	Water sand	10	30
Broken lime and shale	5	123	Shale	1	31
Gray shale	27	150			
Well JD-31-42-507			Well JD-31-42-901		
Owner: W. H. Hoffmann Driller: W. H. Hoffmann			Owner: Rollo Tinkler Driller: Robert Lee-Bob-Barnhill		
Sandy soil	6	6	Soil	2	2
Gray sand	12	18	Red shale	8	10
Yellow sand	7	25	Sand (water at 38 ft)	32	42
Yellow sandy clay	17	42	Hard sand	2	44
Gravel	8	50	Gravel (water)	20	64
Red bed	6	56	Shale	21	85
Gray lime	4	60			
Gray shale	13	73	Well JD-31-42-902		
Gray lime	5	78	Owner: Rollo Tinkler Driller: Robert Lee-Bob-Barnhill		
Sand and red sandy soil	13	91	Soil	2	2
Red sandy shale	21	112	Shale red	10	12
Blue shale	13	125	Sand (water at 34 ft)	24	36
Gray sandy shale	53	178	Shale red	8	44
Gray - blue water sand	13	191	Sand hard	5	49
Lime	4	195	Gravel (water)	19	68
Blue shale	7	202	Shale tan	5	73
			Sand hard	9	82
			Shale brown	10	92
Well JD-31-42-508			Well JD-31-42-903		
Owner: R. G. Lyerla Driller: W. F. Smith Drilling Co.			Owner: J. F. Guy Driller: J. T. Carson		
Topsoil	2	2	Clay	10	10
Clay	2	4	Gravel	2	12
Pack sand	25	29	Hard sand	18	30
Water sand and gravel	6	35	Sandy lime	5	35
Shale	8	43	Water sand and gravel	50	85
			Blue shale	6	91

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-42-904			Well JD-31-42-908—Continued		
			Gravel - water	30	58
			Shale	12	70
Clay	2	2	Well JD-31-43-404		
Hard sand	10	12	Owner: C. N. Adams Driller: J. T. Carson		
Sand	7	19	Soil	2	2
Sandy lime	2	21	Hard sand	18	20
Sand and gravel	41	62	Red rock	18	38
No record	10	72	Water - sand and gravel	47	85
Well JD-31-42-905			Gray shale	10	95
			Blue shale	5	100
Clay	3	3	Well JD-31-43-702		
Dry sand	14	17	Owner: C. N. Adams Driller: J. T. Carson		
Water sand and gravel	41	58	Sand	2	2
Sandy shale	10	68	Yellow clay	14	16
Well JD-31-42-906			Mud and gravel	9	25
			Red clay	5	30
Clay	3	3	Water sand	15	45
Sand	12	15	Lime	5	50
Hard sand - water	3	18	Gravel - water	25	75
Sand - water	19	37	Blue shale	65	140
Hard sand - water	27	64	Lime	2	142
Brown shale	18	82	Blue shale	8	150
Well JD-31-42-907			Well JD-31-43-703		
			Owner: C. N. Adams Driller: J. T. Carson		
Clay	4	4	Soil	2	2
Dry sand	12	16	Clay	3	5
Sand and gravel - water	37	53	Yellow clay	20	25
Shale	12	65	Hard sand	10	35
Well JD-31-42-908			Water sand	17	52
			Blue shale	24	76
Soil	1	1	Well JD-31-43-704		
Clay	7	8	Owner: C. N. Adams Driller: J. T. Carson		
Dry sand	11	19	Soil	2	2
Hard sand	9	28	Hard sand	18	20

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-43-704—Continued			Well JD-31-43-904—Continued		
Red rock	11	31	Yellow clay	2	72
Sand and gravel	44	75	Blue shale	12	84
Blue shale	13	88	Sandy lime	13	97
			Gray shale	8	105
			Pink shale	20	125
			Gray shale	3	128
			Sandy lime	3	131
			Pink shale	13	144
			Lime	9	153
			Gray shale	7	160
			Sandy shale	15	175
			Brown shale	12	187
			Sandy shale	13	200
			Gray shale	5	205
			Sandy lime	20	225
			Sand, salt water	12	237
Well JD-31-43-804			Well JD-31-44-501		
Owner: Durwood Burgess			Owner: Sam Powers		
Driller: Curtis Alford Drilling and Well Service			Driller: N. L. Box Drilling Contractor		
Soil and sand	10	10	Red clay	3	3
Sand rock	4	14	Sand and clay	13	16
Gray sand	6	20	Tight sand 44 to 51 ft (water, 8 gpm)	35	51
Sand, little water	6	26	Sand and clay	19	70
Hard rock	2	28	Coarse sand and gravel	13	83
Sand and gravel	20	48	Fine sand	22	105
Sandy, red	14	62	Gravel	10	115
Yellow, sandy	1	63	Yellow clay	5	120
Sandy water	14	77	Brown and blue shale	5	125
Red	3	80			
Well JD-31-43-903			Well JD-31-44-601		
Owner: Norman Parks			Owner: Felix Sparks		
Driller: N. L. Box Drilling Contractor			Driller: N. L. Box Drilling Contractor		
Sand	14	14	Clay	6	6
Water sand	6	20	Sand - little water at 28 ft	22	28
Gravel	3	23	Sand and clay, increase water 38 ft	10	38
Gravel and clay	7	30	Sand and clay	8	46
Lime	2	32	Water sand	14	60
Gravel and clay	22	54	Sand and gravel	9	69
Red bed	5	59			
Yellow clay	15	74			
Lime	1	75			
Blue shale	2	77			
Well JD-31-43-904			Well JD-31-44-601		
Owner: Norman Parks			Owner: Felix Sparks		
Drilling: N. L. Box Drilling Contractor			Driller: N. L. Box Drilling Contractor		
Soil	2	2	Clay	6	6
Red clay	3	5	Sand - little water at 28 ft	22	28
Water sand	12	17	Sand and clay, increase water 38 ft	10	38
Sand and gravel	27	44	Sand and clay	8	46
Yellow clay	2	46	Water sand	14	60
Sand and gravel	24	70	Sand and gravel	9	69

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-44-601—Continued			Well JD-31-44-805—Continued		
Lime and gravel	4	73	Red clay	16	35
Gravel and clay	9	82	White sand	10	45
Yellow clay	51	133	Hard sand	3	48
Broken lime	5	138	Gravel	23	71
Blue shale	49	187	Yellow and blue clay	9	80
Well JD-31-44-801			Well JD-31-51-103		
Owner: Magnolia Petroleum Co. Driller: Unknown			Owner: T. H. Birdsong III Driller: Curtis Alford Drilling and Well Service		
Topsail	1	1	Soil	2	2
Mixed clay	21	22	Gray shale	6	8
Water sand - 1 bph	6	28	Sandy	16	24
Red clay	12	40	Sand rock	1	25
Water sand - 50 bph	26	66	Sandy lime	13	38
Yellow clay	44	110	Lime and sand	14	52
Blue shale	93	203	Gravel and sand water	12	64
Lime	11	214	Yellow and red shale	18	82
Blue shale	16	230			
Lime	7	237	Well JD-31-51-104		
Water sand - 3 bph	12	249	Owner: T. H. Birdsong III Driller: Curtis Alford Drilling and Well Service		
Blue shale	34	283	Sand	27	27
Well JD-31-44-804			Sand rock	1	28
Owner: L. E. Sharp Driller: Lightfoot and McCrum			Sand, little water	11	39
Sand	1	1	Hard sand rock	2	41
Red clay	5	6	Sand and gravel water	9	50
Sand and gravel	13	19	Hard, sandy lime rock	2	52
Red clay	16	35	Gravel and sand water	14	66
White sand	10	45	Yellow and red shale	15	81
Sandy lime	2	47	Well JD-31-51-105		
Gravel	24	71	Owner: —Preston Driller: Robert Lee-Bob-Barnhill		
Yellow and blue clay	8	79	Sand	6	6
Well JD-31-44-805			Yellow shale	6	12
Owner: L. E. Sharp Driller: Lightfoot and McCrum			Sand (water at 17 ft)	5	17
Sand	1	1	Lime	10	27
Red bed	4	5	Shale, white	5	32
Sand and gravel	11	16	Sand (increase of water)	8	40
Water sand	3	19	Shale, blue	10	50

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-51-205			Well JD-31-51-212—Continued		
Owner: City of Gorman Driller: H. B. Norton			Soft sand		
Clay	4	4		2	47
White sand	26	30	Hard sand	1	48
Brown sand	10	40	Soft sand (water at 49 ft)	21	69
White sand	18	58	Gravel	5	74
Sand rock	2	60	Hard sand	4	78
Red clay	9	69	Gravel	10	88
Water sand	5	74	Shale	12	100
Clay	3	77	Well JD-31-51-214		
Water sand	10	87	Owner: Charles Underwood Driller: Robert Lee-Bob-Barnhill		
Brown clay	5	92	Soil	2	2
Water sand	12	104	Sand	12	14
Blue clay	3	107	Hard sand	3	17
Sandy clay	6	113	Water sand	3	20
Well JD-31-51-211			Hard sand	3	23
Owner: O. R. Buchanan Driller: Curtis Alford Drilling and Well Service			Soft sand	2	25
Sand and clay	3	3	Hard sand	7	32
Sand and gravel	22	25	Water gravel	8	40
Red bed clay	3	28	Hard sand	5	45
Sand	10	38	Soft sand	7	52
Sand rock (little water)	2	40	Hard sand	4	56
Hard, sandy lime rock	3	43	Red shale	12	68
Hard sand (little water)	12	55	Well JD-31-51-215		
Red bed	3	58	Owner: Lizzie Jackson Driller: Texas Irrigation Sales, Inc.		
Hard sand rock	2	60	Sand and topsoil	2	2
Sandy	4	64	Gray limestone	1	3
Sand and gravel	19	83	Sand and gravel	9	12
Gray shale	7	90	Sand and gravel	6	18
Well JD-31-51-212			Yellow clay	3	21
Owner: O. R. Buchanan Driller: Robert Lee-Bob-Barnhill			Sand and gravel	12	33
Shale	2	2	Yellow clay	12	45
Shale and sand	6	8	Blue shale	43	88
Sand	29	37	Dark shale	8	96
Hard sand	1	38	Well JD-31-51-222		
Soft sand	5	43	Owner: City of Gorman Driller: C. E. Reynolds		
Hard sand	2	45	Dry sand	41	41
			Dry hard sand	4	45

Table 3.—Drillers' Logs of Selected Wells in Eastland County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-52-104—Continued			Well JD-31-57-118—Continued		
Blue shale	4	50	Sand and gravel - water	15	80
Brown shale	6	56	Hard lime rock	9	89
Blue shale	13	69	Yellow and brown shale	6	95
Well JD-31-57-118			Well JD-31-57-429		
Owner: City of Rising Star			Owner: Weldon Fenter		
Driller: Curtis Alford Drilling and Well Service			Driller: Curtis Alford Drilling and Well Service		
Soil	4	4	Soil	.5	.5
Red clay	6	10	Red clay	2.5	3
Sand	10	20	Sand	32	35
Water sand	10	30	Sand rock	2	37
Red bed	4	34	Water sand - little water	10	47
Blue soapstone	11	45	Sand and gravel (tested 12 gpm)	11	58
Soapstone	5	50	Red bed	6	64
Water sand	5	55	Sand rock	2	66
Sand and shale	5	60	Water sand - bailed 28 to 30 gpm	11	77
Sandy lime, hard	2	62	Lime rock	3	80
Hard sand - water	3	65			

EASTLAND COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well JD-30-48-201		Well JD-30-56-502—Continued		Well JD-31-35-604—Continued	
Owner: G. M. Waters		Sept. 11, 1967	30.77	Feb. 5, 1968	20.69
May 17, 1937	6	Oct. 3, 1967	29.72	Mar. 13, 1969	18.80
Apr. 7, 1966	8.80	Nov. 7, 1967	29.14	Well JD-31-36-702	
Mar. 15, 1967	9.16	Dec. 4, 1967	28.68	Owner: Bob Rebels	
Mar. 12, 1969	8.04	Jan. 3, 1968	28.55	Sept. 9, 1965	16
Well JD-30-48-701		Feb. 5, 1968	28.38	Oct. 21, 1965	14.14
Owner: W. T. Rutherford		Mar. 12, 1969	26.36	Apr. 1, 1966	13.73
Mar. 17, 1937	10	Well JD-30-56-510		Mar. 13, 1969	14.86
Apr. 7, 1966	13.63	Owner: Oscar Schaefer		Well JD-31-41-701	
Mar. 15, 1967	13.48	July 7, 1965	30.41	Owner: C. Livingston	
Mar. 12, 1969	10.79	Apr. 7, 1966	28.04	May 17, 1937	7
Well JD-30-48-901		Mar. 15, 1967	23.47	Mar. 14, 1967	6.84
Owner: D. D. Jackson		Mar. 12, 1969	18.89	Mar. 5, 1969	5.24
Mar. 12, 1969	31.76	Well JD-31-35-604		Well JD-31-42-505	
Well JD-30-56-407		Owner: Morris Campbell		Owner: W. H. Hoffmann	
Owner: W. F. Lilley		Oct. 12, 1965	18.56	Apr. 6, 1966	22.18
July 8, 1965	43.21	Apr. 1, 1966	19.29	Mar. 14, 1967	20.50
Apr. 7, 1966	43.30	Aug. 31, 1966	19.26	Mar. 21, 1968	20.37
July 6, 1967	41.33	Sept. 27, 1966	19.26	Mar. 12, 1969	19.39
Mar. 21, 1968	35.61	Nov. 2, 1966	19.31	Well JD-31-42-806	
Mar. 12, 1969	39.66	Nov. 29, 1966	19.27	Owner: Clyde Barbee	
Well JD-30-56-502		Jan. 4, 1967	19.43	Apr. 6, 1966	31.79
Owner: Cowan Hutton		Feb. 9, 1967	19.38	Mar. 14, 1967	31.28
Jan. 19, 1961	22	Mar. 14, 1967	19.64	Mar. 12, 1969	29.20
Sept. 1, 1966	31.23	May 3, 1967	19.79	Well JD-31-43-702	
Sept. 27, 1966	29.75	June 8, 1967	19.94	Owner: C. N. Adams	
Nov. 2, 1966	29.28	July 5, 1967	20.09	Sept. 27, 1966	16.63
Nov. 29, 1966	28.86	Aug. 3, 1967	20.28	Nov. 2, 1966	15.84
Jan. 4, 1967	28.69	Sept. 11, 1967	20.59	Nov. 29, 1966	16.10
Feb. 7, 1967	28.20	Oct. 3, 1967	20.74	Jan. 4, 1967	15.90
Mar. 15, 1967	28.66	Nov. 7, 1967	20.83	Feb. 9, 1967	16.67
May 4, 1967	28.20	Dec. 4, 1967	20.78	May 3, 1967	16.40
June 7, 1967	27.92	Jan. 3, 1968	20.84		

Table 4.—Water Levels in Selected Wells in Eastland County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well JD-31-43-702—Continued		Well JD-31-44-502		Well JD-31-51-211—Continued	
June 7, 1967	16.09	Owner: Sam Powers		Dec. 4, 1967	46.09
July 5, 1967	16.21	Apr. 6, 1966	38.97	Jan. 3, 1968	45.70
Oct. 3, 1967	17.92	Mar. 14, 1967	38.42	Feb. 5, 1968	45.64
Nov. 7, 1967	17.25	Mar. 13, 1969	36.17	Mar. 12, 1969	44.91
Dec. 4, 1967	16.98	Well JD-31-44-802		Well JD-31-51-215	
Jan. 3, 1968	16.78	Owner: L. E. Clark		Owner: Lizzie Jackson	
Feb. 5, 1968	16.44	Jan. 24, 1961	30	Apr. 6, 1966	24.61
Mar. 12, 1969	15.13	Apr. 1, 1966	28.25	Mar. 14, 1967	25.34
Well JD-31-43-803		Mar. 14, 1967	32.54	Mar. 21, 1968	26.76
Owner: R. W. Eaves		Mar. 21, 1968	30.77	Mar. 12, 1969	26.44
July 22, 1965	3.56	Mar. 13, 1969	31.97	Well JD-31-51-306	
Apr. 6, 1966	6.14	Well JD-31-44-804		Owner: Norman Parks	
Mar. 14, 1967	6.25	Owner: L. E. Sharp		Apr. 1, 1966	6.87
Mar. 12, 1969	6.23	Oct. 12, 1965	48.52	Mar. 14, 1967	5.68
Well JD-31-44-401		Apr. 1, 1966	47.27	Mar. 21, 1968	2.65
Owner: W. A. Logan		Mar. 14, 1967	49.33	Mar. 13, 1969	6.45
June 17, 1937	23	Mar. 13, 1969	48.76	Well JD-31-57-108	
Apr. 1, 1966	21.96	Well JD-31-51-211		Owner: City of Rising Star	
Aug. 31, 1966	22.84	Owner: O. R. Buchanan		Apr. 7, 1966	24.72
Sept. 27, 1966	22.30	July 22, 1965	42	Mar. 15, 1967	26.51
Nov. 2, 1966	22.27	July 23, 1965	44.07	Mar. 21, 1968	19.94
Nov. 29, 1966	22.13	Apr. 6, 1966	43.21	Mar. 12, 1969	15.18
Jan. 4, 1967	22.18	Sept. 1, 1966	45.05	Well JD-31-57-429	
Feb. 9, 1967	21.92	Sept. 27, 1966	43.94	Owner: Weldon Fenter	
Mar. 14, 1967	21.90	Nov. 2, 1966	43.82	July 8, 1965	34.13
May 3, 1967	21.84	Nov. 29, 1966	43.50	Apr. 7, 1966	34.75
June 8, 1967	22.13	Jan. 4, 1967	43.76	Mar. 15, 1967	34.92
July 5, 1967	22.18	Mar. 14, 1967	44.29	Mar. 12, 1969	32.41
Aug. 3, 1967	23.03	May 3, 1967	43.79		
Sept. 11, 1967	23.78	June 7, 1967	43.49		
Oct. 3, 1967	23.66	July 5, 1967	43.46		
Dec. 4, 1967	23.24	Aug. 3, 1967	49.27		
Jan. 3, 1968	23.05	Sept. 11, 1967	49.53		
Feb. 5, 1968	22.50	Oct. 3, 1967	47.38		
Mar. 13, 1969	22.03	Nov. 7, 1967	46.64		

EASTLAND COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells:

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kw, Woodbine Group; Ke, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kg, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khr, Hensell Member of the Travis Peak Formation; Kpe, Pearball Member of the Travis Peak Formation; Khe, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
y Jn-30-48-201	29	May 17, 1937	Ka	--	--	--	--	--	--	329	74	82	--	--	--	--	--	--	--	--	--	--	--
y 701	35	do.	do.	--	--	--	--	--	--	244	37	80	--	--	--	378	--	--	--	--	--	--	--
56-409	138	July 8, 1965	do.	10	--	91	31	36	--	387	38	54	0.9	< 0.4	--	650	451	356	18	779	7.5	0.8	
501	70	July 23, 1968	do.	17	--	114	25	60	3.0	428	32	87	.5	< .4	0.4	550	--	388	25	954	7.2	1.3	
509	56	July 7, 1965	do.	29	--	57	9	26	--	146	27	56	.4	10	--	360	286	179	24	500	6.8	.8	
512	42	July 8, 1965	do.	33	--	46	15	399	--	630	167	234	2	< .4	--	1,530	1,206	175	83	1,930	7.5	13.1	
514	48	do.	do.	20	--	145	20	159	--	235	136	314	.7	1.5	--	1,030	912	443	44	1,610	6.9	3.3	
901	65	July 6, 1965	do.	21	--	93	20	32	--	359	24	39	.5	25	--	610	432	317	19	715	7.3	.8	
64-202	42	Mar. 3, 1969	do.	31	--	492	90	600	--	270	96	1,810	.4	40	--	3,290	--	1,600	45	5,340	6.9	6.5	
301	80	July 23, 1968	do.	17	--	96	23	40	3	295	31	91	.5	16.5	.1	461	--	336	20	806	7.4	.9	
608	41	Mar. 14, 1969	do.	18	--	392	73	201	--	306	275	489	1	648	--	2,250	--	1,280	25	3,090	7.2	2.4	
31-35-604	50	Oct. 12, 1965	do.	13	--	30	6	37	--	156	21	16	1	3	--	283	204	98	45	350	7.3	1.6	
36-702	80	July 22, 1968	do.	13	--	51	6	53	2	192	48	37	.5	2	.1	305	--	152	43	520	7.2	1.9	
y 41-701	187	May 17, 1937	Ka, P	--	--	--	--	--	--	--	771	590	--	--	--	--	--	--	--	--	--	--	--
701	187	Mar. 5, 1969	do.	48	--	59	19	171	--	315	210	88	4	< .4	--	750	--	227	62	1,120	7.7	5.0	
42-510	36	do.	Ka	25	--	940	177	2,060	--	322	33	5,200	.9	< .4	--	8,600	--	3,080	59	< 12,000	6.8	16.2	
806	65	Oct. 20, 1965	do.	14	--	401	97	278	--	540	254	880	.6	6.5	--	2,470	2,197	1,400	30	3,600	7.0	3.2	
902	92	July 22, 1968	do.	18	--	174	10	62	4	351	26	200	.1	5.5	.2	670	--	476	22	1,186	7.1	1.2	
43-803	90	July 22, 1965	do.	17	--	53	2	3	--	194	10	3	.5	27.0	--	250	182	142	4	300	7.3	.1	
y 44-401	37	June 17, 1937	do.	--	--	--	--	--	--	--	60	615	--	--	--	--	--	--	--	--	--	--	--
501	125	July 21, 1965	Ktp	17	--	132	13	114	--	296	71	213	2.4	23	--	880	731	382	39	1,270	7.1	2.5	
y 601	88	Jan. 17, 1961	do.	18	--	119	13	* 38.9	--	348	26	80	--	11	.08	518	477	350	19	845	7.0	.9	
802	80	Jan. 24, 1961	do.	18	0.00	111	11	* 39.6	--	323	19	82	.2	12	.04	497	452	322	21	797	7.2	.9	
805	80	July 22, 1968	do.	21	--	88	9	25	3	238	18	57	.3	13	.1	348	--	259	17	604	7.5	.7	
y 51-203	105	Jan. 18, 1961	Ka	22	--	124	11	* 70.1	--	205	48	173	--	52	.05	708	601	354	30	1,060	7.2	1.6	

See footnotes at end of table.

EASTLAND COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
JD-31-51-203	105	July 22, 1965	Ka	19	--	115	9	78	--	243	46	172	0.4	17	--	700	575	327	34	1,030	7.1	1.9
204	108	Jan. 28, 1953	Ktp	20	0.36	352	29	144	--	645	236	476	.1	35	--	1,640	1,511	997	24	--	7.0	1.9
205	113	Jan. 28, 1953	Ktp	16	.06	194	16	79	--	272	71	209	.1	44	--	875	763	550	24	--	7.1	1.5
205	113	June 1, 1962	do.	--	.06	214	24	75	--	378	48	305	.1	7.7	--	1,170	860	635	20	1,960	6.9	1.3
Y 206	100	Feb. 6, 1946	do.	10	.30	226	15	* 104	--	402	45	311	.0	30	--	939	--	626	27	1,730	7.2	1.8
206	100	Jan. 28, 1953	do.	33	.9	195	13	115	--	403	77	259	.1	19	--	990	910	540	32	--	7.1	2.1
206	100	June 1, 1962	do.	--	.92	230	24	110	--	395	73	360	.1	15.6	--	1,380	1,008	675	26	2,300	6.9	1.8
Y 207	84	Feb. 6, 1946	do.	14	.16	285	17	* 126	--	408	89	409	.0	54	--	1,270	1,195	782	26	2,170	7.1	1.9
207	84	June 11, 1962	do.	--	.07	260	22	112	--	398	86	380	.1	26.3	--	1,440	1,082	740	25	2,400	6.8	1.8
208	120	June 1, 1962	do.	--	.01	244	21	126	--	415	71	405	.2	28.5	--	1,260	1,100	695	28	2,100	6.9	2.1
209	106	do.	do.	--	.12	190	22	64	--	373	51	215	.1	27.9	--	1,080	753	565	20	1,800	6.8	1.2
Y 210	106	Feb. 6, 1946	do.	14	.08	181	14	* 42	--	396	45	147	.0	13	--	742	651	509	15	1,210	7.2	0.8
210	106	June 1, 1962	do.	--	.25	206	17	98	--	306	51	290	.1	56	--	1,080	898	585	27	2,400	6.8	1.8
214	68	July 23, 1965	do.	20	--	200	14	83	--	386	38	273	.3	10	--	1,020	828	556	24	1,500	7.5	1.5
215	96	July 26, 1965	Ka	21	--	226	14	98	--	375	60	323	.3	11	--	1,130	937	620	26	1,660	7.1	1.7
217	100	July 21, 1965	do.	33	--	63	5	55	--	279	24	23	1.1	25	--	510	366	180	40	580	7.5	1.8
218	60	July 22, 1968	do.	12	--	124	12	53	4	320	33	116	.5	10.5	0.3	520	--	358	24	912	7.3	1.2
223	106	Sept. 22, 1962	Ktp	--	.08	165	12	38	--	371	23	150	.1	8	--	767	578	462	15	1,200	7.5	.8
227	90	Oct. 15, 1968	Ka	3	--	262	14	109	4	362	66	418	.5	2.5	.2	1,050	--	715	25	1,840	7.5	1.8
Y 57-101	70	Feb. 4, 1946	do.	16	.04	98	46	* 35.6	--	398	30	105	.0	.0	--	569	527	434	15	982	7.3	.7
Y 104	70	do.	do.	22	.08	111	30	* 115.3	--	426	62	143	.2	35	--	883	727	400	39	1,260	7.0	2.5
429	80	July 8, 1965	do.	14	--	97	18	74	--	468	34	25	1.8	20	--	750	514	316	34	834	7.4	1.8

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS

1/ U.S. Geological Survey Laboratory
 2/ The University of Texas

EASTLAND COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
—a/	3500 feet sand	Regular	3,500	K-8	11,034	1,960	41,932	99	191	89,722	143,970	6.15
—a/	do.	do.	—	K-8	3,229	2,025	15,597	80	0	35,629	57,560	6.15
—a/	3,400 feet sand	do.	—	K-8	6,324	2,335	27,324	133	28	60,048	95,667	6.32
—a/	do.	do.	—	K-8	6,190	2,090	25,330	114	9	56,045	89,517	6.25
—a/	—	7 mi. N Eastland	—	K-8	3,975	815	—	—	—	38,800	68,300	6.1
—a/	—	do.	—	K-8	9,860	1,540	—	—	180	86,200	159,700	5.9
—a/	—	7 mi. W Ranger	—	K-8	6,940	1,030	—	—	145	68,100	126,300	6.2
—a/	—	do.	—	K-8	10,100	1,600	—	—	205	87,100	162,900	5.7
—a/	—	5 mi. NW Ranger	—	K-8	3,985	1,620	—	—	—	59,900	140,000	6.2
—a/	—	do.	—	K-8	2,610	1,560	—	—	—	18,600	30,100	6.4
—a/	—	do.	—	K-8	4,675	1,595	—	—	—	63,900	112,000	6.3
—a/	—	do.	—	K-8	4,920	1,680	—	—	—	65,900	118,300	6.2
—a/	—	do.	—	K-8	5,120	2,095	—	—	—	72,500	129,500	6.1
—a/	—	4 mi. W Ranger	—	P-8	7,090	1,180	—	—	170	68,500	124,800	5.7
—a/	—	do.	—	P-8	6,080	1,210	—	—	—	60,000	107,200	5.9
—a/	—	6 mi. SW Ranger	—	P-8	5,030	1,060	—	—	180	51,400	94,500	6.3
—a/	—	do.	—	P-8	2,315	515	—	—	125	28,730	42,300	6.3
—a/	—	do.	—	P-8	8,350	1,270	—	—	500	74,600	139,100	5.6
—a/	—	do.	—	P-8	4,230	755	—	—	—	44,300	80,500	5.7
—a/	—	do.	—	P-8	—	270	—	—	—	8,060	14,900	6.1

Table 6.—Chemical Analyses of Oil-Field Brines in Eastland County—Continued

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
<u>a/</u>	—	6 mi. SW Ranger	—	P-8	1,180	415	—	—	255	23,660	38,300	6.4
<u>a/</u>	—	do.	—	P-8	1,770	620	—	—	285	31,700	58,300	6.3
<u>d/</u>	—	Isett	—	K-3	9,300	3,150	37,000	37	50	84,200	133,700	6.1
Pennsylvanian ^{b/}	Strawn	Ranger	1,350	P-8	6,631	1,684	26,958	161	342	57,860	—	6.5
Do. ^{b/}	do.	Strawn	1,150	P-8	6,213	1,659	25,450	108	0	55,005	—	6.4
Do. ^{b/}	Caddo	Keel-Caddo	2,906	K-5	7,880	3,010	34,600	299	5	76,000	—	6.6
Do. ^{b/}	Lake sand	Bankline-Owen	3,300	P-3	10,520	1,320	40,100	171	242	84,000	—	6.8
Do. ^{b/}	do.	Cisco West	3,548	K-4 and K-5	12,100	1,655	43,904	74	138	93,780	—	4.7
Do. ^{b/}	do.	Lee Ray	3,500	P-3	13,150	2,737	42,700	184	96	97,030	—	6.2
Do. ^{b/}	Marble Falls	Kirk	3,000	K-10	7,680	339	29,800	126	945	59,800	—	6.6
Do. ^{b/}	Duffer	Cisco Lake	3,890	P-3	12,850	1,659	40,750	191	172	90,210	—	6.7
Do. ^{c/}	Lake sand	Bankline-Owen	3,300	P-3	10,310	1,524	39,650	173	183	83,600	—	6.4
Do. ^{b/}	Ranger sand	Aaron	3,100	K-7 and P-3	2,833	857	19,150	168	214	36,810	—	6.9
Mississippian ^{b/}	Mississippian	do.	3,400	P-3	3,382	606	24,195	300	454	44,450	—	7.2
Do. ^{b/}	do.	do.	3,400	P-3	2,306	718	25,501	369	378	45,010	—	7.3
Do. ^{c/}	do.	Hittson	3,700	P-3	8,370	833	26,000	207	678	56,500	—	5.7

^{a/} Analyses obtained from data accompanying Railroad Commission of Texas' 1967 Salt Water Production and Disposal questionnaires.

^{b/} Analyses obtained from Laxson and others, 1960.

^{c/} Analyses obtained from BJ Service, Inc., 1960.

^{d/} Analyses obtained by Texas Water Development Board.

SHACKELFORD COUNTY

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STEPHENS COUNTY

COUNTY

PALO PINTO COUNTY

EXPLANATION

Public supply well

Industrial well

Irrigation well

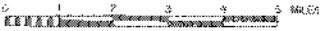
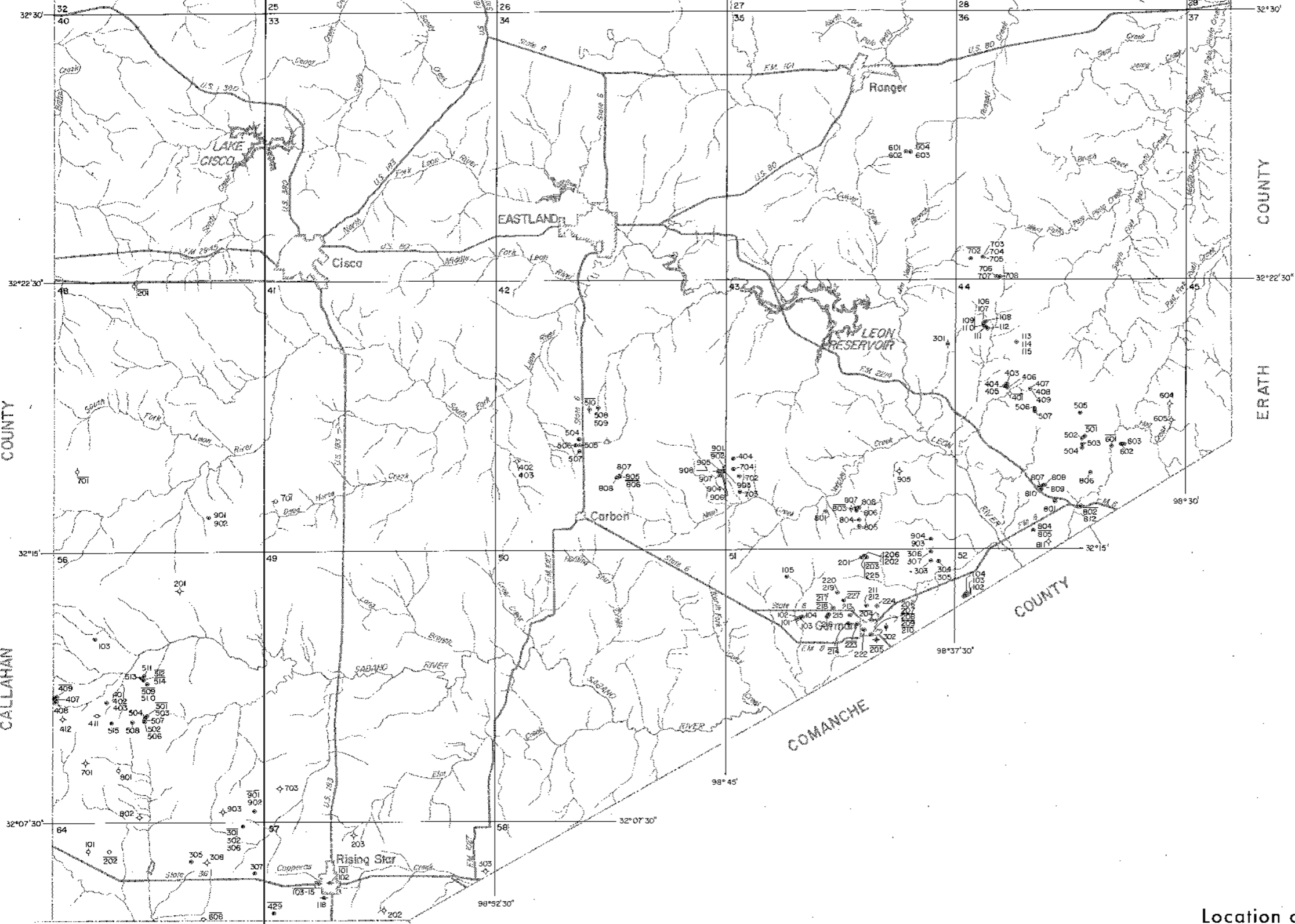
Domestic or livestock well

Oil or gas well

Unused or abandoned well

Solid circle indicates flowing well

Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in Eastland County

BROWN COUNTY

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ELLIS COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kvb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Kbe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kno, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JK-32-48-901	H. P. Irving	G. M. Stoner Drilling Co.	1965	384	4	384	Kvb	581	168.6	June 22, 1965	T, E 3/4	D, S	Well used in 1967 Ellis County report. Perforated from 355 to 365 ft. Reported yield 10 gpm.
* 33-25-902	Sardis-Lone Elm Water Supply Corp.	J. L. Myers Sons	1964	2,763	10 7 6	-- -- --	Kbe	769	625 659.1	Dec. 1964 June 24, 1965	T, E 60	P	Well used in 1967 Ellis County report. Screened from 2,565 to 2,581, 2,592 to 2,617, 2,632 to 2,650, and 2,664 to 2,699 ft. Estimated yield 250 gpm. ²⁾
* 41-501	Buena-Vista Water Supply Corp.	do.	1965	2,606	7	2,606	do.	690	458.8	June 16, 1965	T, E	P	Well used in 1967 Ellis County report. Screened from 2,450 to 2,456, 2,466 to 2,472, 2,480 to 2,489, 2,493 to 2,506 and 2,516 to 2,520 ft. Estimated yield 150 gpm. Temp. 109°F. ²⁾
49-201	R. S. LeSage	Lesco, Inc.	1944	2,559	8	2,559	Kp	525	--	--	--	--	Well used in 1967 Ellis County report. Perforated from 1,415 to 1,463 ft. Well was drilled as oil test and completed as water well. ²⁾
* 57-201	City of Milford	R. H. Bearing and Son	1916	2,592	6 4	-- 2,592	Kno	650	62 173.1	1946 Feb. 13, 1961	T, E 30	P	Well used in 1967 Ellis County report. Perforated. Well reported flowed 145,000 gpd or 101 gpm when drilled. Temp. 101°F. ¹⁾
* 202	do.	J. L. Myers Sons	1964	900	8 4	-- 900	Kvb	650	370 384.7	June 1964 June 4, 1964	T, E	P	Well used in 1967 Ellis County report. Screened from 744 to 786, 789 to 803, and 824 to 845 ft. Estimated yield 136 gpm. Temp. 86°F. ¹⁾ ²⁾
* 205	W. E. Borgers	do.	1962	822	4	822	do.	592	250 292.1	Apr. 1962 July 14, 1965	T, E 1-1/2	D	Well used in 1967 Ellis County report. Perforated from 799 to 822 ft. Reported yield 10 gpm. Temp. 80°F.

* For chemical analysis of water, see Table 5.
¹⁾ For drillers' log of well, see Table 3.
²⁾ Electric logs in files of the Texas Water Development Board, Austin, Texas.

ELLIS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JK-33-49-101	Lesco, Inc.	R. S. Lesage No. 1	1944	2,898	710	E
50-601	L. H. Hughey and S. L. Carpenter	Martha Cass Fester No. 1	1946	3,007	435	E
58-101	Geologic Enterprises	Bennett No. 1	1962	1,900	505	—

ELLIS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JK-33-57-201			Well JK-33-57-201—Continued		
Owner: City of Milford Driller: R. H. Dearing and Son			Soapstone		
Topsoil	3	3		19	2,136
Rock, white	307	310	Sand, hard, mineral	9	2,145
Shale, blue	330	640	No record	15	2,160
Sand	9	649	Sand, hard, mineral	8	2,168
Shale	15	664	Shale, blue	7	2,175
Sand	14	678	Sand, hard, mineral	32	2,207
Shale	36	714	Limestone, hard	43	2,250
Sand	6	720	Shale	25	2,275
Shale	25	745	Limestone	10	2,285
Sand	53	798	Marl, red	19	2,304
Shale	178	976	Shale	36	2,340
Limestone, hard	224	1,200	Marl, red	25	2,365
Marl, white	25	1,225	Limestone	35	2,400
Limestone, hard	89	1,314	Marl, red	18	2,418
Marl, white	56	1,370	Sandrock	10	2,428
Limestone, hard	75	1,445	Marl, red	7	2,435
Shale	10	1,455	Sand	15	2,450
Sand rock, very hard	7	1,462	Marl, red	20	2,470
Sand, good	23	1,485	Sand, good	118	2,588
Shale	7	1,492	Sand rock, very hard	4	2,592
Lime, hard	58	1,550			
Soapstone	15	1,565	Well JK-33-57-202		
Marl	55	1,620	Owner: City of Milford Driller: J. L. Myers Sons		
Limestone, soft	30	1,650	Surface soil	4	4
Limestone, hard	174	1,824	Chalk, rock	311	315
Marl, white	11	1,835	Shale	351	666
Limestone, hard	160	1,995	Sand	19	685
Marl	7	2,002	Shale	63	748
Limestone, hard	26	2,028	Sand	15	763
Limestone, soft	47	2,075	Shale	4	767
Soapstone	20	2,095	Sand	27	794
Limestone, hard	10	2,105	Sand, broken	28	822
Sand, mineral	5	2,110	Sand	30	852
Limestone, hard	7	2,117	Sand and shale	8	860
			Shale	40	900

ELLIS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Bossen Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.

"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

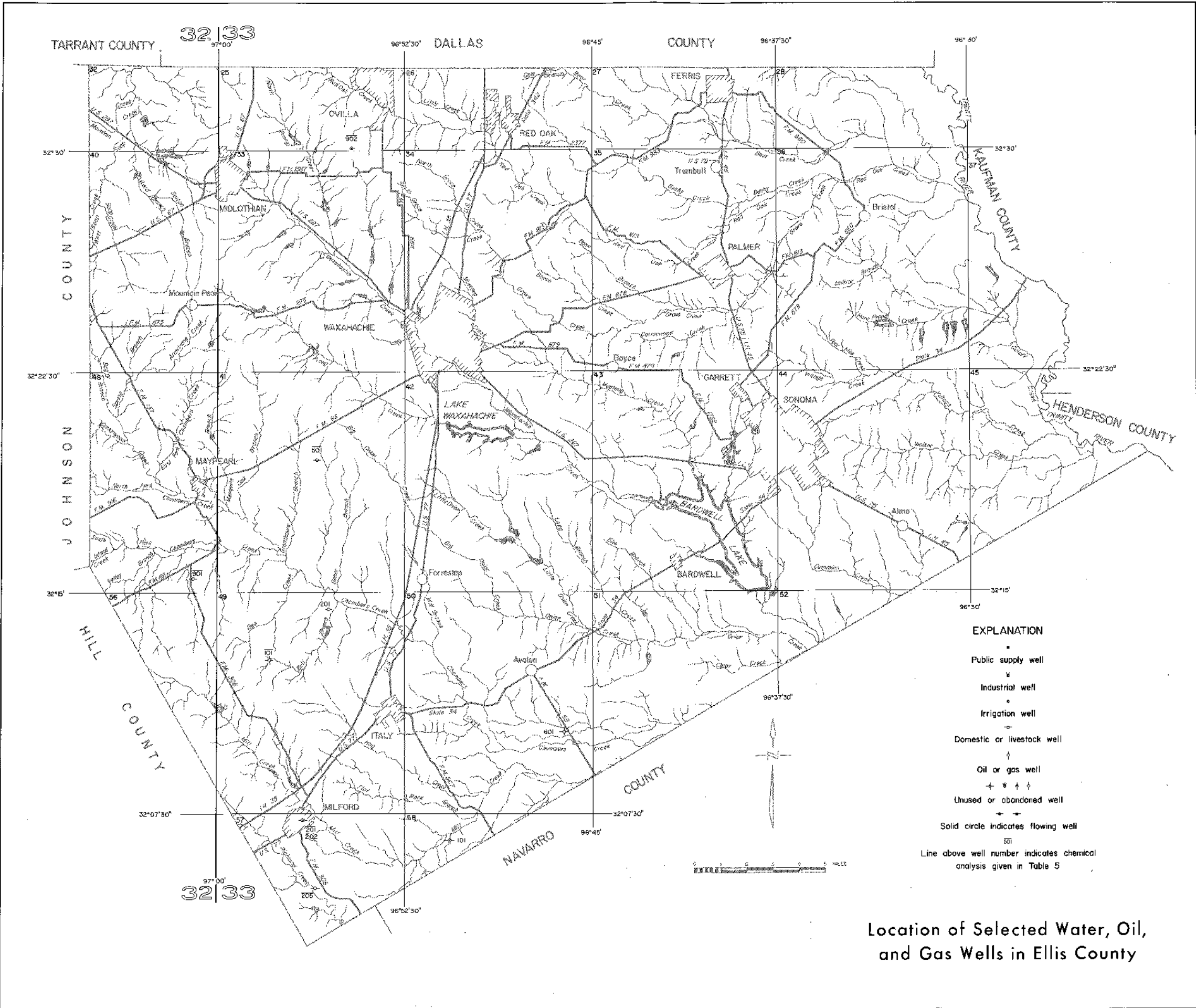
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
JK-32-48-901	384	June 22, 1965	Kwb	--	--	--	--	--	--	620	353	51	--	0.0	--	--	--	10	--	1,820	8.1	--
33-25-902	2,763	Dec. 28, 1964	Kho	15	0.1	4	1.9	* 312	--	520	98	91	1.7	.6	--	1,068	780	18	97	--	8.5	32.3
902	2,763	June 25, 1965	do.	20	.04	2.2	1.1	300	1.8	552	97	84	1.6	.0	0.62	779	--	10	98	1,310	8.1	40.8
41-501	2,606	May 24, 1965	do.	16	.15	2.4	1.5	* 303	--	510	86	76	1	--	--	1,032	737	12	98	--	8.5	37.7
501	2,606	June 25, 1965	do.	20	.23	2.5	1	297	1.8	556	86	76	1.4	.0	.66	759	--	10	98	1,270	8.0	40.4
57-201	2,592	Jan. 1943	do.	14	.04	13	5.2	358	7.8	439	245	110	1.2	.0	--	1,010	970	54	92	--	8.4	21.3
201	2,592	Mar. 21, 1949	do.	20	.10	14	6.8	* 379	--	500	287	111	1.4	1.2	.78	1,080	1,068	63	93	1,690	8.4	20.9
201	2,592	Feb. 1, 1962	do.	--	.06	26	11	* 415	--	473	440	98	2	.7	--	1,368	1,226	110	89	--	--	17.2
202	900	June 4, 1964	Kwb	--	.20	4	1	* 520	--	590	496	77	3.2	< .4	--	1,680	1,392	14	99	2,475	8.3	61.1
202	900	June 4, 1965	do.	12	.06	3	1.6	514	2	612	516	79	2	.2	2.5	1,430	--	14	99	2,250	8.2	60.4
205	822	July 14, 1965	do.	14	--	1.5	.9	* 356	--	674	151	48	1.4	.2	--	904	--	7	99	1,450	8.2	59.6

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

- 1 U.S. Geological Survey Laboratory
- 2 Pope Testing Laboratories



ERATH COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Faluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensall Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane, or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (1) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JP-31-38-802	T. G. Sellers	--	--	60	5	60	Ktp	1,255	28.4	Mar. 11, 1969	J, E	S	Temp. 64°F.
39-502	-- Fruchauf	Terry Drilling and Supply Co.	1955	308	10	308	do.	1,175	62.22 62.73	Oct. 28, 1965 Mar. 27, 1969	Sub, E I-1/2	D, S	Completed from 137 to 159 ft. Pump set at 129 ft. Measured yield 17.7 gpm. Power and yield test on Aug. 16, 1967. Texas Water Development Board observation well. <u>Y G S</u>
* 901	Morgan Hill Water Supply Corp.	Jack Leonard Drilling Co.	1968	35	20 6	20 35	Kho	1,040	10	Mar. 3, 1963	Sub, E 1-1/2	P	Perforated from 28 to 32 ft. Pumping level 28 ft at 36 gpm in Mar. 1968. Pump set at 32 ft. Estimated yield 35 gpm. Gravel packed. Cemented from 12 ft to surface. <u>Y</u>
* 902	do.	do.	1968	32	20 6	12 32	do.	1,035	10	Mar. 5, 1968	Sub, E 1/2	P	Perforated from 21 to 25 ft. Pumping level 28 ft at 10 gpm in Mar. 1968. Pump set at 30 ft. Gravel packed. <u>Y</u>
44-901	Richard Krapf	Terry Drilling and Supply Co.	1952	144	7	144	Khe, Kho	1,395	--	--	Sub, E	Irr	Completed from 63 to 70 and 93 to 139 ft. Reported yield 200 gpm. Gravel packed. Well drilled to 219 ft and plugged back to 144 ft. <u>Y</u>
902	do.	do.	--	174	8	174	Ktp	1,420	--	--	Sub, E	Irr	Pump set at 174 ft. Reported yield 265 gpm. Gravel packed.
* 903	L. E. Singleton	B. G. Watson	1966	105	8	105	do.	1,390	--	--	Sub, E	Irr	Slotted from 30 to 90 ft. Gravel packed.
* 904	do.	George Parker	1964	125	7	125	do.	1,373	35 34.33	Mar. 11, 1964	Sub, E	Irr	Completed from 49 to 125 ft. Gravel packed. Temp. 68°F. Texas Water Development Board observation well. <u>Y</u>
905	Mobil Oil Corp.	--	1920	150	7	150	do.	1,455	--	--	C, E 10	Ind	Pump set at 140 ft.
46-203	Phillips Petroleum Co.	Jones Drilling Co.	1961	397	--	--	do.	1,465	--	--	T, E 10	Ind	<u>Y</u>
* 204	do.	do.	1961	396	8	396	Khe, Kho	1,465	--	--	T, E 7-1/2	Ind	Screened from 307 to 337 ft. and perforated 370 to 395 ft. Temp. 71°F. <u>Y</u>
205	do.	do.	1964	384	--	--	Ktp	1,465	--	--	N	N	Well abandoned.
901	L. L. Hopke	do.	1963	435	8	435	do.	1,425	270 293.50	Dec. 9, 1963 Mar. 27, 1969	N	N	Perforated. Texas Water Development Board observation well. <u>Y G</u>
902	Rodger George	do.	1966	386	8	386	do.	1,410	240	May 1966	T, G 75	Irr	Slotted from 226 to 386 ft. Pump set at 375 ft. Measured yield 222.6 gpm.
* 47-402	Kenneth Rucker	do.	1962	392	6	392	Khe	1,430	290	June 25, 1962	Sub, E 7-1/2	Irr	Completed from 382 to 392 ft. Pump set at 340 ft. Temp. 72°F. <u>Y</u>
701	Raymond Jarrott	do.	--	355	8 7	286 355	Ktp	1,307	--	--	T, E	Irr	Perforated from 283 to 355 ft. <u>Y</u>

See footnotes at end of table.

ERATH COUNTY

Table I. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE BATHYM (ft)	DATE OF MEASUREMENT			
JP-31-48-302	Lee Manning	Jones Drilling Co.	1964	145	8 6	120 145	Ktp	910	20.20	Oct. 14, 1965	T, E 10	Irr	Completed from 77 to 100 ft. Pump set at 110 ft. Reported yield 100 gpm. Measured yield 69.1 gpm. Power and yield test at sprinkler on Aug. 16, 1967. <u>3</u>
303	Santa Fe Railroad Co.	--	1942	300	--	--	Ktp, P	880	--	--	--	N	--
401	J. W. Waldie	--	--	150	8	150	Ktp	1,020	15 46.44	Mar. 27, 1969	T, E 5	Irr	Pump set at 140 ft. Reported yield 150 gpm. Texas Water Development Board observation well. <u>4</u>
* 402	do.	--	1964	150	8	150	do.	1,020	28.13	Oct. 14, 1965	T, E 5	Irr	Pump set at 140 ft. Reported yield 150 gpm. Gravel packed. Temp. 76°F.
801	Triangle Ranch	Jones Drilling Co.	1963	204	10 8	125 204	Khe	1,035	--	--	T, E 20	Irr	Completed from 175 to 204 ft. Pump set at 180 ft. Reported yield 550 gpm.
802	do.	do.	1963	220	8	220	do.	--	--	--	T, R 30	Irr	--
52-301	Leon Barton	N. L. Box Drilling Contractor	1957	118	7	118	Ktp	--	15 22.07	Oct. 21, 1959 Oct. 12, 1965	Sub, E	Irr	Completed from 27 to 115 ft. Pump set at 110 ft. Reported yield 300 gpm. Measured yield 142 gpm. Power and yield test on July 18, 1966. Gravel packed. <u>3</u> <u>3</u>
* 302	Gayle Mahan	Steward Drilling Co.	1964	100	7	100	do.	--	29.1	Mar. 24, 1966	Sub, E 3	Irr	Reported yield 150 gpm. Measured yield 100 gpm. Power and yield test on July 10, 1967. Gravel packed. Temp. 68°F. <u>3</u>
303	do.	do.	1965	100	7	100	do.	1,345	32.46 29.24	Sept. 14, 1965 Mar. 26, 1969	Sub, E 5	Irr	Reported yield 100 gpm. Measured yield 150 gpm. Power and yield test on July 10, 1967. Gravel packed. Texas Water Development Board observation well. <u>4</u> <u>3</u>
* 304	Joe Ben Koonce	J. T. Carson	1965	130	8	130	Ktp	--	32.58	Sept. 27, 1965	Sub, E 10	Irr	Completed from 45 to 62 and 100 to 126 ft. Reported yield 150 gpm. Measured yield 120 gpm. Power and yield test at sprinkler on July 19, 1966. Gravel packed. Temp. 70°F. <u>3</u> <u>3</u>
305	do.	do.	1965	125	8	125	do.	--	41.93	do.	Sub, E 15	Irr	Completed from 47 to 60, 85 to 90, and 105 to 120 ft. Reported yield 200 gpm. Gravel packed. <u>3</u>
* 306	G. E. Singleton	K. C. Watson	1966	114	8	114	do.	1,369	--	--	Sub, E	Irr	Slotted from 30 to 114 ft. Gravel packed. Temp. 68°F.
603	S. E. Gray	N. L. Box Drilling Contractor	--	101	8	101	do.	--	53.12	Sept. 17, 1965	T, E 3	Irr	Pump set at 90 ft. Reported yield 100 gpm.
* 604	do.	Steward Drilling Co.	1962	80	8	80	do.	--	77.19	Sept. 16, 1965	Sub, E 3	Irr	Completed from 20 to 80 ft. Pump set at 72 ft. Gravel packed. Temp. 70°F.
53-201	Louis Bays	Terry Drilling and Supply Co.	1957	168	8	168	do.	1,345	92	Nov. 19, 1959	T, R 5	Irr	Completed from 128 to 168 ft. Pump set at 160 ft. Reported yield 75 gpm. Gravel packed.
* 202	Lloyd Bays	-- Hexter	--	120	7	120	do.	1,345	53.64	Sept. 28, 1965	T, E 5	Irr	Pump set at 112 ft. Measured yield 67 gpm. Power and yield test on July 14, 1966. Temp. 69°F. <u>3</u>
203	Louis Bays	Jones Drilling Co.	--	177	7	177	do.	1,345	80.93 88.47	Sept. 28, 1965 Mar. 26, 1969	Sub, E 7-1/2	Irr	Completed from 72 to 97 and 158 to 172 ft. Pump set at 160 ft. Measured yield 137 gpm. Power and yield test on July 14, 1966. Gravel packed. Texas Water Development Board observation well. <u>3</u> <u>4</u> <u>3</u>

See footnotes at end of table.

PRATH COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-53-204	Lloyd Bays	-- Hoeter	--	85	7	85	Khe	1,345	52.81	Sept. 28, 1965	N	N	--
205	do.	do.	--	80	6	80	do.	1,345	53.66	do.	T, E 2	Irr	Pump set at 72 ft.
206	do.	do.	--	132	5	132	Ktp	1,345	68.64	do.	N	N	
207	B. E. Hanson	--	--	140	7	140	do.	1,346	59.99 60.07	Sept. 28, 1965 Jan. 17, 1968	N	N	Texas Water Development Board observation well until 1968. Well plugged and abandoned. <u>3</u> <u>4</u>
302	Lingleville School	Jones Drilling Co.	1954	428	4	428	P	1,515	--	--	C, E 3/4	P	Completed from 416 to 428 ft.
401	Larry Bays	Terry Drilling and Supply Co.	1957	136	6	136	Ktp	1,345	30	Sept. 16, 1965	T, E	N	Gravel packed.
402	Mrs. Ross Decker	H. L. Box Drilling Contractor	--	131	8	131	Ktp	1,332	--	--	T, E 5	Irr	Completed from 53 to 129 ft. Pump set at 110 ft. Reported yield 90 gpm.
403	J. H. Ysair	do.	1962	161	8	161	do.	1,350	71.00	Sept. 15, 1965	Sub, E 20	Irr	Completed from 72 to 160 ft. Pump set at 150 ft. Reported yield 220 gpm. Measured yield 212 gpm. Power and yield test at sprinkler on July 14, 1966. Gravel packed. <u>3</u>
404	Hanson and Taylor	J. T. Cannon	1965	160	8	160	Khe	1,338	51.75 51.30	Nov. 29, 1966 Mar. 26, 1969	Sub, E 30	Irr	Completed from 120 to 160 ft. Pump set at 157 ft. Estimated yield 300 gpm. Gravel packed. Texas Water Development Board observation well. <u>3</u> <u>4</u>
405	do.	Lightfoot and McCrum	1964	141	8	141	Khe, Khe	1,330	54.43 47.92	Sept. 17, 1965 Mar. 24, 1966	--	Irr	Completed from 64 to 80, 83 to 98, and 121 to 135 ft. Reported yield 200 gpm. Gravel packed. <u>3</u>
406	Wayne Keith	J. T. Brown Water Well Drilling	1965	91	5	91	Ktp	1,310	50	Mar. 5, 1965	Sub, E 1	S	Completed from 50 to 91 ft. Pump set at 65 ft. Gravel packed. <u>3</u>
411	Mrs. Ross Decker	Lightfoot and McCrum	1966	157	8	157	do.	1,322	32	Apr. 12, 1966	Sub, E 15	Irr	Slotted from 43 to 50, 55 to 115 and 120 to 150 ft. Pumping level 132 ft at 150 gpm on Apr. 12, 1966. Power and yield test on July 10, 1967. Gravel packed. <u>3</u> <u>4</u>
412	do.	do.	1966	169	8	169	do.	1,327	40	Apr. 16, 1966	Sub, E 20	Irr	Slotted from 46 to 120 and 130 to 160 ft. Pumping level 145 ft at 200 gpm on Apr. 16, 1966. Power and yield test on July 10, 1967. Gravel packed. <u>3</u> <u>4</u>
501	Wayne Keith	Terry Drilling and Supply Co.	1952	115	7	--	do.	1,330	63.40 62.10	Aug. 26, 1965 Mar. 26, 1969	N	N	Texas Water Development Board observation well. Abandoned. <u>4</u>
502	do.	do.	1954	115	8	115	do.	1,325	64	Dec. 2, 1959	T, E 5	Irr	Reported yield 75 gpm.
503	B. W. Mathis	J. T. Brown Water Well Drilling	1963	177	7	177	do.	1,315	85.53 79.35	Aug. 26, 1965 Mar. 6, 1967	T, E 5	Irr	Completed from 75 to 108 and 123 to 170 ft. Pump set at 165 ft. Measured yield 57 gpm. Power and yield test on July 12, 1966. Gravel packed. Texas Water Development Board observation well. <u>3</u> <u>4</u> <u>5</u>
504	M. C. Jones	Terry Drilling and Supply Co.	1954	128	8	128	do.	1,320	60.85	Sept. 15, 1965	T, E 5	Irr	Pump set at 118 ft. Gravel packed.
* 505	do.	do.	1953	125	8	--	do.	1,332	67	Dec. 3, 1959	T, E 5	Irr	Pump set at 110 ft. Reported yield 50 gpm. Temp. 69° F.
506	Wayne Keith	--	--	115	8	--	do.	1,334	--	--	T, E 5	Irr	Pump set at 115 ft. Reported yield 65 gpm.
507	do.	Terry Drilling and Supply Co.	1954	120	8	--	do.	1,330	--	--	T, E 5	Irr	Reported yield 75 gpm.

See footnotes at end of table.

BRATH COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTIMETER OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-53-508	Wayne Keith	J. T. Brown Water Well Drilling	1965	135	7	135	Ktp	1,325	45	Apr. 8, 1965	T, E 5	Irr	Completed from 40 to 135 ft. Pump set at 125 ft. Reported yield 75 gpm. Gravel packed. <u>Y</u>
509	Ray L. Baldwin	do.	1964	170	7	170	do.	1,300	--	--	T, E 5	Irr	Completed from 75 to 108 and 123 to 165 ft. Pump set at 160 ft. Reported yield 100 gpm. Gravel packed. <u>Y</u>
510	B. W. Mathis	J. C. Humphries	1953	176	6	176	do.	1,310	--	--	T, R 5	Irr	Completed from 70 to 95 and 118 to 160 ft. Pump set at 165 ft. Reported yield 120 gpm. Gravel packed.
601	Ted Robbins	N. L. Box Drilling Contractor	--	317	8	310	Khc	1,470	263 270.42	Nov. 19, 1959 Mar. 26, 1969	T, G 30	N	Completed from 265 to 305 ft. Gravel packed. Temp. 70°F. Texas Water Development Board observation well. <u>Y Y</u>
710	S. E. Keith, Jr.	--	1955	130	7	130	Ktp	1,352	--	--	T, E 3	Irr	Completed from 70 to 130 ft. Pump set at 120 ft. Reported yield 50 gpm. Gravel packed.
711	do.	Terry Drilling and Supply Co.	1956	130	7	130	do.	1,345	--	--	T, E 3	Irr	Completed from 70 to 130 ft. Pump set at 120 ft. Gravel packed.
712	do.	J. C. Humphries	1953	120	5	120	do.	1,275	26	Dec. 2, 1959	T, E 5	Irr	Completed from 80 to 110 ft. Reported yield 80 gpm. Gravel packed.
713	do.	Terry Drilling and Supply Co.	1954	120	8	120	do.	1,275	28 106.32	Dec. 2, 1959 Aug. 25, 1965	T, E	Irr	Completed from 80 to 110 ft. Reported yield 100 gpm. Gravel packed.
714	do.	J. T. Brown Water Well Drilling	1965	78	5	78	do.	1,280	30 33.29	Apr. 14, 1965 Oct. 13, 1965	--	S	Slotted from 45 to 78 ft. Gravel packed. Cemented from 8 to 20 ft. <u>Y</u>
715	R. E. House	N. L. Box Drilling Contractor	1959	113	7	113	do.	1,275	35	Dec. 2, 1959	Sub, E 2	Irr	Perforated from 28 to 33, 45 to 52, and 75 to 109 ft. Reported yield 60 gpm. Gravel packed. Temp. 69°F. <u>Y</u>
716	do.	do.	1959	113	7	113	do.	1,275	60.20	Sept. 16, 1965	T, E 5	Irr	Perforated from 70 to 108 ft. Reported yield 22 gpm. Gravel packed. <u>Y</u>
717	do.	J. C. Humphries	1952	96	7	96	do.	1,265	81.90 68.41	Sept. 16, 1965 July 5, 1966	Sub, E 1-1/2	Irr	Completed from 80 to 96 ft. Pump set at 92 ft. Reported yield 40 gpm. Measured yield 29.6 gpm. Power and yield test on July 12, 1966. Gravel packed. <u>Y</u>
718	R. E. House	do.	1956	96	8	96	do.	1,260	35 25.93	Sept. 16, 1965 Mar. 26, 1969	Sub, E 1	Irr	Completed from 80 to 96 ft. Pump set at 80 ft. Reported yield 25 gpm. Measured yield 30 gpm. Power and yield test on July 12, 1966. Texas Water Development Board observation well. <u>Y Y</u>
732	Don Ray Keith	Wilmer Ocie Davis	1967	127	8	127	do.	1,310	52	Apr. 15, 1967	Sub, E 7-1/2	Irr	Slotted from 45 to 127 ft. Pumping level 110 ft at 165 gpm. Pump set at 125 ft. Measured yield 93.1 gpm. Power and yield test at sprinkler on July 7, 1967. Gravel packed. <u>Y Y</u>
733	Onie Keith	do.	1967	120	8	120	do.	1,280	50	Jan. 20, 1967	Sub, E 7-1/2	Irr	Slotted. Pumping level 100 ft at 165 gpm. Pump set at 115 ft. Power and yield test on July 6, 1967. Gravel packed. <u>Y Y</u>
734	do.	--	--	--	--	--	do.	1,280	--	--	Sub, E 5	Irr	Power and yield test on July 6, 1967. <u>Y</u>
801	B. T. Keith and P. E. Keith	N. L. Box Drilling Contractor	1956	143	8	143	do.	1,285	62	Dec. 1, 1959	T, E 5	Irr	Completed from 27 to 30, 61 to 64 and 114 to 139 ft. Pump set at 135 ft. Reported yield 80 gpm.
802	do.	J. C. Humphries	1953	143	6	143	do.	1,290	--	--	T, E	N	Pump set at 125 ft.

See footnotes at end of table.

BRATH COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIMIT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-53-803	J. P. Thibault	J. T. Brown Water Well Drilling	1965	101	7	101	do.	1,270	30	Aug. 8, 1965	T, E 5	Irr	Completed from 45 to 101 ft. Gravel packed. <u>Y</u>
804	Bill Keith	Lightfoot and McCrum	1966	132	8	132	Khe, Kho	1,285	65 53.93 57.50	Feb. 17, 1966 Mar. 31, 1966 Mar. 6, 1967	T, E	Irr	Slotted from 60 to 66 and 95 to 123 ft. Pump set at 125 ft. Measured yield 33 gpm. Power and yield test on July 6, 1967. Gravel packed. <u>Y</u> <u>Y</u> <u>Y</u>
805	B. W. Machis	Joe Scott	--	123	8	123	Ktp	1,295	67.33 65.40	Aug. 31, 1966 Mar. 26, 1969	N	N	Reported yield 75 gpm when used in 1959. Texas Water Development Board observation well. <u>Y</u>
* 806	Bill Keith	Lightfoot and McCrum	1966	180	8	80	Khe	1,285	55 51.90 53.28	Feb. 14, 1966 Mar. 31, 1966 Mar. 6, 1967	Sub, E	Irr	Slotted from 53 to 70 ft. Pump set at 70 ft. Measured yield 56 gpm and 71 gpm. Power and yield tests on July 12, 1966 and July 6, 1967. Gravel packed. Temp. 70°F. <u>Y</u> <u>Y</u>
807	P. T. Keith	do.	1966	135	7	135	Khe, Kho	1,270	55 48.88	Feb. 22, 1966 Mar. 24, 1966	Sub, K 5	Irr	Slotted from 50 to 68, 98 to 115, and 117 to 125 ft. Pump set at 125 ft. Gravel packed. <u>Y</u>
808	Bill Keith	do.	1967	134	8	134	do.	1,285	65	Apr. 15, 1967	Sub, E 7-1/2	Irr	Slotted from 62 to 67 and 107 to 123 ft. Measured yield 99 gpm. Power and yield test on July 6, 1967. <u>Y</u> <u>Y</u>
809	G. T. Keith	J. T. Brown Water Well Drilling	1967	135	8	135	Ktp	1,275	--	--	Sub, E 5	Irr	Slotted from 55 to 133 ft. Pump set at 125 ft. Measured yield 94.5 gpm. Power and yield test on July 7, 1967. Gravel packed. <u>Y</u> <u>Y</u>
901	Joe Little	do.	1964	228	7	228	do.	--	128	Oct. 12, 1965	Sub, E 5	Irr	Completed from 70 to 228 ft. Pump set at 170 ft. <u>Y</u>
54-601	W. L. Peyton and Prakes	Jones Drilling Co.	1965	406	8	406	do.	1,415	47.35 157.0	Mar. 25, 1966 Mar. 9, 1967	N	N	Reported yield 270 gpm when used. Texas Water Development Board observation well. <u>Y</u>
602	do.	do.	1953	406	8	406	do.	1,410	--	--	T, E 20	Irr	Reported yield 160 gpm.
603	do.	do.	1965	407	7	407	do.	1,405	--	--	T, E 25	Irr	--
604	do.	do.	1962	328	4	328	Khe	1,410	280	Mar. 2, 1962	Sub, E 7-1/2	S	Completed from 320 to 328 ft. Pump set at 300 ft. <u>Y</u>
605	Stephenville Packing Co.	Doc McMillian Water Wells	1964	303	6	303	do.	1,400	--	--	C, E 1	Ind	Completed from 183 to 303 ft. Pump set at 185 ft. Reported yield 20 gpm. Gravel packed.
606	Erath Garden of Memory	Jones Drilling Co.	1953	283	7	283	do.	1,380	8.11	Oct. 13, 1965	C, E 1	Irr	Completed from 263 to 283 ft.
* 801	Leander Kikor	do.	1955	387	8	387	Ktp	1,380	200 222.50	1960 Mar. 27, 1969	T, E 30	Irr	Pump set at 365 ft. Measured yield 200 gpm. Power and yield test on July 17, 1967. Temp. 72°F. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
55-101	Poston Farms	do.	1959	390	6	390	do.	1,340	--	--	T, K 15	S	Completed from 270 to 300 and 360 to 390 ft. Reported yield 125 gpm.
102	B. W. Blankenship	do.	1957	327	8	327	do.	1,318	186.0	Oct. 8, 1965	T, G 30	Irr	Reported yield 270 gpm.
* 103	City of Stephenville	Texas Water Wells	1960	400	8	363	Khe, Kho	1,319	--	--	T, E 40	P	Screened from 245 to 270 and 300 to 360 ft. Pump set at 380 ft. Reported yield 200 gpm. Gravel packed. Cemented. <u>Y</u> <u>Y</u>
104	do.	Jones Drilling Co.	1956	402	10	400	Ktp	1,340	--	--	T, E 50	P	Completed from 250 to 275 and 350 to 390 ft. Pump set at 385 ft. <u>Y</u>

See footnotes at end of table.

KRATH COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-55-105	City of Stephenville	Texas Water Wells	1960	392	16 8	234 363	Khe, Kho	1,300	133 223.70	June 2, 1961 Feb. 8, 1966	T, E 40	P	Screened from 236 to 266 and 294 to 360 ft. Pump set at 380 ft. Reported yield 200 gpm. Gravel packed. Cemented. <u>1</u> <u>2</u>
106	do.	Fort Worth Drilling Co.	1946	366	10	--	Ktp	1,297	--	--	T, E 40	P	Reported yield 100 gpm. Cemented. <u>1</u>
107	do.	do.	1946	368	10	364	do.	1,302	219.37 246.80	Feb. 23, 1966 Mar. 27, 1969	N	N	Completed from 245 to 255 and 341 to 364 ft. Observation well for pumping test on JP-31-55-205. Cemented. Texas Water Development Board observation well. <u>1</u> <u>2</u> <u>3</u> <u>4</u>
* 108	do.	C. Calloway	1943	370	10	--	do.	1,299	--	--	T, E 40	P	Cemented.
109	do.	-- Hamilton	1944	375	10	--	do.	1,298	--	--	T, E 40	P	Pump set at 350 ft. Reported yield 250 gpm. Cemented.
110	do.	do.	1944	375	10	--	do.	1,300	--	--	N	N	Reported yield 250 gpm when used. Cemented.
111	do.	do.	1949	377	10	--	do.	1,345	266 265.10	Sept. 25, 1963 Feb. 8, 1966	T, E 40	P	Pump set at 360 ft. Reported yield 350 gpm. Cemented. <u>1</u>
112	do.	do.	1949	391	--	--	do.	1,347	--	--	T, E 40	P	Pump set at 365 ft. Reported yield 375 gpm. Cemented. <u>1</u>
113	do.	do.	1949	390	10	--	do.	1,325	258 247	Feb. 7, 1950 Sept. 25, 1963	T, R	P	Pump set at 370 ft. Reported yield 390 gpm. Cemented. <u>1</u>
114	do.	Jones Drilling Co.	1953	391	16 10	90 391	do.	1,320	241 239.40	Sept. 25, 1963 Mar. 27, 1969	N	N	Reported yield 75 gpm when used. Texas Water Development Board observation well. <u>1</u> <u>4</u>
115	do.	Texas Water Wells	1959	402	18 10	216 400	Khe, Kho	1,350	265 260	June 3, 1959 Sept. 20, 1963	T, E 56	P	Perforated from 218 to 282 and 338 to 386 ft. Reported yield 200 gpm. Cemented. <u>2</u>
201	Texas A&M University-Tarleton Experiment Station	Jones Drilling Co.	1960	400	8	--	Ktp	1,322	265	Oct. 27, 1960	T, E 20	Irr	Measured yield 120 gpm. Power and yield test on July 12, 1967. <u>5</u>
* 202	City of Stephenville	W. A. Walker	1924	600	10 8	-- --	do.	1,287	237 229.60	Sept. 20, 1963 Mar. 27, 1969	N	N	Observation well for pumping test on well JP-31-55-205. Texas Water Development Board observation well. <u>3</u> <u>4</u>
* 203	do.	do.	1932	372	10	351	do.	1,287	--	--	T, E 30	P	Completed from 240 to 290 and 307 to 351 ft. Pump set at 340 ft. Temp. 72°F.
* 204	do.	J. B. Tatum	1938	351	12	--	do.	1,288	--	--	T, E 40	P	Reported yield 300 gpm. <u>1</u>
* 205	do.	E. E. Thate	1940	370	12 10	-- 351	do.	1,288	--	--	T, E 30	P	Perforated from 245 to 273, 276 to 290, and 307 to 351 ft. Pumping test in Feb. 1966. Pump set at 340 ft. Reported yield 250 gpm. Cemented. Temp. 72°F. <u>3</u>
206	do.	Jones Drilling Co.	1953	511	10	400	do.	1,310	246	Sept. 20, 1963	T, R 50	P	Pump set at 380 ft. Reported yield 200 gpm.
* 207	do.	do.	1964	511	10 8	390 --	do.	1,305	269	June 23, 1964	T, E 40	P	Pump set at 350 ft. Reported yield 150 gpm. Temp. 70°F.
208	Tarleton State College Farm	-- Jones	1918	519	6	519	do.	1,321	240 257.00	Jan. 25, 1947 Mar. 27, 1969	N	N	Texas Water Development Board observation well. <u>4</u>

See footnotes at end of table.

BRADY COUNTY

Table I. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-55-209	Tarleton State College Farm	Texas Water Wells	1953	522	10 8 6	230 335 400	Khe, Kho	1,322	251 285	Mar. 11, 1953 July 28, 1964	T, E 15	Irr	Completed from 230 to 285 and 335 to 395 ft. Pumping level 318 ft at 200 gpm on Mar. 11, 1953. Pump set at 315 ft. Well drilled to 522 ft and plugged back to 400 ft. <u>2</u>
301	H. S. Foster	Terry Drilling and Supply Co.	1954	520	7 5	434 513	Ktp	1,385	240 353.47	Dec. 16, 1959 Mar. 28, 1968	N	N	Completed from 112 to 116, 345 to 395, and 490 to 513 ft. Reported yield 170 gpm. Well caved in 93 ft from bottom and measures 427 ft. Texas Water Development Board observation well. <u>1</u> <u>4</u>
302	do.	--	1956	488	8	488	do.	1,335	--	--	T, G	Irr	Completed from 70 to 93, 310 to 355, and 424 to 488 ft. <u>1</u>
303	Structural Plastics Co.	Jones Drilling Co.	1958	436	5	280	Khe	1,402	--	--	N	N	Abandoned.
* 304	Poston Farms	Terry Drilling and Supply Co.	1958	360	6	360	do.	1,381	--	--	T, E 25	Irr	Reported yield 80 gpm. Temp. 72°F.
401	Wolfe Nurseries	Jones Drilling Co.	1959	403	8	403	Ktp	1,342	250.1	June 23, 1966	T, E 40	Irr	Pump set at 365 ft. Reported yield 300 gpm.
402	Bob Love	Terry Drilling and Supply Co.	1954	343	12 8	101 343	Khe	1,384	--	--	T, Ng	Irr	Pump set at 325 ft. Reported yield 195 gpm. Measured yield 141 gpm on June 24, 1966. <u>1</u>
403	Wolfe Nurseries	Jones Drilling Co.	1967	393	7	393	Ktp	1,375	200	July 1967	Sub, E 30	Irr	Pump set at 370 ft. Measured yield 150.4 gpm. Power and yield test at sprinkler on July 18, 1967. <u>1</u>
404	Bob Love	do.	1956	350	--	--	do.	1,367	--	--	T, Ng	Irr	Reported yield 135 gpm.
406	Wolfe Nurseries	do.	1951	389	8	389	do.	1,369	--	--	T, E 50	Irr	Pump set at 370 ft. Reported yield 300 gpm.
* 407	do.	do.	1965	408	--	--	do.	1,352	243.85 226.40	Oct. 7, 1965 Mar. 10, 1967	T, E 25	Irr	Pump set at 381 ft. Measured yield 171.5 gpm. Power and yield test on July 17, 1967. Temp. 70°F. <u>1</u> <u>3</u>
408	do.	do.	1960	404	7	404	do.	1,380	--	--	T, E 25	Irr	Pump set at 365 ft. Measured yield 141 gpm on July 17, 1967.
502	City of Stephenville	Texas Water Wells	1966	393	10	378	Khe, Kho	1,270	--	--	T, E	P	Screened from 190 to 215, 224 to 236, 244 to 263, 312 to 327, and 333 to 368 ft. Cemented from 190 ft to surface.
601	Cane Porter	Terry Drilling and Supply Co.	1953	261	7	261	Khe	1,278	245.44 245.34	Oct. 26, 1965 Apr. 4, 1966	T, E 10	N	Pump set at 240 ft. Reported yield 75 gpm. Texas Water Development Board observation well. <u>4</u>
* 701	Fitzgerald Nursery	Jones Drilling Co.	--	290	--	290	do.	1,336	220	1960	C, E 3	Irr	Pump set at 260 ft. Reported yield 30 gpm.
702	do.	do.	--	290	5	290	do.	1,349	245.40	Oct. 14, 1965	Sub, E 3	D, Irr	Reported yield 20 gpm.
801	City of Stephenville	Texas Water Wells	1965	454	10	420	Khe, Kho	1,282	232.09 214.55	Feb. 24, 1966 Mar. 26, 1969	T, E 40	P	Screened from 215 to 240, 262 to 280, and 334 to 390 ft. Pumping level 280 ft at 227 gpm on Feb. 23, 1966. Pump set at 370 ft. Reported yield 225 gpm. Gravel packed. Cemented. Texas Water Development Board observation well. <u>1</u> <u>2</u> <u>3</u> <u>4</u>
* 802	do.	do.	1964	420	10	420	Ktp	1,259	212	Nov. 11, 1964	T, E 40	P	Screened from 215 to 240, 262 to 280, and 324 to 390 ft. Pump set at 350 ft. Reported yield 250 gpm. <u>2</u>

See footnotes at end of table.

FRATH COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JP-31-55-803	Mrs. Fowler	Jones Drilling Co.	1963	360	6	360	Ktp	1,291	235 221.05	July 3, 1963 Mar. 26, 1969	Sub, R 20	Irr	Completed from 240 to 360 ft. Pump set at 360 ft. Measured yield 184.6 gpm. Power and yield test on Aug. 15, 1967. Texas Water Development Board observation well. <u>1</u> <u>4</u> <u>5</u>
804	City of Stephenville	Texas Water Wells	1964	397	--	--	--	1,240	--	--	N	N	Drilled as a public supply test hole. <u>2</u>
* 61-202	Claude Kirkland	N. L. Box Drilling Contractor	1953	190	8	184	Ktp	1,303	80	Dec. 1, 1959	T, E 7-1/2	N	Completed from 82 to 104 and 162 to 183 ft. Pumping level 94 ft at 170 gpm on Dec. 1, 1959. Pump set at 125 ft. Gravel packed.
* 301	Thurston House	do.	1957	188	8	188	do.	1,315	97 98.30	Dec. 1, 1959 Mar. 26, 1969	T, E 20	Irr	Completed from 96 to 188 ft. Pump set at 125 ft. Reported yield 338 gpm. Measured yield 173 gpm. Power and yield test at sprinkler on July 13, 1966. Temp. 70°F. Texas Water Development Board observation well. <u>4</u> <u>5</u>
* 601	Everett Colburn	J. C. Humphries	1953	400	8	400	Khe	1,525	--	--	Sub, E 10	Irr	Completed from 380 to 400 ft. Pump set at 358 ft. Reported yield 125 gpm. Measured yield 64.8 gpm. Power and yield test on July 12, 1967. Temp. 70°F. <u>3</u>
* 602	do.	do.	1953	380	6	380	do.	1,525	350	Sept. 29, 1965	Sub, E 5	D, S	Pump set at 356 ft. Reported yield 80 gpm. Temp. 70°F.
* 62-101	City of Dublin	Layne Texas Co.	1931	436	8 6	250 436	Ktp	1,452	265	1941	T, E 15	P	Perforated. Pump set at 355 ft. Reported yield 90 gpm.
* 102	do.	W. A. Walker	1915	350	12 8	50 350	Khe	1,452	--	--	T, E 15	P	Slotted from 325 to 350 ft. Pump set at 330 ft. Reported yield 80 gpm.
* 103	do.	R. A. Adams and Son	1946	412	12 8	80 412	Ktp	1,425	100	Nov. 12, 1959	T, E 15	P	Completed from 325 to 350 and 385 to 412 ft. Pump set at 385 ft. Reported yield 50 gpm.
* 104	do.	Texas Water Wells	1955	469	14 10	160 469	do.	1,500	198.01 331.2	Mar. 24, 1966 Apr. 2, 1969	T, E 40	P	Completed from 300 to 386 and 396 to 466 ft. Pump set at 435 ft. Texas Water Development Board observation well. <u>1</u> <u>2</u> <u>4</u>
* 105	do.	do.	1949	476	14 10	325 476	Khe, Kho	1,495	171.77	Mar. 25, 1966	T, E 50	P	Completed from 330 to 376, 380 to 395, and 420 to 474 ft. Pump set at 436 ft. Reported yield 250 gpm. Cemented. <u>2</u>
201	F. A. Knape	Jones Drilling Co.	1964	408	8 7	345 395	Ktp	1,390	--	--	T, C	Irr	Completed from 279 to 345 and 345 to 395 ft. Pump set at 320 ft. Reported yield 363 gpm. <u>1</u>
301	Cottonwood Baptist Church	J. T. Brown Water Well Drilling	1964	256	4	256	Rhe	1,352	221	Oct. 6, 1965	Sub, E 1	P	Completed from 236 to 256 ft. <u>1</u>
* 401	Norman Martin	N. L. Box Drilling Contractor	--	109	7	65	Kp	1,470	--	--	T, E 2	Irr	Estimated yield 60 gpm. Temp. 70°F.
* 501	Liston Wiggins	Texas Irrigation Sales, Inc.	1965	436	6	436	Khe	1,375	216 209.66	Sept. 7, 1965 Oct. 8, 1965	Sub, E 5	Irr	Completed from 196 to 246 ft. Pump set at 300 ft. Measured yield 48 gpm. Power and yield test on July 17, 1967. Gravel packed. Temp. 72°F. <u>1</u> <u>2</u> <u>3</u>
* 63-101	D. E. Cook	Jones Drilling Co.	1964	390	8	390	do.	1,350	--	--	T, G 30	Irr	Completed from 295 to 310, 315 to 335, and 340 to 380 ft. Pump set at 350 ft. Reported yield 302 gpm. Temp. 70°F.
102	R. D. Stephens	Texas Irrigation Sales, Inc.	1966	440	12	432	Kgr, Ktp	1,350	--	--	T, G 125	Irr	Slotted from 130 to 430 ft. Pumping level 360 ft at 446 gpm. Pump set at 437 ft. Gravel packed. <u>2</u>
301	J. B. McConnell	Bill Wolf and Son	1965	202	10	202	Khe	1,124	51.21 96.69	Oct. 15, 1965 Mar. 26, 1969	T, E 30	Irr	Completed from 118 to 202 ft. Pump set at 184 ft. Reported yield 200 gpm. Texas Water Development Board observation well. <u>1</u> <u>4</u>

See footnotes at end of table.

ERATH COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
* JP-31-64-301	M. C. Lowry	Terry Drilling and Supply Co.	--	353	7 5	52 353	Khe	1,152	260.94 258.90	Sept. 16, 1968 Mar. 26, 1969	Sub, E 1	D	Temp. 72°F. Texas Water Development Board observation well. <u>1/4</u>
402	L. E. Adams	Rud and Rusty Roberson Well Drilling	1963	281	6	281	do.	1,159	--	--	Sub, E 10	Irr	Completed from 261 to 281 ft. Pump set at 270 ft. Reported yield 105 gpm.
* 32-41-103	Stanley Allen	A. L. Rodgers	1962	146	7	146	Khe, Kho	865	19.78	Oct. 25, 1965	Sub, E 5	Irr	Completed from 35 to 45 and 105 to 140 ft. Pump set at 131 ft. Measured yield 120 gpm. Power and yield test on Aug. 17, 1967. Gravel packed. Temp. 69°F. <u>1/4</u>
49-501	E. L. Huffman	Jones Drilling Co.	1963	512	8 4	512 512	Kp, Rtp	1,130	45 262.19	Nov. 15, 1963 Mar. 26, 1969	T, G 50	Irr	Completed from 45 to 50, 304 to 404, and 451 to 512 ft. Pump set at 330 ft. Texas Water Development Board observation well. <u>1/4</u>
502	do.	do.	1963	492	--	--	Rtp	1,075	220.30	Oct. 15, 1965	T, G 50	Irr	Pump set at 330 ft. <u>1/4</u>
41-08-202	George Holliday	Texas Irrigation Sales, Inc.	1965	--	12	--	do.	1,035	114.22 113.86	Oct. 25, 1965 Mar. 26, 1969	T, G 20	Irr	Gravel packed. Texas Water Development Board observation well. <u>4</u>

* For chemical analysis of water, see Table 5.

1/ For drillers' log of well, see Table 3.

2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.

3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I

4/ For water-level measurements, see Table 4.

5/ For power and yield tests on wells, see Table 10, Volume I.

ERATH COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JP-31-38-801	Coastal States Gas Producing Co.	Davis No. 1	1960	3,509	1,261	E
44-906	Foster Brothers	C. P. Putty No. 1	1948	2,935	1,411	S
47-403	W. H. Woods, Trustee	R. J. Sikes No. 1	1947	4,300	1,370	E
48-803	McCarthy Oil and Gas Corp.	W. C. Hendricks No. 1	1946	7,166	1,041	E
53-102	Leonard Refineries	J. E. Clayton No. 1	1948	3,067	1,373	E
413	Taxoline Co. Inc.	Jones No. 1	1965	3,580	1,445	E
602	Frank Buttram	Whitfield No. 1	1951	3,750	1,485	E
54-401	Arkansas - Louisiana Gas Co.	Treasure Rector No. 1	1962	3,899	1,493	E
802	Dale Smith and Louisiana Machine Co.	J. L. Kiker No. 1	1952	4,135	1,377	D,E
62-402	Haynes B. Ownby Drilling Co.	Robert C. Crouch No. 1	1949	3,859	1,516	E
64-202	Burgin Oil Co.	Mrs. M. W. Robertson No. 1	1956	2,365	1,137	E
501	do.	Nelms No. 1	1956	2,775	1,230	E
801	American Liberty Oil Co.	D. A. Fellers No. 1	1949	4,440	1,098	E
901	Humble Oil and Refining Co.	Wright No. 1	1956	2,479	1,149	E
32-57-403	Shell Development Co.	L. W. Weeks No. 1	—	165	1,193	S

ERATH COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-39-502			Well JP-31-39-902—Continued		
Owner: — Fruehauf Driller: Terry Drilling and Supply Co.			Sand and gravel	4	24
Mixed Soil	32	32	Red shale	8	32
Red bed	10	42	Well JP-31-44-901		
Gray shale	24	66	Owner: Richard Krapf Driller: Terry Drilling and Supply Co.		
Hard sand	29	95	Mixed soil	7	7
Water sand	15	110	Caliche	24	31
Sand and gravel	5	115	Sand rock	32	63
Red bed	20	135	Water sand	8	71
Yellow shale	10	145	Blue shale	15	86
Gray shale	15	160	Lime shells	9	95
Sand rock (very hard)	15	175	Sand and gravel (hole full of water)	44	139
Blue shale	15	190	Blue shale	19	158
Sandy shale, blue	19	209	Sand rock	6	164
Sand	23	232	Blue shale	25	189
Blue shale	21	253	Red bed	30	219
Sandy lime	13	266	Well JP-31-46-203		
Sandy shale	7	273	Owner: Phillips Petroleum Co. Driller: Jones Drilling Co.		
Blue shale	5	278	Soil	3	3
Sandy shale, blue	4	282	Red clay	2	5
Blue shale, hard	9	291	Yellow clay	23	28
Broken lime shells	17	308	Sand and shale - seep water	64	92
Well JP-31-39-901			Blue shale	44	136
Owner: Morgan Mill Water Supply Corp. Driller: Jack Leonard Drilling Co.			Hard lime	36	172
Topsoil	3	3	Sand and shale	58	230
Gray sandy clay	13	16	Sand	60	290
Gray sand	6	22	Water sand	48	338
Coarse sand and gravel	9	31	Red clay	34	372
Red bed	4	35	Water sand	22	394
Well JP-31-39-902			Shale	3	397
Owner: Morgan Mill Water Supply Corp. Driller: Jack Leonard Drilling Co.			Well JP-31-46-204		
Topsoil	2	2	Owner: Phillips Petroleum Co. Driller: Jones Drilling Co.		
Gray sandy clay	13	15	Caliche	3	3
Small gravel	5	20	Clay	27	30

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-46-204—Continued			Well JP-31-47-402—Continued		
Sand - little water	65	95	Blue shale	25	382
Blue shale	35	130	Water gravel	8	390
Lime	40	170	Water	2	392
Sandy shale	60	230	Well JP-31-47-701		
Sand	57	287	Owner: Raymond Jarrett Driller: Jones Drilling Co.		
Sand and gravel - water	50	337	Soil	2	2
Red bed	33	370	Clay	3	5
Trinity water sand	25	395	Yellow clay	15	20
Shale	1	396	Gray shale	40	60
Well JP-31-46-901			Blue shale	11	71
Owner: L. L. Hopke Driller: Jones Drilling Co.			Gray shale	4	75
Sand and clay	40	40	Blue shale	90	165
Water sand	5	45	Red shale	10	175
Hard lime	105	150	Gray shale	5	180
Lime and shale	120	270	Red bed	12	192
Shale	27	297	Blue shale	11	203
Water sand (Paluxy)	77	374	Sandy shale	17	220
Lime and shale	14	388	Pack sand (water show)	13	233
Water sand (Trinity)	27	415	Sand (Paluxy)	50	283
Shale	5	420	Blue shale	15	298
Water sand	10	430	Broken lime shells	4	302
Shale	5	435	Red bed	18	320
Well JP-31-47-402			Sand (Travis Peak)	32	352
Owner: Kenneth Rucker Driller: Jones Drilling Co.			Red bed	3	355
Topsoil	1	1	Well JP-31-52-301		
Soil	2	3	Owner: Leon Barton Driller: N. L. Box Drilling Contractor		
Lime rock	12	15	Sand, clay, and sandstone	27	27
Red bed	29	44	Water gravel	11	38
Blue shale	37	81	White clay and sand	8	46
Sandy shale	32	113	Tight gravel	12	58
Lime rock	71	184	Tight sand and white clay	12	70
Blue shale	46	230	Coarse sand	10	80
Red bed	29	259	Red and yellow clay	15	95
Sticky shale	42	301			
Limestone	56	357			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-52-301—Continued			Well JP-31-53-203—Continued		
Coarse sand and gravel	17	112	Sand	25	97
Yellow clay	6	118	Water gravel	13	110
Well JP-31-52-304			Red bed and shale	12	122
Owner: Joe Ben Koonce			Red bed	8	130
Driller: J. T. Carson			Sand	6	136
Soil	2	2	Red bed	22	158
Clay, red	8	10	Sand and water gravel	14	172
Yellow clay	35	45	Red bed	5	177
Sand and gravel - water	17	62	Well JP-31-53-404		
Sandy shale	28	90	Owner: Hanson and Taylor		
Red shale	10	100	Driller: J. T. Carson		
Gravel - water	22	122	Sand	30	30
Sand - water	4	126	Gravel	20	50
Blue shale	4	130	Gravel	15	65
Well JP-31-52-305			Water gravel	25	90
Owner: Joe Ben Koonce			Sand	10	100
Driller: J. T. Carson			Water gravel	40	140
Sand	20	20	Sand and gravel	10	150
Shale	27	47	Blue shale	10	160
Sand - water	13	60	Well JP-31-53-405		
Shale	20	80	Owner: Hanson and Taylor		
Red shale	5	85	Driller: Lightfoot and McCrum		
Sand	5	90	Soil	3	3
Red shale	15	105	Sandy clay	3	6
Sand - water	15	120	Sand	34	40
Blue shale	5	125	Blue shale	2	42
Well JP-31-53-203			Sand and gravel	22	64
Owner: Louis Bays			Gravel (water)	15	79
Driller: Jones Drilling Co.			Blue shale	4	83
Surface	5	5	Gravel	15	98
Red clay	10	15	Sandy shale	3	101
Chalky shale	15	30	Shale, blue and green	9	110
Sticky shale	9	39	Shale, red	11	121
Yellow clay	5	44	Gravel (water)	14	135
Sand and clay	7	51	Shale, blue	6	141
Sand, dry	18	69			
Red bed	3	72			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-53-406			Well JP-31-53-503		
Owner: Wayne Keith Driller: J. T. Brown Water Well Drilling			Owner: B. W. Mathis Driller: J. T. Brown Water Well Drilling		
Brown topsoil	1	1	Red clay	6	6
Red clay	2	3	Brown sand	2	8
Yellow clay	22	25	Blue clay	5	13
White clay and sand	7	32	White sand and blue clay	7	20
Sand rock	10	42	Blue clay and lime rock	12	32
White sand	8	50	White sand	8	40
Gravel and sand	27	77	Sand, gravel, clay clods	11	51
Red clay	14	91	Sand and small gravel	5	56
Well JP-31-53-411			Gravel and sand	29	85
Owner: Mrs. Ross Decker Driller: Lightfoot and McCrum			Water gravel	11	96
Sand	1	1	Gravel and blue clay clods	6	102
Blue and yellow clay	7	8	Red bed	6	108
Sand and gravel	35	43	Gravel, sand, and sticky clay	30	138
Water gravel	7	50	Water gravel and sand	32	170
Blue clay	5	55	Yellow, green, and red clay	7	177
Water sand and gravel	60	115	Well JP-31-53-508		
Red and blue clay	5	120	Owner: Wayne Keith Driller: J. T. Brown Water Well Drilling		
Sand	10	130	Top, brown sand	2	2
Sand and blue sandy clay	17	147	Red clay	5	7
Sandy lime	4	151	Yellow clay	18	25
Blue shale	6	157	Yellow clay and gravel	5	30
Well JP-31-53-412			White sand	10	40
Owner: Mrs. Ross Decker Driller: Lightfoot and McCrum			White sand and gravel	22	62
Sand	1	1	White sand, gravel, and water	13	75
Blue and red clay	8	9	Sand rock	8	83
Sand and gravel	37	46	White sand and gravel	42	125
Water sand and gravel	74	120	Red and green clay	10	135
Blue and red clay	10	130			
Sand and blue clay	30	160			
Blue shale	9	169			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-53-509			Well JP-31-53-714		
Owner: Ray L. Baldwin Driller: J. T. Brown Water Well Drilling			Owner: S. E. Keith, Jr. Driller: J. T. Brown Water Well Drilling		
Brown sand	1	1	Top, brown sand	2	2
Red clay	6	7	Red clay	4	6
White clay and gravel	25	32	Yellow clay	19	25
White sand	11	43	Brown sand and gravel	7	32
White sand and gravel	17	60	Gravel	10	42
Blue clay clods and gravel	8	68	White sand, gravel, and clods	14	56
White sand and gravel	12	80	Red clay	22	78
Water gravel and sand	3	83	Well JP-31-53-715		
Water gravel and green clods	29	112	Owner: R. E. House Driller: N. L. Box Drilling Contractor		
Red clay	28	140	Clay	3	3
Gravel, green and blue clods	25	165	Sand and gravel	17	20
Brown clay	5	170	Sandstone	3	23
Well JP-31-53-601			Sand and gravel (little water) 28 to 32 ft	9	32
Owner: Ted Robbins Driller: N. L. Box Drilling Contractor			Sand and clay	13	45
Top, sand	4	4	Fine water sand (water 20 gpm)	5	50
White sand	5	9	Lime	3	53
Yellow clay	7	16	Red bed	22	75
Blue shale	5	21	Lime	11	86
Yellow and white clay	24	45	Coarse sand	23	109
Gray sand and limestone pack	16	61	Yellow clay	4	113
White lime rock	9	70	Well JP-31-53-716		
Blue and gray shale	60	130	Owner: R. E. House Driller: N. L. Box Drilling Contractor		
Dark gray clay	30	160	Clay	3	3
Dark gray sand	20	180	Sand and gravel	29	32
Black sand	32	212	Shells, sand, and clay	14	46
Gray sand	53	265	Red bed	8	54
Sand and gravel	32	297	Light gravel	5	59
Red clay	9	306	Red bed and tight sand	11	70
Sand, gravel, and blue clay	11	317	Fine sand	10	80
			Coarse sand	10	90

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-53-716—Continued			Well JP-31-53-803—Continued		
Gravel	17	107	White sand	15	50
Yellow and red clay	6	113	Red clay	10	60
			Trinity gravel	30	90
			Brown clay	11	101
Well JP-31-53-732			Well JP-31-53-804		
Owner: Don Ray Keith Driller: Wilmer Ocie Davis			Owner: Bill Keith Driller: Lightfoot and McCrum		
Surface soil	3	3	Black soil	5	5
Sandy clay	17	20	Sand and sandy lime	3	8
Dry sand and gravel	25	45	Sandy, blue clay	12	20
Water sand and gravel	8	53	Sand and gravel	8	28
Hard, gray sand	12	65	Blue green and yellow clay	3	31
Red shale	5	70	Sandy clay and gravel	9	40
Gray shale	10	80	Sand and gravel	20	60
Red shale	15	95	Water sand	6	66
Water sand and gravel	30	125	Red bed	32	98
Red clay	2	127	Sand and gravel (water)	25	123
			Blue shale	9	132
Well JP-31-53-733			Well JP-31-53-806		
Owner: Onie Keith Driller: Wilmer Ocie Davis			Owner: Bill Keith Driller: Lightfoot and McCrum		
Red sandy shale	8	8	Blacksoil	4	4
Quicksand	17	25	Blue and red clay	13	17
Water sand	5	30	Gravel	2	19
Gray, sandy shale	15	45	Sand and gravel	34	53
Gray, sandy lime	10	55	Water gravel	14	67
Red shale	45	100	Red bed	38	105
Gray, sandy shale	5	105	Sand	7	112
Water sand	10	115	Blue and red clay	38	150
Yellow shale	5	120	Sand (hard)	5	155
			Blue and yellow clay	5	160
Well JP-31-53-803			Blue shale		
Owner: J. P. Thiebaud Driller: J. T. Brown Water Well Drilling			20		
Brown sand	4	4			180
White sand	4	8			
Red clay	12	20			
White sand	4	24			
Blue rock	3	27			
Brown sand	8	35			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-53-807			Well JP-31-53-809—Continued		
Owner: P. T. Keith Driller: Lightfoot and McCrum			Red clay	10	115
Soil	3	3	Brown clay clods and sand	5	120
Sandy clay	7	10	Brown clay	15	135
Sand	40	50	Well JP-31-53-901		
Water sand and gravel	18	68	Owner: Joe Little Driller: J. T. Brown Water Well Drilling		
Red bed	30	98	Brown topsoil	3.5	3.5
Sand and gravel	17	115	Yellow clay, gravel, and sand	14.5	18
Blue and green clay	2	117	White soapstone clods	13	31
Sand and gravel	8	125	Yellow sand	25	56
Yellow and blue clay	10	135	Dark brown sand	5	61
Well JP-31-53-808			Blue clay	9	70
Owner: Bill Keith Driller: Lightfoot and McCrum			Dark gray sand	18	88
Sand	2	2	Red and green clay	13	101
Red clay	8	10	White sand	13	114
Sand and gravel	52	62	Travis Peak gravel and sand	114	228
Gravel (water)	5	67	Well JP-31-54-604		
Yellow clay	2	69	Owner: W. L. Payton and Frakes Driller: Jones Drilling Co.		
Red bed	35	104	Topsoil	1	1
Blue and yellow clay	2	106	Subsoil	5	6
Sand	5	111	Sandy soil	14	20
Sand and gravel	12	123	Sandy shale	40	60
Yellow and blue clay	11	134	Top water	5	65
Well JP-31-53-809			Blue shale	25	90
Owner: C. T. Keith Driller: J. T. Brown Water Well Drilling			Lime rock	140	230
Brown sand	2	2	Sandy shale	70	300
Red clay	6	8	Water sand	10	310
Brown clay and sand	10	18	Water gravel	15	325
White sand	27	45	No record	3	328
Gravel	20	65	Well JP-31-54-802		
Green clay	5	70	Owner: J. L. Kiker No. 1 Driller: Dale Smith and Louisiana Machine Co. (Complete log not shown)		
White clay clods and sand	15	85	Soil	6	6
Red clay	10	95	Clay	6	12
Brown clay and sand	10	105			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-54-802—Continued			Well JP-31-55-104		
Sand	5	17	Owner: City of Stephenville Driller: Jones Drilling Co.		
Shale, sandy	68	85	Soil	5	5
Shale, gray	105	190	Sandy loam	10	15
Shale, sandy	5	195	Broken lime and shale	166	181
Wood logs	11	206	Red bed	2	183
Shale, sandy	19	225	Red bed and shale	14	197
Sand	8	233	Sandy shale	50	247
Shale, red	10	243	Water sand	40	287
Shale, sandy	12	255	Water gravel	3	290
Sand, gravel, water	36	291	Sandy shale	29	319
Shale, brown	4	295	Sandy shale	6	325
Shale, blue	5	300	Blue shale	20	345
Sand	15	315	Gumbo clay	4	349
Shale, red	5	320	Red and blue shale	16	365
Sand, hard, red, water	50	370	Sandy shale	13	378
Gravel	6	376	Water sand and gravel (Trinity)	22	400
Shale	66	442	Shale	2	402
Gravel and sand	11	453			
Shale	2	455	Well JP-31-55-105		
Gravel, sand, and shale	17	472	Owner: City of Stephenville Driller: Texas Water Wells		
Shale	100	572	Ground level	3.5	3.5
			Surface	4.5	8
Well JP-31-55-103			Rock	1	9
Owner: City of Stephenville Driller: Texas Water Wells			Caliche, clay	12	21
Ground level	3.5	3.5	Rock	2	23
Surface	3.5	7	Caliche, clay, rock	27	50
Clay	5	12	Sand and clay	5	55
Caliche and clay	8	20	Rock, clay	10	65
Sand with lime streaks	20	40	Sand, clay	10	75
Shale and lime streaks	30	70	Sand, rock	5	80
Lime, sand, and shale streak	174	244	Rock, clay	5	85
Sand - some gravel	24	268	Shale, lime	75	160
Rock	1	269	Shale streaks, red bed	20	180
Red bed	31	300	Sand, shale streaks	28	208
Sand - fine gravel	61	361	Sand, shale, clay	22	230
Shale clay	16	377	Sand, clay	20	250
Lime and clay	23	400			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-105—Continued			Well JP-31-55-107		
Shale, clay	20	270	Owner: City of Stephenville Driller: Fort Worth Drilling Co.		
Shale, red clay	10	280	Yellow	20	20
Red bed	20	300	Lime	5	25
Sand	20	320	Blue shale	5	30
Sand, shale	10	330	Lime	5	35
Sand, gravel	31	361	Blue shale	20	55
Clay and lime	31	392	White lime	25	80
Well JP-31-55-106			Brown, hard lime	5	85
Owner: City of Stephenville Driller: Fort Worth Drilling Co.			Gray shale	18	103
Shale, blue	20	20	White lime	2	105
Lime	10	30	Blue shale	3	108
Shale, blue	5	35	White lime	7	115
Lime	20	55	Brown shale	5	120
Lime, white	15	70	White lime	40	160
Lime, hard	10	80	Sandy shale	54	214
Shale, gray	5	85	Sand	23	237
Lime, white	21	106	Water	21	258
Shale, blue	2	108	Blue shale	2	260
Lime, white	7	115	Red shale	10	270
Shale, brown	5	120	Sandy shale	20	290
Lime, white	15	135	White lime	5	295
Shale, blue	5	140	Sandy shale	20	315
Lime	10	150	Blue shale	5	320
Shale, blue	20	170	Red shale	5	325
Shale, sandy	44	214	Sand	10	335
Sand	23	237	Blue shale	10	345
Water	7	244	Water sand	15	360
Sand	11	255	Red shale	8	368
Shale, blue	15	270	Well JP-31-55-111		
Shale, sandy	20	290	Owner: City of Stephenville Driller: — Hamilton		
Shale, blue	5	295	Soil	7	7
Shale, sandy	20	315	Lime	2	9
Shale, blue	26	341	Caliche	21	30
Sand	4	345	Blue shale	55	85
Sand	19	364	Water	5	90
Shale, blue	2	366			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-111—Continued			Well JP-31-55-113—Continued		
Lime	80	170	Shale	7	60
Shale	5	175	Lime and shale	110	170
Red bed	2	177	Shale	10	180
Shale	78	255	Red bed	5	185
Lime	5	260	Lime	10	195
Shale	10	270	Shale	10	205
Water sand	35	305	Caliche	3	208
Red shale	5	310	Blue shale	7	215
Sandy shale	20	330	Lime	10	225
Red shale	25	355	Water sand	10	235
Water sand	22	377	Shale	10	245
Well JP-31-55-112			Water sand	35	280
Owner: City of Stephenville			Shale	5	285
Driller: — Hamilton			Red bed	10	295
Sand	3	3	Red and blue shale	50	345
Red shale	7	10	Sandy lime	15	360
Caliche	15	25	Sand	30	390
Blue shale	18	43	Well JP-31-55-114		
Lime and shale	142	185	Owner: City of Stephenville		
Red bed	5	190	Driller: Jones Drilling Co.		
Shale	5	195	Sandy loam	5	5
Lime	5	200	Sandy clay	10	15
Shale	30	230	Broken lime and shale (Glen Rose)	166	181
Sand and shale	30	260	Red bed	2	183
Lime	2	262	Red bed and shale streaks	14	197
Water sand	23	285	Sandy shale, sticky	50	247
Shale	60	345	Water sand (Paluxy)	40	287
Sandy lime	12	357	Water gravel	3	290
Red shale	20	377	Sandy shale	29	319
Water sand	11	388	Gumbo, red, sticky	6	325
Brown shale	3	391	Blue shale	20	345
Well JP-31-55-113			Gumbo, red, sticky	4	349
Owner: City of Stephenville			Red and blue shale	16	365
Driller: — Hamilton			Sand and gravel	3	368
Soil	8	8	Blue shale	23	391
Lime	2	10			
Caliche	20	30			
Lime	23	53			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-204			Well JP-31-55-301—Continued		
Owner: City of Stephenville Driller: J. B. Tatum			Red bed	6	60
Topsoil	6	6	Brown shale	15	75
Clay	6	12	Red bed	10	85
Lime	2	14	Sandy shale	27	112
Shale	21	35	Sand - water	4	116
Lime	7	42	Broken lime and blue shale	19	135
Sand and water	3	45	Blue shale	8	143
Shale	11	56	Broken lime and blue shale	5	148
Lime	4	60	Shale conglomerate	17	165
Broken lime	30	90	Broken lime	10	175
Shale	8	98	Sandy shale	13	188
Shale	17	115	Blue gumbo shale	7	195
Broken lime	23	138	Lime rock - hard	54	249
Shale	10	148	Gumbo shale, blue	1	250
Red bed	4	152	Lime rock and blue shale	50	300
Shale	16	168	Sandy shale	15	315
Lignite	2	170	Sand, dry	10	325
Dry sand	10	180	Sandy shale	17	342
Red rock	4	184	Sand and shale	3	345
Hard sand	26	210	Sand, water	50	395
Water	5	215	Sand and lime	10	405
Shale	5	220	Lime and red sand	15	420
Dry sand	20	240	Lime, gravel	15	435
Clay and sand	33	273	Sand	15	450
Red bed	3	276	Lime rock, shale	20	470
Sand and water	14	290	Red sand and lime	20	490
Blue shale	10	300	Water sand	7	497
Red bed	7	307	Gravel, water	16	513
Sand and gravel	44	351	Red bed	7	520
Well JP-31-55-301			Well JP-31-55-302		
Owner: H. S. Foster Driller: Terry Drilling and Supply Co.			Owner: H. S. Foster Driller: Unknown		
Topsoil and rock	3	3	Surface	5	5
Brown rock	19	22	Caliche	15	20
Broken lime and blue shale	23	45	Dry Sand	10	30
White lime	5	50	Sand rock	22	52
Green shale	4	54			

Table 3.--Drillers' Logs of Selected Wells in Erath County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-302--Continued			Well JP-31-55-402--Continued		
Water sand	15	67	Blue shale, sandy (increase in water)	10	60
Lime	6	73	Lime, hard	14	74
Blue shale	20	93	Blue shale	16	90
Sandy lime, water	11	104	Blue shale, hard	11	101
Blue shale	4	108	Blue shale	69	170
Lime	10	118	Blue shale, hard	45	215
Sandy shale	7	125	Blue shale, sandy	50	265
Sandy lime	15	140	Pack sand	10	275
Blue shale	5	145	Paluxy water sand and gravel	20	295
Lime, hard	6	151	Red bed	20	315
Shale and lime	61	212	Sand, fine, top Trinity	10	325
Hard lime	28	240	Trinity sand	15	340
Dry sand	5	245	Red bed	3	343
Sandy lime	5	250			
Blue shale	7	257	Well JP-31-55-407		
Red bed	2	259	Owner: Wolfe Nurseries Driller: Jones Drilling Co.		
Sandy, blue shale	21	280	Sandy soil	5	5
Sand and water	25	305	Red clay	13	18
Shale	5	310	Sand	62	80
Sand and water	25	335	Shale - lime	175	255
Shale	5	340	Pack sand	10	265
Sand	30	370	Water sand and gravel	43	308
Sand, gravel, and water	15	385	Streaks of water sand and shale	50	358
Sandy lime	23	408	Red clay	22	380
Sandy shale	8	416	Travis Peak water sand	28	408
Sandy shale	4	420			
Red shale	4	424	Well JP-31-55-801		
Water sand	36	460	Owner: City of Stephenville Driller: Texas Water Wells		
Sand and gravel	17	477	Rock, clay, and caliche	20	20
Red bed	11	488	Blue rock and shale	14	34
Well JP-31-55-402			Lime rock and shale	119	153
Owner: Bob Love Driller: Terry Drilling and Supply Co.			Gray shale and lime rock streaks	82	236
Topsoil and clay	7	7	Red and gray shale	36	271
Caliche	33	40	Gravel and sand	7	278
Sand rock, hard	3	43	Red and gray shale	52	330
Water sand	3	46			
Blue shale	4	50			

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-801—Continued			Well JP-31-62-104—Continued		
Sand and shale	62	392	Sand	8	310
Shale, red and gray lime	62	454	Coarse sand	10	320
Well JP-31-55-803			Sand and shale breaks	10	330
Owner: Mrs. Fowler Driller: Jones Drilling Co.			Gravel	17	347
Surface soil	3	3	Gravel and shale breaks	10	357
Yellow clay	12	15	Gravel	22	379
Shale and lime	69	84	Hard, sandy shale	18	397
Hard lime	1	85	Sand	65	462
Shale and lime streaks	85	170	Hard shale	7	469
Sandy shale	10	180	Well JP-31-62-201		
Shale	49	229	Owner: F. A. Knape Driller: Jones Drilling Co.		
Sandy shale	11	240	Sandy soil	5	5
Sand	6	246	Red clay	13	18
Water sand	28	274	Sand	62	80
Water gravel	10	284	Shale and lime	175	255
Shale	12	296	Pack sand	10	265
Red bed, shale	7	303	Water sand and gravel	43	308
Red bed	27	330	Streaks of water sand and shale	50	358
Trinity sand and gravel	30	360	Red clay	22	380
Well JP-31-62-104			Trinity water sand	28	408
Owner: City of Dublin Driller: Texas Water Wells			Well JP-31-62-301		
Rock and hard shale	29	29	Owner: Cottonwood Baptist Church Driller: J. T. Brown Water Well Drilling		
Hard shale	21	50	Sand	20	20
Fine sand	15	65	Yellow clay clods	3	23
Shale and sand breaks	27	92	Yellow clay	12	35
Hard shale	61	153	Gray shale	115	150
Rock and shale	59	212	Dark gray shale	15	165
Shale	6	218	Gray shale, clay	37	202
Hard shale	17	235	Red and green clay	10	212
Shale	35	270	Red clay	4	216
Sandy shale	10	280	White sand	9	225
Rock	2	282	Green and red clay	5	230
Shale	10	292	White sand	14	244
Sandy shale	10	302	Green and red clay	8	252
			White sand	4	256

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-62-501			Well JP-31-63-301		
Owner: Liston Wiggins Driller: Texas Irrigation Sales, Inc.			Owner: J. B. McConnell Driller: Bill Wolf and Son		
White caliche	12	12	Surface	16	16
White and blue sand, caliche rock	16	28	Broken rock - clay	5	21
Limestone and sand	30	58	Clay	1	22
Blue and white limestone and loose shale	30	88	Shale	4	26
Loose shale	78	166	Rock	15	41
Loose shale and sand	26	192	Sand rock	6	47
Loose shale and sand	14	206	Shale, sand, rock, clay (small layers)	50	97
Limestone and shale (small gravel)	10	216	Coal and clay layers	21	118
Sand (small gravel)	10	226	Sand gravel, small layers clay to rock	84	202
Red bed and sand	10	236	Well JP-31-64-301		
Red bed and sand	10	246	Owner: M. C. Lowry Driller: Terry Drilling and Supply Co.		
Small gravel and sand	10	256	Soil	5	5
Small gravel and sand	10	266	Sand	27	32
Small gravel and sand	10	276	Water sand	10	42
Sand, fine, white	10	286	Sand rock	8	50
Sand, fine, white	10	296	White lime (Glen Rose)	202	252
Sand, fine, white and larger gravel	10	306	Sand, water	34	286
Sand, white, larger	10	316	Lime shell	9	295
Sand and small gravel	10	326	Blue shale	5	300
Sand and small gravel, red bed	10	336	Red bed	10	310
Sand and small gravel, red bed	10	346	Blue shale	5	316
Red bed	10	356	Sand, gravel, water	32	347
Red bed	10	366	Red bed	6	353
Red bed	10	376	Well JP-32-41-103		
Red bed and lime	10	386	Owner: Stanley Allen Driller: A. L. Rodgers		
Red bed and lime	10	396	Surface sand and clay	35	35
Red bed and trace of sand	10	406	Water sand	10	45
Lime and trace of sand	10	416	Yellow clay	35	80
Red bed, limestone, small gravel	10	426	Gravel	5	85
Red bed, blue shale, and limestone	10	436	Red clay	20	105
			Water sand	35	140
			Blue shale	6	146

Table 3.—Drillers' Logs of Selected Wells in Erath County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-32-49-501			Well JP-32-49-502		
Owner: E. L. Huffman Driller: Jones Drilling Co.			Owner: E. L. Huffman Driller: Jones Drilling Co.		
Surface soil	2	2	Surface sand	2	2
Yellow clay	13	15	Yellow clay	12	14
Sandy clay	30	45	Sand (water seep)	1	15
Water sand (55 gpm)	10	55	Sandy clay	45	60
Sandy shale	45	100	Lime and shell	204	264
Lime and shell	264	364	Water sand with shale breaks	100	364
Water sand with shale breaks	40	404	Red bed	21	385
Red bed	21	425	Water sand	10	395
Water sand	10	435	Red bed	18	413
Red bed	16	451	Water sand	79	492
Water sand	61	512			

ERATH COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well JP-31-39-502		Well JP-31-46-901—Continued		Well JP-31-53-207—Continued	
Owner: — Fruehauf		Feb. 9, 1968	291.50	Nov. 29, 1966	60.24
Oct. 28, 1965	62.22	Mar. 27, 1969	293.50	Dec. 30, 1966	62.24
Mar. 25, 1966	62.45	Well JP-31-48-401		Feb. 3, 1967	60.98
Mar. 9, 1967	60	Owner: J. W. Waldie		Mar. 8, 1967	60.56
Mar. 28, 1968	63.52	1960		Apr. 25, 1967	61.19
Mar. 27, 1969	62.73	Oct. 14, 1965	46.38	June 8, 1967	60.54
Well JP-31-44-904		Mar. 25, 1966	53.08	July 5, 1967	63.73
Owner: L. E. Singleton		Mar. 9, 1967	46.57	Aug. 15, 1967	62.20
1964	35	Mar. 28, 1968	46.32	Sept. 18, 1967	60.34
Sept. 30, 1965	32.89	Mar. 27, 1969	46.44	Oct. 11, 1967	60.12
Mar. 23, 1966	34.82	Well JP-31-52-303		Nov. 14, 1967	59.77
Mar. 21, 1967	36.19	Owner: Gayle Mahan		Dec. 12, 1967	60.06
Mar. 27, 1968	35.08	Sept. 14, 1965	32.46	Jan. 17, 1968	60.07
Mar. 11, 1969	34.33	Mar. 24, 1966	29.64	Well JP-31-53-404	
Well JP-31-46-901		Mar. 8, 1967	30.03	Owner: Hanson and Taylor	
Owner: L. L. Hopke		Mar. 27, 1968	30.30	Nov. 29, 1966	51.75
Dec. 9, 1963	270	Mar. 26, 1969	29.24	Mar. 8, 1967	51.23
Oct. 13, 1965	290.59	Well JP-31-53-203		Mar. 27, 1968	51.68
Apr. 4, 1966	290.73	Owner: Louis Bays		Mar. 26, 1969	51.30
Aug. 31, 1966	290.70	Sept. 28, 1965	90.93	Well JP-31-53-501	
Sept. 28, 1966	298.01	Mar. 24, 1966	92.04	Owner: Wayne Keith	
Dec. 30, 1966	293.01	Mar. 8, 1967	89.03	Aug. 26, 1965	63.40
Feb. 3, 1967	290.84	Mar. 27, 1968	88.83	Mar. 24, 1966	58.05
Mar. 8, 1967	291.08	Mar. 26, 1969	88.47	Mar. 8, 1967	61.88
Apr. 25, 1967	290.73	Well JP-31-53-207		Mar. 27, 1968	58.62
June 7, 1967	293.20	Owner: B. E. Hanson		Mar. 26, 1969	62.10
July 5, 1967	301.65	Sept. 28, 1965	59.99	Well JP-31-53-503	
Aug. 15, 1967	301.88	Mar. 31, 1966	60.22	Owner: B. W. Mathis	
Sept. 19, 1967	296.62	July 15, 1966	53.31	Aug. 26, 1965	85.53
Oct. 11, 1967	293.13	Aug. 31, 1966	60.53	Mar. 24, 1966	78.66
Nov. 14, 1967	291.62	Sept. 27, 1966	64.16	Mar. 6, 1967	79.35
Dec. 12, 1967	290.99	Nov. 2, 1966	60.23		
Jan. 17, 1968	291.38				

Table 4.—Water Levels in Selected Wells in Erath County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well JP-31-53-601		Well JP-31-54-801		Well JP-31-55-114—Continued	
Owner: Ted Robbins		Owner: Leander Kiker		Nov. 2, 1966	239.18
Nov. 19, 1959	263	1960	200	Nov. 19, 1966	239.74
Mar. 6, 1967	267.40	Oct. 7, 1965	225.65	Dec. 30, 1966	240.65
Mar. 26, 1969	270.42	Mar. 25, 1966	223.94	Feb. 3, 1967	240.73
Well JP-31-53-718		Mar. 8, 1967	221.15	Mar. 9, 1967	240.75
Owner: R. E. House		Mar. 28, 1968	221.34	Apr. 25, 1967	239.65
Sept. 16, 1965	35	Mar. 27, 1969	222.50	June 8, 1967	239.64
Mar. 24, 1966	18.15	Well JP-31-55-107		July 5, 1967	246.43
Mar. 6, 1967	16.74	Owner: City of Stephenville		Aug. 15, 1967	252.60
Mar. 26, 1969	25.93	Feb. 23, 1966	219.37	Sept. 19, 1967	239.05
Well JP-31-53-805		Mar. 31, 1966	219.70	Oct. 11, 1967	246.92
Owner: B. W. Mathis		Aug. 31, 1966	231.77	Nov. 14, 1967	240.81
Aug. 31, 1966	67.33	Sept. 28, 1966	236.3	Dec. 12, 1967	240.30
Sept. 27, 1966	64.80	Nov. 2, 1966	238.22	Jan. 17, 1968	239.55
Nov. 2, 1966	65.90	Nov. 29, 1966	231.86	Feb. 9, 1968	239.37
Nov. 29, 1966	66.06	Dec. 30, 1966	227.32	Mar. 27, 1969	239.40
Dec. 30, 1966	64.47	Feb. 3, 1967	238.33	Well JP-31-55-202	
Feb. 3, 1967	67.05	Mar. 9, 1967	232.52	Owner: City of Stephenville	
Mar. 6, 1967	65.44	Apr. 25, 1967	237.84	Sept. 20, 1963	237
Apr. 25, 1967	64.72	June 8, 1967	245.89	Jan. 24, 1964	228
June 8, 1967	67.23	July 5, 1967	248.55	Oct. 27, 1965	231.15
Aug. 15, 1967	80.15	Aug. 15, 1967	265.35	Feb. 22, 1966	215.54
Sept. 19, 1967	66.20	Sept. 18, 1967	239.43	Feb. 23, 1966	219.15
Oct. 11, 1967	65.62	Oct. 11, 1967	246.03	Mar. 9, 1967	228.00
Nov. 14, 1967	64.98	Nov. 14, 1967	243.24	Mar. 27, 1969	229.60
Dec. 12, 1967	64.76	Dec. 12, 1967	235.40	Well JP-31-55-208	
Jan. 17, 1968	64.69	Jan. 17, 1968	225.45	Owner: Tarleton State College Farm	
Feb. 9, 1968	64.51	Feb. 9, 1968	227.79	Jan. 25, 1947	240
Mar. 26, 1969	65.40	Mar. 27, 1969	246.80	Oct. 29, 1965	245.38
Well JP-31-54-601		Well JP-31-55-114		Mar. 25, 1966	245.33
Owner: W. L. Payton and Frakes		Owner: City of Stephenville		Mar. 9, 1967	245.36
Mar. 25, 1966	47.35	Sept. 25, 1963	241	Mar. 28, 1968	245.62
Mar. 9, 1967	157.0	Oct. 29, 1965	241.87	Mar. 27, 1969	257.00
		Mar. 25, 1966	241.96		
		Aug. 31, 1966	239.54		
		Sept. 28, 1966	245.00		

Table 4.—Water Levels in Selected Wells in Erath County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well JP-31-55-301		Well JP-31-55-803—Continued		Well JP-31-63-301—Continued	
Owner: H. S. Foster		Mar. 10, 1967	220.42	Mar. 10, 1967	48.52
Dec. 16, 1959	240	Apr. 25, 1967	222.40	Mar. 27, 1968	96.43
Mar. 31, 1966	353.64	July 5, 1967	224.57	Mar. 26, 1969	96.69
Mar. 9, 1967	353.87	Sept. 19, 1967	222.37	Well JP-31-64-301	
Mar. 28, 1968	353.47	Oct. 11, 1967	221.20	Owner: M. C. Lowry	
Well JP-31-55-601		Nov. 14, 1967	220.93	Sept. 16, 1968	260.94
Owner: Gene Porter		Dec. 12, 1967	220.08	Mar. 26, 1969	258.90
Oct. 26, 1965	245.44	Jan. 17, 1968	222.80	Well JP-32-49-501	
Apr. 4, 1966	245.34	Feb. 9, 1968	223.48	Owner: E. L. Huffman	
Well JP-31-55-801		Mar. 26, 1969	221.05	Nov. 15, 1963	45
Owner: City of Stephenville		Well JP-31-61-301		Oct. 15, 1965	226.02
Feb. 24, 1966	232.09	Owner: Thurston House		Apr. 4, 1966	261.65
Mar. 10, 1967	210.13	Dec. 1, 1959	97	Mar. 13, 1967	261.70
Mar. 26, 1969	214.55	Aug. 25, 1965	99.41	Mar. 27, 1968	262.02
Well JP-31-55-803		Mar. 24, 1966	103.79	Mar. 26, 1969	262.19
Owner: Mrs. Fowler		Mar. 6, 1967	99.52	Well JP-41-08-202	
July 3, 1963	235	Mar. 27, 1968	97.00	Owner: George Holliday	
Oct. 14, 1965	246.12	Mar. 26, 1969	98.30	Oct. 25, 1965	114.22
Feb. 23, 1966	221.82	Well JP-31-62-104		Mar. 24, 1966	112.32
Aug. 31, 1966	220.78	Owner: City of Dublin		Mar. 10, 1967	113.73
Sept. 28, 1966	220.02	Mar. 24, 1966	198.01	Mar. 26, 1969	113.86
Nov. 2, 1966	219.98	Mar. 8, 1967	330.0		
Nov. 29, 1966	219.75	Apr. 2, 1969	331.2		
Feb. 3, 1967	220.86	Well JP-31-63-301			
		Owner: J. B. McConnell			
		Oct. 15, 1965	51.21		
		Mar. 24, 1966	48.56		

BRATH COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Rea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Egr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpa, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHMS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
JP-31-38-802	60	Mar. 11, 1969	Ktp	16	--	86	26	36	--	318	35	52	0.5	26.5	--	435	--	323	20	742	7.4	0.9
1/ 39-901	35	Mar. 6, 1968	Kho	--	--	96	60	--	--	147	90	131	--	--	--	--	--	--	--	--	7.1	--
1/ 902	32	do.	do.	--	--	117	94	--	--	193	225	292	--	--	--	--	--	--	--	--	7.2	--
44-903	105	Aug. 11, 1966	Ktp	15	--	70	13	* 32	--	155	38	86	.1	9	--	339	--	230	23	619	6.6	.9
904	125	do.	do.	15	--	110	22	* 41	--	232	36	156	.1	8	--	500	--	365	20	921	7.2	.9
904	125	Mar. 11, 1969	do.	16	--	91	15	38	--	203	29	117	.2	5.3	--	411	--	288	22	744	6.9	.9
46-204	396	Sept. 17, 1968	Khe, Kho	16	0.34	106	37	30	--	403	105	39	.6	< .4	--	530	--	419	14	854	7.5	.6
47-402	392	do.	Khe	15	1.40	102	50	28	--	416	121	51	.4	< .4	--	570	--	462	12	918	7.5	.6
48-402	150	Oct. 14, 1965	Ktp	11	--	82	18	9	--	314	22	14	.5	< .4	--	471	311	281	7	550	7.3	.2
52-302	100	Sept. 14, 1965	do.	16	--	54	10	23	--	142	17	35	.2	12	--	329	257	177	27	467	7.0	.8
302	100	July 22, 1968	do.	--	--	--	--	--	1	--	--	--	--	--	0.1	--	--	--	--	--	--	--
304	130	Sept. 26, 1965	do.	13	--	86	13	23	--	328	9	24	.2	3	--	499	332	270	16	579	7.4	.6
306	114	Aug. 11, 1966	do.	15	--	117	20	* 52	--	210	48	191	.1	< .4	--	550	--	375	23	993	7.0	1.2
306	114	Mar. 11, 1969	do.	16	--	129	24	83	--	232	52	249	< .1	< .4	--	670	--	421	30	1,185	6.8	1.8
604	80	Sept. 16, 1965	do.	15	--	79	13	31	--	256	20	53	.3	12	--	479	349	251	21	613	7.3	.9
53-202	120	Sept. 28, 1965	do.	18	--	101	13	19	--	323	23	37	.3	10.5	--	550	381	307	12	660	7.4	.5
505	125	Sept. 14, 1965	do.	12	--	122	27	50	--	339	42	143	.5	13	--	750	577	415	21	1,050	7.3	1.1
601	317	Sept. 15, 1965	Khe	13	--	92	19	11	--	356	15	16	.3	< .4	--	520	342	309	7	592	7.4	.3
715	113	Sept. 16, 1965	Ktp	17	--	64	8	19	--	209	18	19	.3	22	--	376	271	196	18	458	7.3	.6
806	180	July 23, 1968	Khe	26	--	88	11	21	4	267	18	43	.2	10.5	.2	349	--	266	14	595	7.1	.6
2/ 54-801	387	Apr. 18, 1961	Ktp	13	--	69	28	16	2.9	336	13	22	.4	.5	.1	330	--	287	11	589	7.0	.4
801	387	Oct. 7, 1965	do.	12	--	67	26	22	--	327	16	21	.3	< .4	--	491	326	274	15	570	7.5	.6
55-103	400	Oct. 27, 1965	Khe, Kho	14	--	78	27	22	--	338	25	27	.4	3	--	530	362	307	14	625	7.4	.5
108	370	Aug. 14, 1944	Ktp	10	.21	74	29	* 25	--	342	26	36	.36	3	--	342	372	304	15	--	7.6	.6
2/ 108	370	Nov. 1945	do.	16	.1	76	29	19	5	341	27	33	.0	2.5	--	377	--	308	10	66.3	7.0	.4
2/ 202	600	Aug. 13, 1942	do.	--	.58	80	36	* 26	--	371	33	46	--	1	--	419	405	348	14	--	--	.6

See footnotes at end of table.

ERATH COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF W.S.L. (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ABSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
JP-31-55-203	372	Oct. 27, 1965	Ktp	14	--	78	29	21	--	349	25	25	0.4	3	--	540	367	313	13	640	7.6	0.5	
2/ 204	351	Aug. 13, 1942	do.	--	0.02	75	30	* 23	--	349	26	32	--	2.2	--	382	360	310	14	--	--	.6	
2/ 204	351	Nov. 1945	do.	16	.10	90	38	9.7	5.2	383	39	36	.2	2.2	--	432	--	380	5	73.4	7.0	.2	
	205	370	Oct. 27, 1965	do.	13	--	88	36	20	--	371	48	34	.4	< .4	--	422	--	368	11	725	7.6	.5
	207	511	do.	do.	13	--	76	30	18	--	360	19	22	.4	3	--	510	358	316	11	630	7.4	.4
	304	360	Oct. 14, 1965	Khe	14	--	78	32	17	--	368	28	20	.4	< .4	--	560	371	326	10	640	7.4	.4
	407	408	Oct. 7, 1965	Ktp	18	--	86	59	108	--	409	187	131	1.1	< .4	--	791	--	456	34	1,300	7.5	2.2
	407	408	July 22, 1968	do.	--	--	--	--	--	3	--	--	--	--	0.2	--	--	--	--	--	--	--	
2/ 701	290	Apr. 18, 1961	Khe	15	--	74	32	15	3.2	356	21	26	.5	.8	.0	363	--	316	9	643	6.9	.4	
3/ 802	420	Nov. 9, 1964	Ktp	11	.15	80.1	28.8	18.1	--	373.3	22	20	--	--	--	571	364	319	11	637	7.15	.4	
3/ 802	420	Nov. 14, 1964	do.	14	.2	57.6	26	32.6	--	322	19.2	27	--	--	--	517	335	251	22	600	7.21	.9	
2/ 61-202	190	Dec. 1, 1959	do.	18	--	132	13	34	5.4	382	32	74	--	16	.19	513	--	383	16	820	--	.8	
2/ 301	188	do.	do.	14	--	93	33	18	2.6	330	20	80	--	8.8	.06	431	--	368	10	794	6.9	.4	
	301	188	Aug. 25, 1965	do.	18	--	108	33	61	--	472	28	92	.4	7	--	820	579	406	25	1,000	7.4	1.3
	601	400	Sept. 29, 1965	Khe	15	--	85	38	18	--	379	65	12	.5	3	--	620	423	367	10	701	7.6	.4
	602	380	do.	do.	13	--	86	32	13	--	395	24	11	.4	< .4	--	570	374	346	8	640	7.6	.3
2/ 62-101	436	Jan. 6, 1939	Ktp	15	.14	74	38	* 31	--	406	37	25	< .4	.4	--	394	421	340	17	--	7.3	.7	
2/ 101	436	Jan. 15, 1947	do.	--	--	69	39	* 26	--	396	35	20	< .1	.0	--	396	384	332	15	69	--	.6	
	101	436	Aug. 13, 1953	do.	15	.12	58	39	39	--	384	38	25	.2	< .4	--	390	404	305	22	--	7.7	.9
	102	350	Jan. 6, 1939	Khe	14	.1	78	33	* 21	--	390	23	23	< .4	2.2	--	376	387	330	12	--	7.3	.5
2/ 102	350	Nov. 1945	do.	15	.4	79	33	11	4.1	380	22	17	.2	2.2	--	369	--	332	7	645	6.9	.3	
	102	350	Aug. 13, 1953	do.	16	.12	74	33	13	--	359	27	18	.2	3.5	--	355	--	320	8	--	7.7	.3
	103	412	Sept. 10, 1953	Ktp	15	.38	70	33	28	--	384	26	21	.4	3.5	--	385	--	310	16	--	7.5	.7
	104	469	Apr. 29, 1959	do.	--	.66	82	28	10	--	300	26	18	.2	1.8	--	407	315	320	6	679	7.3	.2
	105	476	Sept. 10, 1953	Khe, Kho	12	.04	69	33	30	--	366	36	25	.4	2.7	--	353	388	308	18	--	7.5	.7
	105	476	Apr. 29, 1959	do.	--	.06	74	28	10	--	354	25	20	.2	1.1	--	399	332	300	7	665	7.2	.3
2/ 401	109	Apr. 18, 1961	Kp	15	--	97	9.9	16	.8	318	16	21	.4	6.5	.04	339	--	282	11	596	6.8	.4	
	401	109	Sept. 29, 1965	do.	14	--	100	9	13	--	322	19	12	.3	16.5	--	510	342	288	9	573	7.4	.3
	501	436	July 23, 1968	Khe	15	--	84	31	18	3	376	30	18	.3	10.5	.2	392	--	338	10	654	7.5	.4
	63-101	390	Oct. 5, 1965	do.	14	--	80	38	15	--	394	36	18	.4	< .4	--	600	396	356	8	680	7.4	.3
	64-301	353	Sept. 16, 1968	do.	14	--	46	30	37	--	283	59	23	.4	< .4	--	348	--	238	25	590	7.7	1.0

See footnotes at end of table.

ERATH COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
JP-32-41-103	146	Oct. 25, 1965	Khe, Kho	14	--	48	33	93	--	372	92	33	.4	1.5	--	498	--	257	44	816	7.6	2.5
103	146	July 22 1968	do.	--	--	--	--	--	5	--	--	--	--	--	.2	--	--	--	--	--	--	--

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

- 1/ Halliburton Division Laboratory
- 2/ U.S. Geological Survey Laboratory
- 3/ Curtis Laboratories

ERATH COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
Pennsylvanian ^a	Strawn	—	2,900	K-10	3,160	559	24,184	124	30	44,587	72,856	7.38

^a Analyses obtained from data accompanying Railroad Commission of Texas' 1967 Salt Water Production and Disposal questionnaires.

EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in Erath County

FALLS COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JR-39-33-604	Perry Water Supply Corp.	J. L. Myers Sons	1964	3,651	10 7	56 3,651	Kho	471	+ 18.00 3.45	Mar. 2, 1965 Apr. 1, 1969	Sub, E 10	P	Gun perforated from 3,458 to 3,526 ft. Pumping level 180 ft at 95 gpm on Mar. 2, 1965. Pump set at 328 ft. Cemented. Temp. 120°F. Texas Water Development Board observation well. <u>2 3 4</u>
* 901	Tri County Water Supply Corp.	Texas Water Wells	1969	3,764	14 8 7	-- 805 3,756	do.	465	+ +	Jan. 24, 1969 Apr. 1, 1969	Sub, K 30 Flows	P	Gun perforated 20 shots 3,580 to 3,590 ft, 116 shots 3,608 to 3,666 ft, 40 shots 3,695 to 3,705 ft, and 40 shots 3,723 to 3,733 ft. Pumping level 400 ft at 260 gpm on Jan. 24, 1969. Pump set at 400 ft. Cemented from 3,764 ft to surface. <u>2</u>
* 41-602	Sanitarium Drug Co.	H. G. Johnson	1909	3,378	6 2	3,300 800	Kgr, Ktp	394	+ + + + 69.30	1935 1960 1961 June 19, 1968	Flows	P	Completed from 0 to 3,300 ft. Temp. 125°F.
* 604	City of Marlin	do.	1893	3,330	15 4 2	900 3,330 60	Kcp	395	+ 224 + 186 + + 69.30	1893 1939 1939 May 5, 1961 June 19, 1968	Flows	P	Cemented. Reported to flow 60 gpm in 1946. Temp. 147°F. <u>2</u>
* 57-401	City of Rosebud	--	1902	2,700	--	--	Kgr	405	--	--	N	N	Well plugged and abandoned.
* 40-40-804	Golinda Water Supply Corp.	J. L. Myers Sons	1957	2,640	12 8 5	52 604 2,636	Kho	486	+ 27 39.34	Apr. 1, 1969	Sub, E	P	Completed from 2,438 to 2,636 ft. Reported yield 110 gpm. Cemented. Temp. 94°F. Texas Water Development Board observation well. <u>2 3 4</u>
* 47-602	Mooreville Water Supply Corp.	West-Tex Tool Service	1965	2,609	7	2,609	do.	543	141 76.65	Aug. 1965 Apr. 1, 1969	Sub, K 5	P	Completed from 2,474 to 2,494, 2,514 to 2,522, and 2,530 to 2,544 ft. Pumping level 254 ft at 100 gpm in Aug. 1965. Pump set at 395 ft. Cemented. Texas Water Development Board observation well. <u>2 3 4</u>
* 48-501	G. DeGraffenried	Sun Oil Co.	1924	2,708	10 6	-- --	do.	450	+ 166 +	1924 June 19, 1968	Flows	D, S	Reported yield 800 gpm. Temp. 112°F. <u>2</u>
* 801	do.	H. B. Glass	1958	2,974	12 7	661 2,874	Kho	465	+ 29.5 + 13.74	Mar. 1, 1966 Apr. 1, 1969	T, E 5	P	Perforated from 2,774 to 2,874 ft. Pump set at 105 ft. Estimated yield 200 gpm. Cemented from 2,874 ft to surface. Temp. 130°F. Texas Water Development Board observation well. <u>2 3 4</u>
* 56-102	Cego-Durango Water Supply Corp.	Key Water Well Drilling-Development Co.	1968	2,768	8	2,768	do.	555	30	Feb. 5, 1968	Sub, E 10	P	Perforated from 2,708 to 2,748 and 2,756 to 2,768 ft. Pumping level 60 ft at 90 gpm on Feb. 11, 1968. Pump set at 300 ft. Reported yield 82 gpm. <u>2 3</u>
* 301	City of Lott	Layne Texas Co.	1940	3,295	10 6 5	500 2,962 3,300	do.	505	+ 152 15.75	Apr. 26, 1940 Apr. 1, 1969	T, E 7-1/2	P	Perforated from 2,950 to 3,300 ft. Estimated yield 175 gpm. Cemented. Temp. 138°F. Texas Water Development Board observation well. <u>2 3 4</u>

See footnotes at end of table.

FALLS COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* JR-40-64-101	Westphalia Water Supply Corp.	J. L. Myers Sons	1959	3,060	12 8 5	94 720 3,060	Kho	576	44 85.15	May 1959 Apr. 1, 1969	T, N 5	C	Perforated from 2,960 to 3,060 ft. Pump set at 150 ft. Cemented from 3,060 ft to surface. Texas Water Development Board observation well. <i>1/2/4</i>
* 601	City of Rosebud	Layne Texas Co.	1940	3,692	10 6 5	457 3,358 3,697	do.	380	+ +	July 26, 1940 June 19, 1968	FLOWER	N	Perforated from 1,353 to 3,697 ft. Reported yield 825 gpm in 1940. Cemented from 3,353 ft to surface. Temp. 150°F. <i>1/</i>

* For chemical analysis of water, see Table 5.

1/ For drillers' log of well, see Table 3.

2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.

3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.

4/ For water-level measurements, see Table 4.

FALLS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JR-39-42-801	H. C. Cockburn and Zephyr Oil Co.	N. D. Buie No. 1	1945	6,823	390	E
43-401	Cockburn and Gilliam	Gilliam No. 1	1945	7,606	403	E
801	Seaboard Oil Co. of Delaware	J. E. Green No. 1	1948	6,200	430	E
49-401	A. S. Hudgens	Lee Casey No. 1	1949	2,432	435	E
50-110	Dail Goodson	J. G. Barganier No. 1	1947	4,487	320	E
57-402	Delhi-Taylor Oil Corp.	J. A. Cobb No. 1	1955	4,024	390	E
40-47-702	Shallow Sands Oil Co.	Stifelman No. 1	1954	798	595	E
55-201	H. E. Rains	J. B. Scott No. 1	1951	1,110	500	E
56-302	Maury Hughes, Trustee, A. H. Bell	C. L. Trice No. 1	1941	3,104	480	E
64-102	Humble Oil and Refining Co.	Elanor Carroll No. 1	1951	3,717	530	E
201	do.	Emma Pieper No. 2	1952	2,887	434	E
701	W. P. Luse	Voltin No. 1	1951	2,926	445	E

FALLS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JR-39-41-604			Well JR-40-48-501—Continued		
Owner: City of Marlin Driller: H. G. Johnson			Chalk	98	735
Blue marl	1,150	1,150	Shale	45	780
Chalky limestone	200	1,350	Chalk	20	800
Blue clay	100	1,450	Blue shale	60	860
Limestone	125	1,575	Blue sandy shale	40	900
Blue clay	77	1,652	Blue shale	20	920
White limestone	338	1,990	Black shale	55	975
Shelly limestone and clay	200	2,190	Blue shale with hard lime shells	15	990
Limestone	1,000	3,190	Black shale	20	1,010
A little sand, first flow	10	3,200	Lime	33	1,043
Shaly limestone	100	3,300	Sandy shale	72	1,115
Sand	30	3,330	Lime (oil shows at 1,250 ft)	145	1,260
Well JR-40-40-804			Soft lime (sulphur)	5	1,265
Owner: Golinda Water Supply Corp. Driller: J. L. Myers Sons			Soft lime	9	1,274
Surface soil	4	4	Hard lime	5	1,279
Clay (Taylor)	48	52	Lime (oil showing)	61	1,340
Shale (Eagle Ford)	402	454	Blue shale	12	1,352
Chalk (Austin)	206	660	Lime (oil showing)	18	1,370
Shale (Edwards)	280	940	Soft lime	25	1,395
Lime (Buda)	1,160	2,100	Lime	35	1,430
Sand (Glen Rose)	176	2,276	Blue shale	15	1,445
Lime	43	2,319	Shale	55	1,500
Shale and sand (top of Trinity)	83	2,402	Lime	28	1,528
Sand	213	2,615	Blue shale	17	1,545
Shale	12	2,627	Lime	39	1,584
Red Bed	13	2,640	Shale	51	1,635
Well JR-40-48-501			Hard lime	5	1,640
Owner: G. DeGraffenried Driller: Sun Oil Co.			Lime	43	1,683
No record	245	245	Granulated lime (water)	11	1,694
Blue shale	65	310	Gray lime	46	1,740
No record	105	415	Blue shale	3	1,743
Blue shale	15	430	Gray lime	52	1,795
Gray marl	30	460	Granulated lime water	5	1,800
Gray marl	177	637	Gray lime	45	1,845
			Granulated lime water	3	1,848
			Gray lime	239	2,087

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-48-501—Continued			Well JR-40-56-102—Continued		
Blue shale	10	2,097	Shale	32	2,575
Gray lime	29	2,126	Sand	63	2,638
Light shale	4	2,130	Lime	63	2,701
Gray lime	37	2,167	Sand	67	2,768
Broken lime and shale	16	2,183			
Granulated lime water	11	2,194			
Hard lime	14	2,208			
Blue shale	16	2,224	Surface soil	3	3
Gray lime	11	2,235	Yellow clay	20	23
Granulated lime water	12	2,247	Black shale	122	145
Gray lime	38	2,285	Hard, sandy rock	88	233
Blue shale	2	2,287	Shale	624	857
Gray lime	58	2,345	Chalk	150	1,007
Granulated lime water	15	2,360	Shale	168	1,175
Gray lime	35	2,395	Shale - hard layers	50	1,225
Blue shale	5	2,400	Shale	15	1,240
Sandy shale	5	2,405	Buda lime	33	1,273
Gray lime	10	2,415	Shale	57	1,330
Blue shale	8	2,423	Hard shale	20	1,350
Gray lime	22	2,445	Georgetown lime	31	1,381
Granulated lime water	25	2,470	Lime	122	1,503
Sandy lime	22	2,492	Shale	14	1,517
Gray lime	8	2,500	Lime	129	1,646
Blue shale with shell streaks	45	2,545	Shale	16	1,662
Sandy lime	10	2,555	Lime and shale breaks	42	1,704
Lime and shale	20	2,575	Shale and lime	56	1,760
Sandy lime	5	2,580	Shale streaks - lime	56	1,816
Fine sand, water	50	2,630	Shale and layers of lime	24	1,840
Gray lime	10	2,640	Lime	32	1,872
Sand (water at 2,675 to 2,708 ft)	68	2,708	Lime and shale	33	1,905
			Lime and shale breaks	55	1,960
			Lime	20	1,980
			Shale	13	1,993
			Lime	36	2,029
Shale and lime	2,269	2,269	Lime and shale	197	2,226
Sand	164	2,433	Hard lime	9	2,235
Lime	62	2,495	Lime and shale	28	2,263
Sand	48	2,543	Lime and shale breaks	43	2,306

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-56-301—Continued			Well JR-40-56-301—Continued		
Lime	42	2,348	Sand (cored)	20	3,214
Lime and shale	32	2,380	Lime and sand layers	29	3,243
Shale	12	2,392	Sand and layers of hard shale	16	3,259
Lime	43	2,435	Hard sandy lime	11	3,270
Lime and shale	26	2,461	Sand	21	3,291
Lime	101	2,562	Shale	4	3,295
Lime and shale layers	50	2,612			
Sandy shale and sand	13	2,625			
Lime shale and anhydrite	42	2,667			
Lime and shale	28	2,695	Surface soil	3	3
Lime	31	2,726	Clay	83	86
Lime	46	2,772	Shale	544	630
Shale	63	2,835	Chalk rock	560	1,190
Sand	2	2,837	Shale	230	1,420
Shale	19	2,856	Lime	187	1,607
Hard shale	10	2,866	Lime and shale	293	1,900
Sandy lime (cored)	20	2,886	Sandy lime	125	2,025
Sandy lime and layers of hard lime	19	2,905	Lime	275	2,300
Lime and shale (cored)	5	2,910	Sandy lime	33	2,333
Porous lime and shale	17	2,927	Lime	332	2,665
Hard shale	25	2,952	Sandy lime	235	2,900
Hard sand (cored)	7	2,959	Sand	145	3,045
Blue shale	3	2,962	Shale	15	3,060
Hard sand and layers of red shale (cored)	26	2,988			
Sand and layers of red and blue shale (cored)	20	3,008	Soil	10	10
Sand - few layers of red and blue shale	42	3,050	Clay	20	30
Sand and shale (cored)	6	3,056	Black shale	145	175
Shale	8	3,064	Shale	670	845
Sand	12	3,076	Shale and chalk	91	936
Hard shale	14	3,090	Chalk	390	1,326
Hard sand - layers of hard shale (cored)	25	3,115	Shale	120	1,446
Sand	2	3,117	Chalk	22	1,468
Hard shale	28	3,145	Shale	62	1,530
Sand and shale layers (cored)	20	3,165	Shale and lime	31	1,561
Sand and layers of shale	29	3,194	Lime	18	1,579
			Lime and shale	60	1,639

Well JR-40-64-101

Owner: Westphalia Water Supply Corp.
Driller: J. L. Myers Sons

Well JR-40-64-601

Owner: City of Rosebud
Driller: Layne Texas Co.

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-64-601—Continued			Well JR-40-64-601—Continued		
Lime	157	1,796	Shale and lime	179	3,197
Chalky Lime	34	1,830	Sand	3	3,200
Lime	52	1,882	Hard shale	5	3,205
Shale	5	1,887	Sandy lime	10	3,215
Lime	44	1,931	Sandy lime and shale	30	3,245
Lime and layers of shale	73	2,004	Shale and lime	59	3,304
Shale and lime	359	2,363	Hard sandy lime	10	3,314
Lime	58	2,421	Sandy shale	16	3,330
Soft lime	18	2,439	Sand and layers of shale	15	3,345
Lime	14	2,453	Sand	48	3,393
Soft lime	36	2,489	Shale and lime	3	3,396
Lime	42	2,531	Sand	5	3,401
Lime and shale	120	2,651	Hard shale	2	3,403
Lime	49	2,700	Sand	30	3,433
Lime and shale	40	2,740	Hard shale	12	3,445
Lime	155	2,895	Sand	72	3,517
Lime and shale	62	2,957	Red and blue shale	5	3,522
Lime, shale, and anhydrite	20	2,977	Sand and layers of shale	152	3,674
Shale and lime	26	3,003	Sand	10	3,684
Shale and pyrite	10	3,013	Shale	8	3,692
Sand	5	3,018			

FALLS COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well JR-39-33-604		Well JR-40-47-602		Well JR-40-64-101	
Owner: Perry Water Supply Corp.		Owner: Mooreville Water Supply Corp.		Owner: Westphalia Water Supply Corp.	
Mar. 2, 1965	+ 18.00	Aug. 1965	141	May 1959	44
Feb. 28, 1966	+ 27.00	Mar. 1, 1966	145.0	Apr. 7, 1965	69.19
May 2, 1967	+ 13.6	May 2, 1967	69.08	Mar. 1, 1966	72.27
Mar. 18, 1968	+ 7.02	Mar. 18, 1968	75.00	Sept. 7, 1966	74.13
Apr. 1, 1969	3.45	Apr. 1, 1969	76.65	Nov. 3, 1966	73.84
Well JR-40-40-804		Well JR-40-48-801		Nov. 23, 1966	76.11
Owner: Golinda Water Supply Corp.		Owner: G. DeGraffenried		Dec. 28, 1966	70.83
1957	+ 27	Mar. 1, 1966	+ 29.5	May 2, 1967	77.04
Mar. 6, 1964	12.15	May 2, 1967	+ 28.5	June 7, 1967	75.30
Mar. 1, 1966	21.94	Apr. 1, 1969	+ 13.74	June 29, 1967	72.21
May 11, 1967	27.42	Well JR-40-56-301		Aug. 14, 1967	77.76
Mar. 18, 1968	33.70	Owner: City of Lott		Oct. 3, 1967	76.32
Apr. 1, 1969	39.34	Apr. 26, 1940	+ 152	Dec. 8, 1967	79.60
		May 5, 1966	+ 11.55	Jan. 12, 1968	80.23
		Apr. 1, 1969	15.75	Feb. 8, 1968	80.14
				Mar. 18, 1968	77.30
				Apr. 1, 1969	85.15

FALLS COUNTY

Table 5.--Chemical Analysis of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kw, Woodbine Group; Ke, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Roseton Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

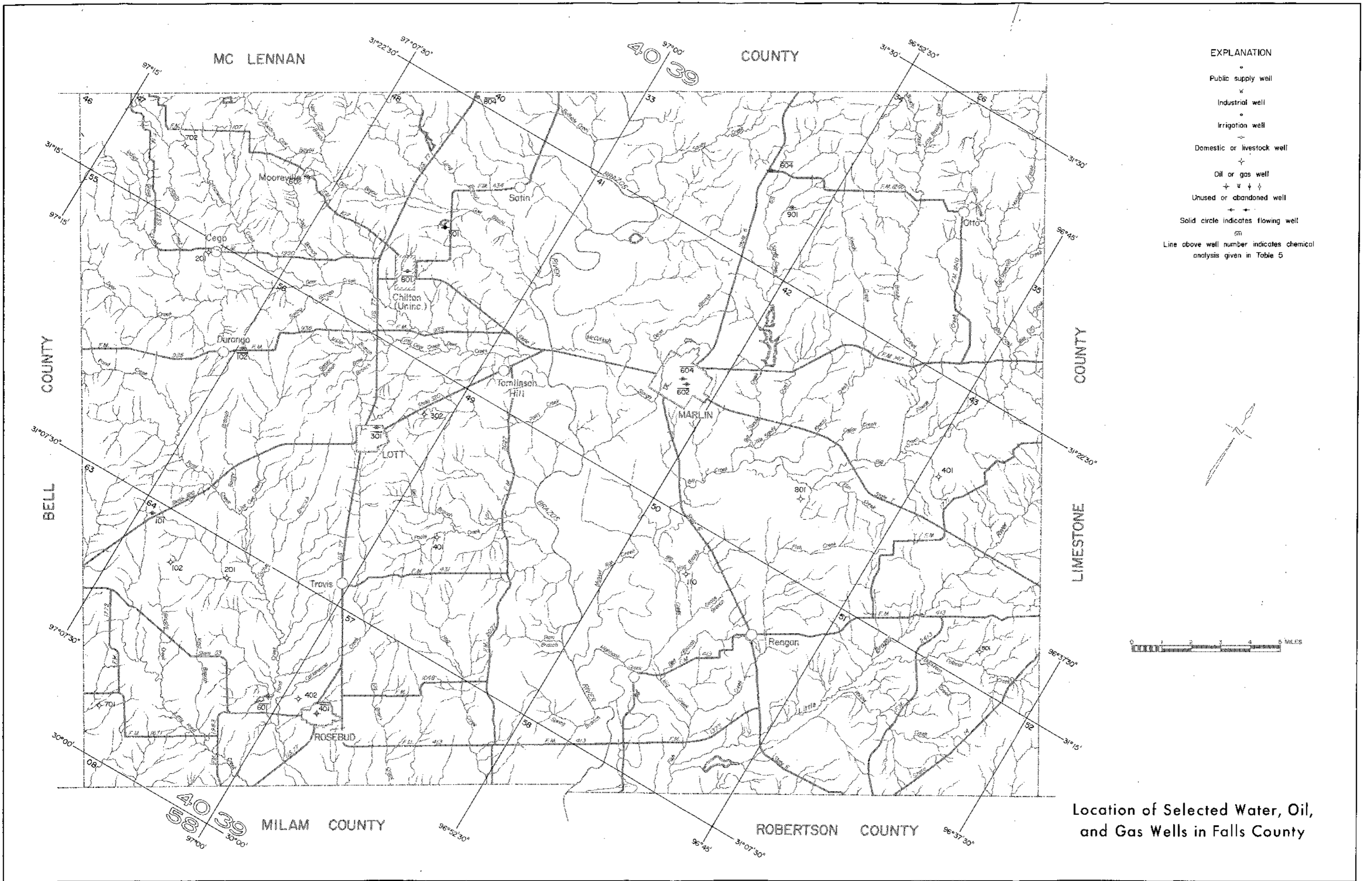
Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum on constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROHMOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
JR-39-33-604	3,651	June 11, 1964	Kho	--	0.63	19	4	294	7	465	252	59	3.7	< 0.4	--	1,110	869	65	91	1,536	7.9	16.0	
1/ 901	3,764	Jan. 24, 1969	do.	27.2	.5	23.5	4.4	255.5	--	446.1	171.4	63	2	.12	--	1,013	766	77	88	1,200	7.25	12.8	
2/ 41-602	3,378	Apr. 20, 1967	Kgr, Ktp	24	.32	248	64	* 3,127	--	481	4,906	1,546	--	--	--	10,512	10,152	885	89	13,000	7.16	45.8	
3/ 604	3,330	Feb. 23, 1938	Ktp	--	--	182	69	* 2,993	--	504	4,375	1,615	--	0	--	9,482	--	738	90	--	--	48.0	
3/ 604	3,330	June 13, 1944	do.	--	--	193	69	* 2,940	--	503	4,330	1,580	--	.8	--	9,360	--	765	89	--	--	46.2	
3/ 604	3,330	Oct. 20, 1960	do.	41	--	217	66	2,548	--	488	3,437	1,598	.1	--	--	9,625	8,147	1,067	87	--	--	38.9	
4/ 57-401	2,700	--	Kgr	96	.35	272	56	1,332	--	201	3,206	217	2	< .4	--	5,505	5,281	909	76	--	--	6.2	19.2
40-40-804	2,640	Sept. 17, 1968	Kho	24	.20	4	1	254	--	464	125	50	1.4	< .4	--	690	--	16	98	1,066	8.3	29.9	
47-602	2,609	Aug. 18, 1965	do.	--	.52	6	2	317	--	467	239	61	2.9	< .4	--	1,190	859	23	97	1,552	8.3	28.7	
3/ 48-301	2,708	June 13, 1944	do.	25	.14	55	17	* 503	--	433	802	66	3.1	0	--	1,680	--	208	84	2,440	7.8	15.2	
501	2,708	June 25, 1951	do.	34	1.84	73	26	* 688	--	427	976	156	3.6	< .4	--	2,060	2,169	290	84	--	7.6	17.6	
801	2,974	Jan. 3, 1966	do.	--	.24	5	2	283	--	489	148	48	2.4	< .4	--	980	729	19	97	--	8.4	27.4	
3/ 56-102	2,768	Feb. 13, 1968	do.	--	.1	4.8	2.4	299.6	--	492.9	150	57	1.3	.6	--	1,027.9	759	22	97	1,100	8.2	27.7	
301	3,295	May 27, 1940	do.	48	2.2	69	17	* 400	--	354	733	80	1.8	< .4	--	1,566	1,526	242	78	--	8.3	11.2	
3/ 301	3,295	June 13, 1944	do.	30	2.4	78	18	* 429	--	350	749	83	2.3	0	--	1,560	--	268	78	2,260	8.1	11.4	
301	3,295	Apr. 15, 1964	do.	--	.91	83	17	490	--	344	740	91	3.3	< .4	--	1,700	1,595	277	79	2,822	7.8	12.8	
5/ 64-101	3,060	May 8, 1959	do.	--	--	28	1	* 529	--	451	692	93	--	--	--	1,819	1,565	74	94	--	7.7	26.8	
101	3,060	Sept. 19, 1963	do.	--	.27	21	4	510	--	418	720	88	2.6	< .4	--	1,760	1,552	72	94	2,706	8.3	26.7	
601	3,692	Aug. 3, 1940	do.	260	.6	256	57	* 1,353	--	214	3,229	197	1.4	< .4	--	5,375	5,460	824	77	--	8.2	20.0	
601	3,692	Sept. 18, 1940	do.	17	.45	246	35	* 1,417	--	232	3,229	206	1	< .4	--	5,374	5,266	758	80	--	7.5	22.4	
601	3,692	July 21, 1943	do.	57	.5	281	45	* 1,400	--	171	3,325	218	1.5	< .4	--	5,599	5,413	886	77	--	7.3	20.4	
3/ 601	3,692	June 13, 1944	do.	--	--	270	42	* 1,420	--	209	3,320	214	--	.2	--	5,370	--	846	78	--	--	21.2	
601	3,692	May 30, 1946	do.	86	.35	272	56	* 1,332	--	201	3,206	217	2	< .4	--	5,505	5,271	909	76	--	6.2	19.2	

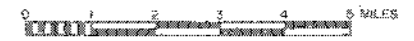
* Sodium and potassium calculated as sodium (Na)

- 1/ Curtis Laboratories
- 2/ Microbiology Service Laboratories
- 3/ U.S. Geological Survey Laboratory
- 4/ Laboratory unknown
- 5/ Pope Testing Laboratories



EXPLANATION

- Public supply well
- ∇ Industrial well
- Irrigation well
- ⊕ Domestic or livestock well
- ⊕ Oil or gas well
- ⊕ Unused or abandoned well
- ⊕ Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in Falls County

HAMILTON COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : KwB, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Klp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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
					DJAM-EPER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
LA-40-01-701	D. M. Proffitt	Jones Drilling Co.	1961	473	7	473	Khe	1,170	317.57 321.8	Apr. 6, 1966 Apr. 1, 1969	T, G	Irr	Texas Water Development Board observation well. <u>2/4</u>
09-101	Fairy School	Duncan Drilling Co.	1947	426	4	426	do.	1,240	375	Dec. 16, 1959	C, E 1-1/2	N	Perforated from 406 to 426 ft.
102	Parks and Allison	do.	1929	400	5	400	do.	1,207	360	do.	C, E 2	P	Open end completion. Pump set at 370 ft. Reported yield 3.5 gpm.
103	H. O. Richardson	--	1922	400	--	--	Kgr, Khe	1,210	304.3 230.1	Mar. 25, 1966 Mar. 24, 1969	N	N	Open hole. Texas Water Development Board observation well. <u>4</u>
104	Marvin Porterfield	Tatum Drilling Co.	1964	408	6 5	24 408	Khe	1,210	350	1964	Sub, E 1	D	Perforated from 370 to 408 ft. Pump set at 400 ft. Reported yield 5 gpm. <u>1/</u>
201	Duncan Ranch	Duncan Drilling Co.	--	760	10	758	Xho	1,175	379.3 386.20	Mar. 25, 1966 Mar. 24, 1969	C, E 5	D, S	Perforated from 698 to 758 ft. Texas Water Development Board observation well. <u>4</u>
202	do.	do.	1964	740	15	700	do.	1,195	439	Oct. 31, 1966	T, G 90	Irr	Open hole completion from 700 to 740 ft. Cemented from 700 ft to surface. <u>2/</u>
* 203	do.	L. W. Little Drilling Co.	1962	204	4	204	Kp	1,152	156.70	Dec. 17, 1968	C, W	D, S	Completed from 176 to 204 ft. Pumping level 174 ft at 10 gpm in Feb. 1962. Gravel packed. Temp. 68°F. <u>1/</u>
501	C. A. Bolland	Tatum Drilling Co.	1962	432	7 5	7.5 427	Khe	1,105	210	May 21, 1962	C, E 1-1/2	D	Pump set at 363 ft. Reported yield 3.6 gpm. Cemented from 7.5 ft to surface. <u>1/</u>
* 601	H. Stroud	--	--	60	--	--	Kp	1,114	--	--	C, W	S	--
801	Lydia Neie	Clarence Erickson	1965	332	4	332	do.	1,290	260	June 1965	C, E 3/4	D, S	Slotted from 308 to 332 ft. Pumping level 318 ft. at 4 gpm in June 1965. Pump set at 318 ft. Gravel packed. Cemented from 22 ft to surface. <u>1/</u>
901	J. D. Lawson	L. W. Little Drilling Co.	1961	505	4	486	Khe	1,135	340	Sept. 12, 1961	Sub, E	D, S	Slotted from 444 to 486 ft. Pumping level 340 ft at 8 gpm on Sept. 12, 1961. Gravel packed. <u>1/</u>
* 17-501	A. E. Grater	James Mathew Adams	1954	390	8 7	60 390	Khe	1,010	45 271.2	Mar. 9, 1960 Mar. 24, 1966	C, R 2	D, S	Perforated from 382 to 390 ft. Pump set at 370 ft. Reported yield 82 gpm.
* 702	A. G. Thompson	Tatum Drilling Co.	1964	327	5	327	do.	1,010	250 223.60	Sept. 10, 1964 Mar. 24, 1969	Sub, E 1	S	Perforated from 270 to 281 and 316 to 327 ft. Pumping level 300 ft at 8 gpm on Sept. 10, 1964. Pump set at 320 ft. Temp. 79°F. Texas Water Development Board observation well. <u>1/4</u>
18-201	Johnson Bratlsister	Clarence Erickson	1953	535	7 5	190 535	do.	965	190	Mar. 24, 1966	C, E 1	D, S	Slotted from 475 to 535 ft. Pump set at 255 ft. Reported yield 10 gpm.
* 701	Claud D. Smith	R. A. Adams and Son	1934	60	--	--	Kf	1,205	--	--	C, W	D, S	--

See footnotes at end of table.

HAMILTON COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
JA-40-18-702	John Galvorts	R. A. Adams and Son	--	528	7 4	138 528	Khe	1,050	--	--	--	S	Perforated from 482 to 502 and 515 to 528 ft. <u>y</u>
25-301	W. A. Suggs	do.	1963	403	6 4	16 403	do.	920	250	Jan. 1963	C, E 1/2	D	Perforated from 383 to 403 ft. Bailing level 250 ft at 25 gpm in Jan. 1963. Pump set at 294 ft. Reported yield 3.5 gpm. Cemented from 16 ft to surface. <u>y</u>
* 41-07-501	M. K. Taylor	Tatum Drilling Co.	--	100	5	100	Kp	1,330	65 37.55	Apr. 1, 1960 1, 1969	C, E	D, S	Perforated from 80 to 100 ft. Texas Water Development Board observation well. <u>y</u>
502	C. M. Roberson	do.	1962	108	5	108	do.	1,360	70.00	Dec. 16, 1968	Sub, E	S	Cemented from 32 ft to surface. <u>y</u>
* 08-201	J. P. Gattle Co.	do.	1963	264	6 5	23 240	Khe	1,135	235 228.5	Dec. 9, 1963 Apr. 1, 1969	Sub, S 1	D, S	Perforated from 240 to 264 ft. Pumping level 240 ft at 2 gpm on Dec. 9, 1963. Pump set at 256 ft. Reported yield 12 gpm. Cemented from 23 ft to surface. Temp. 74°F. Texas Water Development Board observation well. <u>y y</u>
* 301	City of Nico	--	1892	600	12	600	Kep	1,090	160 203.1	Oct. 23, 1964 Apr. 2, 1969	T, E 15	P	Completed from 440 to 600 ft. Pumping level 223 ft at 167 gpm on Jan. 12, 1965. Pump set at 250 ft. Reported yield 180 gpm. Well drilled to 1,392 ft and plugged back to 600 ft. Texas Water Development Board observation well. <u>z y</u>
* 302	do.	Jones and Duncan	1933	311	7	--	Khe, Kpe	1,090	177 200.63	Apr. 6, 1933 6, 1966	T, E 15	P	Reported yield 115 gpm. Texas Water Development Board observation well. <u>y y</u>
303	Bluebonnet Country Club	Leon Drilling Co.	1966	344	8	340	Khe	1,040	158	Jan. 26, 1966	Sub, E 7-1/2	Irr	Slotted from 235 to 340 ft. Pumping level 240 ft at 80 gpm on Jan. 26, 1966. Pump set at 275 ft. Gravel packed. Cemented from 125 to 150 ft. <u>y</u>
* 501	Luther Jaggors	--	--	240	5	240	Kgr	1,129	215	Mar. 15, 1960	C, W	S	
502	Billy Glidewell	Jonas Drilling Co.	1963	358	4	354	Khe	1,225	323.65 327.75	Apr. 6, 1966 Apr. 1, 1969	Sub, E	D, S	Slotted from 345 to 354 ft. Pump set at 345 ft. Cemented from 120 ft. to surface Texas Water Development Board observation well. <u>y y</u>
702	-- Sulman	Leon Drilling Co.	1963	345	4	345	do.	1,225	985	June 26, 1963	Sub, E 7-1/2	D, S	Slotted from 318 to 345 ft. Pumping level 300 ft at 10 gpm on June 26, 1963. Pump set at 317 ft. Gravel packed. Cemented from 230 to 245 ft. <u>y</u>
901	John Lockey	Duncan Drilling Co.	--	310	5	--	do.	1,200	--	--	C, W	D, S	
* 14-801	Lund Ranch	Tatum Drilling Co.	1965	273	4	273	do.	1,342	228 246.9	Mar. 27, 1965 Apr. 1, 1969	C, E	S	Slotted from 252 to 273 ft. Pumping level 245 ft at 8 gpm on Mar. 27, 1965. Pump set at 255 ft. Temp. 72°F. Texas Water Development Board observation well. <u>y y</u>
* 15-301	Mrs. R. D. Ford	do.	1963	60	5	60	Kp	1,280	13.50	Dec. 18, 1968	C, E 1/2	S	Perforated from 40 to 60 ft. Pump set at 57 ft. Reported yield 4 gpm. Cemented from 15 to 24 ft. Temp. 67°F. <u>y</u>
* 501	J. L. Roberson	Steward Drilling	1956	210	10	210	Khe, Khp	1,020	18 20.75	Jan. 26, 1960 Apr. 1, 1969	T, G 60	Irr	Perforated from 10 to 210 ft. Pumping level 110 ft at 350 gpm. Texas Water Development Board observation well. <u>y y</u>
16-203	H. D. Wuemling	Tatum Drilling Co.	1963	75	5	75	Kp	1,200	36.70	Dec. 17, 1968	C, W	N	Perforated. Pump set at 72 ft. Reported yield 1 gpm. <u>y</u>
501	Frederick S. Rice	do.	1963	199	4	199	Khe	1,005	160	Oct. 12, 1963	Sub, E 1/2	S	Completed from 140 to 160 and 175 to 199 ft. Pump set at 186 ft. Reported yield 10 gpm. <u>y</u>

See footnotes at end of table.

HAMILTON COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) SURFACE DATUM (ft)	DATE OF MEASUREMENT			
LA-41-16-801	C. H. Craig	J. R. Morrow	1959	235	10	235	Kgr, Khe	990	78 62.15	Jan. 26, 1960 Mar. 24, 1969	N	N	Perforated from 60 to 235 ft. Reported yield 350 gpm. Gravel packed. Texas Water Development Board observation well. <u>Y Y</u>
21-801	Mrs. Bert Mayfield	Tatum Drilling Co.	1962	371	4	371	Khe	1,570	--	--	C, E 1-1/2	D, S	Pump set at 360 ft. Reported yield 3.6 gpm. <u>Y</u>
22-402	Herman Rea	R. A. Adams and Son	1964	107	--	--	Kp	1,435	51.40	Dec. 12, 1968	C, W	D, S	Estimated yield 3 gpm. Temp. 70°F. <u>Y</u>
* 501	O. F. Gromatzky	--	--	200	6	--	Khe	1,315	--	--	N	N	Reported yield 3 gpm when used. Temp. 62°F. Well plugged and abandoned.
* 502	Perry Karasok	Tatum Drilling Co.	1963	230	7 5	14 230	do.	1,325	160 166.78	July 15, 1963 Apr. 1, 1969	Sub, E 3/4	D	Perforated from 218 to 230 ft. Pumping level 200 ft at 6 gpm on July 15, 1963. Pump set at 225 ft. Cemented from 14 ft to surface. Temp. 72°F. Texas Water Development Board observation well. <u>Y Y</u>
503	O. F. Gromatzky	do.	1954	212	4	212	do.	1,322	150	1954	Sub, E 3/4	P	Slotted from 185 to 212 ft. Baffling level 155 ft at 18 gpm in 1954. Pump set at 200 ft. Estimated yield 19 gpm. Cemented from 19 ft to surface
702	C. O. Schulz	do.	1963	317	6 5	29 317	do.	1,445	240 242.8	Oct. 7, 1963 Apr. 13, 1966	Sub, E 1	D	Perforated. Pumping level 270 ft at 12 gpm on Oct. 7, 1963. Pump set at 300 ft. Cemented from 20 to 28 ft. <u>Y</u>
23-101	J. R. Bailey	--	1919	300	5	--	do.	1,330	229	Mar. 16, 1960	C, W	S	
* 301	City of Hamilton	J. L. Myers Sons	1948	600	16 10 8	72 516 600	do.	1,275	388	Jan. 28, 1960	Sub, E 15	P	Perforated from 516 to 585 ft. Pumping level 506 ft at 52 gpm on May 31, 1962. Pump set at 506 ft. <u>Y Y</u>
* 302	Adelle May	Tatum Drilling Co.	1965	130	5	130	Kp	1,301	70 94.20	Mar. 11, 1965 Dec. 17, 1968	Sub, E 1/3	D	Perforated from 110 to 130 ft. Pump set at 120 ft. Reported yield 5 gpm. Cemented from 30 ft to surface. Temp. 67°F. <u>Y</u>
401	Jack R. Kaney	L. W. Little Drilling Co.	1961	362	4	362	Khe	1,380	341 304.85	Aug. 5, 1961 Dec. 13, 1968	C, E 1/2	S	Slotted from 320 to 362 ft. Pumping level 341 ft at 8 gpm on Sept. 5, 1961. Pump set at 348 ft. Gravel packed. <u>Y</u>
503	Edwin Crain	Tatum Drilling Co.	1963	46	5	46	Kp	1,290	20 21.90	Feb. 26, 1963 Dec. 17, 1968	J, E 3/4	S	Slotted from 34 to 46 ft. Pump set at 40 ft. Reported yield 20 gpm. <u>Y</u>
601	Perry Country Club	Leon Drilling Co.	1967	340	6	340	Kgr, Khe	1,240	245	Aug. 11, 1967	Sub, E 1-1/2	P	Slotted from 230 to 245 and 300 to 325 ft. Pumping level 317 ft at 16 gpm in 1967. Pump set at 317 ft. Reported yield 15 gpm. Gravel packed. <u>Y</u>
* 603	Hamilton Industrial Air Park	Tatum Drilling Co.	1964	137	5	135	Kp	1,300	70 89.75	Apr. 10, 1964 Dec. 13, 1968	C, E	D	Perforated. Pumping level 125 ft at 3 gpm on Apr. 10, 1964. Pump set at 127 ft. Temp. 54°F. <u>Y</u>
24-101	O'Dell Ranch	L. W. Little Drilling Co.	1961	460	4	460	Khe, Kpe	1,145	320	Feb. 25, 1961	C, E 1	D, S	Slotted from 408 to 460 ft. Pumping level 320 ft at 12 gpm on Feb. 25, 1961. Estimated yield 35 gpm. <u>Y</u>
102	Dannie C. Harris	R. A. Adams and Son	--	301	7 5	36 301	Kgr, Khe	1,164	--	--	C, W	D, S	Pump set at 286 ft. Reported yield 9 gpm. <u>Y</u>
* 401	City of Hamilton	J. L. Myers Sons	1948	601	16 12 10	5 507 601	Khe, Kho	1,160	432 287.1	Mar. 31, 1961 Mar. 24, 1969	Sub, E 35	P	Perforated and cemented. Pumping level 364 ft at 103 gpm on May 17, 1965. Reported yield 80 gpm. Texas Water Development Board observation well. <u>Y Y Y Y</u>

See footnotes at end of table.

HAMILTON COUNTY

Table 1. -- Records of Selected Water 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
					DIAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* LA-41-24-402	City of Hamilton	J. R. Morrow	--	460	10 8	-- --	Khe	1,150	--	--	N	N	Well plugged and abandoned.
* 403	do.	J. L. Myers Sons	1948	569	20 12 10	9 450 569	do.	1,240	--	--	Sub, E 30	F	Perforated from 450 to 490 and 510 to 569 ft. Pumping level 458 ft at 95 gpm on June 2, 1965. Reported yield 90 gpm. Cemented from 450 ft to surface. <u>y</u> <u>z</u> <u>z</u>
* 404	do.	Jones Drilling Co.	--	540	12 10	90 540	Khe, Kpe Kho	1,124	333	May 31, 1961	Sub, E 15	F	Perforated from 390 to 415, 445 to 480, and 510 to 540 ft. Reported yield 37 gpm.
* 405	J. C. Latham	L. W. Little Drilling Co.	1960	511	4	448	Khe	1,180	250	Oct. 16, 1960	C, E	S	Slotted from 348 to 367, 412 to 416, and 426 to 448 ft. Estimated yield 10 gpm. <u>y</u>
406	Lester Coalson	Tatum Drilling Co.	1964	439	7 5	47 439	do.	1,203	300 305.65	Sept. 4, 1964 Mar. 24, 1969	Sub, E 1-1/2	D, S	Perforated from 416 to 439 ft. Pumping level 340 ft at 18 gpm on Sept. 4, 1964. Pump set at 404 ft. Cemented from 47 ft to surface. Texas Water Development Board observation well. <u>y</u> <u>z</u>
501	Herman B. Meester	L. W. Little Drilling Co.	1963	489	4	489	do.	1,170	370	June 17, 1963	C, E 3/4	D	Slotted from 440 to 489 ft. Pumping level 370 ft at 8 gpm on June 17, 1963. Pump set at 384 ft. Reported yield 3 gpm. Gravel packed. Cemented from 8 ft to surface. <u>y</u>
503	Frank Craig and Dewey Sellers	do.	1963	356	4	356	do.	1,085	310	Aug. 17, 1963	C, E 1	S	Slotted from 334 to 356 ft. Pumping level 310 ft at 8 gpm on Aug. 17, 1963. Pump set at 325 ft. Gravel packed. Cemented from 4 ft to surface. <u>y</u>
701	Roy Brazil	Tatum Drilling Co.	1964	515	5	441	Kgr, Khe	1,310	--	--	C, E 1	D	Perforated from 360 to 382 and 429 to 441 ft. Pump set at 458 ft. <u>y</u>
702	Gene Pruitt	do.	1964	485	5	485	do.	1,335	--	--	Sub, E 3/4	D	Perforated. Pump set at 460 ft. Cemented from 17 ft to surface. <u>y</u>
30-301	August Nieman	do.	1962	275	5	275	Khe	1,325	230	Aug. 25, 1962	C, G 1-1/2	S	Pumping level 245 ft at 5 gpm on Aug. 25, 1962. Pump set at 254 ft. Reported yield 3.5 gpm. Cemented from 38 to 47 ft. <u>y</u>
31-202	Mrs. J. W. Wagner	--	--	250	5	--	Kgr, Kha	1,233	194 184.53	Feb. 15, 1960 Mar. 24, 1969	N	N	Texas Water Development Board observation well. <u>z</u>
602	Rankin Russel	Tatum Drilling Co.	1962	324	5	324	Khe	1,268	280.95 288.1	Apr. 8, 1966 Mar. 24, 1969	Sub, E 1	D	Pump set at 307 ft. Reported yield 7 gpm. Cemented from 55 to 60 ft. Texas Water Development Board observation well. <u>y</u> <u>z</u>
603	J. A. Millsap	--	--	101	--	101	Kp	1,265	54.37 54.25	Nov. 28 1966 Mar. 24, 1969	C, W	D, S	Perforated. Texas Water Development Board observation well. <u>z</u>
32-101	Jack Stribling	Tatum Drilling Co.	1964	275	5	275	Kgr	1,182	200 189.5	July 10, 1964 Mar. 17, 1967	Sub, E	S	Completed from 251 to 275 ft. Pumping level 235 ft at 12 gpm on July 10, 1964. Pump set at 265 ft. Texas Water Development Board observation well. <u>y</u> <u>z</u>
102	Mary Ruth Pruitt	do.	1964	253	5	253	do.	1,175	--	--	Sub, E 1	D	Perforated. Pump set at 244 ft. Reported yield 5 gpm. Cemented from 24 ft to surface. <u>y</u>
* 104	Mrs. Ben Winkler	do.	1963	75	5	67	Kp	1,210	53 48.80	Mar. 20, 1963 Dec. 12, 1968	C, W	N	Perforated from 55 to 67 ft. Reported yield 2 gpm. Cemented from 15 ft to surface. Temp. 68°F. <u>y</u>

See footnotes at end of table.

HAMILTON COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASINGS		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* LA-41-32-561	Charles Easterling	Tatum Drilling Co.	1963	390	5	368	Kgr, Khe	1,201	300 256.8	Nov. 1, 1963 Mar. 24, 1969	C, E 1	D	Slotted from 295 to 310 ft. Open hole from 368 to 390 ft. Pumping level 340 ft at 12 gpm on Nov 1, 1963. Pump set at 356 ft. Reported yield 3.6 gpm. Cemented from 15 to 19 ft. Temp. 70°F. Texas Water Development Board observation well. <u>1/4</u>
* 38-201	Carl M. Casbeer	--	1963	147	5	147	Kp	1,453	104.85	Dec. 11, 1968	C, W	S	Perforated. Temp. 66°F. <u>1/4</u>

* For chemical analysis of water, see Table 5.

1/ For drillers' log of well, see Table 3.

2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.

3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.

4/ For water-level measurements, see Table 4.

HAMILTON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LA-40-09-401	Amerada Petroleum Corp.	John Briscoe No. 1	1949	4,471	1,185	E,R,S
17-201	Luling Oil and Gas, et al.	Ernest Phillips No. 1	1950	4,413	1,272	S
703	Louisiana Coastal Petroleum Corp.	E. B. James No. 1	1967	3,997	1,055	E
41-08-701	Shell Development Co.	Garland Parker No. 1	1960	170	1,260	E,D
14-802	C. I. Producing Co.	C. E. Lund No. 1	1944	3,453	1,307	S
15-701	Grady Wallace, et al.	J. H. Robertson No. 1	1942	3,501	1,250	S
16-201	Seaboard Oil Corp.	Fee No. 1	1937	4,438	1,223	S
202	Amerada Petroleum Corp.	L. S. Burney, et al. No. 1	1949	5,238	1,200	R,S
601	Andrews, Smith Dugger and Herring Drilling Co.	J. R. Parks No. 1	1962	4,310	1,167	E
902	General American Oil Co.	Warren Sibley No. 1	1949	4,372	1,159	E
21-602	Dolan and Pate	Orville Richardson No. 1	1960	—	1,485	S
22-101	Lone Star Producing Co.	J. W. Harris No. 1	1966	2,725	1,427	E
401	Lone Star Gas Co.	E. J. Burks No. 1	1941	2,714	1,357	E
601	Shell Oil Co.	Jewell Christian-son No. 1	1965	3,883	1,385	R
701	Lone Star Producing Co.	E. Riewe No. 1	1947	3,350	1,471	E
23-201	Amerada Petroleum Co.	Maude S. McIntyre No. 1	1951	3,456	1,254	E,S
202	Prince Brothers Drilling Co.	Petrey No. 1	1951	3,440	1,260	E
502	Amerada Petroleum Co.	Alice D. Cowling No. 1	1950	3,740	1,259	S
602	Shell Development Co.	W. R. Streger No. 1	--	141	1,305	E
24-502	American Liberty Oil Co.	Bywaters, et al. No. 1	1949	3,855	1,091	S
31-301	Walter H. Grant	S. P. Drake No. 1	1936	3,835	1,210	S
902	American Manufacturing Co.	T. W. Winters No. 1	1947	3,604	1,243	E,S
32-103	Phillips Petroleum Co.	Townson No. A-1	1956	6,398	1,192	E,R

HAMILTON COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-40-09-104			Well LA-40-09-501—Continued		
Owner: Marvin Porterfield Driller: Tatum Drilling Co.			Water sand	5	425
Caliche	24	24	Blue clay (sandy)	7	432
Dark blue shale	54	78	Well LA-40-09-801		
Gray shale	36	114	Owner: Lydia Naie Driller: Clarence Erickson		
Blue clay	20	134	Hard layers rock and clay	8	8
White, sandy shale	10	144	Yellow clay	2	10
Gray shale	19	163	Blue soapstone	2	12
White sand	5	168	Hard, gray rock	68	80
Gray shale and limestone	216	384	Blue shale	10	90
Black sand	12	396	White rock	70	160
Sandy, blue shale	12	408	Broken lime	20	180
Well LA-40-09-203			Hard lime rock	90	270
Owner: Duncan Ranch Driller: L. W. Little Drilling Co.			Gray shale	33	303
Surface rock	23	23	Green shale	2	305
Hard, blue shale and limestone	119	142	Paluxy sand and water	15	320
Soft, blue shale	25	167	Black shale	4	324
Water sand (Paluxy)	30	197	Hard lime rock	8	332
Hard limestone	7	204	Well LA-40-09-901		
Well LA-40-09-501			Owner: J. D. Lawson Driller: L. W. Little Drilling Co.		
Owner: C. A. Bullard Driller: Tatum Drilling Co.			Surface	15	15
Caliche	4	4	Hard, white limestone	4	19
Limestone	1	5	Blue shale and limestone	156	175
Sandy shale	2	7	Fine, white sand	7	182
Blue shale	33	40	Blue shale and limestone	30	212
Limestone and white shale	30	70	Very hard, white limestone	48	260
Sticky, blue clay	20	90	Blue shale and limestone	101	361
Sandy shale and sandstone	20	110	White limestone and shale	78	439
Blue shale and limestone	40	150	Sand	6	445
Limestone (water) 24 gph	5	155	Green shale	5	450
Limestone and blue shale	135	290	Sand	6	456
Sandy shale and clay (blue)	70	360	Hard sand rock	1	457
Sand	5	365	Sandy shale	4	461
Blue clay and sandy clay	55	420	Sand	4	465
			Black shale	30	495

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-40-09-901—Continued			Well LA-40-25-301		
Sand	2	497	Owner: W. A. Suggs Driller: R. A. Adams and Son		
Black shale	8	505	Surface sand and gravel	12	12
Well LA-40-17-702			Glen Rose lime	288	300
Owner: A. G. Thompson Driller: Tatum Drilling Co.			Little sand and water	20	320
Caliche	19	19	Shale and lime streaks	50	370
Gray shale and limestone	206	225	Sand and lime	10	380
Crystal sandstone	3	228	Sand and water	23	403
Sandy shale	42	270	Well LA-41-07-502		
Water sand	8	278	Owner: C. M. Roberson Driller: Tatum Drilling Co.		
Sandy shale	37	315	Caliche and limestone	32	32
Brown, porous limestone (water)	10	325	Blue shale	23	55
White limestone	2	327	Sand	9	64
Well LA-40-18-702			Sandy, blue clay	25	89
Owner: John Calverts Driller: R. A. Adams and Son			Water sand	13	102
Yellow clay and chalk	20	20	Blue shale	6	108
Gray lime	51	71	Well LA-41-08-201		
Shale and lime	35	106	Owner: J. P. Cattle Co. Driller: Tatum Drilling Co.		
Sandy lime	9	115	Caliche	18	18
Sand	5	120	Blue shale and limestone	101	119
Blue shale	4	124	Gray shale	51	170
Glen Rose, 8 in. hard	14	138	Sandy, blue shale	15	185
Glen Rose, 6 in. hard	178	316	Dark sand	15	200
Green shale	5	321	Green, sandy shale	25	225
Glen Rose lime	102	423	Black sand	10	235
Green shale and lime	5	428	Sandy, blue shale	10	245
Blue shale	6	434	Black water sand	15	260
Sandy lime	4	438	Blue shale	4	264
Sandy lime and shale	6	444	Well LA-41-08-302		
Sandy lime	34	478	Owner: City of Hico Driller: Jones and Duncan		
Green shale	5	483	Surface	3	3
Sand and water	19	502	Lime	164	167
Black shale	4	506	Sand	5	172
Red, sandy shale	9	515	Hard rock	1	173
Sand and water	13	528	Sand and water	21	194

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-08-302—Continued			Well LA-41-08-502—Continued		
Green mud	3	197	Lime rock	23	95
Sand rock	7	204	Blue shale	2	97
Water	6	210	Lime rock	13	110
Hard sand	7	217	Blue shale	3	113
Sand and water	17	234	Lime rock	167	280
Sand rock	12	246	Sandy shale	60	340
Green muck	6	252	Top, water strata	18	358
Coarse sand	25	277			
Water	29	306	Well LA-41-08-702		
Rock	1.5	307.5	Owner: — Bulman Driller: Leon Drilling Co.		
Water	3.5	311	Caliche	30	30
			Hard sand (trace water)	35	65
Well LA-41-08-303			Gray lime - shale	85	150
Owner: Bluebonnet Country Club Driller: Leon Drilling Co.			Gray lime	15	165
Caliche and boulders	15	15	Lime - shale	25	190
Broken lime	60	75	Gray shale - shells	70	260
Gray lime	50	125	Dark, sandy shale	40	300
Broken lime - shale	28	153	Water sand and shells	40	340
Gray shale - shells	42	195	Gray lime	5	345
Water sand - trace water	25	220			
Hard sand - shells - shale	20	240	Well LA-41-14-801		
Water sand and gravel	40	280	Owner: Lund Ranch Driller: Tatum Drilling Co.		
Hard, sandy lime	7	287	Pack sand	30	30
Water sand and gravel - trace water	23	310	Limestone and blue shale	190	220
Sandy shale and shells	20	330	Sandy shale	25	245
Red rock - shale - sandy	14	344	Sand and gravel	20	265
			Brown limestone	8	273
Well LA-41-08-502					
Owner: Billy Glidewell Driller: Jones Drilling Co.			Well LA-41-15-301		
Topsoil	1	1	Owner: Mrs. R. D. Ford Driller: Tatum Drilling Co.		
Substrata	5	6	Caliche	22	22
Yellow shale	14	20	Dark blue shale	20	42
Blue shale	10	30	Black water sand	14	56
Lime rock	10	40	White limestone	4	60
Blue shale	10	50			
Lime rock	20	70	Well LA-41-15-501		
Blue shale	2	72	Owner: J. L. Roberson Driller: Stewart Drilling Co. (Partial log)		
			No record	7	7
			Sand and gravel	43	50

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-15-501—Continued			Well LA-41-22-402		
White rock	12	62	Owner: Herman Rea Driller: R. A. Adams and Son		
Sand and gravel	25	87	Soil and chalk rock	15	15
Red bed with gravel streaks	86	173	Lime	31	46
Sand and gravel	34	207	Paluxy, 2 gpm	22	68
Well LA-41-16-203			Glen Rose	39	107
Owner: H. D. Wuemling Driller: Tatum Drilling Co.			Well LA-41-22-502		
Caliche	14	14	Owner: Perry Karasek Driller: Tatum Drilling Co.		
Blue shale and limestone stringers	46	60	Caliche and limestone	14	14
Water sand	7	67	White lime	16	30
Blue shale	8	75	Blue shale	116	146
Well LA-41-16-501			Dark blue, sandy clay	4	150
Owner: Frederick S. Rice Driller: Tatum Drilling Co.			Gray shale	23	173
Limestone and caliche	15	15	Water sand	6	179
Blue shale	99	114	Gray, sandy shale	17	196
Sandy, blue shale	26	140	Red bed	8	204
Water sand, 3.5 gpm	10	150	Water sand	6	210
Sandy, blue shale	25	175	Green, sandy shale	10	220
Water sand	10	185	Water sand	10	230
Dark blue clay	14	199	Well LA-41-22-702		
Well LA-41-21-801			Owner: C. O. Schulz Driller: Tatum Drilling Co.		
Owner: Mrs. Bert Mayfield Driller: Tatum Drilling Co.			Caliche and sandstone	28	28
Weathered limestone	23	23	Blue shale	47	75
Blue shale and limestone	87	110	Water sand, 2 gpm	10	85
Sandy, blue shale	30	140	Blue shale and limestone	160	245
Blue shale and limestone	48	188	Blue, sandy shale and clay	47	292
Water sand, 1.5 gpm	5	193	Water sand	13	305
Blue shale and limestone	92	285	Porous, brown limestone	10	315
Sandy, blue clay	60	345	White limestone	2	317
Crystal sandstone, very hard	3	348	Well LA-41-23-301		
Blue clay	10	358	Owner: City of Hamilton Driller: J. L. Myers Sons		
Sand and gravel	12	370	Surface soil	2	2
Blue clay	1	371	Clay	3	5
			Rock and clay	9	14
			Lime and clay	23	37

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-23-301—Continued			Well LA-41-23-401—Continued		
Rock and shale	11	48	White sand	12	120
Sandy	49	97	White limestone and shale streaks	36	156
Sandy shale	19	116	Blue shale and limestone streaks	140	296
Lime	144	260	Green sand (fine)	5	301
Shale and lime	28	288	Green shale	3	304
Lime	10	298	Hard sand rock	4	308
Sand	4	302	Blue shale and limestone	20	328
Broken lime and shale	2	304	Water sand (fine)	20	348
Shale	12	316	Shale and sand streaks	8	356
Lime and sandy shale	29	345	Water sand (fine)	4	360
Lime	8	353	Hard sandstone	2	362
Red mix shale	12	365			
Sand	13	378			
Lime	6	384	Well LA-41-23-503		
Broken lime and sand	24	408	Owner: Edwin Crain Driller: Tatum Drilling Co.		
Sand	19	427	Caliche	16	16
Red bed	23	450	Peck sand	10	26
Mixture shale	20	470	Water sand	11	37
Sand	31	501	Blue shale	9	46
Hard rock	2	503			
Sand	72	575	Well LA-41-23-601		
Lime	25	600	Owner: Perry Country Club Driller: Leon Drilling Co.		
			Yellow clay - shells	30	30
Well LA-41-23-302			Gray shale and shells	70	100
Owner: Mrs. Adelle May Driller: Tatum Drilling Co.			Broken lime - shale	100	200
Caliche and limestone	27	27	Gray lime	30	230
Limestone and blue shale	42	69	Sandy shale - trace water	15	245
Dark blue shale	19	88	Sandy lime - shale	15	260
Sandstone and sand	28	116	Sandy shale - trace water	10	270
Gray, sandy shale	7	123	Sandy lime - shale	30	300
Limestone	7	130	Water sand	23	323
			Sandy lime	7	330
			Red shale - shells	10	340
Well LA-41-23-401					
Owner: Jack R. Raney Driller: L. W. Little Drilling Co.			Well LA-41-23-603		
Surface	2	2	Owner: Hamilton Industrial Air Park Driller: Tatum Drilling Co.		
Yellow clay	33	35	Caliche	10	10
Blue shale and limestone	55	90	Blue shale	30	40
Hard, white limestone	18	108			

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-23-603—Continued			Well LA-41-24-102—Continued		
Gray shale	35	75	Lime and shale streaks	11	260
Water sand	20	95	Sand and water, 2.5 gpm	5	265
Sandstone	10	105	Sand and water, 4 gpm	32	297
White limestone	20	125	Green shale	4	301
Brown, porous limestone	7	132			
Blue limestone	5	137			
Well LA-41-24-101			Well LA-41-24-401		
Owner: O'Dell Ranch Driller: L. W. Little Drilling Co.			Owner: City of Hamilton Driller: J. L. Myers Sons		
Surface	4	4	Soil	4	4
Blue shale and hard, blue lime rock	103	107	Rock	59	63
Hard, blue lime rock with shale streaks	95	202	Lime	68	131
Very hard, blue lime rock	8	210	Sand	10	141
Hard, blue lime rock with shale streaks	80	290	Sandy lime	13	154
Fine, green sand	6	296	Lime and shale	95	249
Green, sandy shale	24	320	Sand	30	279
Hard sand rock with shale streaks	11	331	Shale and lime	70	349
Hard lime rock	31	362	Sandy lime	20	369
Hard, red shale	41	403	Sand	71	440
Fine, green sand, turning to coarse white sand	10	413	Lime	70	510
Hard, black shale	5	418	Sand	67	577
Red shale	5	423	Shale and lime	24	601
White, coarse sand	5	428			
Red shale	21	449	Well LA-41-24-403		
White, coarse sand	3	452	Owner: City of Hamilton Driller: J. L. Myers Sons		
Red shale	8	460	Surface soil	2	2
			Rock and clay	26	28
			Sand, gravel and shell	8	36
			Sand	33	69
			Rock	9	78
			Lime	220	298
			Shale and lime	141	439
			Sandy lime	31	470
			Sand	94	564
			Shale	5	569
			Well LA-41-24-405		
			Owner: J. C. Latham Driller: L. W. Little Drilling Co.		
			Surface	14	14
			Hard limestone	2	16

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-24-405—Continued			Well LA-41-24-501		
Blue shale and boulders	17	33	Owner: Herman B. Meester Driller: L. W. Little Drilling Co.		
Blue limestone with shale breaks	199	232	Surface	5	5
Hard, brown limestone	6	238	Yellow clay	25	30
Blue - green shale	37	275	Hard, blue shale and limestone	229	259
Hard, blue shale with lime streaks	43	318	Fine sand and limestone shells	57	316
Hard, dark fine sand	18	336	Hard, white limestone	16	332
Hard sand rock	3	339	White shale and limestone	46	378
White shale with shell breaks	9	348	Red bed	52	430
Hard sand rock	12	360	Light green shale (soft)	11	441
Coarse, white sand	4	364	Red beds	13	454
Hard sand rock	3	367	Hard sand (Travis Peak)	32	486
Hard lime with brown granite	10	377	Red beds	3	489
Hard, blue shale	5	382	Well LA-41-24-503		
Red shale	30	412	Owner: Frank Graig and Dewey Sellers Driller: L. W. Little Drilling Co.		
Hard sand	4	416	Surface	9	9
Blue shale	10	426	Blue limestone	221	230
Sand with shale breaks	26	452	Sand	17	247
Shale with sand breaks	21	473	Blue limestone	5	252
Hard sand rock	3	476	Sand	14	266
Hard, blue shale and limestone	35	511	Blue limestone	19	285
Well LA-41-24-406			Sand	7	292
Owner: Lester Coalson Driller: Tatum Drilling Co.			Hard, blue shale	8	300
Sand	39	39	Sand	12	312
Limestone and gray shale	199	238	Blue limestone	18	330
Sandy shale	35	273	Green shale	2	332
Blue soapstone	8	281	Red shale	4	336
Green, sandy shale	14	295	Coarse, white sand	18	354
Red water sand	15	310	Red shale	2	356
Sandy shale and clay	50	360	Well LA-41-24-701		
Red bed	55	415	Owner: Roy Brazil Driller: Tatum Drilling Co.		
Water sand and gravel	24	439	Caliche and limestone	18	18
			Blue shale and limestone	90	108
			Blue clay	14	122
			Sandy, blue clay	18	140

Table 3.—Drillers Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-24-701—Continued			Well LA-41-31-602		
Brown sand	7	147	Owner: Rankin Russel Driller: Tatum Drilling Co.		
Blue shale and limestone	213	360	Caliche	31	31
Sandstone	27	387	Pack sand	29	60
Blue and green, sandy shale	48	435	Sandy shale and clay	120	180
Red bed	3	438	Blue shale and limestone	90	270
Crystal limestone	3	441	Black sand (2 gpm)	20	290
Dry, porous brown limestone	27	468	Blue clay	10	300
White, sandy shale and sandstone	22	490	Red bed	5	305
Red bed	25	515	Sand	5	310
			Blue, sandy shale	14	324
Well LA-41-24-702			Well LA-41-32-101		
Owner: Gene Pruitt Driller: Tatum Drilling Co.			Owner: Jack Stribling Driller: Tatum Drilling Co.		
Caliche and rock	16	16	Caliche	14	14
Blue soapstone	11	27	Yellow sand	11	25
Dark gray shale	83	110	Red sand	10	35
Light gray shale	33	143	Yellow sand	3	38
Dark soapstone	15	158	White limestone and gray shale	206	244
Gray sand	20	178	Sandy shale	6	250
Gray shale	221	399	Water sand (black)	12	262
Cap rock	1	400	Sandy shale	13	275
Sandy shale	10	410			
Water sand	10	420	Well LA-41-32-102		
Sandy shale	44	464	Owner: Mary Ruth Pruitt Driller: Tatum Drilling Co.		
Porous, brown limestone	15	479	White sand	18	18
Limestone	6	485	Yellow sand	6	24
			Blue shale	15	39
Well LA-41-30-301			Gray shale	186	225
Owner: August Nieman Driller: Tatum Drilling Co.			Black, water sand (charcoal)	12	237
Caliche and limestone	16	16	Gray shale	8	245
Sandy clay, yellow	22	38	Sandstone	2	247
Sand, water, .5 gpm	5	43	Gray soapstone	6	253
White shale and blue shale	195	238			
Sandy, blue clay	18	256	Well LA-41-32-104		
Sand and sandstone	16	272	Owner: Mrs. Ben Winkler Driller: Tatum Drilling Co.		
Blue shale	3	275	Topsoil	3	3
			Caliche	11	14

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-32-104—Continued			Well LA-41-32-501—Continued		
Blue clay	31	45	Water sand, 2 gpm	9	307
Water sand	20	65	Green, rotten, sandy shale	61	368
White lime	10	75	White limestone	3	371
			Brown, porous limestone	14	385
			White limestone	5	390
Well LA-41-32-501			Well LA-41-38-201		
Owner: Charles Easterling Driller: Tatum Drilling Co.			Owner: Carl M. Casbeer Driller: Unknown		
Caliche	19	19	Yellow clay	20	20
Blue shale	17	36	White lime	90	110
Dark blue clay	15	51	Gray water sand	30	140
White sand	5	56	White lime	7	147
White limestone and blue shale	239	295			
Blue clay	3	298			

HAMILTON COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well LA-40-01-701		Well LA-40-09-201—Continued		Well LA-41-08-302	
Owner: D. M. Proffitt				Owner: City of Hico	
Apr. 6, 1966	317.57	Oct. 4, 1967	385.59	1933	177
Mar. 9, 1967	320.50	Nov. 6, 1967	393.19	Dec. 16, 1959	160
Apr. 1, 1969	321.8	Dec. 1, 1967	385.99	Apr. 6, 1966	200.63
Well LA-40-09-103		Jan. 4, 1968	385.86	Well LA-41-08-502	
Owner: H. O. Richardson		Feb. 6, 1968	387.80	Owner: Billy Glidewell	
Mar. 25, 1966	304.3	Mar. 18, 1968	385.10	Apr. 6, 1966	323.65
Aug. 25, 1966	255.02	Mar. 24, 1969	386.20	Mar. 17, 1967	327.22
Sept. 28, 1966	266.65	Well LA-40-17-702		Mar. 12, 1968	325.37
Oct. 31, 1966	302.7	Owner: A. G. Thompson		Apr. 1, 1969	327.75
Nov. 28, 1966	303.3	Sept. 10, 1964	250	Well LA-41-14-801	
Dec. 29, 1966	304.2	Apr. 11, 1966	224.72	Owner: Lund Ranch	
Mar. 9, 1967	303.6	Mar. 17, 1967	218.40	Mar. 27, 1965	228
May 2, 1967	269.2	Mar. 24, 1969	223.60	Apr. 13, 1966	244.3
June 6, 1967	300.1	Well LA-41-07-501		Mar. 22, 1967	246.6
June 29, 1967	267.57	Owner: M. K. Taylor		Mar. 12, 1968	246.0
Sept. 12, 1967	309.0	Mar. 17, 1967	37.72	Apr. 1, 1969	246.9
Oct. 4, 1967	303.6	Mar. 12, 1968	27.77	Well LA-41-15-501	
Dec. 1, 1967	298.5	Apr. 1, 1969	37.55	Owner: J. L. Roberson	
Jan. 4, 1968	302.3	Well LA-41-08-201		Jan. 26, 1960	18
Mar. 24, 1969	230.1	Owner: J. P. Cattle Co.		Apr. 12, 1966	24.02
Well LA-40-09-201		Dec. 9, 1963	235	Mar. 22, 1967	23.22
Owner: Duncan Ranch		Apr. 6, 1966	229.4	Apr. 1, 1969	20.75
Mar. 25, 1966	379.3	May 19, 1967	233.20	Well LA-41-16-801	
Oct. 31, 1966	385.27	Apr. 1, 1969	228.5	Owner: C. H. Craig	
Nov. 28, 1966	382.34	Well LA-41-08-301		Jan. 26, 1960	78
Dec. 29, 1966	382.13	Owner: City of Hico		Apr. 1, 1966	70.65
Feb. 7, 1967	381.99	Oct. 23, 1964	160	Mar. 17, 1967	75.78
Mar. 9, 1967	381.95	Jan. 5, 1965	198	Mar. 24, 1969	62.15
May 2, 1967	385.88	Apr. 6, 1966	201.01		
June 6, 1967	383.74	Mar. 9, 1967	202.3		
June 29, 1967	383.68	Mar. 12, 1968	202.58		
Aug. 2, 1967	383.96	Apr. 2, 1969	203.1		
Sept. 12, 1967	391.14				

Table 4.—Water Levels in Selected Wells in Hamilton County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well LA-41-22-502		Well LA-41-24-401—Continued		Well LA-41-31-202—Continued	
Owner: Perry Karasek		Mar. 17, 1967	289.19	Apr. 12, 1967	191.90
July 15, 1963	160	May 2, 1967	294.08	Mar. 13, 1968	188.04
Apr. 13, 1966	163.11	June 6, 1967	292.10	Mar. 24, 1969	184.53
Nov. 28, 1966	163.27	June 28, 1967	286.97	Well LA-41-31-602	
Jan. 2, 1967	162.80	Aug. 2, 1967	290.91	Owner: Rankin Russet	
Feb. 9, 1967	162.90	Sept. 12, 1967	292.22	Apr. 8, 1966	280.95
Mar. 22, 1967	163.35	Oct. 4, 1967	292.21	Aug. 26, 1966	264.65
May 2, 1967	164.82	Nov. 6, 1967	286.95	Sept. 26, 1966	260.0
June 29, 1967	170.67	Dec. 1, 1967	286.60	Mar. 19, 1968	284.3
Aug. 2, 1967	170.36	Jan. 4, 1968	286.63	Mar. 24, 1969	288.1
Oct. 5, 1967	167.99	Feb. 6, 1968	286.25	Well LA-41-31-603	
Nov. 9, 1967	167.50	Mar. 12, 1968	285.92	Owner: J. A. Millsap	
Dec. 5, 1967	167.17	Mar. 24, 1969	287.1	Nov. 28, 1966	54.37
Jan. 15, 1968	168.85	Well LA-41-24-406		Dec. 29, 1966	54.17
Mar. 12, 1968	161.17	Owner: Lester Coalson		Feb. 7, 1967	56.02
Apr. 1, 1969	166.78	Sept. 4, 1964	300	Apr. 12, 1967	53.81
Well LA-41-24-401		June 2, 1965	313.15	May 2, 1967	54.30
Owner: City of Hamilton		Apr. 7, 1966	306.45	June 28, 1967	54.40
Mar. 31, 1961	432	Mar. 17, 1967	301.75	Mar. 14, 1968	54.47
May 17, 1965	320.14	Mar. 24, 1969	305.65	Mar. 24, 1969	54.25
Apr. 7, 1966	290.06	Well LA-41-31-202		Well LA-41-32-101	
Aug. 25, 1966	301.99	Owner: Mrs. J. W. Wagner		Owner: Jack Stribling	
Sept. 26, 1966	288.9	Feb. 15, 1960	194	July 10, 1964	200
Oct. 31, 1966	288.2	Apr. 8, 1966	191.25	Apr. 12, 1966	199.6
Dec. 29, 1966	308.50	Well LA-41-32-501		Mar. 17, 1967	189.5
		Owner: Charles Easterling			
				Nov. 1, 1963	300
				Mar. 19, 1968	241.4
				Mar. 24, 1969	256.8

HAMILTON COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department-of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHMS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
LA-40-09-203	204	Dec. 17, 1968	Kp	10	0.40	8	3	234	--	401	157	38	1.6	< 0.4	--	650	--	33	94	1,000	8.0	17.9
y 601	60	Mar. 10, 1960	do.	8.6	--	109	7.3	* 78	--	324	92	59	0.4	32	--	562	546	302	36	895	7.2	1.9
y 17-501	390	Mar. 9, 1960	Khe	10	--	6.8	4.6	* 366	--	450	260	130	2.4	2.5	--	1,000	--	36	96	1,620	7.9	26.5
702	327	Sept. 4, 1968	do.	8	--	12	13	450	--	500	373	168	5.4	3.5	--	1,280	--	85	94	2,000	7.8	24.8
y 18-701	60	Apr. 19, 1960	Kf	11	--	138	2.7	* 13	--	392	18	16	--	27	--	455	419	356	7	--	6.8	0.3
y 41-07-501	100	Jan. 26, 1960	Kp	9.8	.38	136	1.4	* 48	--	339	54	42	.3	70	--	545	529	346	23	833	7.2	1.1
08-201	264	Sept. 4, 1968	Khe	13	--	58	37	52	--	329	106	30	.4	< .4	--	458	--	299	28	750	7.6	1.3
301	600	Dec. 15, 1951	Ktp	14	.52	70	39	* 31	--	348	63	36	.2	< .4	--	394	426	335	17	--	7.4	.7
301	600	Mar. 4, 1959	do.	--	.08	64	36	24	--	339	48	30	.3	< .4	--	432	370	310	14	720	7.0	.6
301	600	May 13, 1963	do.	--	.18	--	--	--	--	348	45	29	.5	< .4	--	550	--	315	--	744	--	--
302	311	Dec. 15, 1951	Khe, Kpe	16	.15	67	36	* 44	--	354	67	36	.2	< .4	--	395	441	315	23	--	7.6	1.1
302	311	Mar. 4, 1959	do.	--	.08	63	35	25	--	337	48	30	.3	< .4	--	430	368	305	15	716	6.9	.6
y 302	311	Dec. 16, 1959	do.	16	--	67	33	* 34.3	--	344	50	30	.4	.8	0.19	401	--	302	20	685	7.1	.9
302	311	May 13, 1963	do.	--	.12	66	35	29	--	348	48	29	.5	< .4	--	560	379	329	17	750	--	.7
y 501	240	Apr. 17, 1961	Kgr	12	--	38	26	* 105	--	273	109	66	--	.2	--	490	--	202	53	839	7.6	3.2
14-801	273	Sept. 4, 1968	Khe	12	--	29	23	126	--	388	80	33	.9	< .4	--	495	--	167	62	825	7.8	4.2
15-301	60	Dec. 18, 1968	Kp	9	1.08	86	8	13	--	287	20	11	.6	< .4	--	289	--	246	10	488	7.4	.4
y 501	210	Jan. 26, 1960	Khe, Kho	18	3.6	102	28	* 43.6	--	387	104	28	--	.2	.07	514	--	370	20	814	7.2	.9
22-402	107	Dec. 12, 1968	Kp	21	--	204	78	33	--	206	620	52	2.4	< .4	--	1,110	--	830	8	1,450	6.8	.5
y 501	200	Mar. 19, 1946	Khe	12	3.6	63	24	* 163	--	411	144	74	.6	2.5	--	678	689	256	58	1,110	7.7	4.4
502	230	Sept. 3, 1968	do.	10	--	32	22	250	--	407	227	112	1.4	1	--	860	--	170	76	1,400	7.5	8.3
23-301	600	Mar. 31, 1952	do.	17	1.2	21	13	* 275	--	415	205	107	1	4.9	--	815	849	106	85	--	7.6	11.6
301	600	June 19, 1961	do.	--	.45	14	10	282	--	405	146	134	.8	1.6	--	859	788	79	94	1,432	7.4	19.8
302	130	Dec. 17, 1968	Kp	18	.28	94	16	16	--	331	42	10	1	< .4	--	360	--	302	10	580	7.8	.4
603	137	Dec. 13, 1968	do.	13	--	47	21	133	--	372	161	25	1.5	3.5	--	590	--	205	59	935	7.8	4.0
24-401	601	Dec. 15, 1948	Khe, Kho	18	.25	26	14	* 304	--	397	102	249	.7	< .4	--	888	909	123	84	--	7.7	11.9

Footnotes at end of table.

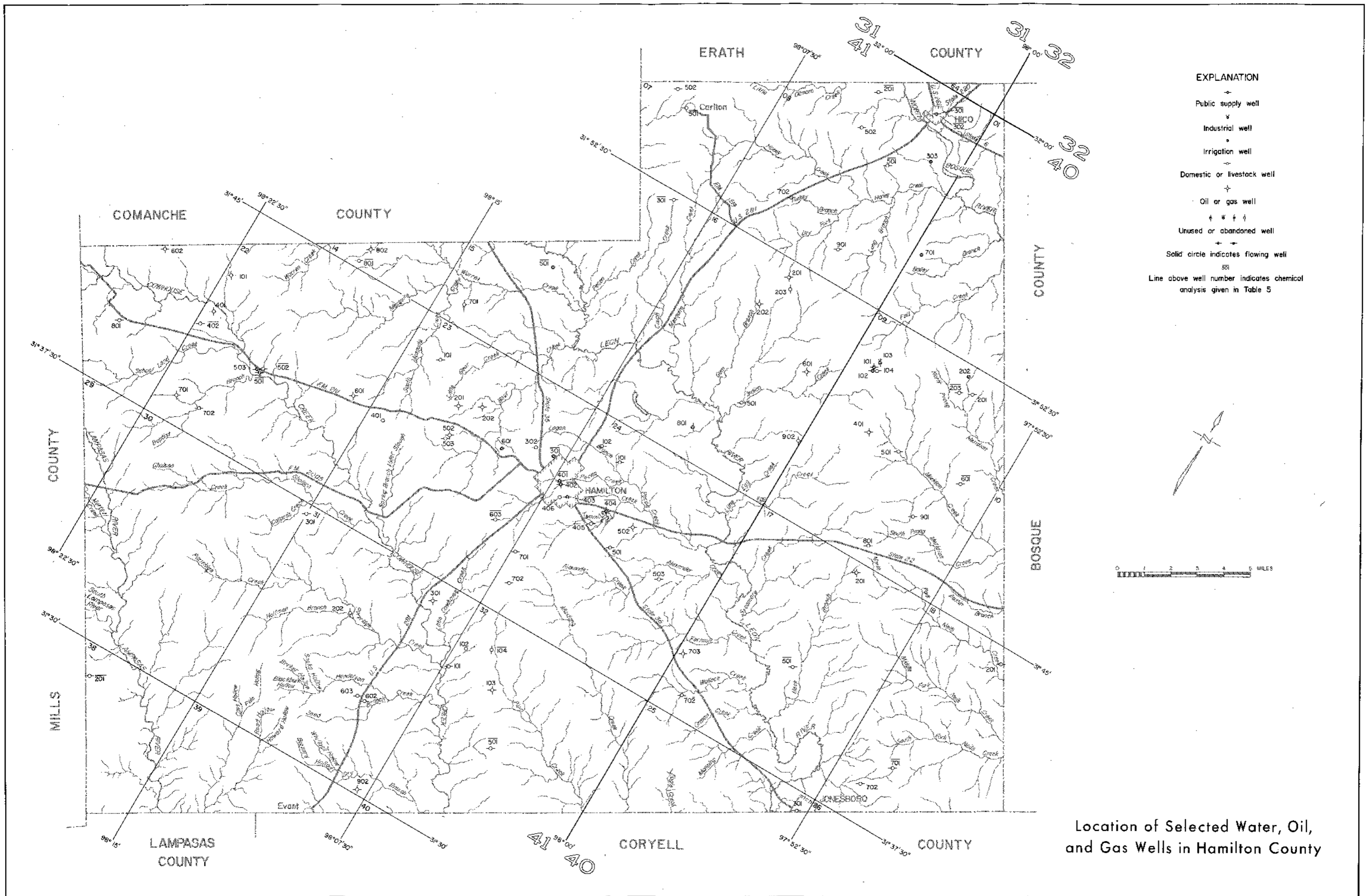
HAMILTON COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
LA-41-24-401	601	Jan. 21, 1952	Khe, Kho	12	0.22	20	13	* 294	--	415	145	178	0.7	< 0.4	--	874	--	104	86	--	8.1	12.5
401	601	Feb. 2, 1960	do.	12	.12	15	9.8	* 296	--	395	136	181	.9	.2	0.96	846	--	78	89	1,430	7.5	16.5
401	601	June 28, 1961	do.	--	.12	14	10	295	--	414	124	160	.7	< .4	--	902	808	75	94	1,504	7.8	20.7
401	601	Mar. 20, 1963	do.	--	.10	15	10	287	--	400	124	190	1	< .4	--	1,030	825	79	94	1,524	7.7	19.2
402	460	Dec. 26, 1961	Khe	--	1.4	14	4	340	--	393	240	121	2	.7	--	996	916	51	93	1,660	8.0	20.5
403	569	Apr. 1958	do.	--	.28	12	7	* 312	--	360	119	134	1	.4	--	998	763	60	92	1,663	8.0	17.6
403	569	Nov. 14, 1961	do.	--	.72	14	9	316	--	397	149	198	.9	< .4	--	984	883	72	91	1,640	7.7	16.2
404	540	Aug. 1955	Khe, Kpe Kho	--	.2	12	6	* 335	--	340	248	131	1.8	3.5	--	996	905	55	93	--	8.2	19.7
404	540	July 6, 1961	do.	--	.17	11	7	321	--	420	219	120	2.5	.44	--	966	889	55	93	1,610	7.9	18.6
404	540	May 22, 1963	do.	--	1.8	10	7	315	--	411	239	124	1.7	2.5	--	1,110	904	55	93	1,662	7.8	18.8
405	511	Apr. 17, 1961	Khe	8.7	--	7.5	5	* 335	--	460	200	129	--	--	--	911	--	39	95	1,510	7.8	23.5
32-104	75	Dec. 12, 1968	Kp	12	.40	90	19	32	--	322	70	27	.5	< .4	--	409	--	305	19	670	7.7	0.8
501	390	Sept. 4, 1968	Kgr, Khe	7	--	55	26	301	--	368	399	138	2.2	5.5	--	1,120	--	245	73	1,750	7.8	8.4
38-201	147	Dec. 11, 1968	Kp	10	--	103	43	29	--	364	107	54	1	< .4	--	530	--	433	13	854	7.6	.6

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:
 1/ U.S. Geological Survey Laboratory



- EXPLANATION**
- Public supply well
 - Industrial well
 - Irrigation well
 - Domestic or livestock well
 - Oil or gas well
 - Unused or abandoned well
 - Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Hamilton County

HULL COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kxb, Woodhite Group; Kxa, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ks, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Fearall Member of the Travis Peak Formation; Kxo, Houston Member of the Travis Peak Formation; P, Siliceous rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane, or diesel engine; H, hand pump; J, jet; N, none; ND, natural gas; R, reciprocating; Sub, submersible; U, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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 (I.A.)	DEPTH (ft)			ABOVE (1) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
IN-32-53-701	U.S. Army Corp of Engineers	--	1963	835	4 3	805 835	Kxo	600	+ 3 39.70	Apr. 13, 1963 Mar. 7, 1969	Sub, E	P	Completed from 805 to 835 ft. Pumping level 66 ft at 13.1 gpm on May 31, 1962. Reported yield 10 gpm. Cemented from 805 ft to surface. Texas Water Development Board observation well. <u>Y Y</u>
*	902	Blum Water Supply Corp.	1962	936	12 5	2 425 934	Khe	640	150 134.65	Sept. 26, 1964 Mar. 7, 1969	T, E E	P	Screened from 855 to 910 ft. Pumping level 180 ft at 134 gpm on Feb. 18, 1965. Pump set at 272 ft. Reported yield 190 gpm. Cemented from 855 ft to surface. Texas Water Development Board observation well. <u>Y Y Y</u>
*	34-501	KULIH HOOD	--	40	36	--	Kxb	800	19 18.30	May 18, 1960 Mar. 4, 1969	J, E 1/2	D, S	Dug well with brick wall. Texas Water Development Board observation well. <u>Y</u>
*	601	R. A. Barrie	1958	1,400	8 6	-- --	Khe	755	175 258.7	Aug. 31, 1958 Mar. 4, 1969	Sub, E 10	P	Pump set at 420 ft. Reported yield 80 gpm. Texas Water Development Board observation well. <u>Y</u>
*	701	GULL OIL CORP.	--	428	7 5 4	44 395 428	Kp	640	179.10 169.10	Feb. 18, 1963 Mar. 7, 1969	C, E 1	Ind	Completed from 385 to 428 ft. Pump set at 230 ft. Texas Water Development Board observation well. <u>Y</u>
	702	Jack Taylor	1963	1,063	9	1,063	Khe	705	220	Aug. 2, 1963	Sub, E	D, S	Slotted from 1,020 to 1,063 ft. Cemented from 1,020 ft to surface. <u>Y</u>
*	55-304	Sam Getz	1964	273	7	273	Kxb	650	85 82.10	July 19, 1964 Mar. 7, 1969	Sub, E 15	S	Slotted. Pump set at 233 ft. Gravel packed. Temp. 82°F. Texas Water Development Board observation well. <u>Y Y</u>
	801	-- Morris	1964	305	7	305	do.	665	125.82 114.73	Dec. 15, 1965 Mar. 8, 1967	Sub, E 15	Ind	Completed from 125 to 305 ft. Pump set at 232 ft. Gravel packed. Texas Water Development Board observation well. <u>Y Y</u>
	602	Texas Highway Department	1966	340	6	340	do.	680	150	July 29, 1966	Sub, E 5	P	Slotted from 168 to 340 ft. Pumping level 150 ft at 30 gpm on July 29, 1966. Pump set at 280 ft. Gravel packed. Cemented from 168 ft to surface. <u>Y</u>
	901	City of Itasca	1924	293	8	--	Kxb	703	114	1939	N	N	Reported yield 70 gpm when used. Well capped and abandoned.
*	902	do.	1939	1,825	8 6	1,725 1,835	Khe	702	135. 237.7	Apr. 20, 1939 Mar. 3, 1969	Sub, E 15	P	Screened from 1,745 to 1,835 ft. Pump set at 512 ft. Reported yield 100 gpm. Cemented Texas Water Development Board observation well. <u>Y Y</u>
*	903	do.	1953	312	4	312	Kxb	715	200	1954	T, E 10	P	Screened from 257 to 312 ft. Reported yield 55 gpm. Cemented from 257 ft to surface.
*	904	do.	1956	1,856	10 8 6	1,008 1,661 1,856	Khe	709	264	June 15, 1956	T, E 40	P	Screened from 1,673 to 1,692, 1,704 to 1,724, 1,762 to 1,809, and 1,830 to 1,850 ft. Pumping level 442 ft at 171 gpm on June 15, 1956. Pump set at 550 ft. Reported yield 175 gpm. <u>Y Y Y</u>
*	905	Itasca Cotton Manufacturing Co.	1947	300	8 6	180 300	Kxb	695	135 145.0	May 19, 1960 Oct. 16, 1964	T, E 7-1/2	N	Pump set at 276 ft. Reported yield 50 gpm. <u>Y</u>
	906	do.	--	300	8	--	do.	690	136 140.0	May 19, 1960 Jan 4, 1966	T, E 7-1/2	Ind	Pump set at 276 ft. Reported yield 30 gpm.

See footnotes at end of table.

Table 1. -- Records of Selected Meter Wells - Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LASS SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
14-32-55-907	City of Itasca	Hugh Dinson	1936	290	6	168	Kwb	702	250	1939	T, K 10	Y	--
908	Harris Electric Co.	C. M. Stoner Drilling Co.	1966	316	7	316	do.	690	243	Nov. 2, 1966	Sub, K	Ind	Cmn perforated with 10 shots 190 to 197 ft, 12 shots 218 to 230 ft, 13 shots 220 to 230 ft, 7 shots 245 to 250 ft, and 11 shots 275 to 295 ft. Cemented from 274 ft to surface. <u>Y</u>
909	Kernose Whitfield	do.	1965	289	4	289	do.	670	113.28 113.57	Dec. 30, 1965 Mar. 25, 1969	Sub, E	D, S	Cmn perforated from 257 to 268 ft. Pump set at 230 ft. Cemented. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
910	Texas Highway Department	do.	1966	368	6	348	do.	697	190	Aug. 4, 1966	Sub, K 5	Y	Slotted from 188 to 348 ft. Pumping level 190 ft at 30 gpm on Apr. 4, 1966. Pump set at 300 ft. Gravel packed. Cemented from 188 ft to surface.
56-401	Presbyterian Children's Home	J. L. Myers Sons	1947	470	10 5	39 470	do.	810	322	Nov. 10, 1959	T, K 10	Y	Screened from 425 to 460 ft. Pumping level 382 ft at 45 gpm on Nov. 10, 1959. Pump set at 440 ft. Gravel packed. Reworked in 1959 by B. C. Millican - pulled old casing, liner, and deepened. <u>Y</u>
402	do.	do.	1958	488	16 10 8	16 432 488	do.	815	--	--	T, K 10	Y	Screened. Pump set at 420 ft. Reported yield 22 gpm. Cemented from 16 ft to surface. Temp. 75°F. Well drilled to 547 ft and plugged back to 488 ft. <u>Y</u> <u>Y</u>
902	A. G. Hatley	U. M. Stoner Drilling Co.	1964	648	4	648	Kwb	785	480 284.95	Sept. 16, 1964	Sub, E 2	S	Completed from 810 to 628 ft. Pump set at 590 ft. Cemented from 648 ft to surface. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
61-103	U. S. Army Corp of Engineers	Ward and Ward Drilling Co.	1960	228	--	218	Xp	567	56	Mar. 30, 1960	Sub, E	Y	Completed from 208 to 218 ft. Pumping level 32 ft at 370 gpm on Mar. 30, 1960. Pump set at 168 ft. Cemented from 208 ft to surface. Well drilled to 380 ft and plugged back to 228 ft. <u>Y</u>
201	Brazos Lino Co.	C. M. Stoner Drilling Co.	1964	1,002	7	1,002	Xho	675	165 172.10	Apr. 22, 1964 Mar. 7, 1969	Sub, E 15	Ind	Slotted from 940 to 1,002 ft. Pump set at 370 ft. Reported yield 146 gpm. Cemented from 940 ft to surface. Temp. 82°F. Texas Water Development Board observation well. <u>Y</u> <u>Y</u> <u>Y</u>
901	U. S. Army Corp of Engineers	Watts Drilling Co.	1963	780	4	780	Rho	542	+	Dec. 25, 1963	Sub, E 3/4	Y	Completed from 735 to 780 ft. Cemented from 745 ft to surface. Well drilled to 915 ft and plugged back to 780 ft. <u>Y</u>
902	G. V. Faden	C. M. Stoner Drilling Co.	1963	1,132	7	1,132	Rho	600	75	May 6, 1963	Sub, E	Y	Slotted from 1,070 to 1,132 ft. Cemented from 1,070 ft to surface. <u>Y</u>
62-101	Rex Cauble	do.	--	1,053	4	--	Rho	725	210	1964	Sub, E	N	Slotted. Cemented. <u>Y</u>
302	Ed Allen	do.	1964	1,213	7	525 1,213	do.	660	175 171.10	Jan. 16, 1964 Mar. 4, 1969	Sub, E 1	N	Slotted from 1,154 to 1,213 ft. Pump set at 294 ft. Reported yield 10 gpm. Cemented from 1,154 ft to surface. Temp. 74°F. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
401	T. E. Myers	do.	1960	1,020	4	1,020	do.	665	125 171.30	June 22, 1960 Mar. 6, 1969	Sub, E 1	D, S	Slotted from 910 to 1,020 ft. Pump set at 210 ft. Reported yield 60 gpm. Cemented. Temp. 76°F. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
501	Griffin Rogers	--	--	60	60	--	Kwb	721	3 6.50	July 13, 1960 Mar. 4, 1969	N	N	Pug well with brick well. Texas Water Development Board observation well. <u>Y</u>

See footnotes at end of table.

HILL COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTIMITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF MEASUREMENT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
1W-32-62-701	Lennie Allen	C. N. Stoner Drilling Co.	1964	1,007	4	1,007	Khe	635	125.10 142.75	Dec. 9, 1966 Mar. 7, 1969	Sub, E 1	D	Perforated from 977 to 984 ft. Pump set at 212 ft. Reported yield 10 gpm. Cemented from 999 ft to surface. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
702	Lake Whitney Enterprises	Ralph Hayfess	1960	1,000	4	1,000	do.	580	100	1968	Sub, E 5	P	Reported yield 50 gpm. Cemented from 1,000 ft to surface.
901	W. T. Allison	--	--	40	--	--	Kwh	643	14 13.14	July 14, 1960 Mar. 18, 1968	N	D, S	Dug well with brick and rock well. Texas Water Development Board observation well. <u>Y</u>
63-101	L. L. Fullilove	C. N. Stoner Drilling Co.	1964	160	4	160	Kwb	722	100 108.10	Sept. 8, 1964 Nov. 28, 1968	Sub, E 1/2	S	Slotted from 110 to 160 ft. Pump set at 125 ft. Cemented from 110 ft to surface. <u>Y</u>
301	C. N. Myers	do.	--	210	4	210	do.	645	135 120.90	Jan. 25, 1962 Mar. 3, 1969	Sub, K 1/2	N	Completed from 131 to 135 and 180 to 210 ft. Pump set at 168 ft. Cemented. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
401	Joe Raymond	do.	--	650	4	--	Kp	610	--	--	U, K 1/2	D, S	--
403	do.	Fort Worth Drilling Co.	1965	667	7 4	95 653	do.	610	230 230.50	Nov. 15, 1965 Dec. 7, 1968	Sub, E 2	D	Slotted from 632 to 663 ft. Pumping level 240 ft at 17.5 gpm on Nov. 15, 1965. Pump set at 378 ft. Reported yield 17 gpm. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
801	Joe H. Pharris	C. N. Stoner Drilling Co.	1964	240	4	240	Kwb	642	116.95 117.80	Jan. 4, 1966 Nov. 29, 1968	Sub, K 3/4	N, S	Completed from 215 to 225 and 227 to 237 ft. Pump set at 195 ft. Cemented from 240 ft to surface. <u>Y</u>
702	Maare Estate	J. L. Myers Sons	--	1,273	--	--	Khc	660	--	--	--	N	<u>Y</u>
801	City of Hillsboro	Layne Texas Co.	1947	1,899	12 8 6 4	706 1,460 1,695 1,899	Kwb, Kp, Ktp	625	250 102	Jan. 23, 1947 June 30, 1947	T, K 75	P	Completed from 150 to 170, 798 to 828, and 1,493 to 1,695 ft. Pump set at 690 ft. Reported yield 315 gpm. Cemented. Temp. 93°F. <u>Y</u> <u>Y</u>
* 901	do.	--	1912	200	8	--	Kwb	585	90	1942	C, E 15	P	Pump set at 190 ft. Reported yield 30 gpm. Temp. 69°F.
* 902	do.	Layne Texas Co.	1942	842	8 6	779 842	Kp	580	150 150	Sept. 13, 1941 1949	T, E 15	P	Completed from 785 to 842 ft. Pump set at 500 ft. Reported yield 68 gpm. Cemented. <u>Y</u>
* 908	do.	--	1939	1,810	6	--	Kho	610	125	1941	T, E 20	P	Pump set at 550 ft. Reported yield 60 gpm. Temp. 99°F.
* 909	do.	Layne Texas Co.	1930	1,784	12 8	473 1,674	Kwb, Kp, Kho	560	67 125	Nov. 14, 1930 1949	T, E 75	P	Completed from 117 to 177, 760 to 843, and 1,614 to 1,674 ft. Pump set at 650 ft. Reported yield 349 gpm. Temp. 89°F. <u>Y</u>
* 910	do.	do.	1941	845	8 6	778 845	Kp	580	235 428.7	Nov. 5, 1941 Mar. 10, 1969	Sub, E 65	P	Completed from 787 to 845 ft. Pump set at 470 ft. Reported yield 153 gpm. Cemented. Temp. 86°F. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
911	Hillsboro Cotton Mill	Dan Morgan	1924	250	5 3	--	Kwb	605	--	--	J, R 15	Led	Pump set at 220 ft.
912	Hillsboro Cotton Mill	Hugh Strimbo	1849	237	6	--	Kwb	610	115 114.00	June 27, 1960 Mar. 10, 1969	J, E 15	Led	Pump set at 220 ft. Texas Water Development Board observation well. <u>Y</u>
913	City of Hillsboro	Texas Water Wells	1961	1,780	7 4	1,000 1,780	Ktp	590	--	--	Sub, E 40	P	Pump set at 700 ft. Reported yield 150 gpm. Cemented. <u>Y</u>

See footnotes at end of table.

WILL COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF TEST	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
24-12-64-101	Edwin Cley	C. H. Stoner Drilling Co.	1962	273	4	273	shb	712	200 212.72 212.73 212.39	Feb. 6, 1962 Dec. 16, 1965 Apr. 15, 1966 Apr. 18, 1966	Sub, E 3/4	D, S	Slotted. Pump set at 249 ft. Reported yield 13.5 gpm. Cemented from 187 ft. to surface. $\frac{1}{2}$
102	Boyd "Buck" Bailey	do.	1965	353	7	353	do.	722	211.90 213.2	Dec. 15, 1965 Oct. 27, 1966	Sub, E 15	D, S	Completed from 178 to 253 ft. Pump set at 296 ft. Gravel packed. $\frac{1}{2}$
103	Jesse and McKinney Construction Co.	do.	1965	339	7	339	do.	698	200 122.0	Feb. 5, 1965 Dec. 15, 1965	Sub, E 15	P	Completed from 225 to 350 ft. Pump set at 305 ft. Gravel packed. $\frac{1}{2}$
201	C. W. Bartlett	do.	1965	520	4	520	do.	765	340 277.67	Apr. 15, 1965 Dec. 20, 1965	C, E 1	S	Completed from 348 to 358, 408 to 418, and 503 to 508 ft. Cemented from 520 ft to surface. $\frac{1}{2}$
301	D. O. Clinkscales	do.	1965	676	7	676	do.	790	435 475.81	June 14, 1963 Mar. 25, 1968	Sub, E 20	D, S	Completed from 630 to 676 ft. Pump set at 630 ft. Reported yield 86 gpm. Texas Water Development Board observation well. $\frac{1}{2}$
* 302	Neuhoff Brothers	J. F. Day	1962	727	--	--	do.	--	420 420	Apr. 1964 June 5, 1965	Sub, E 20	D, Ind	Perforated. Pump set at 509 ft. Reported yield 104 gpm. Gravel packed.
303	do.	do.	1962	720	--	--	do.	--	--	--	Sub, E 25	S, Ind	Do.
304	do.	do.	1963	750	11	750	do.	--	--	--	Sub, E 25	S, Ind	Reported yield 100 gpm. Gravel packed.
305	do.	do.	1964	750	11	750	do.	--	--	--	Sub, E 25	S, Ind	Do.
306	do.	do.	1964	750	11	750	do.	--	--	--	Sub, E 25	S, Ind	Do.
501	B. R. Price	Wilson Plumbing Co.	1950	430	--	--	do.	715	--	--	Sub, E 25	D, S	Reported yield 60 gpm.
* 701	City of Hillsboro	Texas Water Wells	1961	2,000	10 8	1,748 2,000	Yob, Yp, Ygr, Xp	680	750	Sept. 1961	Sub, E 100	F	Slotted from 293 to 314, 384 to 397, 1,011 to 1,034, 1,079 to 1,084, 1,093 to 1,094, 1,106 to 1,114, 1,127 to 1,136, 1,159 to 1,168 ft and screened from 1,753 to 1,762, 1,774 to 1,793, 1,808 to 1,824, 1,876 to 1,940, and 1,948 to 1,974 ft. Pump set at 960 ft. Reported yield 317 gpm. Cemented from 50 ft to surface and from 1,150 to 1,748 ft. Underreamed and gravel packed. $\frac{1}{2}$
* 702	Martain-Seed Production Corp.	Layne Texas Co.	1962	1,876	13 9 7	1,207 1,110 1,876	8tp	823	232 390.6	Dec. 11, 1962 Mar. 10, 1963	Sub, E 75	Ind	Completed from 1,515 to 1,556 and 1,619 to 1,820 ft. Pumping level 645 ft at 197 gpm on Dec. 12, 1962. Pump set at 870 ft. Cemented from 1,876 ft to surface. Temp. 95°F. Texas Water Development Board observation well. $\frac{1}{2}$
* 801	Lacy Reed Co.	C. H. Stoner Drilling Co.	1963	595	4	595	shb	795	390 199.06	July 2, 1963 Nov. 22, 1968	Sub, E 1-1/2	D, E	Completed from 520 to 521, 539 to 547, and 562 to 575 ft. Pump set at 504 ft. Cemented from 595 ft to surface. Temp. 79°F. $\frac{1}{2}$
33-57-401	Kirby Mice	Walph Mayless	1969	912	4	--	do.	618	180 160	July 7, 1960 Jan. 7, 1965	Sub, K 1-1/2	P	Pump set at 360 ft.
* 402	Beaudou-Tyner Water Supply Corp.	J. L. Myers Sons	1966	2,652	12 8 7	76 1,035 2,652	Nio	627	181 230.40	May 26, 1966 Mar. 6, 1969	Sub, E	P	Core perforated with 53 shots 2,472 to 2,498 ft., 53 shots 2,504 to 2,530 ft., 29 shots 2,534 to 2,568 ft., 17 shots 2,572 to 2,588 ft., and 21 shots 2,588 to 2,598 ft. Cemented from 2,652 ft to surface. Texas Water Development Board observation well. $\frac{1}{2}$

See footnotes at end of table.

WILL COUNTY

Table 1. -- Records of Selected Water Wells -- Continuous

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING			WATER FRACKING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)				ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
* 14-33-57-601	City of Mertens	Layne Texas Co.	1930	832	8 6	785 832		Koh	532	60 334.0	Aug. 12, 1930 Mar. 3, 1969	T, R 15	P	Perforated from 792 to 832 ft. Pumping level 154 ft at 171 gpm on Aug. 12, 1930. Temp. 80°F. Texas Water Development Board observation well. <i>Y Y</i>
* 14-39-01-102	Airon Tekell	C. M. Stoner Drilling Co.	1966	870	4	870		Koh	648	410 331.80	Jan. 2, 1966 Nov. 29, 1968	Sub, K 1-1/2	S	Cum perforated from 697 to 701, 760 to 761, 803 to 805, and 809 to 812 ft. Pump set at 506 ft. Cemented from 870 ft to surface. Temp. 61°F. <i>Y</i>
* 601	City of Malone	R. D. Deacing and Son	1924	2,471	6 4	2,384 --		Xhe, Xpe	482	100	May 25, 1960	N	N	Open hole completion from 2,384 to 2,471 ft. Well reported flowed in 1949. Well sealed and abandoned.
* 602	Malone Water Supply Corp.	J. L. Myers Sons	1963	2,988	12 8 7	59 896 2,980		Kho	482 +	29.30	Sept. 30, 1966 Mar. 3, 1969	T, E LU	P	Perforated from 2,893 to 2,946 ft. Pumping level 41 ft at 200 gpm in May 1963. Cemented from 2,980 ft to surface. Texas Water Development Board observation well. <i>Y Y</i>
* 02-101	City of Irone	--	1910	915	5	--		Koh	515	229	May 25, 1960	Sub, E 1-1/2	P	Pump set at 315 ft. Reported yield 50 gpm.
* 09-201	City of Penelope	J. L. Myers Sons	1959	3,138	32 8 5	48 934 3,138		Kho	570	18 117.60	May 24, 1960 Mar. 3, 1969	T, K 1-1/2	P	Completed from 2,908 to 3,051 ft. Pump set at 220 ft. Reported yield 60 gpm. Cemented from 48 ft to surface. Texas Water Development Board observation well. <i>Y Y</i>
* 402	Hirone Water Supply Corp.	West-Tex Tool Service	1965	3,250	12	60 3,250		Kho	542	133.0	Mar. 2, 1966	Sol, E	P	Perforated from 3,064 to 3,096, 3,104 to 3,130 3,160 to 3,181, 3,192 to 3,202, and 3,214 to 3,242 ft. Cemented. <i>Y</i>
* 801	City of Mt. Cain	do.	1964	3,458	12 8 7	40 910 3,458		do.	610	123.30 160.00	Dec. 9, 1966 Mar. 6, 1969	T, E	P	Slotted from 3,130 to 3,300 ft. Pumping level 167 ft at 140 gpm on Dec. 11, 1966. Reported yield 150 gpm. Temp. 127°F. Texas Water Development Board observation well. <i>Y Y</i>
* 10-201	City of Hubbard	J. L. Myers Sons	1955	3,555	16 10 7 5	50 990 3,492 3,555		do.	627	200 152.90	June 28, 1960 Apr. 13, 1967	T, K 50	P	Perforated from 3,492 to 3,555 ft. Pumping level 345 ft at 279 gpm on Jan. 1960. Pump set at 400 ft. Cemented. Temp. 134°F. Texas Water Development Board observation well. <i>Y Y</i>
* 202	do.	do.	1955	3,447	--	--		do.	627	200 175.90	June 28, 1960 Mar. 6, 1969	R	P	Texas Water Development Board observation well. <i>Y Y</i>
* 40-05-302	Beechview Acres	C. M. Stoner Drilling Co.	1956	780	7	00		Kha	580	84 53.15	Aug. 1964 Mar. 10, 1966	Sub, E 1	P	Pump set at 320 ft.
* 303	Lake Whitney Enterprises	do.	1958	1,200	7 4	500 1,200		Kha	600	75 90	1955 1960	Sub, E 20	P	Slotted from 1,106 to 1,200 ft. Pump set at 380 ft. Reported yield 200 gpm. Cemented from 1,100 ft to surface. <i>Y</i>
* 601	U.S. Army Corp of Engineers	Ward and Ward Drilling Co.	1960	867	--	867		Kha	563 +		May 17, 1960	Sub, E	D	Serapped from 857 to 867 ft. Pumping level 45 ft at 305 gpm on May 17, 1960. Pump set at 189 ft. Cemented from 857 ft to surface. <i>Y</i>
* 06-101	Lake Whitney Recreation Club	J. L. Myers Sons	1967	1,278	8	1,278		Kho	628	390	Mar. 1968	T, E 40	P	Cum perforated with 57 shots 1,128 to 1,156, 56 shots 1,164 to 1,182 ft, 28 shots 1,190 to 1,204 ft, 18 shots 1,211 to 1,219 ft, and 32 shots 1,231 to 1,247 ft. Pumping level 459 ft at 200 gpm on Mar. 16, 1968. Pump set at 500 ft. Cemented from 1,278 ft to surface. <i>Y Y</i>

See footnotes at end of table.

UTILL COUNTY

Table 1. -- Records of Selected Water Wells -- Unfinished

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (FE)	CASING		WATER RISING DMTY.	ALTITUDE OF LAND SURFACE (FT)	WATER LEVEL		METHOD OF TEST	USE OF WATER	REMARKS
					DIAMETER (IN.)	DEPTH (FE)			ABOVE (+) OR BELOW (-) SURFACE DMTY. (FE)	DATE OF MEASUREMENT			
40-06-102	Lake Whitney Enterprises	J. L. Myers Sons	1944	1,260	7	1,260	Kho	620	90	1966	T, K 10	F	Screened from 1,200 to 1,260 ft. Pump set at 320 ft. Reported yield 125 gpm. Cemented from 1,200 ft. to surface.
103	U.S. Army Corps of Engineers	C. H. Stoner Drilling Co.	1937	1,136	5	1,136	do.	565	5 20	1957 1958 1963	Sub, U 1	F	Completed from 1,120 to 1,130 ft. Cemented from 1,120 ft. to surface. <u>1/2</u>
104	Lake Whitney Enterprises	J. L. Myers Sons	1938	1,166	10 7 5	2 224 1,166	Kho	580	30 104.49	July 8, 1958 Mar. 6, 1969	Sub, E 20	F	Perforated from 1,098 to 1,166 ft. Pump set at 400 ft. Reported yield 200 gpm. Cemented from 1,098 ft. to surface. Temp. 82°F. Texas Water Development Board observation well. <u>4/4</u>
* 401	Texas Parks and Wildlife Department	--	--	1,800	4	--	Ktp	565	9	June 23, 1960	Sub, E 1/2	F	--
* 402	U.S. Army Corp of Engineers	Watts Drilling Co.	1963	1,105	4	1,085	Kho	545	--	--	Sub, E 3/4	F	Cemented from 1,085 ft. to surface. <u>1/2</u>
* 501	City of Whitney	Layne Texas Co.	1942	1,283	8 6	1,129 1,283	do.	576	+ 120.00	Jan. 5, 1942 Dec. 8, 1966	T, E 40	F	Completed from 1,129 to 1,287 ft. Pumping level 259 ft. at 297 gpm on May 13, 1963. Pump set at 350 ft. Reported yield 335 gpm. Cemented. Temp. 87°F. Texas Water Development Board observation well. <u>1/3/4</u>
502	do.	--	1925	1,280	6	--	Ktp	580	0 50	Mar. 23, 1949 June 16, 1960	J, E 15	F	Pump set at 150 ft. Reported yield 75 gpm.
503	do.	--	1900	1,575	6	--	do.	579	+ 56.46	1940 May 15, 1965	A, E	N	Well was reported to have flowed 340 gpm when drilled and 40 gpm in 1940.
* 504	Hill County Water Supply Corp.	J. L. Myers Sons	1965	1,470	10 7 3	40 1,326 1,470	Kho	660	170	Jan. 1966	Sub, E 25	F	Screened from 1,326 to 1,336 and 1,346 to 1,409 ft. Pumping level 312 ft. at 150 gpm in Jan. 1966. Pump set at 510 ft. Underreamed and gravel packed. Cemented from 1,326 ft. to surface. <u>1/2</u>
* 801	Lake Whitney Enterprises	do.	1949	1,275	6 5 4	477 406 1,275	do.	585	58.6/ 145.7	Mar. 8, 1966 Mar. 6, 1969	Sub, E	F	Well deepened from 1,014 to 1,275 ft. Perforated from 1,184 to 1,275 ft. Texas Water Development Board observation well. <u>1/2/3/4</u>
* 07-201	City of Hillsboro	Layne Texas Co.	1952	1,684	14 8 6	196 1,396 1,684	Kp, Kp Ktp	627	225	Dec. 5, 1952	T, E 75	F	Ann perforated with 10 shots from 720 to 820 ft. and slotted from 1,424 to 1,675 ft. Reported yield 380 gpm. <u>1/2</u>
* 501	R. A. Davis	--Alexander	1938	385	8 5	-- --	Koh	625	117 76.00	July 12, 1960 Dec. 2, 1968	A, E 3/4	N, S	Temp. 60°F.
* 801	Cox and McIntroy	do.	1953	796	7 5	200 196	Kp	620	50 213.50	July 12, 1960 Mar. 4, 1969	C, E	N, S	Stucked. Temp. 72°F. Texas Water Development Board observation well. <u>4/4</u>
* 08-101	Robert Davis	C. H. Stoner Drilling Co.	1967	480	4	480	Koh	752	100.90	Nov. 22, 1968	Sub, F 1-1/2	D, S	Cum perforated with 5 shots 388 to 397 ft. and 4 shots 426 to 430 ft. Pump set at 417 ft. Reported yield 8 gpm. Cemented from 480 ft. to surface. Temp. 78°F. <u>1/2</u>
* 202	Hcc. B. N. Heatham	do.	1963	609	4	546	do.	795	320	Feb. 7, 1963	Sub, F 1-1/2	N	Completed from 439 to 459 and 522 to 546 ft. Pump set at 577 ft. Gravel packed. Cemented from 522 ft. to surface. <u>1/2</u>
* 301	Jack Laukford	--	1955	726	4	726	Koh	653	250	1959	Sub, E 2-1/2	F	Pump set at 400 ft.

See footnotes at end of table.

HILL COUNTY

Table 1. -- Records of Selected Water 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.)			ABOVE (°) OR BELOW LAND SURFACE (ft.)	DATE OF MEASUREMENT			
* 1N-60-08-501	Chall Water Supply Corp.	J. L. Myers Sons	1968	2,070	10 7	20 2,070	Kho	690	235.1	July 31, 1968	Sub, K 25	P	Gun perforated with 20 shots 1,940 to 1,990 ft. and 130 shots 1,972 to 2,036 ft. Pumping level 367 ft at 102 gpm in July 1968. Pump set at 702 ft. Cemented from 2,070 ft. to surface. <u>Y Z</u>
* 801	City of Abbott	do.	1953	2,103	12 8 5	16 800 2,083	do.	712	90 24.0	June 28, 1960 Oct. 1, 1964	T, E 20	P	Completed from 1,955 to 2,083 ft. Pump set at 500 ft. Reported yield 120 gpm. Cemented from 16 ft. to surface. <u>Y Z</u>
901	M. K. Stafford	Hugh Stinson	--	609	5	--	Kub	635	178 127.34	June 28, 1960 Mar. 7, 1966	N	N	Abandoned.
14-101	U.S. Army Corp of Engineers	J. L. Myers Sons	1948	1,077	10 6	270 1,077	Khu	487	+	June 28, 1960	N	N	Slotted.
* 102	do.	do.	1947	1,145	12 8 7	-- -- --	do.	548	+	Mar. 22, 1949 Mar. 6, 1969	Sub, E 10	P	Completed from 1,034 to 1,132 ft. Pump set at 70 ft. Reported yield 360 gpm. Temp. 82°F. Texas Water Development Board observation well. <u>Y Z</u>
201	Prairie Valley Presbyterian Church	do.	1960	1,225	8 5	10 1,225	do.	565	83.77 93.94	Mar. 6, 1966 Mar. 4, 1969	Sub, E	D, P	Completed from 1,187 to 1,225 ft. Pumping level 177 ft at 30 gpm on Jan. 5, 1961. Cemented. Texas Water Development Board observation well. <u>Y Z</u>
601	Baptist Encampment	Bervey Meadows and Son Well Driller	1950	1,102	8 5	600 --	Khe	530	+	Feb. 4, 1960	T, E 5	P	Pump set at 100 ft. <u>Y</u>
602	do.	do.	1957	1,102	7 5	660 --	do.	535	+	May 17, 1960 Mar. 4, 1969	T, E	P	Texas Water Development Board observation well. <u>Y Z</u>
* 15-101	A. D. Urbanovsky	C. M. Stoner Drilling Co.	1956	1,497	4 3	1,221 1,497	Ksp	535	10	1960	T, E 7-1/2	N	Pump set at 210 ft. Reported yield 60 gpm. Cemented. Temp. 93°F. <u>Y</u>
* 102	Aquilla Water Supply Corp.	J. L. Myers Sons	1960	1,485	12 8 5	7 516 1,485	Khu	520	62 100.76	Jan. 1960 Mar. 18, 1968	T, E 5	P	Perforated from 1,380 to 1,680 ft. Pumping level 79 ft at 77 gpm on May 17, 1960. Pump set at 160 ft. Cemented from 1,485 ft. to surface. Texas Water Development Board observation well. <u>Y Z</u>
* 201	Denlow Water Supply Corp.	C. K. Stomer Drilling Co.	1965	1,700	7 5	1,000 1,700	do.	604	170 200.60	Nov. 19, 1965 Mar. 4, 1969	Sub, E 10	P	Completed from 1,630 to 1,644, 1,652 to 1,656 and 1,664 to 1,676 ft. Pump set at 350 ft. Cemented. Texas Water Development Board observation well. <u>Y Z</u>

* For chemical analysis of water, see Table 5.

1/ For drillers' log of wells, see Table 3.

2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.

3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.

4/ For water-level measurements, see Table 4.

HILL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LW-32-47-9D2	Humble Oil and Refining Co.	Ella Freeman No. 1	1959	11,808	636	E
54-502	Joe A. Humphrey	J. E. Osborne No. 1	1953	8,270	761	E
55-303	Hunt Oil Co.	E. W. Wright No. 1	1948	6,681	615	E
63-701	C. Stubblefield, et al.	Summer No. 1	1951	2,500	600	E
33-57-701	Phillips Petroleum Co.	Posey No. A-1	1956	6,616	594	E
39-02-2D1	George Rehal	Lewis Martin No. 1	1957	3,277	515	E
701	Glen McCarthy	McDaniel No. 1	1959	2,003	453	E
801	C. A. Lee	Hight No. A-1	1954	1,318	613	E
09-401	Camtex Oil Corp.	Cartright No. 1	1952	1,197	540	E
10-101	A. O. Phillips and American Liberty Oil Co.	Vosburg No. 1	1952	1,190	535	E
401	Joseph Thompson	Easter Doherty No. 2	1950	1,405	615	E
402	W. B. Flanagan, et al.	Johnson No. 1	1950	1,202	593	E
601	Shell Development Co. and Penrod	E. W. Barrett No. 1	1967	4,267	575	E
701	Joe Thompson	Jack Carr No. 1	1947	1,339	627	E
702	M. L. Richards and David E. Lee	H. D. Walker No. 1	1952	1,604	584	E
703	McKenzie Brothers Oil and Gas Co.	T. M. Morris No. 1	1958	1,257	615	E
704	Davidson and Fitzpatrick	Grant No. 1	1956	1,439	610	E
40-06-8D2	Brandon Oil Co.	Shannon No. 1	1958	1,204	573	E
15-501	A. P. Merritt	H. Norris No. 1	1947	3,129	530	E
601	Robert M. Bass	John Gerek No. 1	1946	1,019	510	E

HILL COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-53-701			Well LW-32-53-701—Continued		
Owner: U.S. Army Corps of Engineers Driller: Unknown			Hard sand and sandy shale streaks		
Red, sandy clay	18	18		6	797
Sand and small gravel	20	38	Hard sand	33	830
Rock	31	69	Hard sand and rock streak	5	835
Shale and rock streaks	18	87	Well LW-32-53-902		
Shale and sand streaks	16	103	Owner: Blum Water Supply Corp. Driller: J. L. Myers Sons		
Sand	65	168	Surface soil	1	1
Gray sand, shale	4	172	Lime	37	38
Sand	3	175	Broken lime	182	220
Gray shale	8	183	Lime and shale	111	331
Rock	202	385	Shale	11	342
Shaly lime	20	405	Sand	43	385
Rock	71	476	Lime and shale	38	423
Rock and shale streaks	44	520	Lime	25	448
Soft sand rock	6	526	Broken lime	26	474
Rock and shale streaks	44	570	Lime and shale	142	616
Shale and sand streaks	15	585	Broken lime	156	772
Sand	12	597	Shale	9	781
Shale	5	602	Lime and shale	56	837
Sand and shale streaks	19	621	Shale	8	845
Sand	4	625	Sand	73	918
Red shale	12	637	Sand and shale	6	924
Rock and sand	5	642	Shale	10	934
Red shale	64	706	Well LW-32-54-702		
Sandy shale	15	721	Owner: Jack Taylor Driller: C. M. Stoner Drilling Co.		
Rock	2	723	Soil	3	3
Red and gray shale	27	750	Rock	27	30
Sandy shale	10	760	Blue shale	15	45
Sand	5	765	White rock	370	415
Red, sandy shale	3	768	Sandy shale	37	452
Sand and sandy shale	9	777	Sand	60	512
Sand	9	786	Glen Rose lime	438	950
Red, sandy shale	5	791	Shale	60	1,010
			Sand	27	1,037
			Shale	1	1,038

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-54-702—Continued			Well LW-32-55-602—Continued		
Sand	4	1,042	Blue shale	10	30
Shale	5	1,047	Brown shale	135	165
Sand	3	1,050	Sand	25	190
Broken sand	13	1,063	Broken, sandy shale and sand	62	252
Well LW-32-55-304			Sand	20	272
Owner: Sam Gard Driller: C. M. Stoner Drilling Co.			Sandy shale	8	280
Soil	2	2	Sand	15	295
Yellow clay	8	10	Sandy shale and sand	35	330
Brown shale	60	70	Lime rock	10	340
Sand	20	90	Well LW-32-55-902		
Sandy shale	30	120	Owner: City of Itasca Driller: Layne Texas Co.		
Sand	15	135	Surface soil	4	4
Sandy shale	10	145	Yellow clay	22	26
Broken sand and sandy shale	50	195	Black shale	110	136
Sandy shale	25	220	Sand rock	1	137
Sand	20	240	Black shale	48	185
Shale and sand rock	20	260	Rock	3	188
White rock	13	273	Sandy shale	10	198
Well LW-32-55-601			Brown shale	48	246
Owner: — Morris Driller: C. M. Stoner Drilling Co.			Sand	8	254
Soil	3	3	Sand and sandy shale	37	291
Yellow clay	15	18	Hard shale and lime	134	425
Brown shale	92	110	Lime	202	627
Sand	23	133	Lime and layers of hard shale	29	656
Shale	17	150	Lime	174	830
Hard sand	17	167	Lime and layers of shale	15	845
Shale	30	197	Sand	7	852
Sand	13	210	Sandy shale	40	892
Shale	11	221	Shale and layers of lime	46	938
Sand	73	294	Lime	16	954
Sand and lime	11	305	Shale and layers of sand	25	979
Well LW-32-55-602			Lime and layers of shale	57	1,036
Owner: Texas Highway Department Driller: C. M. Stoner Drilling Co.			Shale	81	1,117
Soil	1	1			
Clay	19	20			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-55-902—Continued			Well LW-32-55-904		
Limestone	115	1,232	Owner: City of Itasca Driller: Texas Water Wells		
Lime	2	1,234	Rotary to ground level	6	6
Lime and layers of shale	88	1,322	Topsoil	4	10
Lime	35	1,357	Yellow clay	30	40
Sandy shale	28	1,385	Hard shale streaked with rock	156	196
Shale	5	1,390	Sand with streaks of shale	51	247
Hard shale and layers of anhydrite	36	1,426	Shale, lime, and sand streaks	65	312
Hard shale	20	1,446	Shale and lime	27	339
Sandy shale	30	1,476	Lime - hard	5	344
Sand	40	1,516	Shale and lime rock	82	426
Layers of sand and shale	8	1,524	Lime and streaks of shale	208	634
Blue shale	9	1,533	Hard shale and lime	36	670
Sand	13	1,546	Hard lime streaked with shale	117	787
Hard, blue and gray shale	8	1,554	Hard shale	16	803
Sand	20	1,574	Hard shale and lime	21	824
Hard shale	11	1,585	Lime streaked with shale	39	863
Sand	20	1,605	Shale	25	888
Hard, blue shale	21	1,626	Hard sand streaked with shale (Paluxy)	84	972
Sand	18	1,644	Lime	72	1,044
Hard, blue shale	22	1,666	Shale streaked with lime	66	1,110
Red shale	13	1,679	Lime streaked with shale	380	1,490
Hard, red and blue shale	17	1,696	Sand streaked with shale	128	1,618
Hard, blue and brown shale	25	1,721	Shale and lime hard and red bed	52	1,670
Sand	13	1,734	Hard sand	20	1,690
Layers of sand and shale	20	1,754	Shale	14	1,704
Sand	25	1,779	Hard sand streaked with shale	114	1,818
Shale	6	1,785	Sand and layers of shale	38	1,856
Sand	9	1,794			
Sand and layers of hard shale (cored)	15	1,809			
Hard sandy shale	5	1,814			
Hard, blue, red, and brown shale	17	1,831			
No record	4	1,835			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-55-905			Well LW-32-55-909—Continued		
Owner: Itasca Cotton Manufacturing Co. Driller: J. L. Myers Sons			Fine sand	4	217
Surface soil	8	8	Shale	15	232
Yellow clay	6	14	Sand	37	269
Gravel	4	18	Shale and white rock	20	289
Yellow clay	15	33	Well LW-32-56-401		
Shale	147	180	Owner: Presbyterian Children's Home Driller: J. L. Myers Sons		
Sand	15	195	Rock and yellow clay	30	30
Shale	12	207	Shale	268	298
Sand	13	220	Shale and rock	74	372
Shale	6	226	Sand	8	380
Sand	15	241	Sandy shale	20	400
Shale	59	300	Shale	10	410
Well LW-32-55-908			Sand	50	460
Owner: Harris Electric Co. Driller: C. M. Stoner Drilling Co.			Shale	10	470
Soil	3	3	Well LW-32-56-402		
Yellow clay	27	30	Owner: Presbyterian Children's Home Driller: J. L. Myers Sons		
Black shale	54	84	Soil	1	1
Brown shale	91	175	Chalk rock	39	40
Sand	25	200	Shale	357	397
Broken, sandy shale	10	210	Sandy shale	32	429
Good sand	24	234	Sand	59	488
Shale	13	247	Shale	22	510
Sand	6	253	Sand	13	523
Broken sand and shale	22	275	Shale and sand streaks	24	547
Sand	21	296	Well LW-32-56-902		
Shale	20	316	Owner: A. G. Bailey Driller: C. M. Stoner Drilling Co.		
Well LW-32-55-909			Chalk	85	85
Owner: Ernest Whitfield Driller: C. M. Stoner Drilling Co.			Blue shale	200	285
Soil	3	3	Brown shale	135	420
Yellow clay	27	30	Sand	10	430
Brown shale	100	130	Broken sand and sandy shale	30	460
Sand	59	189	Hard sand rock	3	463
Broken sand and rock	6	195	Broken sand and shale	62	525
Sandy shale	18	213			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-56-902—Continued			Well LW-32-61-901—Continued		
Sand	25	550	Lime	15	60
Sandy shale and sand rock	60	610	Lime and shale	115	175
Sand	20	630	Shale	45	220
Sandy shale	10	640	Sand and lime	20	240
White rock	8	648	Lime	360	600
			Sand and lime	40	640
Well LW-32-61-103			Shale	100	740
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Sand - first Trinity	40	780
Red clay	30	30	Red bed	135	915
Gravel	10	40			
Gray shale	120	160	Well LW-32-61-902		
Sand	20	180	Owner: G. V. Paden Driller: C. M. Stoner Drilling Co.		
Rock	13	193	Soil	.5	.5
Water sand	35	228	Chunk rock	5.5	6
Shale	152	380	White rock	309	315
			Broken shale and shale	30	345
Well LW-32-61-201			Green shale	10	355
Owner: Brazos Lime Co. Driller: C. M. Stoner Drilling Co.			Sand	40	395
Lime	300	300	Lime rock	455	850
Sand	57	357	Broken sand and sandy shale	58	908
Glen Rose lime	415	772	Sand	27	935
Sand	12	784	Red bed	90	1,025
Shale	6	790	Sand	25	1,050
Hard sand	14	804	Sandy shale	20	1,070
Red bed	13	817	Sand	62	1,132
Sand	5	822			
Shale	12	834	Well LW-32-62-101		
Sand	20	854	Owner: Rex Cauble Driller: C. M. Stoner Drilling Co.		
Shale	1	855	Soil	3	3
Sand	13	868	White rock	32	35
Red bed	70	938	Blue shale	3	38
Sand	57	995	White rock	327	365
Shale	7	1,002	Shell rock	45	410
			Sandy shale	15	425
Well LW-32-61-901			Paluxy sand	90	515
Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.			Lime	350	865
Topsoil	10	10	Lime and shale	110	975
Lime and shale	35	45	Sand	78	1,053

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-62-302			Well LW-32-63-101		
Owner: Ed Allen Driller: C. M. Stoner Drilling Co.			Owner: L. L. Fullilove Driller: C. M. Stoner Drilling Co.		
Soil	3	3	Soil	3	3
Yellow clay	14	17	Yellow clay	5	8
Blue shale	111	128	Sand	1	9
White rock	392	520	Yellow clay	11	20
Shell rock	40	560	Broken sand	22	42
Sandy shale	55	615	Shale	28	70
Sand	37	652	Sand	14	84
Sand	36	688	Sand	25	109
Glen Rose lime	430	1,118	Sand	23	132
Shale	30	1,148	Sandy shale	10	142
Sand (not good)	5	1,153	Shale	18	160
Sand (good)	60	1,213			
Well LW-32-62-401			Well LW-32-63-301		
Owner: T. E. Harris Driller: C. M. Stoner Drilling Co.			Owner: C. M. Myers Driller: C. M. Stoner Drilling Co.		
			Soil	3	3
White rock	435	435	Yellow clay	7	10
Blue shale	11	446	Gravel	15	25
Sandy shale	9	455	Brown shale	106	131
Sand, broken (top Paluxy 478 ft)	20	475	Sand rock	4	135
Sand	15	490	Sandy shale	45	180
White rock	435	925	Sand	30	210
Shale and lime	21	946			
Sandy lime	4	950	Well LW-32-63-403		
Green shale	8	958	Owner: Joe Esmond Driller: Fort Worth Drilling Co.		
Sandy shale	12	970	Sand	3	3
Sand (top Trinity 980 ft)	50	1,020	Yellow clay	17	20
			Quicksand	15	35
Well LW-32-62-701			Gray shale with sand rocks	35	70
Owner: Lonnie Allan Driller: C. M. Stoner Drilling Co.			Blue shale	52	122
White rock	380	380	White lime	68	190
Shale rock	60	440	Brown shale	5	195
Sandy shale	10	450	White lime	31	226
Sand	7	457	Brown shale	41	267
Glen Rose lime	511	968	White lime	55	322
Sand	31	999	Blue gray shale	19	341
Sandy shale	8	1,007	White lime	149	490

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-403—Continued			Well LW-32-63-801—Continued		
Gray shale	52	542	Lime and layers shale	175	785
Shell rock	41	583	Sand	40	825
Sandy shale	41	624	Lime	34	859
Water sand	32	656	Sandy lime and shale	68	927
Sandy lime and shale	11	667	Soft, brown lime	350	1,277
Well LW-32-63-601			Soft, brown shale	10	1,287
Owner: Joe B. Pharris			Brown lime and shale	16	1,303
Driller: C. M. Stoner Drilling Co.			Soft, brown lime	92	1,395
Soil	3	3	Sand	45	1,440
Yellow clay	17	20	Shale	20	1,460
Brown shale	74	94	Hard lime	10	1,470
Sand	9	103	Red shale	25	1,495
Shale	17	120	Layers shale, sandy shale	24	1,519
Sand	23	143	Sandy shale and layers sand	56	1,575
Shale	3	146	Hard shale	11	1,586
Rock	2	148	Red shale	10	1,596
Sand	10	158	Red, sandy shale, layers sand	19	1,615
Broken, sandy shale	19	177	Shale and sandy shale	17	1,632
White sand	14	191	Sand	11	1,643
Shale	16	207	Red sand and shale	12	1,655
Sand	8	215	Layers sand and shale	17	1,672
Sandy shale	2	217	Red shale and layers hard, fine sand	31	1,703
Sand	23	240	Hard sand rock	5	1,708
Well LW-32-63-801			Hard shale	45	1,753
Owner: City of Hillsboro			Red and blue shale	25	1,778
Driller: Layne Texas Co.			Red, blue, some yellow shale	82	1,860
Surface soil	3	3	Red, blue, yellow shale	39	1,899
Yellow clay	17	20	Well LW-32-63-902		
Hard, black shale	35	55	Owner: City of Hillsboro		
Hard sand	20	75	Driller: Layne Texas Co.		
Blue clay	62	137	Surface	5	5
Sand	18	155	Dark shale	45	50
Sandy shale and clay	24	179	Sandstone	5	55
Sandy shale	21	200	Blue clay	15	70
Hard, blue shale	107	307	Water sand	5	75
Lime	114	421			
Lime and layers shale	112	533			
Hard, white lime	77	610			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-902—Continued			Well LW-32-63-909—Continued		
Blue shale	20	95	Lime	36	341
Sandy shale	25	120	Hard lime	33	374
Blue shale	38	158	Broken lime and shale	19	393
Sandy shale	12	170	Lime	37	430
Hard sand	20	190	Broken lime and shale	42	472
Blue shale	90	280	Hard, lime rock	2	474
White lime	70	350	Chalk	26	500
Blue shale	5	355	Lime	6	506
White lime	25	380	Lime and shale	57	563
Blue shale	15	395	Hard shale and lime	43	606
Gray lime	30	425	Shale	74	680
White lime	30	455	Lime	10	690
Gray lime	20	475	Hard lime	16	706
Blue shale	45	520	Hard lime	16	722
White lime	105	625	Shale and boulders	4	726
Blue shale	15	640	Hard sand rock	1	727
White lime	10	650	Shale	20	747
Blue shale	55	705	Hard sand rock	3	750
Sandstone	5	710	Shale	14	764
Hard, gray lime	30	740	Lime	5	769
Blue shale	39	779	Hard sand	9	778
Shale and sand (top sand)	4	783	Hard, white clay	11	789
Good sand (Paluxy)	50	833	Shale and sandy lime	43	832
Dark lime	9	842	Sandy lime	53	885
			Lime	33	918
			Sandy lime and shale	12	930
			Lime	15	945
			Shale layers and sandy lime	18	963
Surface soil	10	10	Hard, sandy lime	3	966
Yellow clay and gravel	5	15	Lime and shale	8	974
Hard, fine sand	35	50	Sandy lime and shale	56	1,030
Hard shale	67	117	Sandy lime and hard shale	35	1,065
Sand	17	134	Hard lime	5	1,070
Sand rock	2	136	Lime	30	1,100
Sand	22	158	Hard lime	16	1,116
Hard shale	22	180	Lime	24	1,140
Pyrite of iron	1	181	Hard lime	20	1,160
Hard shale	102	283			
Hard chalk	22	305			

Well LW-32-63-909
 Owner: City of Hillsboro
 Driller: Layne Texas Co.

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-909—Continued			Well LW-32-63-910—Continued		
Lime and shale	31	1,191	Shale	5	80
Hard lime	24	1,215	Blue shale	30	110
Shale and lime	9	1,224	Sand stone	5	115
Sandy lime and shale	32	1,256	Blue shala	35	150
Lime rock	54	1,310	Water sand (Woodbine)	35	185
Hard, sandy lime	25	1,335	Blue shale	30	215
Sandy shale, streaks hard sand	55	1,390	Blue lime	60	275
Packed sand	29	1,419	White lime	115	390
Shale	5	1,424	Blue shale	20	410
Hard sand, streaks of shale	15	1,439	Gray lime	75	485
Rock	17	1,456	Blue shale	35	520
Red shale	14	1,470	White lime	140	660
Shale	30	1,500	Blue clay	20	680
Red shale	75	1,575	Blue shale	20	700
Blue shale	15	1,590	Gray lime	5	705
Hard, red shale	12	1,602	Sand stone	5	710
Hard shale	6	1,608	Gray lime	35	745
Hard, sandy lime	12	1,620	Blue shale	32	777
Red shale and hard, red sand	27	1,647	Lime and shell	1	778
Red sand rock and shale	13	1,660	Lime	2	780
Sand	10	1,670	Sand (Paluxy)	50	830
Hard gravel and sand	3	1,673	Lime	15	845
Sandy lime and gravel	3	1,676			
Sand rock	4	1,680	Well LW-32-64-101		
Shale	12	1,692	Owner: Edwin Clay Driller: C. M. Stoner Drilling Co.		
Hard rock	4	1,696	Soil	2	2
Shale, hard	4	1,700	Yellow clay	41	43
Shale	19	1,719	Blue shale	75	118
Hard shale	65	1,784	Brown shale	27	145
			Sandy shale	42	187
			Sand	38	225
			Good sand	48	273
Well LW-32-63-910					
Owner: City of Hillsboro Driller: Layne Texas Co.			Well LW-32-64-102		
Yellow clay	8	8	Owner: Boyd "Buck" Bailey Driller: C. M. Stoner Drilling Co.		
Black shale	47	55	Soil	3	3
Dark rock	10	65	Yellow clay	37	40
Blue, sandy clay	5	70	Blue shale	60	100
Sand (litttle water)	5	75			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-102—Continued			Well LW-32-64-301		
Brown shale	115	215			
Sand	100	315			
Shale	38	353			
Well LW-32-64-103			Owner: D. O. Clinkscales Driller: C. M. Stoner Drilling Co.		
			Soil	.5	.5
			Chalk rock	179.5	180
			Blue shale	220	400
			Brown shale	115	515
			Broken sand and sandy shale	35	550
Soil	3	3	Sand	30	580
Yellow clay	27	30	Sandy shale	25	605
Blue shale	100	130	Sand	25	630
Brown shale	100	230	Good sand	46	676
Broken sand	27	257			
Sand	16	273	Well LW-32-64-701		
Sandy shale	15	288	Owner: City of Hillsboro Driller: Texas Water Wells		
Sand	32	320			
Sand	11	331	Rotary to ground level	6	6
Shale	4	335	Surface	2	8
Sand	4	339	Gravel	3	11
			Clay	29	40
Well LW-32-64-201			Clay, sand	10	50
			Sand	5	55
			Shale	10	65
Soil	1	1	Sandy shale	5	70
Chalk rock	1	2	Blue shale	10	80
Chalk rock	13	15	Shale	210	290
Blue shale	185	200	Sandy shale	10	300
Brown shale	145	345	Sand	14	314
Sand	20	365	Shale	11	325
Sandy shale	17	382	Sand	11	336
Sand	13	395	Shale, shells	39	375
Sandy shale	7	402	Shale, lime streaks of sand	75	450
Sand	17	419	Shale lime	132	582
Sandy shale	21	440	Lime	28	610
Gray shale	63	503	Shale, lime	46	656
Sand	5	508	Lime	32	688
White rock	12	520	Shale, lime shells	22	710
			Sand, lime shells	30	740

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-701—Continued			Well LW-32-64-702—Continued		
Shale, lime	126	866	Shale and hard streaks	28	174
Shale	13	879	Fine, sandy shale	16	190
Lime	9	888	Gray shale	43	233
Sand, broken	57	945	Hard, fine, white sand	37	270
Lime	20	965	Gray shale	23	293
Sand, lime shells	30	995	Lime	28	321
Chalk	5	1,000	Gray shale and lime streaks	49	370
Sand	10	1,010	Hard lime and shale streaks	9	379
Chalk	5	1,015	Gray shale and lime streaks	48	427
Sand, lime shells	35	1,050	Hard lime and shale streaks	48	475
Chalk	55	1,105	Hard shale and layers of lime	130	605
Lime, shale	130	1,235	Hard, gray lime and shale breaks	80	685
Sticky shale	10	1,245	Hard shale and hard lime streaks	65	750
Sandy shale, hard lime	55	1,300	Hard, gray shale	35	785
Sand, lime shells	30	1,330	Hard, gray lime and shale breaks	21	906
Lime, hard	121	1,451	Hard, gray shale and streaks of soft shale	65	971
Sandy lime, hard shale	89	1,540	Hard lime	87	1,058
Anhydrite	5	1,545	Hard shale and lime streaks	23	1,081
Lime, shale	65	1,610	Soft lime and streaks of hard lime	63	1,144
Sandy shale	10	1,620	Hard shale and lime	9	1,153
Sand	60	1,680	Hard lime	6	1,159
Sandy lime, shale	125	1,805	Soft lime	10	1,169
Sand	35	1,840	Hard lime and soft streaks	57	1,226
Lime, shale, red bed	15	1,855	Hard lime	149	1,375
Sand	85	1,940	Soft lime and white shale	22	1,397
Red bed, black shale	15	1,955	Hard lime and streaks of shale	20	1,417
Shale lime	10	1,965	Shale	32	1,449
Red bed, streaks of lime	15	1,980	Soft shale and lime	18	1,467
Black shale, hard lime	20	2,000	Gray, sandy shale	21	1,488
			Hard, brown shale and white lime	12	1,500
Well LW-32-64-702					
Owner: Certain-Teed Production Corp. Driller: Layne Texas Co.					
No record	—	—			
Clay	—	31			
Shale	26	57			
Sandy shale	28	85			
Black shale and sand streaks	35	120			
Gray, sandy shale	26	146			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-702—Continued			Well LW-32-64-801—Continued		
Hard shale and sand streaks	16	1,516	Sandy shale	25	540
Fine, gray sand and shale breaks	46	1,562	Sand	10	550
Shale, streaks of sand, and lime	17	1,579	Sandy shale	12	562
Lime and hard sand streaks	23	1,602	Sand	13	575
Hard lime	3	1,605	Gray shale	2	577
Hard lime, shale, and sand streaks	37	1,642	Sand	6	583
Hard lime and shale streaks	7	1,649	Sandy shale	9	592
Gray shale	17	1,666	Sandy rock	1	593
Hard, gray sand and shale streaks	25	1,691	White rock	2	595
Shale and white lime	12	1,703	Well LW-33-57-402		
Hard, gray, fine sand and shale streaks	10	1,713	Owner: Brandon-Irene Water Supply Corp. Driller: J. L. Myers Sons		
Hard, gray shale, lime, and sand streaks	11	1,724	Surface soil	10	10
Fine, hard sand	20	1,744	Lime	70	80
Sandy lime and pink shale breaks	16	1,760	Lime and shaly sand	265	345
Pink shale	10	1,770	Shale and sandy shale	297	642
Fine, hard sand	30	1,800	Shale with sand and lime streaks	98	740
Hard shale	15	1,815	Lime	10	750
Fine sand	13	1,828	Shale and streaks of sand	130	880
Hard shale and lime streaks	48	1,876	Limy shale	174	1,054
Well LW-32-64-801			Lime and shale	458	1,512
Owner: Lacy Feed Co. Driller: C. M. Stoner Drilling Co.			Sandy shale	176	1,688
Chunk rock	4	4	Lime and shaly sand	565	2,253
Chalk	121	125	Shale and sand	189	2,442
Blue shale	170	295	Sand with shale streaks	110	2,552
Brown shale	122	417	Sand	59	2,611
Sandy shale	3	420	Lime	41	2,652
Sand	35	455	Well LW-33-57-601		
Sandy shale	30	485	Owner: City of Mertens Driller: Layne Texas Co.		
Gray shale	20	505	Yellow clay	23	23
Sandy shale	7	512	Gumbo	92	115
Sand	3	515	Shale	199	314
			Gumbo shale	336	650
			Brown shale	118	768
			Lime	4	772
			Sand	5	777

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-33-57-601—Continued			Well LW-39-09-201—Continued		
Lime	2	779	Sand - gravel	50	3,050
Shale	13	792	Shale	88	3,138
Sand	40	832			
Well LW-39-01-102			Well LW-39-09-901		
Owner: Adron Tekell Driller: C. M. Stoner Drilling Co.			Owner: City of Mt. Calm Driller: West-Tex Tool Service		
Soil	3	3	Caliche and clay	203	203
Austin chalk	217	220	Blue shale	708	911
Blue shale	300	520	Shale and lime	374	1,285
Brown shale	109	629	Shale and lime	196	1,481
Sand	31	660	Lime and chalk	98	1,579
Sandy shale with sand streaks	140	800	Lime and shale	229	1,808
Sand	12	812	Lime	53	1,861
Broken sand and shale	58	870	Shale and lime	114	1,975
			Lime	215	2,190
			Lime and shale	70	2,260
			Lime	177	2,437
			Lime	81	2,518
			Lime, sand, and shale	197	2,715
Well LW-39-09-201					
Owner: City of Penelope Driller: J. L. Myers Sons					
Surface soil	48	48	Sandy lime and shale	218	2,933
Blue shale	92	140	Sand, lime	130	3,063
Shale	245	385	Lime and sand	212	3,275
Chalk	265	650	Sand and lime	46	3,321
Shale	641	1,291	Lime and sand	86	3,407
Lime	165	1,456	Sand, lime, and chert	51	3,458
Lime - shale	413	1,869			
Sand - shale	65	1,934	Well LW-39-10-201		
Lime - shale	164	2,098	Owner: City of Hubbard Driller: J. L. Myers Sons		
Shale - sand	20	2,118	Sand	3	3
Shale - lime	100	2,218	Clay	22	25
Shale	7	2,225	Sand rock	25	50
Sand - shale	48	2,273	Shale	671	721
Lime - shale	287	2,560	Chalk rock	304	1,025
Sand - shale	20	2,580	Shale	425	1,450
Lime - shale	140	2,720	Broken sand	70	1,520
Shale	31	2,751	Shale and sandy shale	90	1,610
Sand - shale	189	2,940	Lime	345	1,955
Shale	25	2,965	Lime and broken lime	530	2,485
Sand - shale	35	3,000			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-39-10-201—Continued			Well LW-40-05-601		
Sandy lime	45	2,530	Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.		
Broken lime	50	2,580	Subsoil	15	15
Lime	175	2,755	Lime	155	170
Broken lime	159	2,914	Shale	84	254
Sandy lime	123	3,037	Lime	56	310
Lime	63	3,100	Paluxy sand	24	334
Shale	45	3,145	Lime	133	467
Broken lime	115	3,260	Shale	323	790
Sandy shale	105	3,365	Sand	30	820
Sand	85	3,450	Lime	4	824
Gumbo shale and red shale	40	3,490	Sand and shale	8	832
Sand	20	3,510	Sand	35	867
Broken sand	45	3,555			
Well LW-40-05-303			Well LW-40-06-101		
Owner: Lake Whitney Enterprises Driller: C. M. Stoner Drilling Co.			Owner: Lake Whitney Recreation Club Driller: J. L. Myers Sons		
Soil	1	1	Surface soil	4	4
Gravel	1	2	Broken lime	7	11
Caliche	2	4	Lime	41	52
White rock	355	359	Broken lime	270	322
Shale	25	384	Shale	45	367
Sand	26	410	Broken lime	55	422
White rock	417	827	Shale	46	468
Sand	10	837	Lime	85	553
White rock	23	860	Broken lime	352	905
Sandy shale	25	885	Sandy lime	62	967
Sand	20	905	Sand	13	980
Pink, sandy shale	7	912	Broken sand	45	1,025
Sand	13	925	Broken lime	50	1,075
Gray, sandy shale	55	980	Lime and shale	59	1,134
Red bed	73	1,053	Sand	22	1,156
Gray, sandy shale	21	1,074	Broken sand	52	1,208
Sand	21	1,095	Sand	11	1,219
Gray, sandy shale	11	1,106	Sand and shale	31	1,250
Sand	31	1,137	Shale	28	1,278
Yellow clay	9	1,146			
Sand	44	1,190			
Red shale	10	1,200			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-06-103			Well LW-40-06-402—Continued		
Owner: U.S. Army Corps of Engineers Driller: C. M. Stoner Drilling Co.			Blue lime	50	80
Soil.	6	6	White lime	280	360
Red gravel, clay	6	12	Sand	20	380
White rock	303	315	Blue lime	155	535
Sand	10	325	Shale	115	650
Shale	9	334	Lime	113	763
Sand	40	374	Shale	120	883
White lime	456	830	Sand	17	900
Green, sandy shale	10	840	Shale	55	955
Sand	25	865	Red bed	110	1,065
Sandy shale	5	870	Sand and lime streaks	18	1,083
Sand	42	912	Sand	12	1,095
Green shale	12	924	Sandy lime	10	1,105
Red shale	56	980			
Sand	10	990	Well LW-40-06-501		
Mixed shale	77	1,067	Owner: City of Whitney Driller: Layne Texas Co.		
Sand	67	1,134	Black soil	5	5
			Gravel	15	20
Well LW-40-06-104			Chalk	10	30
Owner: Lake Whitney Enterprises Driller: J. L. Myers Sons			Shale and shell	50	80
Lime	205	205	Lime, gray	45	125
Lime and shale	153	358	Shale	15	140
Sand	37	395	White lime	70	210
Lime	181	576	Shale, gray	50	260
Sandy lime	116	692	Lime, gray	60	320
Lime	118	810	Blue gumbo	10	330
Sandy lime	58	868	Lime, gray	5	335
Sandy shale	40	908	Blue shale	40	375
Sand	28	936	Lime, gray	10	385
Shale	112	1,048	Lime rock	20	405
Sandy shale	48	1,096	Lime and flint	15	420
Sand	65	1,161	Blue shale	30	450
Shale	5	1,166	Sand	36	486
			White lime	14	500
Well LW-40-06-402			Lime	135	635
Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.			Shale, blue	15	650
Subsoil	8	8	Lime, white	105	755
White lime	22	30	Lime	55	810

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-06-501—Continued			Well LW-40-06-504—Continued		
Blue shale	25	835	Shale	6	1,316
Lime	25	860	Sand	8	1,324
Sandy lime	35	895	Shale	4	1,328
Sandy shale	70	965	Broken sand with streaks of shale	7	1,335
Sand	15	980	Sand	45	1,380
Shell, hard	7	987	Broken sand and shale	40	1,420
Sand	3	990	Shale with streaks of sand	50	1,470
Lime, sandy	8	998			
Sand	15	1,013	Well LW-40-06-801		
Shale	4	1,017	Owner: Lake Whitney Enterprises Driller: J. L. Myers Sons		
Red rock	3	1,020			
Shale	10	1,030	No record	1,014	1,014
Sandy lime	10	1,040	Lime	55	1,069
Lime	40	1,080	Lime and shale	58	1,127
Lime, hard	14	1,094	Hard sand	8	1,135
Shale	22	1,116	Lime	48	1,183
Red shale	7	1,123	Sand	7	1,190
Sandy lime	5	1,128	Broken lime, shale, and sand	70	1,260
Sand	142	1,270	Sand	10	1,270
Sand, red	5	1,275	Hard sand	5	1,275
Red, sandy lime	5	1,280			
Lime	3	1,283	Well LW-40-07-201		
			Owner: City of Hillsboro Driller: Layne Texas Co.		
Well LW-40-06-504			Soil	4	4
Owner: Hill County Water Supply Corp. Driller: J. L. Myers Sons			Clay and sandy clay	18	22
Clay and sand	38	38	Clay and sandy clay	16	38
Shale	49	87	Clay and gravel	8	46
Lime with streaks of shale	493	580	Shale	6	52
Sand	10	590	Shale and boulders	150	202
Sandy shale	27	617	Sandy shale	45	247
Lime	33	650	Shale and lime	443	690
Lime and shale	102	752	Blue shale and lime	45	735
Lime and shale with streaks of sand	120	872	Sandy shale and lime	10	745
Lime and shale	229	1,101	Shale and lime	35	780
Broken sand and shale	189	1,290	Hard, gray lime and shale	136	916
Shale	16	1,306	Dark shale and lime	26	942
Sand	4	1,310	Gray shale and sandy lime	38	980

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-07-201—Continued			Well LW-40-08-501		
Hard, gray, sandy shale and lime	115	1,095	Owner: Chatt Water Supply Corp. Driller: J. L. Myers Sons		
Hard shale and lime	75	1,170	Surface soil	15	15
Hard shale	29	1,199	Shale	535	550
Hard lime and shale	86	1,285	Lime	60	610
Sandy lime	20	1,305	Lime and shale	267	877
Shale and sandy shale	51	1,356	Lime and sandy streaks	120	997
Broken, gray sand	8	1,364	Lime and shale	338	1,335
Hard, sandy shale	63	1,427	Lime with sand and shale	325	1,660
Sand, gray, lime breaks	34	1,461	Sand with lime and shale streaks	134	1,794
Hard shale, green and blue	47	1,508	Lime and sand	148	1,942
Shale, green and blue	52	1,560	Sand	98	2,040
Sandy shale, red-blue	53	1,613	Shale	30	2,070
Hard, sandy shale	71	1,684			
Well LW-40-08-101			Well LW-40-08-801		
Owner: Robert Davis Driller: C. M. Stoner Drilling Co.			Owner: City of Abbott Driller: J. L. Myers Sons		
Soil	3	3	Topsoil	2	2
Rock	57	60	Chalk rock	112	114
Blue shale	180	240	Shale and lime streaks	404	518
Brown shale	112	352	Sandy shale	91	609
Sand	45	397	Lime	75	684
Shale	27	424	Broken lime	36	720
Sand	8	432	Lime with shale streaks	512	1,232
Shale	48	480	Sandy lime	20	1,252
			Broken, sandy lime	61	1,313
Well LW-40-08-202			Sand	34	1,347
Owner: Mrs. B. H. Cheatham Driller: C. M. Stoner Drilling Co.			Broken lime	347	1,722
Soil	1	1	Sandy shale	133	1,855
White rock	134	135	Shale	12	1,867
Blue shale	175	310	Sandy lime	13	1,880
Brown shale	129	439	Sandy shale	30	1,910
Sand	20	459	Broken sand	40	1,950
Sandy shale	63	522	Sand	22	1,972
Sand	24	546	Broken sand	38	2,010
Shale	35	581	Sand	80	2,090
Sand	5	586	Lime	13	2,103
Shale	23	609			

Table 3.—Drillers' Logs of Selected Wells in Hill County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-14-102			Well LW-40-14-201—Continued		
Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons			Lime	419	869
Surface	4	4	Lime - shale	56	925
Clay	14	18	Lime	15	940
Gravel	7	25	Lime - shale	19	959
Lime	156	181	Sandy lime	21	980
Lime with shallow shale breaks	74	255	Sandy shale	21	1,001
Hard lime	145	400	Lime	34	1,035
Sandy shale	34	434	Sandy lime	21	1,056
Lime	36	470	Lime	24	1,080
Shale	15	485	Shale	28	1,108
Lime	335	820	Sand	18	1,126
Shale	16	836	Shale	43	1,169
Sandy shale	4	840	Sand	46	1,215
Sand	13	853	Sandy lime	10	1,225
Shale	5	858	Well LW-40-14-601		
Sand	22	880	Owner: Baptist Encampment Driller: Hervey Meadows and Son Well Driller		
Lime	8	888	Soil	2	2
Broken lime and shale	47	935	Clay and gravel	15	17
Sand	15	950	White rock	13	30
Rock	5	955	Blue rock	60	90
Lime and shale	34	989	White rock	50	140
Sand	21	1,010	Hard, blue rock	55	195
Hard sand	8	1,018	White lime	185	380
Sand	98	1,116	Blue shale	40	420
Hard sand	16	1,132	White lime	35	455
Shale	13	1,145	Black shale	30	485
Well LW-40-14-201			Glen Rose lime	570	1,055
Owner: Prairie Valley Presbyterian Church Driller: J. L. Myers Sons			Trinity sand	57	1,112
Surface soil	1	1	Well LW-40-14-602		
Clay - rock	5	6	Owner: Baptist Encampment Driller: Hervey Meadows and Son Well Driller		
Lime	268	274	Soil	2	2
Lime - shale	62	336	Clay and gravel	15	17
Lime	66	402	White rock	13	30
Lime - shale	15	417	Blue rock	60	90
Sand	11	428	White rock	50	140
Lime - shale	22	450	Hard, blue rock	55	195

HILL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well LW-32-53-701		Well LW-32-54-701		Well LW-32-55-902	
Owner: U.S. Army Corps of Engineers		Owner: Gulf Oil Corp.		Owner: City of Itasca	
Apr. 13, 1963	+ 3	Feb. 18, 1965	179.10	Apr. 20, 1939	133
Mar. 23, 1966	23.17	Mar. 11, 1966	175.50	Feb. 17, 1965	198.00
Apr. 17, 1967	22.46	Mar. 24, 1967	181.26	Dec. 30, 1965	146.63
Mar. 18, 1968	23.73	Mar. 19, 1968	183.25	Mar. 11, 1966	219.33
Mar. 7, 1969	39.70	Mar. 7, 1969	189.10	Mar. 8, 1967	218.01
Well LW-32-53-902		Well LW-32-55-304		Mar. 20, 1968	221.23
Owner: Blum Water Supply Corp.		Owner: Sam Gard		Mar. 3, 1969	237.7
Sept. 28, 1964	150	July 19, 1964	85	Well LW-32-55-909	
Feb. 18, 1965	123.96	Dec. 21, 1965	67.36	Owner: Ernest Whitfield	
Mar. 11, 1966	117.90	Sept. 7, 1966	58.21	Dec. 30, 1965	113.28
Mar. 24, 1967	130.40	Sept. 26, 1966	58.16	Mar. 25, 1968	113.52
Mar. 20, 1968	129.51	Oct. 27, 1966	57.70	Well LW-32-56-902	
Mar. 7, 1969	132.65	Nov. 21, 1966	58.06	Owner: A. G. Bailey	
Well LW-32-54-501		Feb. 7, 1967	58.75	Sept. 16, 1964	480
Owner: Edith Hood		Mar. 8, 1967	62.07	Dec. 30, 1965	384.95
May 18, 1960	19	June 2, 1967	62.23	Well LW-32-61-201	
Mar. 11, 1966	27.13	June 27, 1967	61.15	Owner: Brazos Lime Co.	
Apr. 17, 1967	18.78	July 31, 1967	59.54	Apr. 22, 1964	165
Mar. 18, 1968	17.75	Sept. 13, 1967	64.00	Feb. 17, 1965	170
Mar. 4, 1969	18.30	Oct. 9, 1967	64.50	Mar. 11, 1966	143.05
Well LW-32-54-601		Nov. 6, 1967	60.86	Mar. 24, 1967	167.79
Owner: R. A. Harris		Dec. 7, 1967	57.59	Mar. 20, 1968	161.13
Aug. 31, 1958	175	Jan. 11, 1968	55.47	Mar. 7, 1969	172.10
Nov. 19, 1964	299.33	Feb. 12, 1968	53.45	Well LW-32-62-302	
Apr. 19, 1966	355.49	Mar. 3, 1969	62.10	Owner: Ed Allen	
Apr. 18, 1967	330.24	Well LW-32-55-601		Jan. 16, 1964	175
Mar. 20, 1968	303.15	Owner: — Morris		Mar. 10, 1966	159.00
Mar. 4, 1969	358.7	Dec. 15, 1965	125.62	Apr. 17, 1967	161.63
		Dec. 5, 1966	124.63	Mar. 18, 1968	163.72
		Mar. 8, 1967	114.73	Mar. 4, 1969	171.10

Table 4.—Water Levels in Selected Wells in Hill County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well LW-32-62-401		Well LW-32-62-901—Continued		Well LW-32-64-301—Continued	
Owner: T. E. Harris		Mar. 24, 1967	16.72	Apr. 18, 1967	472.17
June 22, 1960	125	Mar. 18, 1968	13.14	Mar. 25, 1968	475.81
Mar. 10, 1966	153.05	Well LW-32-63-301		Well LW-32-64-702	
Sept. 7, 1966	157.41	Owner: C. M. Myers		Owner: Certain - Teed Production Corp.	
Sept. 26, 1966	158.38	Jan. 25, 1962	135	Dec. 11, 1962	232
Oct. 27, 1966	157.61	Dec. 21, 1965	128.24	Apr. 17, 1967	340.17
Nov. 21, 1966	157.89	Mar. 8, 1967	124.07	Mar. 25, 1968	379.50
Feb. 7, 1967	157.87	Mar. 25, 1968	121.61	Mar. 10, 1969	390.6
Mar. 24, 1967	159.10	Mar. 3, 1969	120.90	Well LW-33-57-402	
May 8, 1967	158.06	Well LW-32-63-403		Owner: Brandon - Irene Water Supply Corp.	
June 2, 1967	158.38	Owner: Joe Esmond		May 26, 1966	181.4
June 27, 1967	158.96	Nov. 15, 1965	230	Mar. 25, 1968	227.60
Sept. 13, 1967	162.81	Oct. 7, 1968	230.50	Mar. 6, 1969	230.60
Nov. 6, 1967	161.21	Well LW-32-63-910		Well LW-33-57-601	
Dec. 7, 1967	161.00	Owner: City of Hillsboro		Owner: City of Mertens	
Jan. 11, 1968	161.05	Nov. 5, 1941	135	Aug. 12, 1930	60
Feb. 12, 1968	162.10	Jan. 26, 1949	221	Mar. 5, 1966	190.00
Mar. 18, 1968	161.32	Oct. 7, 1968	385.30	Apr. 13, 1967	299.75
Mar. 6, 1969	171.30	Mar. 10, 1969	428.7	Mar. 26, 1968	306.20
Well LW-32-62-501		Well LW-32-63-912		Mar. 3, 1969	334.0
Owner: Griffin Rogers		Owner: Hillsboro Cotton Mill		Well LW-39-01-602	
July 13, 1960	3	June 27, 1960	115	Owner: Malone Water Supply Corp.	
Mar. 10, 1966	8.57	Apr. 17, 1967	113.68	Sept. 30, 1964	Flowed
Mar. 24, 1967	8.71	Mar. 18, 1968	119.70	May 16, 1967	13.96
Mar. 18, 1968	8.33	Mar. 10, 1969	114.00	Mar. 20, 1968	23.28
Mar. 4, 1969	6.50	Well LW-32-64-102		Mar. 3, 1969	29.30
Well LW-32-62-701		Owner: Boyd "Buck" Bailey		Well LW-39-09-201	
Owner: Lonnie Allen		Dec. 15, 1965	221.90	Owner: City of Penelope	
Mar. 9, 1966	125.10	Apr. 26, 1966	217.05	May 24, 1960	18
Mar. 24, 1967	132.21	Sept. 7, 1966	216.07	May 16, 1967	101.84
Mar. 18, 1968	134.50	Sept. 26, 1966	213.43	Mar. 25, 1968	111.00
Mar. 7, 1969	142.75	Oct. 27, 1966	213.2	Mar. 3, 1969	117.60
Well LW-32-62-901		Well LW-32-64-301			
Owner: W. T. Allison		Owner: D. O. Clinkscales			
July 14, 1960	14.00	June 14, 1963	435		
Mar. 10, 1966	15.23	Dec. 30, 1965	469.16		

Table 4.—Water Levels in Selected Wells in Hill County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well LW-39-09-901		Well LW-40-06-104		Well LW-40-14-102	
Owner: City of Mt. Calm		Owner: Lake Whitney Enterprises		Owner: U.S. Army Corps of Engineers	
Dec. 9, 1964	123.30	July 8, 1958	30	Mar. 22, 1949	Flowed
Mar. 2, 1966	129.46	Mar. 8, 1966	84.25	1964	Flowed
Apr. 13, 1967	137.59	Mar. 6, 1969	104.49	Mar. 9, 1966	16.19
Mar. 26, 1968	145.08			Sept. 7, 1966	31.09
Mar. 6, 1969	160.00	Well LW-40-06-501		Sept. 26, 1966	26.85
		Owner: City of Whitney		Oct. 27, 1966	25.86
Well LW-39-10-201		Mar. 5, 1942	Flowed	Nov. 21, 1966	26.71
Owner: City of Hubbard		Mar. 22, 1949	0	Feb. 7, 1967	24.83
June 28, 1960	200	June 16, 1960	50	Mar. 13, 1967	24.64
Mar. 19, 1965	137.91	May 15, 1963	87.00	Apr. 17, 1967	27.09
Apr. 9, 1965	139.66	Mar. 8, 1966	120.08	May 8, 1967	26.77
Mar. 2, 1966	146.34			June 2, 1967	30.13
Apr. 13, 1967	152.90	Well LW-40-06-801		Oct. 9, 1967	34.27
		Owner: Lake Whitney Enterprises		Nov. 6, 1967	33.23
Well LW-39-10-202		Mar. 8, 1966	58.67	Dec. 7, 1967	31.00
Owner: City of Hubbard		Mar. 13, 1967	110.2	Jan. 11, 1968	31.74
June 28, 1960	200	Mar. 19, 1968	116.2	Feb. 12, 1968	31.29
Apr. 9, 1965	136.26	Mar. 6, 1969	145.7	Mar. 18, 1968	30.90
Sept. 7, 1966	153.05			Mar. 6, 1969	38.55
Sept. 26, 1966	153.19	Well LW-40-07-801			
Oct. 27, 1966	154.32	Owner: Cox and McIlroy		Well LW-40-14-201	
Nov. 21, 1966	154.95	July 12, 1960	50	Owner: Prairie Valley Presbyterian Church	
Feb. 7, 1967	157.02	Mar. 7, 1966	213.51	Mar. 8, 1966	83.77
Apr. 13, 1967	158.49	Sept. 7, 1966	204.75	Mar. 13, 1967	81.47
May 8, 1967	159.20	Sept. 26, 1966	207.62	Mar. 4, 1969	93.94
June 2, 1967	160.19	Oct. 27, 1966	207.52		
June 27, 1967	160.71	Mar. 13, 1967	205.79	Well LW-40-14-802	
July 31, 1967	161.62	June 27, 1967	205.02	Owner: Baptist Encampment	
Sept. 13, 1967	162.31	Sept. 13, 1967	206.78	May 17, 1960	Flowed
Oct. 9, 1967	163.04	Oct. 9, 1967	206.64	Mar. 9, 1966	42.45
Nov. 6, 1967	164.15	Nov. 6, 1967	207.62	Apr. 14, 1967	59.42
Dec. 7, 1967	164.54	Jan. 11, 1968	206.98	Mar. 18, 1968	57.85
Jan. 11, 1968	165.11	Feb. 12, 1968	206.54	Mar. 4, 1969	63.45
Feb. 12, 1968	166.24	Mar. 18, 1968	206.16		
Mar. 6, 1969	175.90	Mar. 4, 1969	213.50		

Table 4.—Water Levels in Selected Wells in Hill County—Continued

DATE		WATER LEVEL	DATE		WATER LEVEL
Well LW-40-15-102			Well LW-40-15-201		
Owner: Aquilla Water Supply Corp.			Owner: Menlow Water Supply Corp.		
Jan.	1960	62	Nov.	19, 1965	170
Mar.	9, 1966	79.00	Apr.	14, 1967	183.42
May	16, 1967	101.43	Mar.	19, 1968	189.95
Mar.	18, 1968	100.76	Mar.	4, 1969	200.60

HILL COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Waa, Edwards and associated limestones; Kl, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ku, Antlers Formation; Ktp, Travis Peak Formation; Kba, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kbo, Bosscon Member of the Travis Peak Formation; F, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board Personnel using sum of constituents in "Reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1W-32-53-902	934	Apr. 10, 1962	Kba	--	0.17	3	2	190	--	362	85	24	0.5	< 0.4	--	501	483	17	96	835	8.1	20.7
y 54-501	40	May 18, 1960	Kwb	22	--	16	6.2	* 23	--	23	47	28	--	9.0	--	162	--	65	43	255	5.5	1.2
y 601	1,400	Apr. 20, 1961	Kba	13	.16	8.5	7.2	* 331.7	--	407	360	43	2.3	1.0	0.58	967	--	50	93	1,500	8.1	20.3
601	1,400	July 6, 1966	do.	--	1.40	4	4	266	--	372	236	40	1.4	< .4	--	930	736	29	96	1,296	8.5	22.3
701	428	Feb. 18, 1965	Kp	8	--	2	1	386	--	610	215	37	5.8	3.5	--	990	959	10	99	1,580	8.9	56.0
55-304	273	Sept. 16, 1968	Kwb	13	1.86	226	29	91	--	336	472	96	.9	< .4	--	1,090	--	690	22	1,500	7.2	1.5
902	1,835	Feb. 14, 1939	Kba	17	.08	4	3	+ 248	--	433	80	75	< .2	.4	--	675	642	23	96	--	8.6	22.5
y 902	1,835	Jan. 1943	do.	14	.01	.6	0.5	* 247.4	--	434	80	67	.3	1.5	--	638	625	4	99	--	8.4	53.8
902	1,835	Aug. 17, 1949	do.	12	.06	7	2	+ 264	--	491	91	71	.2	< .4	--	642	689	26	96	--	8.6	23.0
902	1,835	Aug. 12, 1953	do.	17	.13	15	10	275	--	414	227	64	.6	< .4	--	830	813	79	88	--	8.3	13.4
902	1,835	June 17, 1963	do.	--	.60	242	114	810	--	270	2,380	37	1.3	< .4	--	3,860	3,719	1,070	62	6,447	7.6	10.6
902	1,835	July 3, 1963	do.	--	.1	95	56	580	--	290	1,370	38	1.2	< .4	--	2,430	2,284	468	73	3,968	7.6	11.7
902	1,835	June 4, 1964	do.	--	.06	106	50	580	--	307	1,360	38	2.7	< .4	--	2,440	2,288	470	73	4,074	7.8	11.6
903	312	Aug. 12, 1953	Kwb	53	1.1	9	13	199	--	536	68	21	.5	< .4	--	700	629	126	85	--	8.6	9.9
903	312	Sept. 16, 1955	do.	100	2.5	2	1	261	--	512	74	28	.4	< .4	--	760	722	9	98	--	8.5	37.8
y 904	1,856	June 22, 1956	Kba	--	.25	3	.5	254.6	--	451.4	80	63	--	--	--	902	624	10	98	--	8.4	36.9
904	1,856	Jan. 18, 1961	do.	--	.08	3	1	245	--	437	98	62	.9	< .4	--	672	625	10	98	1,120	8.5	26.6
y 905	300	May 19, 1960	Kwb	12	--	32	16	* 308	--	307	466	56	--	.2	--	1,040	--	146	82	1,580	7.0	11.1
y 56-402	488	May 26, 1960	do.	12	.03	1.5	.6	297.2	--	485	201	25	.8	.2	1.7	779	--	4	99	1,200	8.2	64.6
61-201	1,002	Sept. 16, 1968	Kba	12	< .02	3	2	197	--	389	86	29	.3	< .4	--	520	--	17	97	826	8.3	21.4
901	780	Apr. 11, 1963	Kba	--	2.2	5	1	251	--	262	225	29	1.3	< .4	--	830	644	17	97	1,236	9.4	27.3
62-302	1,213	Sept. 17, 1968	do.	14	.28	4	5	236	--	386	181	38	1.2	< .4	--	670	--	30	94	1,054	8.2	18.3
401	1,020	Sept. 16, 1968	do.	13	.22	5	4	246	--	362	199	36	1.4	< .4	--	690	--	30	95	1,050	8.1	21.0
y 63-901	200	Jan. 1943	Kwb	10	.02	2.7	1.1	* 289	--	508	160	35	.2	2.5	--	762	751	12	98	--	8.3	38.1
901	200	May 1, 1957	do.	--	2.2	4	1	318	--	499	180	52	1.2	1.8	--	760	800	13	98	1,260	8.3	36.8
902	842	Apr. 19, 1955	Kp	20	.6	12	5	457	--	488	507	82	3.0	5.3	--	1,296	1,332	51	95	--	8.2	28.0

See footnotes at end of table.

HILL COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ABSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ IW-32-63-908	1,810	Jan. 1943	Kho	18	0.07	3.5	1.6	* 268	--	464	116	59	0.3	0.0	--	704	--	16	97	--	8.3	29.9
1/ 909	1,784	Feb. 13, 1943	Kp, Kho	6.5	.02	55	25	* 496	--	399	861	66	.4	2.5	--	1,712	--	240	82	--	7.9	13.9
1/ 909	1,784	Nov. 28, 1962	do.	--	.32	35	16	427	--	480	576	40	1.5	< 0.4	--	1,576	1,332	154	86	2,398	7.7	15.0
1/ 910	845	Apr. 19, 1955	Kp	17	.23	6	3	495	--	488	581	71	3.8	< .4	--	1,375	1,418	28	98	--	8.2	40.6
1/ 910	845	May 1, 1957	do.	--	.80	6	4	464	--	476	586	75	5.0	< .4	--	1,420	1,375	31	97	2,368	8.2	35.4
1/ 910	845	Oct. 7, 1968	do.	13	.22	6	4	478	--	488	570	63	4.5	< .4	--	1,380	--	32	97	2,030	8.3	36.5
1/ 64-302	727	June 8, 1965	Kwb	10	--	1	1	390	--	600	245	64	2.2	< .4	--	1,010	--	9	99	1,630	7.9	65.3
1/ 701	2,000	Nov. 28, 1962	Kwb, Kp, Kgr, Rtp	--	.16	7	3	338	--	485	242	70	2.0	< .4	--	1,147	901	28	96	1,620	8.3	26.7
1/ 702	1,876	Dec. 18, 1962	Ktp	--	.3	12	3.8	253.9	--	453.8	177.4	28	--	--	--	1,006	698	46	92	1,095	7.45	16.2
1/ 801	595	Nov. 22, 1968	Kwb	10	--	6	5	496	--	630	454	89	4.5	.5	--	1,380	--	33	97	2,040	8.0	36.0
1/ 33-57-402	2,652	May 2, 1966	Kho	--	.54	5	2	298	--	530	98	92	1.7	< .4	--	1,030	759	20	97	1,440	8.4	28.2
1/ 601	832	Mar. 22, 1949	Kwb	12	.57	3.2	1.5	* 590.6	--	654	487	166	4.4	1.8	1.5	1,590	--	14	99	2,440	8.2	69.4
1/ 601	832	Sept. 1, 1949	do.	28	.12	11	10	* 564	--	653	493	174	3.2	2.2	--	1,620	1,607	69	95	--	8.0	29.6
1/ 601	832	Mar. 13, 1968	do.	--	.08	4	2	580	--	640	467	165	3.4	< .4	--	1,860	1,537	18	99	--	8.4	60.1
1/ 39-01-102	870	Nov. 29, 1968	do.	7	--	7	5	1,000	--	850	670	550	4.1	< .4	--	2,680	2,662	37	98	3,850	8.5	70.2
1/ 601	2,471	Jan. 1943	Khe, Kpe	18	.18	147	49	* 875	--	225	2,072	76	1.4	1.0	--	3,440	3,351	568	77	--	7.8	16.0
1/ 601	2,471	Mar. 22, 1949	do.	24	3.2	149	55	* 892	--	224	2,156	77	2.8	.2	0.66	3,460	--	598	76	4,380	7.2	15.8
1/ 601	2,471	Feb. 3, 1953	do.	24	.7	180	74	851	--	250	2,220	78	.8	< .4	--	3,560	--	753	71	--	7.3	13.5
1/ 601	2,471	Nov. 28, 1962	do.	--	2.6	74	101	859	--	236	2,126	85	.0	< .4	--	3,483	3,364	602	76	5,943	7.4	15.3
1/ 602	2,988	May 10, 1963	Kho	--	--	5.5	0.8	239	2.8	425	27.5	116.3	--	.4	--	625	603	14.4	96	--	8.05	25.4
1/ 602	2,988	Sept. 23, 1963	do.	--	.04	9	0	280	--	510	75	106	1.0	.4	--	990	722	22	96	1,362	8.4	25.4
1/ 02-101	915	Jan. 1943	Kwb	7.0	.04	5.7	2.4	* 822	--	750	505	460	4.4	2.0	--	2,219	2,178	24	98	--	8.0	73.0
1/ 101	915	Sept. 5, 1962	do.	--	.18	5	3	833	--	760	474	481	4.3	< .4	--	2,560	2,175	25	98	4,032	8.2	63.6
1/ 09-201	3,138	Apr. 19, 1960	Kho	--	.15	5	< 1	295	--	456	83	155	1.1	< .4	--	822	765	15	96	1,370	8.0	26.2
1/ 201	3,138	May 24, 1960	do.	22	.13	4.5	.8	* 311.1	--	468	89	152	1.2	1.0	1.7	828	812	14	98	1,370	--	34.7
1/ 402	3,250	Sept. 23, 1965	do.	--	.36	+ 6	--	324	--	580	102	79	2.7	1.5	--	1,100	801	14	--	1,432	8.4	--
1/ 901	3,458	Dec. 11, 1964	do.	13.8	.3	5.6	1.5	327.2	--	517.3	131.7	95	2.0	--	--	1,116	832	20	97	--	8.1	31.6
1/ 901	3,458	Dec. 18, 1964	do.	--	.54	4	1	335	--	550	148	93	3.1	< .4	--	1,140	856	17	98	1,520	8.2	39.4
1/ 10-201	3,555	Apr. 21, 1961	Kho	31	.00	5.0	.8	* 457	--	656	267	134	3.4	.0	1.5	1,220	--	16	98	1,950	7.9	49.7
1/ 201	3,555	Mar. 21, 1966	do.	--	.04	+ 7	--	467	--	650	260	174	3.2	1.5	--	1,570	1,233	14	--	2,570	8.4	--
1/ 40-05-303	1,200	Apr. 15, 1966	do.	--	.04	2	1	214	--	372	94	39	.5	< .4	--	730	534	12	98	995	8.6	31.0
1/ 06-101	1,278	Dec. 4, 1967	do.	--	.05	2	1.5	204.6	--	351.4	63.6	43.7	.6	.3	--	691.8	491	11.2	98	880	8.5	27.0
1/ 104	1,166	May 3, 1963	do.	14	.03	2.5	1.2	227	--	402	104	46	.4	0	--	595	--	11	98	944	8.1	29.9
1/ 704	1,166	Apr. 15, 1966	do.	--	.04	2	1	214	--	367	96	43	.5	< .4	--	740	537	9	98	1,020	8.7	31.0

See footnotes at end of table.

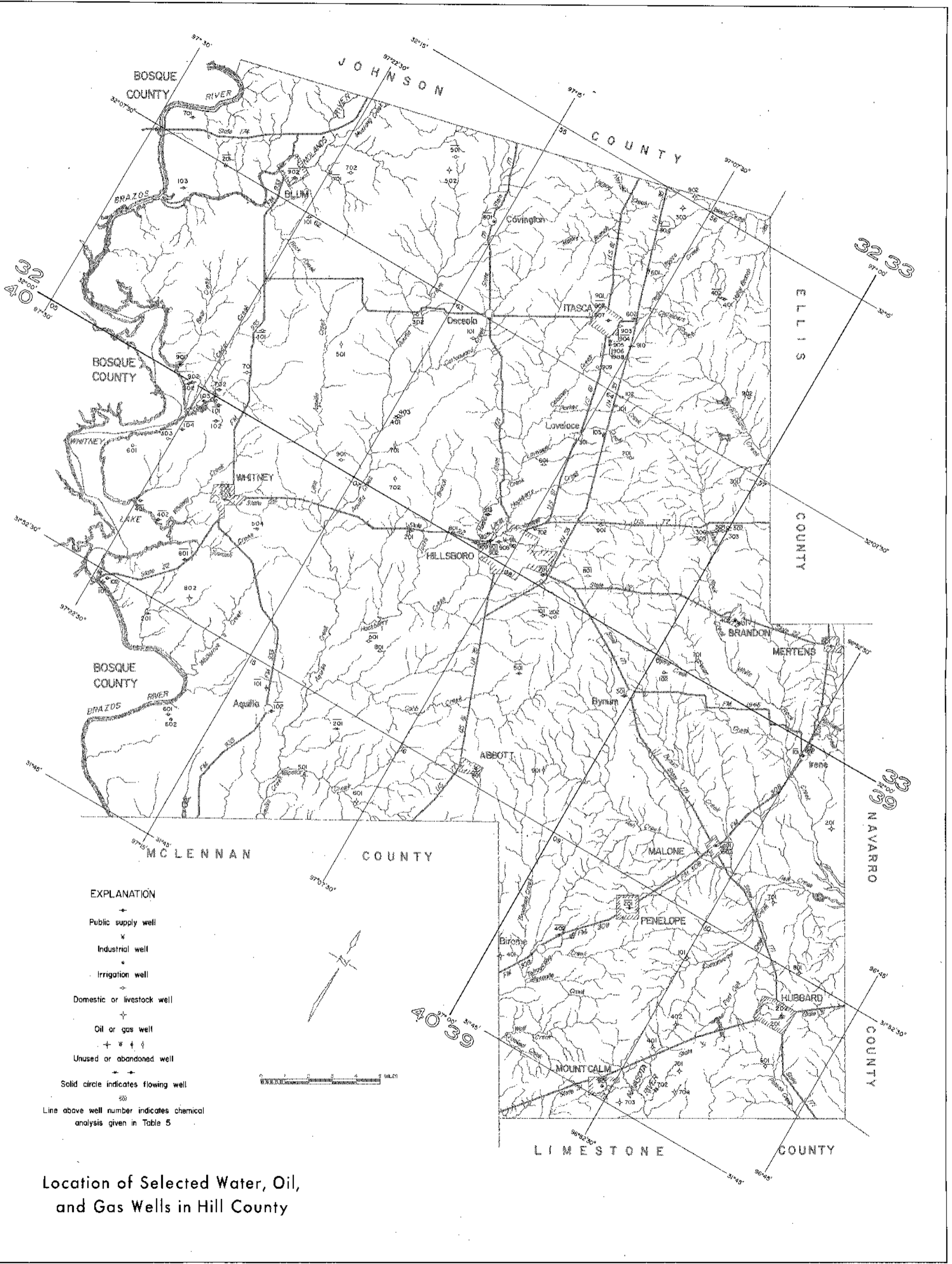
HILL COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
LN-40-06-401	1,800	May 1968	Ktp	--	0.02	--	--	--	--	--	96	43	0.7	0.4	--	--	760	--	--	--	--	--	--
402	1,105	do.	Kho	--	.04	--	--	--	--	--	91	40	.4	.4	--	--	750	--	--	--	--	--	--
402	1,105	Aug. 20, 1968	do.	--	.04	3	2	215	--	364	88	36	.9	< .4	--	--	730	524	15	97	975	8.9	23.4
1/ 501	1,283	Mar. 22, 1949	do.	14	.11	2.6	1.4	* 227	--	398	115	41	.8	1.2	0.32	--	604	--	12	98	972	8.3	27.4
501	1,283	Apr. 18, 1955	do.	12	.1	3	1	230	--	378	108	50	.5	< .4	--	--	590	--	12	98	--	8.4	28.6
4/ 504	1,470	Jan. 8, 1966	do.	14.4	.16	3.2	1.9	220.4	--	356.2	97.7	43.0	.6	.4	--	--	761.6	557	14	97	--	8.3	24.0
504	1,470	May 12, 1966	do.	--	.12	3	1	214	--	378	97	38	.5	< .4	--	--	740	540	12	98	1,000	8.6	26.6
1/ 801	1,275	Feb. 27, 1950	do.	20	--	4	.9	* 224	--	420	105	34	--	.2	--	--	601	--	14	97	922	8.1	26.3
2/ 07-201	1,684	Nov. 24, 1952	Kp, Kgr, Ktp	12	.2	10.6	6.2	* 485.5	--	488	543	94	--	--	--	--	1,691.3	1,392	52	95	--	7.85	29.3
501	185	Dec. 2, 1968	Kwb	9	--	16	9	476	--	416	600	114	2.3	2.5	--	--	1,430	--	78	93	2,090	7.7	23.5
801	796	Sept. 16, 1968	Kp	9	2.90	27	25	890	--	500	1,350	240	4.2	< .4	--	--	2,780	--	170	92	3,680	7.9	29.6
08-101	480	Nov. 22, 1968	Kwb	10	--	4	2	526	--	590	494	131	2.9	< .4	--	--	1,460	--	18	98	2,150	8.3	54.5
301	726	Dec. 11, 1959	do.	--	.3	6	3	790	--	711	600	340	5.0	< .4	--	--	2,250	2,095	28	98	3,730	8.2	64.8
301	726	Sept. 17, 1968	do.	12	.06	13	15	760	--	710	620	335	4.2	< .4	--	--	2,110	--	92	95	3,060	7.9	34.1
4/ 501	2,070	July 15, 1968	Kho	--	.1	3.2	1.5	250.6	--	414.8	83.3	65	.8	.2	--	--	843.5	609	14	97	1,100	8.7	29.5
801	2,103	July 14, 1954	do.	22	.08	4	2	247	--	439	90	57	.8	2.2	--	--	646	--	18	97	--	8.4	25.6
801	2,103	Feb. 1959	do.	--	.01	3	1	* 213	--	364	75	57	.8	1.1	--	--	594	530	11	98	990	8.0	25.7
801	2,103	June 23, 1960	do.	--	.03	3	1	216	--	439	76	59	.8	< .4	--	--	614	572	11	98	1,024	8.4	26.1
1/ 14-102	1,145	Mar. 22, 1949	do.	13	1.1	2.2	1.4	* 217.2	--	376	86	28	.6	.8	.19	--	555	536	12	98	879	8.6	27.0
102	1,145	Sept. 16, 1968	do.	14	.10	2	3	201	--	406	84	29	.5	< .4	--	--	540	--	16	96	844	8.4	21.0
1/ 15-101	1,497	Apr. 21, 1961	Ktp	14	.11	5	2.5	* 230.8	--	419	131	34	1.9	.2	.50	--	626	--	23	96	1,020	8.1	20.9
102	1,485	Nov. 11, 1965	Kho	--	.04	4	3	216	--	398	83	39	1.0	< .4	--	--	750	542	20	95	1,005	8.6	19.6
201	1,700	Mar. 15, 1966	do.	--	.26	† 6	--	230	--	405	79	58	.8	< .4	--	--	790	573	14	--	1,080	8.6	--

* Sodium and potassium calculated as sodium (Na)
† Calcium and magnesium calculated as calcium (Ca)

LABORATORY CONDUCTING ANALYSTS:
1/ U. S. Geological Survey Laboratory
2/ Curtis Laboratories
3/ North Texas State University Water Research Laboratory
4/ Pope Testing Laboratories



EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well

Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Hill County

HOOD COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kub, Woodbine Group; Kca, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; F, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT?	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT ¹	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* LY-31-32-901	Herman D. Howard	Herman D. Howard	1952	46	48	15	Ktp	962	27 28.60	1957 Mar. 27, 1969	J, E 1	P	Dug well with concrete wall from 15 ft to surface. Open hole from 15 to 46 feet. Pump set at 44 ft. Estimated yield 15 gpm. Texas Water Development Board observation well. <u>y</u>
32-41-102	Stanley Allen	Measure Brothers	1965	140	--	--	do.	879	47.16 45.45	Oct. 25, 1965 Mar. 27, 1969	Sub, E 2	Irr	Measured yield 46 gpm. Texas Water Development Board observation well. <u>y</u>
42-302	J. L. Wiggins	L. R. Johnson	1948	396	4	396	do.	880	229	Sept. 28, 1960	--	D, S	Perforated from 366 to 396 ft. Pump set at 233 ft.

* For chemical analysis of water, see Table 5.

1/ For water-level measurements, see Table 4.

HOOD COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LY-32-41-903	DeSoto Oil Co.	B. W. Wann No. 1	1952	5,083	788	E
42-202	Mid-Continent Petroleum	Squaw Creek Cattle Co. No. 1	1950	5,578	911	E
43-102	B. W. Fitzgerald	Van Morrison No. 1	1951	4,507	866	E

HOOD COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

	DATE	WATER LEVEL
Well LY-31-32-901		
Owner: Herman D. Howard		
	1957	27
Oct.	25, 1967	34.6
Mar.	27, 1969	28.60
Well LY-32-41-102		
Owner: Stanley Allen		
Oct.	25, 1965	47.16
Apr.	4, 1966	44.34
Mar.	15, 1967	46.02
Mar.	28, 1968	44.23
Mar.	27, 1969	45.45

HOOD COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kvb, Woodbine Group; Kes, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Klv, Houston Member of the Travis Peak Formation; P, Paleozoic rock undifferentiated.

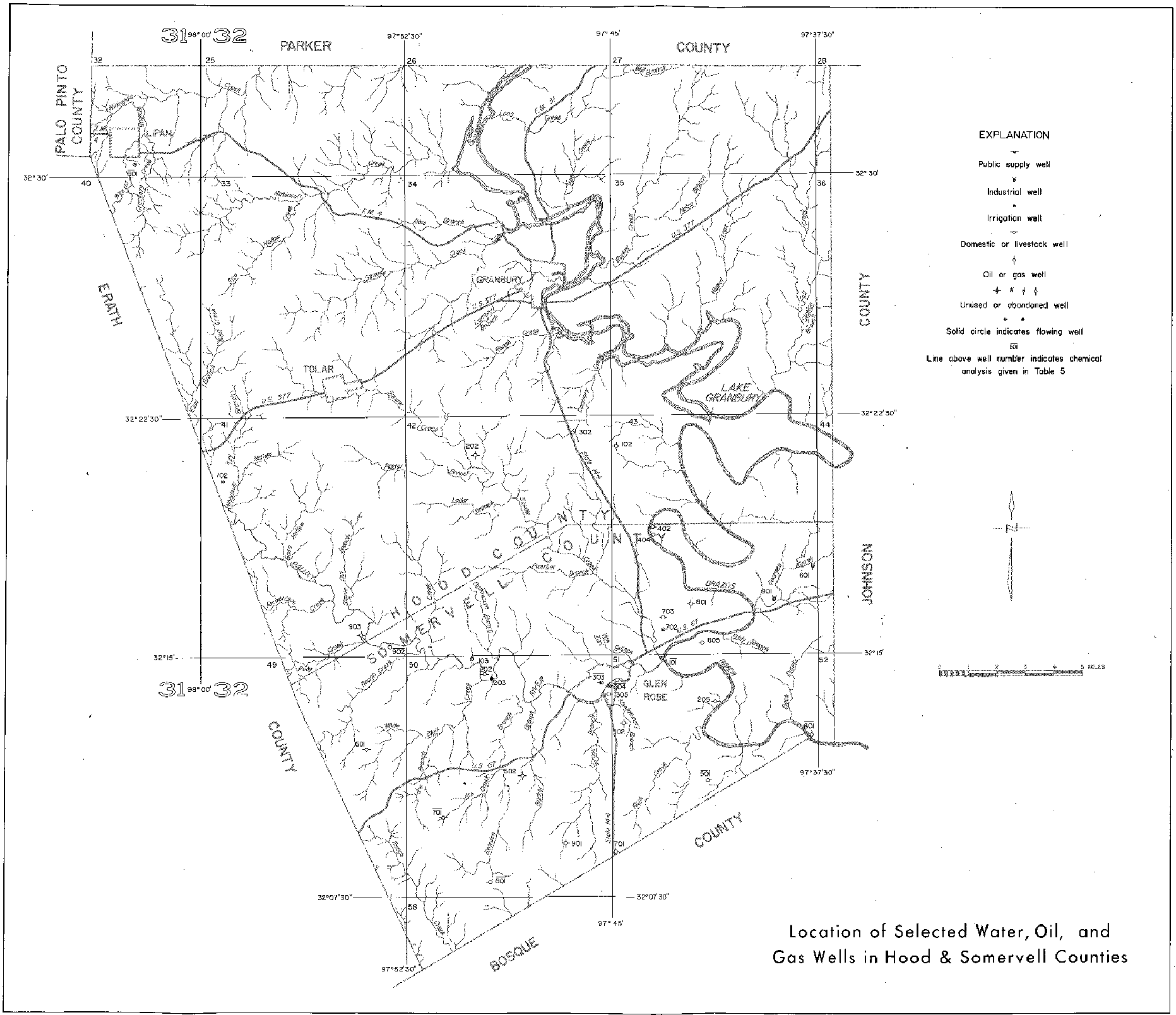
Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "Reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
4 LY-31-32-901	46	May 1960	Ktp	--	0.25	146	23	* 30	--	291	33	55	0.4	162	--	643	592	460	12	1,072	7.0	0.6
	901	46	May 9, 1966	do.	--	< .02	109	16	24	--	346	26	23	.5	44	--	590	413	337	13	784	7.4

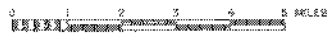
* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:
 1/ U.S. Geological Survey Laboratory



EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- 501
- Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in Hood & Somervell Counties

JOHNSON COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kaa, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Anclers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, Domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* FX-32-44-601	E. M. Smith	C. Glenn Wallen and Son	1965	405	7 4	-- 405	Kp	823	261	July 20, 1966	Sub, E	D	Well used in 1969 Johnson County report. Slotted from 340 to 345 and 381 to 405 ft. Reported yield 13 gpm.
45-801	Woody Walls	do.	1965	610	4 3	-- 610	do.	750	271	Sept. 13, 1966	Sub, E 1	D	Well used in 1969 Johnson County report. Slotted from 381 to 445, 529 to 555, and 590 to 610 ft.
* 46-201	Johnson County Water Supply Corp.	C. M. Stoner Drilling Co.	1965	1,518	10	1,518	Kho	902	730	Sept. 28, 1967	Sub, E 75	P	Well used in 1969 Johnson County report. Perforated from 1,395 to 1,518 ft. Pump set at 989 ft. Reported yield 225 gpm. Cemented from 1,398 ft. to surface. 1/2 2/3
903	Parker Water Supply Corp.	J. L. Myers Sons	1965	1,612	6	--	do.	862	700	June 1965	Sub, E	P	Well used in 1969 Johnson County report. Reported yield 100 gpm. 2/
47-103	Johnson County Water Supply Corp.	C. M. Stoner Drilling Co.	1966	1,608	7	--	do.	759	543	Oct. 26, 1966	Sub, E	P	Well used in 1969 Johnson County report. Gun perforated with 41 shots 1,562 to 1,582 ft., 17 shots 1,600 to 1,608 ft., 33 shots 1,630 to 1,646 ft., 9 shots 1,656 to 1,660 ft., and 17 shots 1,664 to 1,672 ft. Reported yield 80 gpm with 134 ft. of drawdown after 24 hours. 2/
502	Mrs. Stella Atlas	do.	1965	275	4	275	Kwb	730	139	Aug. 3, 1966	C, K W	D, S	Well used in 1969 Johnson County report. Perforated from 206 to 213 and 215 to 228 ft.
* 802	City of Grandview	do.	1955	852	8 6	798 852	Kp	694	257 236	1955 1957	T, E 20	P	Well used in 1969 Johnson County report. Screened from 802 to 846 ft. Pumping level 305 ft. at 125 gpm on Sept. 7, 1960. Pump set at 480 ft. Temp. 79°F. Well drilled to 868 ft. and plugged back to 852 ft.
* 803	do.	Layne Texas Co.	1945	214	12 7	-- 187	Kwb	692	93 93 108.5	1949 1960 Oct. 26, 1966	T, E 7-1/2	P	Well used in 1969 Johnson County report. Screened from 188 to 210 ft. Pump set at 190 ft. Temp. 69°F.
* 52-202	Texas Lime Co.	C. M. Stoner Drilling Co.	1965	926	7	926	Kho	760	250 251.5	Oct. 1965 July 20, 1966	Sub, E	Ind	Well used in 1969 Johnson County report. Slotted from 784 to 893 ft. Reported yield 222 gpm.
* 53-302	Wallis Simpson	Ralph Bayless	1960	510	7	400	Kp	743	265 301.0	Sept. 1960 Aug. 17, 1966	Sub, E 1-1/2	P	Well used in 1969 Johnson County report. Open hole completion from 400 to 510 ft. Pump set at 360 ft. Estimated yield 10 gpm.
* 402	U.S. Army Corps of Engineers	--	--	550	--	--	Khe	540	59	June 6, 1968	Sub, E 3/4	P	
* 501	Roy Ciddens	Ralph Bayless	1961	425	4	425	Kp	810	307.3	Aug. 23, 1966	Sub, E	D, S	Well used in 1969 Johnson County report. Slotted from 385 to 425 ft. Gravel packed.
* 54-101	Wallis Simpson	C. M. Stoner Drilling Co.	1965	1,215	7	1,215	Kho	737	317.4 313.2	Aug. 17, 1966 Oct. 24, 1966	Sub, E 25	P	Well used in 1969 Johnson County report. Slotted from 1,137 to 1,215 ft. Pumping level 400 ft. at 168 gpm on Aug. 17, 1966. Pump set at 611 ft. Estimated yield 150 gpm. Temp. 84.5°F. 1/2 2/3

* For chemical analysis of water, see Table 5.

1/ For drillers' log of well, see Table 3.

2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.

3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume I.

JOHNSON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
PX-32-37-402	Warren Petroleum Corp.	H. D. Hanna No. 1	1955	3,723	931	E
47-603	Shell Oil Co.	B. W. Goodwin No. 1	1965	1,570	685	E

JOHNSON COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well PX-32-46-201			Well PX-32-46-201—Continued		
Owner: Johnson County Water Supply Corp. Driller: C. M. Stoner Drilling Co.			Red bed	45	1,380
Soil	1	1	Sandy red bed	15	1,395
Clay	7	8	Sand	115	1,510
Sand and shale	32	40	Yellow shale	8	1,518
Blue shale	35	75	Well PX-32-54-101		
Sand	25	100	Owner: Wallis Simpson Driller: C. M. Stoner Drilling Co.		
Sandy shale	30	130	White rock	410	410
Sand	15	145	Sandy shale	20	430
White rock	505	650	Sandy	20	450
Sand	40	690	Sandy shale	10	460
Sandy shale	30	720	Sand	45	505
Sand	42	762	Lime rock	425	930
Lime	433	1,195	Sand	20	950
Broken sand and red bed	45	1,240	Shale	20	970
Sand	30	1,270	Sand	60	1,030
Broken sand and red bed	20	1,290	Red bed	60	1,090
Red bed	25	1,315	Broken sand and red bed	15	1,105
Sandy red bed	20	1,335	Sand	90	1,195
			Mixed shales	20	1,215

JOHNSON COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kaa, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

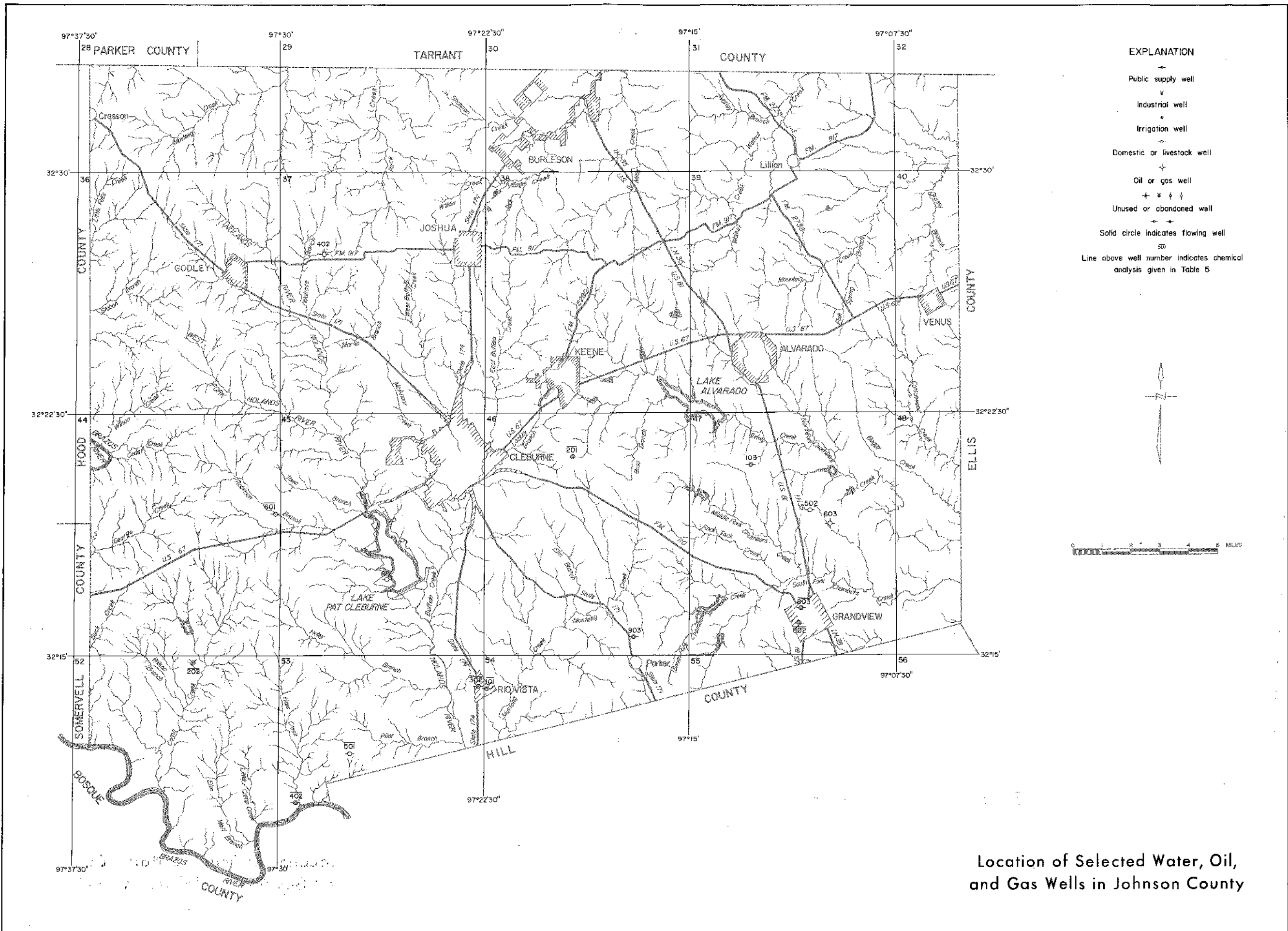
Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
Y EX-32-44-601	405	July 20, 1966	Kp	10	--	0.6	0.4	184	0.8	430	28	9.8	0.5	0.2	--	451	--	3	99	752	8.3	47.1
Y 46-201	1,518	Nov. 29, 1966	Kho	13	0.11	2.5	.6	240	1.4	432	129	32	1.3	.2	--	632	--	8	98	--	8.0	37.3
Y 47-802	852	Aug. 30, 1966	Kp	--	--	--	--	--	--	--	251	39	--	--	--	--	--	14	--	1,700	8.3	--
Y 803	214	Mar. 7, 1949	Kwb	--	.02	--	--	--	--	--	249	57	--	--	--	--	--	264	--	1,080	7.25	--
Y 52-202	926	July 20, 1966	Kho	11	--	1.5	.6	195	1.2	400	63	24	.4	.0	--	497	--	6	98	828	8.3	35.3
Y 53-302	510	Apr. 19, 1961	Kp	12	.02	1.5	.4	268	1.5	502	79	44	2.2	.0	1.0	676	657	5	99	1,110	8.5	53.0
Y 402	550	Mar. 16, 1965	Khe	--	.36	6	2	298	--	540	36	66	4.8	<.4	--	1,010	679	24	97	1,338	8.5	27.0
Y 501	425	Aug. 23, 1966	Kp	--	--	--	--	--	--	484	50	21	--	--	--	590	--	6	--	970	8.6	--
Y 54-101	1,215	Dec. 7, 1965	Kho	--	.12	2	1	224	--	365	118	37	.5	.5	--	760	562	9	98	1,000	8.7	32.5
Y 101	1,215	Aug. 17, 1966	do.	12	.6	2	.5	224	10	400	107	37	.4	.0	0.29	581	592	7	96	954	8.1	37.5

LABORATORY CONDUCTING ANALYSIS:

- Y U.S. Geological Survey Laboratory
 Y Laboratory Unknown



LAMPASAS COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Koa, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Kcp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Khu, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; M, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		DATE OF MEASUREMENT	METHOD OF LIFT	USE OF WATER	REMARKS
				DEPTH OF WELL (ft)	DIAMETER (in.)			DEPTH (ft)	ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)				
RW-40-57-401	Jackie Hyman	Gus Barrington Drilling and Pump	1963	110	5	110	Ktp	880	64.0	Jan. 27, 1966	Sub, E	D	Perforated from 86. to 110 ft. <u>y</u>
41-45-501	J. O. Hood	Smart Drilling and Supply	1959	383	5	383	do.	1,610	200	1959	C, E	D, S	Reported yield 20 gpm.
901	L. W. Hill	do.	1950	305	--	--	do.	1,530	110.20 117.9	Mar. 3, 1966 Mar. 6, 1969	N	N	Well deepened from 229 to 305 ft. Texas Water Development Board observation well. <u>y</u>
902	T. E. Winters	do.	1959	318	5	318	do.	1,480	215 155.6	Mar. 10, 1959 Mar. 6, 1969	C, W	D, S	Reported yield 5 gpm. Texas Water Development Board observation well. <u>y</u> <u>z</u>
903	L. W. Hill	--	--	91	36	--	Kp, Kgr	1,460	3	Apr. 10, 1961	C, W	D, S	Dug well with rock wall.
* 47-401	Murray Guthrie	Smart Drilling and Supply	1962	414	7 5	29 414	Ktp	1,265	--	--	Sub, E 1-1/2	D	Well deepened from 114 to 414 ft. Perforated from 374 to 414 ft. Pump set at 320 ft. Reported yield 20 gpm. Temp. 71°F.
402	do.	do.	1965	340	7 5	29 340	do.	1,265	--	--	Sub, E 1-1/2	D	Well deepened from 301 to 340 ft. Perforated from 240 to 340 ft. Reported yield 15 gpm. Cemented from 29 ft to surface.
* 601	Barney Butts	do.	1962	290	6	347	do.	1,240	--	--	Sub, E 1	D, S	Open hole completion from 347 to 390 ft. Pump set at 315 ft. Reported yield 20 gpm. Temp. 73°F.
602	do.	do.	--	310	4	310	do.	1,240	250 217.0	Mar. 4, 1966	N	N	Reported yield 5 gpm.
701	Wanoy Green	do.	1964	230	5 4	40 230	do.	1,120	40.00	Jan. 6, 1969	J, E 1/2	D, S	Well deepened from 78 to 230 ft. Reported yield 5 gpm.
* 48-503	Elmer Chambers	Fowler Drilling Co.	1965	450	7	417	do.	1,240	290 290.15	May 24, 1965 Oct. 8, 1968	Sub, E 1-1/2	D, S	Open hole completion from 417 to 450 ft. Pump set at 387 ft. Reported yield 10 gpm. Temp. 72°F. <u>y</u>
53-104	-- Kirby	--	--	66	6	--	Ktp	1,393	20	Apr. 12, 1961	C, E	S	
202	do.	--	--	57	6	--	do.	1,400	51 51.68	Apr. 12, 1961 Mar. 6, 1969	C, W	S	Texas Water Development Board observation well. <u>z</u>
* 301	City of Lometa	-- Cass	1925	600	10 6 5	-- 600 600	Ktp, P	1,550	360	Jan. 18, 1945	C, E 5	P	Reported yield 17 gpm. <u>y</u>
* 302	do.	Ross Smart	1940	300	6	234	Ktp	1,480	200	Jan. 18, 1946	C, E 3	P	Perforated from 210 to 234 ft. Reported yield 7 gpm.
* 303	do.	do.	1940	302	6	234	do.	1,480	200	do.	C, E	P	Do.
* 304	do.	J. L. Myers Sons	1949	675	10 8 6	24 478 675	P	1,510	--	--	C, E	P	Perforated from 478 to 675 ft. Reported yield 17 gpm. <u>y</u>

See footnote at end of table.

LAMPASAS COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* RW-41-53-305	City of Lometa	Olivia Vernon Clary	1951	285	--	268	Ktp	1,510	220	Mar. 1951	C, E	P	Perforated from 220 to 268 ft. Reported yield 16 gpm. <u>Y</u>
" 306	do.	do.	1951	276	8	276	do.	1,510	220	do.	C, E	P	Perforated from 216 to 276 ft. Reported yield 10 gpm. <u>Y</u>
" 307	do.	Smart Drilling and Supply	1953	335	7 6	12 130	do.	1,465	--	--	N	N	
" 308	do.	do.	1953	335	6	--	do.	1,465	--	--	N	N	
" 309	do.	do.	1953	335	7 6	12 307	do.	1,465	165.51 164.23	Feb. 17, 1966 Mar. 6, 1969	N	N	Open hole completion from 307 to 335 ft. Texas Water Development Board observation well. <u>Y</u>
* 310	do.	--	1952	--	6	--	do.	1,490	--	--	J, E	P	
* 311	do.	--	1952	--	6	--	do.	1,490	--	--	J, E	P	
" 312	do.	Olivia Vernon Clary	1960	360	8 6	26 360	do.	1,510	260	Sept. 1960	C, E	P	Pumping level 290 ft at 16 gpm. <u>Y</u>
* 313	do.	Tom Grosier	1947	276	8	271	do.	1,510	206	Apr. 1947	N	N	Slotted from 219 to 271 ft. Pumping level 241 ft at 12 gpm in Apr. 1947. <u>Y</u>
" 315	do.	Marcus McLean	1918	250	6	--	do.	1,510	210	Jan. 1946	C, E 2	N	
" 316	do.	do.	1918	250	6	--	do.	1,510	210	do.	C	N	
" 317	do.	Olivia Vernon Clary	1963	435	8 6	32 435	do.	1,480	180	Jan. 31, 1963	N	N	Pumping level 255 ft at 18 gpm. on Jan. 31, 1963. Cemented from 32 ft to surface. Plugged and abandoned. <u>Y</u>
" 318	do.	do.	1964	386	8 5	40 --	Ktp	1,475	--	--	Sub, E	P	Estimated yield 15 gpm. Cemented from 40 ft to surface. Temp. 84°F. <u>Y</u>
" 319	do.	do.	1964	384	8 5	17 384	do.	1,515	231.10 238.98	Feb. 17, 1966 Mar. 6, 1969	Sub, E	P	Reported yield 10 gpm. Cemented from 17 ft to surface. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
" 320	do.	do.	1965	326	8 5	37 300	do.	1,450	--	--	Sub, E	P	Open hole completion from 300 to 326 ft. Reported yield 15 gpm. Cemented from 37 ft to surface. <u>Y</u>
" 321	do.	J. L. Myers Sons	1949	406	--	--	do.	1,490	--	--	--	N	<u>Y</u>
" 322	do.	Smart Drilling and Supply	1968	350	7 5	48 350	do.	1,475	175	Feb. 12, 1968	--	P	Reported yield 7 gpm. <u>Y</u>
" 501	R. L. Oliver	Ross Smart	--	110	7	110	do.	1,340	50	--	C, R	D, S	Reported yield 6 gpm.
" 502	do.	--	--	--	5	--	do.	1,320	14 14.43	Apr. 7, 1961 Feb. 11, 1966	C, W	S	
" 503	Tom Richey	--	--	109	6	--	do.	1,360	81.05 83.70	Feb. 11, 1966 Mar. 6, 1969	C, R	D, S	Texas Water Development Board observation well. <u>Y</u>
" 54-401	T. R. Gholson	Smart Drilling and Supply	1967	290	7 5	30 290	do.	1,480	175.59 180.20	June 6, 1968 Jan. 6, 1969	Sub, E 1	D, S	Completed from 210 to 290 ft. Pump set at 270 ft. Reported yield 10 gpm. Cemented from 30 ft to surface.
" 601	Don Tombaugh	do.	1955	200	5	200	do.	1,290	70	1955	Sub, E	D, S	Perforated from 113 to 130, 160 to 170, and 173 to 200 ft. Reported yield 4.5 gpm. <u>Y</u>
" 702	Robert Guyler	do.	1967	262	--	--	do.	1,480	--	--	--	S	<u>Y</u> <u>Y</u>
" 801	Mrs. Dorothy Campbell	do.	--	311	6	311	do.	1,465	173.8 175.2	Feb. 4, 1966 Mar. 6, 1969	C, E 1	D, S	Slotted. Reported yield 5 gpm. Texas Water Development Board observation well. <u>Y</u>

See footnotes at end of table.

LAMPASAS COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
RW-41-54-802	J. L. Frazier	Smart Drilling and Supply	--	312	6	311	Ktp	1,465	--	--	C, W	D, S	
* 55-802	Warren Sultemeir	do.	1967	300	6	40	do.	1,255	--	--	Sub, R 1	D, S	Completed from 270 to 300 ft. Pump set at 273 ft. Reported yield 7 gpm. Temp. 71°F.
* 56-101	Mrs. R. Knox	--	1960	305	10	305	do.	985	50	Feb. 8, 1961 Mar. 7, 1969	T, S	Irr	Slotted from 250 to 305 ft. Reported yield 34 gpm. Temp. 81°F. Texas Water Development Board observation well. <u>3</u>
102	do.	--	--	208	6	--	do.	985	18	Feb. 8, 1961	C, E	D, S	Reported yield 1 gpm.
* 61-601	Darby Wright	Smart Drilling and Supply	1955	45	6	25	do.	1,405	18	Dec. 31, 1955 Mar. 6, 1969	J, E 4	D, S	Reported yield 20 gpm. Texas Water Development Board observation well. <u>1</u> <u>3</u>
62-101	Gather Patterson	--	--	300	6	--	do.	1,530	163.41 166.43	Feb. 11, 1966 Mar. 6, 1969	C, W	N	Reported yield 1 gpm. Texas Water Development Board observation well. <u>3</u>
201	Willey Smith	Smart Drilling and Supply	1952	170	5	170	do.	1,330	--	--	C, W	S	Reported yield 4 gpm.
901	Jack Walker	do.	1959	345	5	344	P	1,185	60	Nov. 24, 1952	C, E	D, S	Well deepened from 152 to 345 ft. Pump set at 246 ft. Reported yield 5 gpm.
* 902	do.	do.	1950	200	6	--	do.	1,185	23	Apr. 7, 1961 Feb. 10, 1966 Apr. 20, 1967	C, W	D, S	Reported yield 5 gpm. Temp. 82°F.
63-302	Mrs. Ruby Kasber	--	1860	15	36	--	Ktp	1,010	3.20 5.3	Feb. 2, 1966 Mar. 7, 1969	C, W	S	Dug well with rock wall. Reported yield 5 gpm. Texas Water Development Board observation well. <u>3</u>
303	-- Lilley	Harrison Well Service	1956	100	6	10	do.	1,040	20	Mar. 7, 1956	C, W	S	Open hole completion. Reported yield 5 gpm. Texas Water Development Board observation well. <u>3</u>
306	Raston Hodge	Smart Drilling and Supply	1968	118	7	24	do.	1,080	40	Mar. 28, 1968 June 7, 1968	--	D	Reported yield 3 gpm. Cemented from 24 ft to surface. <u>3</u>
603	C. Winn	--	--	20	--	--	do.	980	--	--	C, W	S	Dug well.
* 604	Fred West	--	--	49	36	--	do.	985	16	Feb. 9, 1961	N	N	Dug well. Plugged and abandoned.
605	do.	--	--	33	60	--	do.	985	19	do.	N	N	Dug well with rock wall. Plugged and abandoned.
* 607	Noyes Estate	--	1860	--	36	--	do.	980	23.41 23.9	Feb. 2, 1966 Mar. 7, 1969	N	N	Dug well with rock wall. Temp. 80°F. Texas Water Development Board observation well. <u>3</u>
608	-- Lilley	Harrison Well Service	1965	156	6	156	P	1,020	71	Nov. 1965	C, E	S	Slotted from 126 to 156 ft. Reported yield 10 gpm.
64-401	J. B. Capps	Joe Allen	1962	60	6	32	Ktp	980	48	July 1962 Feb. 3, 1966	J, E 1/2	N	Open hole completion from 32 to 60 ft. Reported yield 6 gpm.
* 601	A. B. Miller	Bill Wester	1910	81	7	10	do.	930	67	1910	C, E	D, S	Pump set at 78 ft.
* 602	A. M. Pickett	Harrison Well Service	1950	76	6	30	do.	875	40	1950	J, E 1/2	D	Open hole completion from 30 to 76 ft. Pump set at 65 ft. Estimated yield 10 gpm. Temp. 80°F.
603	R. L. Patterson	Smart Drilling and Supply	1959	102	7	39	do.	870	70	Aug. 1959	J, E	D, S	Reported yield 15 gpm.
* 604	-- Alespough	Allens Drilling Co.	1963	70	9	70	do.	870	42	Aug. 1963 Mar. 7, 1969	T, S	Irr	Slotted from 50 to 70 ft. Pumping level 46 ft at 160 gpm. Reported yield 120 gpm. Temp. 80°F. Texas Water Development Board observation well. <u>3</u>

See footnotes at end of table.

LAMPASAS COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF MEASUREMENT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* RW-41-64-605	C. L. Patterson	Fowler Drilling Co.	1964	102	6	40	Ktp	870	60	Aug. 21, 1964	Sub, R	P	Open hole completion from 40 to 102 ft. Estimated yield 25 gpm. Temp. 80°F. <u>1</u>
802	--	--	--	--	--	--	do.	1,000	47.23	Feb. 3, 1966	T, E	N	

* For chemical analyses of water, see Table 5.

1 For drillers' log of well, see Table 3.

2 Electric logs in files of the Texas Water Development Board, Austin, Texas.

3 For water-level measurements, see Table 4.

LAMPASAS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
RW-41-53-105	Sunshine Oil Co.	Mrs. Addie Morgan No. 1	1928	896	1,330	D
201	Western Lampasas Bisbee Oil Co.	Lufa Whittenburg No. 1	Before 1918	4,180	1,450	D
55-401	Resser and Pendleton, Inc.	W. H. Bunch No. 1	1927	3,006	1,250	D
63-101	Jones	Jones Oil Test No. 1	—	2,000	1,140	R
64-606	Claud B. Hamill	H. G. Glover No. 1	1949	1,553	900	S
701	Robert L. Guyler	Patterson No. 1	—	335	1,000	R

LAMPASAS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-40-57-401			Well RW-41-45-902--Continued		
Owner: Jackie Hyman Driller: Gus Barrington Drilling and Pump			Red rock	2	310
Surface	2	2	No record	7	317
Hard rock	6	8	Rock	1	318
Caliche and rock	14	22	Well RW-41-48-503		
Hard rock	6	28	Owner: Elmer Chambers Driller: Fowler Drilling Co.		
Lime and shale	27	55	Cavy mud and fine sand	415	415
Blue shale and lime	35	90	Limestone and water sand	35	450
Hard, white rock	7	97	Well RW-41-53-105		
Water sand (10 gpm +)	10	107	Owner: Mrs. Adollie Morgan Driller: Sunshine Oil Co.		
Hard, gray rock	3	110	Yellow clay	32	32
Well RW-41-45-902			Gravel	3	35
Owner: T. E. Winters Driller: Smart Drilling and Supply			Blue shale	82	117
Yellow clay and rock	30	30	Gray lime	3	120
Blue and gray shale	27	57	Blue shale	30	150
Pink and purple, soft	8	65	Sandy shale	20	170
Light pink lime	10	75	Blue shale	20	190
Light gray	5	80	Sandy shale	15	205
Gray lime	45	125	Blue shale	73	278
Green, sandy, gummy	2	127	Gray lime	5	283
Green, sandy, gummy	3	130	Sandy shale	35	318
Soft, gray lime	20	150	Water sand, 2 bph	63	381
Hard rock	15	165	Blue shale	36	417
Brown rock	11	176	White lime	143	560
Soft, brown rock	4	180	Blue lime	40	600
Brown, mix rock	18	198	Black slate	4	604
Rock, soft	3	201	Blue lime	6	610
Softer tan, brown, may cave	9	210	Blue shale	4	614
Rock, tan	20	230	White lime	76	690
Flint and other color rock	15	245	Blue lime	45	735
Rock, softer	5	250	Black slate	3	738
Hard, flint rock	28	278	White lime	57	795
Softer rock, red	12	290	Black slate	93	888
Red rock	13	303	Ellenburger lime, white	8	896
Water gravel, rose 100 ft.	5	308			

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-201			Well RW-41-53-303—Continued		
Owner: Lula Whittenburg Driller: Western Lampasas Bisbee Oil Co. (Partial log)			Blue shale and soft limestone	25	85
Soil	6	6	Red rock	125	210
Chalk, lime	54	60	Water sand (6 gpm)	8	218
Red sand	25	85	Red rock	52	270
Little water	25	110	Red bed	10	280
Yellow gravel	40	150	Red rock	7	287
Brown shale	30	180	Water sand	15	302
White shale	20	200	Well RW-41-53-304		
Gravel, water	8	208	Owner: City of Lometa Driller: J. L. Myers Sons		
Blue shale	112	320	Surface soil	2	2
Blue, sandy shale	18	338	Clay and shell	9	11
Blue shale	2	340	Rock and clay	16	27
Blue, sandy shale	30	370	Sand and gravel	6	33
White lime	164	534	Rock	5	38
Well RW-41-53-301			Sandy lime and shale	14	52
Owner: City of Lometa Driller: — Cass			Rock and shale	18	70
Soft, white rock	80	80	Rock	2	72
Gray shale	20	100	Sandy shale	18	90
Austin chalk	100	200	Shale	12	102
Red clay	8	208	Lime rock	7	109
Gray slate	30	238	Shale and rock	71	180
Light brown clay	15	253	Lime rock	19	199
Soft, porous, red rock	18	271	Sand rock	9	208
Red sand, gravel, hard	26	297	Water sand	5	213
Gravel	80	377	Shale	10	223
Hard, brown sand rock	40	417	Sand rock	14	237
Hard sand	80	497	Sandy lime	40	277
No record	64	561	Sandy lime	5	282
No record	39	600	Sandy shale	3	285
Well RW-41-53-303			Lime and shale	32	317
Owner: City of Lometa Driller: Ross Smart			Gravel and rock	8	325
Clay	30	30	Rock, gravel, and sand	37	362
Blue shale and soft limestone	25	55	Rock	3	365
Tight, water sand (2 bpd)	5	60	Sandy shale	14	379
			Sand rock	21	400
			Rock	5	405

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-304—Continued			Well RW-41-53-306—Continued		
Shale	20	425	Gray shale	49	91
Lime and shale	11	436	Red shale	6	97
Rock	4	440	Gray shale	37	134
Sandy lime	2	442	Blue shale	3	137
Shale and rock	37	479	Gray shale	58	195
Rock	16	495	Gray sand and shale	55	250
Sandy shale	50	545	Gray sand	15	265
Sand rock	7	552	Red sand	3	268
Sand	23	575	Red bed	8	276
Sandy lime	5	580			
Shale	15	595	Well RW-41-53-312		
Sandy lime and shale	44	639	Owner: City of Lometa Driller: Ollie Vernon Clary		
Shale	9	648	Surface soil	1	1
Lime and shale	27	675	Clay	6	7
			Sand rock	2	9
Well RW-41-53-305			Caliche and gravel	16	25
Owner: City of Lometa Driller: Ollie Vernon Clary			Blue shale	25	50
Surface soil	1	1	Gray shale	40	90
Clay and caliche	19	20	Brown shale	10	100
Clay and gravel	9	29	Blue and gray shale	120	220
Brown lime rock	5	34	Brown sand rock	20	240
Brown shale	8	42	Sand (10 gpm)	5	245
Gray shale	50	92	Yellow lime rock - hard	10	255
Red shale	9	101	Sand - more water	2	257
Gray shale	31	132	Brown sand rock	83	340
Blue shale	16	148	Sand and gravel - water	5	345
Gray shale	45	193	Brown sand rock	15	360
Gray sand and shale	34	227			
Red shale and sand	30	257	Well RW-41-53-313		
Sand and gravel	13	270	Owner: City of Lometa Driller: Tom Grozier		
Red bed	15	285	Caliche and clay	45	45
			Chalky lime	15	60
Well RW-41-53-306			Blue shale	10	70
Owner: City of Lometa Driller: Ollie Vernon Clary			Sandy shale	5	75
Surface soil	1	1	Red bed	20	95
Yellow clay	20	21	Blue shale	50	145
Clay and gravel	9	30	Gray shale	50	195
Brown shale and lime	12	42	Sand	50	245

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-313—Continued			Well RW-41-53-318—Continued		
Cave	2	247	Brown sand and water (3 gpm)	3	257
Coarse sand	29	276	Brown sand rock	29	286
Well RW-41-53-317			Gray sand - more water	6	292
Owner: City of Lometa			Hard, yellow lime rock	24	316
Driller: Ollie Vernon Clary			Gray lime rock and shale	68	384
Surface soil	1	1	Black shale	2	386
Gray lime rock	17	18	Well RW-41-53-319		
Blue shale	13	31	Owner: City of Lometa		
Gray lime	9	40	Driller: Ollie Vernon Clary		
Gray shale	18	58	Surface soil	2	2
Red bed	25	65	Caliche and clay	15	17
Gray shale and sandy shale	75	140	Lime rock	13	30
Sand (1/2 gpm)	2	142	Gray and blue shale	18	48
Gray, sandy shale	38	180	Gray shale and sand rock	67	115
Sand (1 gpm)	3	183	Brown, sandy shale	15	130
Brown sand rock	68	251	Gray, sandy shale	87	217
Brown clay and gravel	11	262	Brown sand rock and shale	37	254
Sand (14 gpm)	2	264	Brown sand - water	3	257
Gray sand rock	72	336	Brown sand rock	31	288
Yellow lime rock	4	340	Sand - more water	2	290
Sand and sand rock - more water	30	370	Yellow lime	26	316
Blue shale	10	380	Gray lime rock and sandy shale	68	384
Gray lime rock	20	400	Well RW-41-53-320		
Sand - more water	4	404	Owner: City of Lometa		
Blue shale	12	416	Driller: Ollie Vernon Clary		
Gray lime rock	16	432	Surface soil	1	1
Blue shale	3	435	Lime rock	2	3
Well RW-41-53-318			Clay	5	8
Owner: City of Lometa			Caliche	24	32
Driller: Ollie Vernon Clary			Sand rock	28	60
Surface soil	2	2	Gray, sandy shale	17	77
Caliche and clay	15	17	Blue shale	63	140
Gray lime rock	13	30	Gray sand rock	20	160
Blue and gray shale	18	48	Brown sand - water	4	164
Gray shale and sand rock	67	115	Brown sand rock	16	180
Brown sand rock	15	130	Gray sand - water	2	182
Gray, sandy shale	87	217	Gray lime rock - hard	51	233
Brown sand rock and shale	37	254	Red bed	2	235

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-320—Continued			Well RW-41-53-322—Continued		
Yellow lime - hard	43	278	Red, sandy rock	25	340
Gray sand - water	4	282	Black shale	10	350
Yellow lime - hard	44	326			
Well RW-41-53-321			Well RW-41-54-601		
Owner: City of Lometa Driller: J. L. Myers Sons			Owner: Don Tombaugh Driller: Smart Drilling and Supply		
			Blue and gray shale	70	70
No record	273	273	Soft blue	20	90
Sand rock	7	280	Yellow sand rock	20	110
Sandy lime	9	289	Tan sand rock	16	126
Sand and gravel	2	291	Crisp sand rock, some purple	6	132
Red mix, shale	5	296	Crisp lime rock	22	154
Lime, shale, rock	11	307	Brown rock	4	158
Shale	9	316	Gummy, brown, cavey	3	161
Rock and shale	15	331	Rock	.5	161.5
Rock	27	358	Water sand, good brown	3.5	165
Yellow clay and shale mix	12	370	White, soft, lime rock	15	180
Shale	7	377	Soft, brown clay	5	185
Rock	9	386	Rock, little hard	13	198
Yellow clay	4	390	Rock	2	200
Sandy shale	16	406			
Well RW-41-53-322			Well RW-41-54-702		
Owner: City of Lometa Driller: Smart Drilling and Supply			Owner: Robert Guyler Driller: Smart Drilling and Supply		
			Clay and rock - yellow	30	30
Black topsoil	3	3	Soft chalk - pink	7	37
Clay and gravel	9	12	Shale - light gray - firm	23	60
Yellow clay and rock	21	33	Light gray shale - soft	15	85
Gray shale	28	61	Firm, gray shale	2	87
Pink clay	9	70	Soft, gray shale	20	107
Yellow rock	8	78	Tan sand and sandstone, firm to soft 146 to 190 ft, lots of flint - some clay	91	198
Light gray rock - gummy	25	103			
Gray shale	37	140	Soft, brown clay (some flint)	37	235
Gray shale and fine shale	18	158			
Sandy rock	14	172	Soft, dark gray shale	15	250
Tan and orange clay	28	200	Soft, dark grayish blue shale	12	262
Tan rock	45	245			
Red clay rock	30	275			
Sand rock	40	315			

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-55-401.			Well RW-41-61-601		
Owner: W. H. Bunch Driller: Resser and Pendleton, Inc. (Partial log)			Owner: Darby Wright Driller: Smart Drilling and Supply		
Surface	7	7	Silt	20	20
Yellow clay	18	25	Creek gravel	25	45
White shale	50	75			
Blue shale	20	95	Well RW-41-63-506		
Purple shale	10	105	Owner: Kaston Hodge Driller: Smart Drilling and Supply (Partial log)		
Lime	5	110	Clay	12	12
Blue shale	25	135	Yellow sand rock	19	31
Lime	5	140	Red rock	14	45
Blue shale, lime	15	155	Red bed	10	55
Lime	20	175	Red bed and gravel	10	65
Red rock	10	185	Red bed, clay, and sand	7	72
Sandy lime	40	225	Brown rock (hard)	4	76
Gravel (5 bph)	10	235	Red bed and gravel	9	85
Lime	20	255			
Red rock	15	270	Well RW-41-64-605		
Lime	15	285	Owner: C. L. Patterson Driller: Fowler Drilling Co.		
Red rock	35	320	Sand	24	24
Blue shale	60	380	Gray limestone	78	102
Black shale	90	470			

LAMPASAS COUNTY

Table 4.--Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well RW-41-45-901		Well RW-41-53-319--Continued		Well RW-41-56-101--Continued	
Owner: L. W. Hill		June 5, 1967	246.29	Nov. 13, 1967	52.56
Mar. 3, 1966	110.20	Oct. 5, 1967	245.6	Dec. 6, 1967	51.31
Apr. 19, 1967	119.87	Dec. 6, 1967	242.2	Jan. 5, 1968	50.60
Mar. 6, 1969	117.9	Jan. 15, 1968	241.38	Feb. 7, 1968	46.42
Well RW-41-45-902		Mar. 6, 1969	238.98	Mar. 7, 1969	49.85
Owner: T. E. Winters		Well RW-41-53-503		Well RW-41-61-601	
Mar. 10, 1959	215	Owner: Tom Richey		Owner: Darby Wright	
Mar. 3, 1966	92.5	Feb. 11, 1966	81.05	Dec. 31, 1955	18
Mar. 6, 1969	155.6	Mar. 3, 1966	81.34	Mar. 3, 1966	18.22
Well RW-41-53-202		Apr. 19, 1967	84.05	Aug. 31, 1966	17.83
Owner: -- Kirby		Mar. 26, 1968	74.94	Sept. 26, 1966	17.76
Apr. 12, 1961	51	Mar. 6, 1969	83.70	Nov. 2, 1966	17.78
Mar. 3, 1966	52.32	Well RW-41-54-801		Nov. 22, 1966	17.94
Apr. 19, 1967	52.65	Owner: Mrs. Dorothy Campbell		Dec. 28, 1966	17.95
Mar. 26, 1968	52.30	Feb. 4, 1966	173.8	Feb. 7, 1967	18.35
Mar. 6, 1969	51.68	Mar. 3, 1966	161.23	Apr. 19, 1967	18.22
Well RW-41-53-309		Mar. 6, 1969	175.2	June 5, 1967	18.44
Owner: City of Lometa		Well RW-41-56-101		June 29, 1967	18.48
Feb. 17, 1966	165.51	Owner: Mrs. R. Knox		Aug. 1, 1967	18.82
Apr. 19, 1967	168.39	Feb. 8, 1961	50	Sept. 14, 1967	18.62
Mar. 26, 1968	161.42	Feb. 4, 1966	48.28	Oct. 5, 1967	18.64
Mar. 6, 1969	164.23	Mar. 4, 1966	47.97	Nov. 13, 1967	18.59
Well RW-41-53-319		Sept. 26, 1966	46.70	Dec. 6, 1967	18.55
Owner: City of Lometa		Nov. 2, 1966	49.67	Jan. 15, 1968	18.69
Feb. 17, 1966	231.10	Nov. 22, 1966	46.58	Feb. 7, 1968	18.28
Aug. 31, 1966	243.5	Dec. 28, 1966	49.18	Mar. 6, 1969	16.83
Sept. 26, 1966	238.80	Feb. 7, 1967	47.20	Well RW-41-62-101	
Nov. 2, 1966	237.0	Apr. 20, 1967	49.07	Owner: Gather Patterson	
Nov. 22, 1966	238.6	June 5, 1967	50.68	Feb. 11, 1966	163.41
Dec. 28, 1966	243.2	June 28, 1967	59.07	Mar. 3, 1966	163.48
Feb. 7, 1967	245.49	Sept. 13, 1967	58.81	Apr. 19, 1967	167.78
Apr. 19, 1967	238.43	Oct. 6, 1967	56.08	Mar. 6, 1969	166.43

Table 4.—Water Levels in Selected Wells in Lampasas County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well RW-41-63-302		Well RW-41-63-607		Well RW-41-63-607—Continued	
Owner: Mrs. Ruby Kasber		Owner: Noyes Estate		Oct. 5, 1967	23.98
Feb. 2, 1966	3.20	Feb. 2, 1966	23.41	Nov. 8, 1967	24.20
Apr. 20, 1967	2.62	Mar. 4, 1966	23.03	Dec. 6, 1967	23.94
Mar. 26, 1968	.02	Aug. 31, 1966	22.50	Jan. 15, 1968	25.10
Mar. 7, 1969	5.3	Sept. 26, 1966	22.36	Feb. 7, 1968	21.52
Well RW-41-63-303		Nov. 2, 1966	22.05	Mar. 7, 1969	23.9
Owner: — Lilley		Nov. 22, 1966	22.10	Well RW-41-64-604	
1956	20	Dec. 28, 1966	22.37	Owner: — Aispapugh	
Feb. 3, 1966	9.26	Feb. 7, 1967	22.47	Aug. 1963	42
Mar. 4, 1966	6.75	Apr. 19, 1967	22.73	Jan. 27, 1966	33.78
Apr. 26, 1967	44.61	June 5, 1967	23.00	Mar. 7, 1966	33.62
Mar. 7, 1969	40.1	June 29, 1967	23.42	Apr. 20, 1967	34.33
		Aug. 1, 1967	23.56	Mar. 26, 1968	32.38
		Sept. 14, 1967	23.73	Mar. 7, 1969	35.65

LAMPASAS COUNTY

Table 5. -- Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ration)

Water-bearing unit: Kw, Woodbine Group; Ka, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kg, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Rhe, Hensell Member of the Travis Peak Formation; Kpe, Hensell Member of the Travis Peak Formation; Kbo, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (Multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
RW-41-67-401	414	Sept. 18, 1968	Ktp	12	--	43	29	213	--	410	201	114	1.5	< 0.4	--	820	--	225	67	1,300	7.6	6.1
601	390	do.	do.	13	--	63	38	294	--	382	355	208	1.7	< .4	--	1,160	--	312	67	1,820	7.5	7.2
48-503	450	Oct. 8, 1968	do.	12	0.7	44	35	408	--	364	530	208	2.7	< .4	--	1,420	--	255	78	2,000	8.0	11.2
y 53-301	600	Jan. 18, 1946	Ktp, P	7.0	.28	64	50	* 144	--	421	228	62	1	.0	--	754	--	365	46	--	7.7	3.3
301	600	Apr. 24, 1952	do.	10	.7	54	45	* 153	--	403	222	64	1.2	2.7	--	770	751	320	51	--	8.0	3.7
y 302	300	Jan. 18, 1946	Ktp	7.0	.39	74	58	* 105	--	396	200	72	1	1.2	--	726	714	423	35	--	7.9	2.2
302	300	Apr. 28, 1952	do.	22	1.1	94	62	* 58	--	372	193	78	0.8	2.2	--	725	694	490	20	--	7.8	1.1
303	302	Apr. 24, 1952	do.	16	1.3	90	65	* 56	--	372	186	82	.8	.4	--	735	681	492	20	--	7.7	1.1
304	660	do.	P	20	1.5	58	45	* 183	--	421	229	103	1	2.7	--	875	851	330	53	--	7.7	4.4
305	285	do.	Ktp	19	1.2	100	70	* 76	--	384	286	64	1	2.7	--	850	809	537	24	--	7.6	1.4
306	276	do.	do.	17	1.7	95	75	* 68	--	378	282	64	1	2.2	--	845	792	546	21	--	7.6	1.3
310	--	do.	do.	9	.1	78	48	* 90	--	256	193	78	1	51	--	700	674	392	33	--	7.9	2.0
311	--	do.	do.	10	.32	79	62	* 99	--	372	271	57	1.2	3.1	--	820	766	452	42	--	8.0	2.5
313	276	do.	do.	17	1.8	91	69	* 90	--	378	304	57	1	2.7	--	868	820	511	28	--	7.9	1.7
318	386	Feb. 17, 1966	do.	12	--	71	59	52	--	353	159	59	1	< .4	--	590	--	422	21	965	7.7	1.1
y 503	109	Oct. 31, 1950	do.	12	--	84	38	* 17	--	398	13	30	--	26	--	422	--	366	9	761	7.1	0.4
y 54-601	200	Apr. 11, 1961	Ktp	12	--	76	44	* 115	--	398	226	38	.9	4.2	--	712	--	370	40	1,090	7.3	2.6
55-802	300	Sept. 13, 1968	do.	12	--	48	29	285	--	357	311	187	1.7	< .4	--	1,050	--	240	72	1,680	7.6	8.0
56-101	305	Feb. 4, 1966	do.	10	--	49	35	304	--	354	320	216	1.5	1.5	--	1,110	--	266	71	1,810	7.8	8.0
y 61-601	45	Apr. 7, 1961	do.	9.1	--	54	96	* 20	--	534	48	54	.9	10	--	555	--	530	8	1,010	7.3	0.4
62-902	200	Feb. 10, 1966	P	10	--	99	43	6	--	472	13	11	.2	17	--	431	--	425	3	752	8.0	.1
y 63-604	49	May 15, 1942	Ktp	--	.12	124	53	* 136	--	368	41	304	--	64	--	965	903	528	36	1,680	--	2.6
607	1,860	Feb. 2, 1966	do.	12	--	84	35	9	--	375	21	22	.4	5	--	372	--	352	5	655	7.7	.2

See footnotes at end of table.

LAMPASAS COUNTY

Table 5 -- Chemical Analyses of Water From Selected Wells -- Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
✓ NW-41-64-601	81	May 14, 1942	Ktp	--	.20	88	66	* 66	--	454	200	38	--	.0	--	705	681	491	23	1,110	--	1.3
602	76	Jan. 27, 1966	do.	5	--	89	52	228	--	356	270	246	1	15	--	1,080	--	436	53	1,550	7.5	4.7
604	70	do.	do.	12	--	89	44	30	--	398	51	39	.4	29	--	490	--	402	14	750	7.5	.6
605	102	Feb. 1, 1966	do.	10	--	127	41	103	--	393	104	132	.7	111	--	820	--	487	32	1,330	7.3	2.0

* Sodium and potassium calculated as sodium (Na)

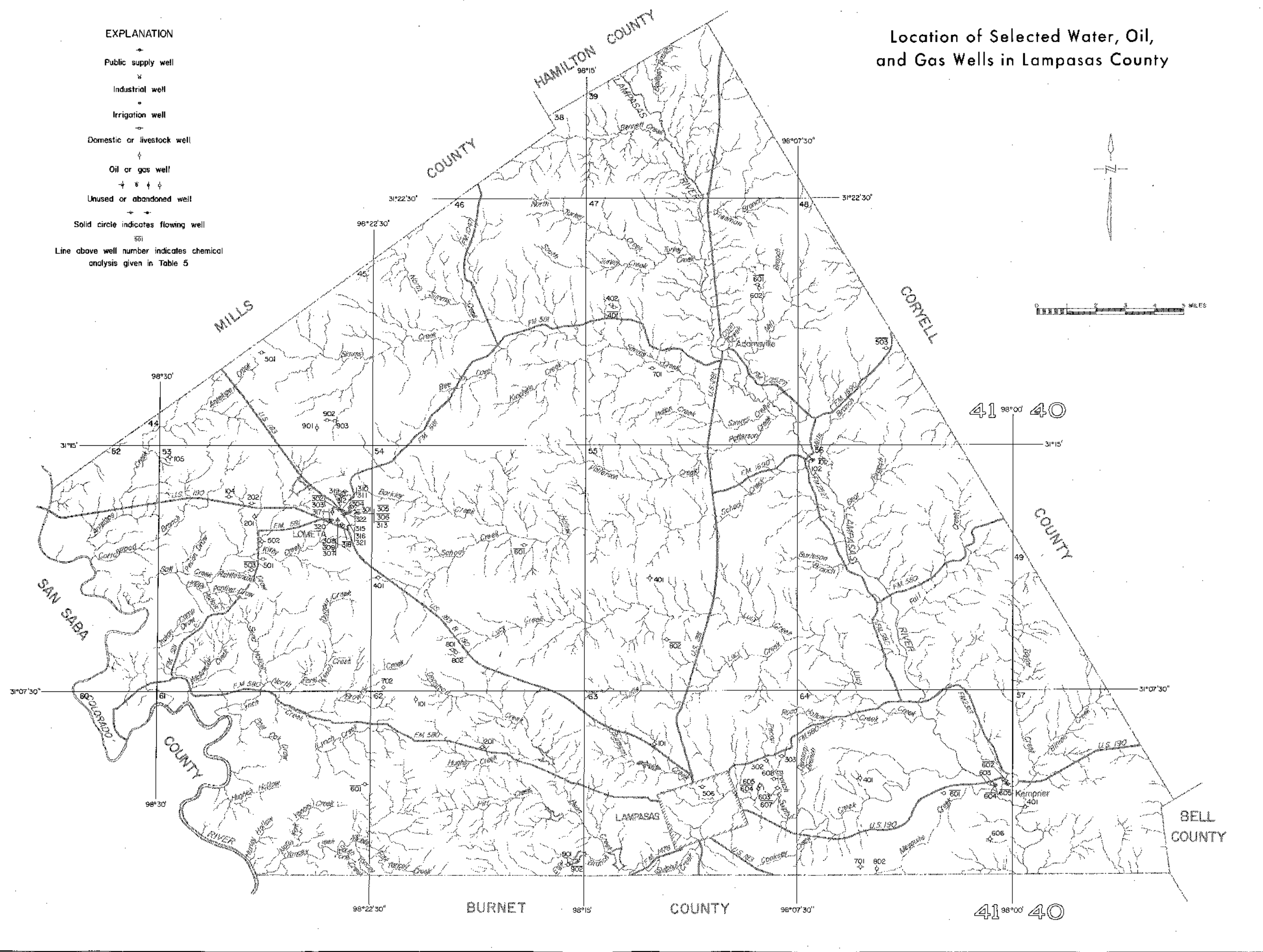
LABORATORY CONDUCTING ANALYSIS:

✓ U.S. Geological Survey Laboratory

Location of Selected Water, Oil, and Gas Wells in Lampasas County

EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5



LIMESTONE COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kvb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, Electric; G, gas, butane or diesel engine; H, hand pump; J, Jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
* SD-39-18-802	Prairie Hill Water Supply Corp.	J. L. Myers Sons	1963	3,942	10 7	65 3,832	Kgr, Kho	595	88 46.55	Aug. 21, 1963 Feb. 28, 1966	Sub, E 7-1/2	N	Perforated from 3,203 to 3,221 and 3,771 to 3,797. Pumping level 170 ft at 100 gpm on Aug. 21, 1963. Pump set at 230 ft. Cemented from 3,832 ft to surface. <u>y</u>

* For chemical analyses of water, see Table 5.

y Electric logs in files of the Texas Water Development Board, Austin, Texas.

LIMESTONE COUNTY

Table 2.--Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
SD-39-17-601	Ralph Spence and Bill Hughes	Paul Collins No. 1	1961	3,187	531	E
19-701	Hunt Oil Co.	Union Central Life Insurance Co. No. 1	1948	5,196	550	E
26-503	Balcones Oil Co.	Jackson No. 1	1949	3,542	530	E
601	Farrell Drilling Co.	J. R. Gillam No. 1	—	4,862	521	E
27-101	O. W. Killiam	W. D. Stone No. 1	1954	4,505	527	E
401	M. M. Miller	J. C. Rogers No. 1	1947	6,168	531	E
501	Gulf Oil Corp. and Frank Bryant	Bevill Estate No. 1	1940	5,512	506	E
28-703	Zephyr Oil Co.	Nussbaum and Scharff Inc. No. 1	1944	5,501	491	E
35-802	Lone Star Producing Co.	Billy Criswell No. 1	1951	2,455	450	E
906	Zephyr Oil Co. and W. H. Foster	Myrtle Morris No. 1	1955	5,553	526	E
36-101	McAlester Fuel Co.	Hernstadt, et al. No. 1	1961	6,216	509	E
43-601	E. W. Jarman, et al.	Lola Garrett No. 1	1949	5,567	476	E

LIMESTONE COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

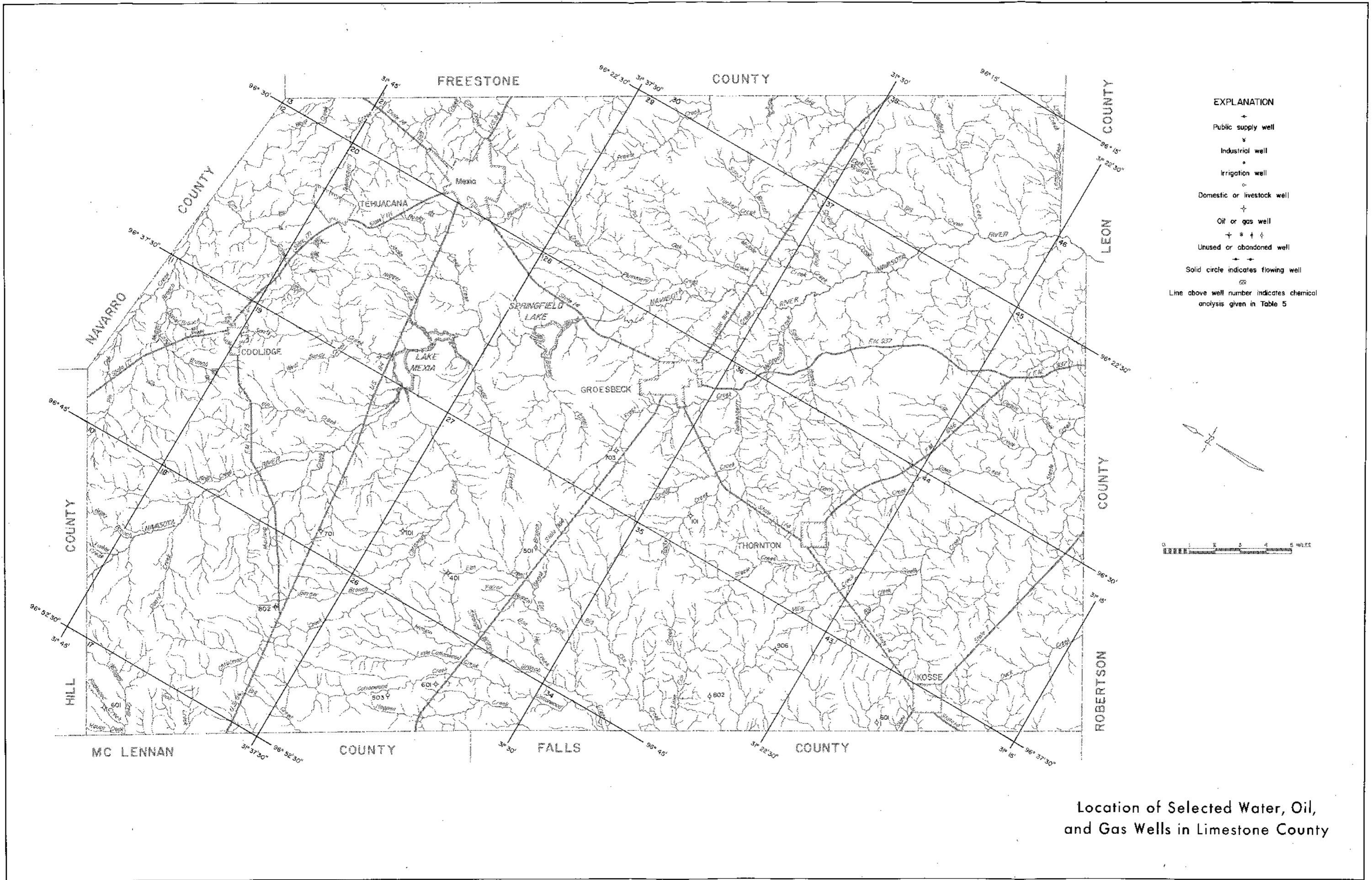
(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Ken, Edwards and associated Limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Fearrell Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
SD-19-18-802	3,942	Sept. 3, 1964	Kgr, Kho	--	0.06	229	35	850	--	222	2,110	119	2.8	3.5	--	3,576	3,459	720	72	6,273	7.4	13.9



EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Limestone County

MC LENNAS COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kee, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Anclava Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETION	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.)			ABOVE (+) OR BELOW LAND SURFACE BATHY (ft.)	DATE OF MEASUREMENT			
* ST-39-17-701	Axtell Water Supply Corp.	J. L. Myers Sons	1959	3,129	12 8 5	63 910 3,129	Kho	528	10 97.99	Apr. 1959 Apr. 3, 1969	Sub, E 2D	P	Perforated from 2,933 to 3,051 ft. Pump set at 300 ft. Reported yield 131 gpm. Cemented. Texas Water Development Board observation well. <u>1 2 4</u>
* 901	Prairie Hill Water Supply Corp.	do.	1965	3,385	10 7	45 3,375	do.	560	79.79 103.31	Feb. 28, 1966 Apr. 3, 1969	Sub, E	P	Gun perforated with 65 shots 3,146 to 3,180 ft., 25 shots 3,192 to 3,204 ft and 78 shots 3,232 to 3,294 ft. Reported yield 70 gpm. Cemented from 45 ft to surface. Texas Water Development Board observation well. <u>1 2 4</u>
25-101	Mt. Carmel Dentac	do.	1958	2,775	10 7 5	48 492 2,775	do.	505	209.64 212.33	Aug. 26, 1966 Sept. 30, 1966	Sub, E 3	P	Completed from 2,580 to 2,710 ft. Pump set at 350 ft. Cemented. Texas Water Development Board observation well. <u>1 2 4</u>
102	Kih-Daklak Water Supply Corp.	do.	1964	2,905	10 7	53 2,894	do.	491	60 117.5	Feb. 12, 1964 Apr. 3, 1969	Sub, E 15	P	Perforated from 2,783 to 2,871 ft. Pump set at 360 ft. Cemented from 2,783 ft to surface. Texas Water Development Board observation well. <u>1 2 4</u>
* 401	Texas Power and Light Co.	Layne Texas Co.	1967	3,035	10 8 6	900 2,529 3,035	do.	458	102	Apr. 10, 1967	--	Ind	Screened from 2,539 to 2,920 ft. Pumping level 304 ft at 320 gpm on Apr. 10, 1967. Cemented 2,529 ft to surface. Temp. 131°F. <u>1 2</u>
* 501	City of Mart	J. L. Myers Sons	1951	3,181	10 7	610 3,181	do.	493	59.6 55.74	Mar. 9, 1965 Apr. 2, 1969	T, R 100	P	Completed from 3,030 to 3,181 ft. Pumping level 143 ft at 585 gpm on Apr. 28, 1965. Pump set at 350 ft. Reported yield 500 gpm. Temp. 120°F. Texas Water Development Board observation well. <u>1 2 4</u>
* 701	R and H Water Supply Corp.	do.	1960	2,916	10 7	72 2,909	do.	480	10 4	Dec. 14, 1960 Dec. 15, 1960	T, E 10	P	Gun perforated from 2,789 to 2,909 ft. Pumping level 182 ft at 220 gpm on Dec. 14, 1960. Pump set at 205 ft. Cemented from 2,789 ft to surface. <u>1 2</u>
801	Meier Settlement Water Supply Corp.	Trianglic Pump and Supply Co.	1956	3,370	--	--	Kho	520	44.7	Nov. 30, 1966	N	N	Abandoned. <u>2</u>
* 33-101	Texas Power and Light Co.	Layne Texas Co.	1951	2,820	12 8 6	820 2,607 2,820	do.	410	+122 9.04 9.65	Dec. 7, 1951 Feb. 16, 1966 Feb. 17, 1966	T, E	Ind	Completed from 2,475 to 2,485, 2,499 to 2,509, 2,515 to 2,525, 2,537 to 2,547, 2,553 to 2,563, 2,574 to 2,584, 2,609 to 2,629, 2,653 to 2,733, 2,756 to 2,776, and 2,788 to 2,808 ft. Pump set at 400 ft. Temp. 123°F. <u>1 2</u>
102	do.	do.	1952	2,898	12 8 6	833 2,499 2,898	do.	429	+ 96	1952	T, E	Ind	Completed from 2,550 to 2,570, 2,584 to 2,594, 2,605 to 2,615, 2,660 to 2,670, 2,676 to 2,718, 2,725 to 2,745, 2,757 to 2,797, 2,810 to 2,830, and 2,853 to 2,875 ft. Pump set at 400 ft. Reported yield 510 gpm. <u>2</u>
* 104	Meier Settlement Water Supply Corp.	J. L. Myers Sons	1967	3,115	7	3,115	do.	460	32 23.75	Feb. 3, 1967 Feb. 7, 1967	Sub, E	P	Perforated from 3,010 to 3,030 and 3,040 to 3,070 ft. Pumping level 90 ft at 100 gpm on Feb. 3, 1967. Cemented from 3,115 ft to surface. <u>2</u>

See footnote at end of table.

MC LENNAN COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF TEST	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-39-33-2DU	Riesel School District	J. L. Myers Sons	1949	3,109	12 8 7 6	50 500 1,500 2,917	Kba	510	+	Feb. 23, 1949	T, E 7-1/2	N	Open hole completion from 2,917 to 3,109 ft. Cemented from 2,917 ft to surface. <u>2</u>
* 202	Riesel Municipal Utility District	do.	1964	3,531	10 7	52	do.	485	30.00 41.03	Feb. 26, 1964 Apr. 2, 1969	Sub, R 10	P	Gun perforated from 3,390 to 3,455 ft. Pumping level 160 ft at 107 gpm on Feb. 27, 1964. Pump set at 255 ft. Reported yield 100 gpm. Cemented from 3,530 ft to surface. Texas Water Development Board observation well. <u>2</u> <u>4</u>
* 40-15-901	Bold Springs Water Supply Corp.	C. M. Stoner Drilling Co.	1965	1,874	14 8 5	23 750 1,874	do.	594	185	Aug. 1965	Sub, K 25	P	Slotted from 1,670 to 1,874 ft. Pump set at 500 ft. Reported yield 300 gpm. Cemented from 1,670 ft to surface. <u>2</u> <u>3</u>
* 16-401	City of West	--	1894	2,010	12 9 5	156 1,100 1,682	Ktp	648	30 176.02	1926 Apr. 3, 1969	T, K 25	N	Reported yield 225 gpm. Temp. 104°F. Texas Water Development Board observation well. Abandoned. <u>4</u>
* 402	do.	J. L. Myers Sons	1945	2,008	16 10 8 7	15 508 1,865 2,008	Kba	648	136 332.74	Apr. 1949 Apr. 3, 1969	Sub, K 40	P	Perforated from 1,865 to 2,008 ft. Pump set at 500 ft. Reported yield 100 gpm. Cemented from 1,865 ft to surface. Texas Water Development Board observation well. <u>2</u> <u>3</u> <u>4</u>
* 403	do.	do.	1953	2,088	16 8 6	925 1,863 2,040	do.	645	188 218 218	June 6, 1953 Oct. 1959 Jan. 1960	T, E 100	P	Perforated. Pump set at 630 ft. Reported yield 365 gpm. Cemented from 1,863 ft to surface. <u>2</u> <u>3</u>
* 404	do.	Key Water Well Drilling-Development Co.	1968	1,977	30 16 8 6	30 1,010 1,868 1,982	Kba	645	283.0	Apr. 3, 1969	Sub, K 75	P	Screened from 1,870 to 1,977 ft. Pumping level 512 ft at 250 gpm on Jan. 7, 1968. Pump set at 700 ft. Cemented from 1,870 ft to surface. Well drilled to 2,000 ft and plugged back to 1,977 ft. <u>2</u> <u>3</u>
* 501	Cottonwood Water Supply Corp.	West-Tex Tool Serv.	1965	2,350	7	2,350	do.	585	182.65	Feb. 23, 1965	Sub, E	P	Gun perforated with 56 shots 2,278 to 2,306 ft. 13 shots 2,312 to 2,318 ft and 38 shots 2,323 to 2,342 ft. Pumping level 306 ft at 100 gpm on Feb. 25, 1965. Cemented. <u>3</u>
* 701	Hilltop Water Supply Corp.	J. L. Myers Sons	1964	2,430	10 7	58 2,430	do.	635	180	July 17, 1964	Sub, E	P	Gun perforated with 37 shots 2,380 to 2,398 ft and 29 shots 2,406 to 2,420 ft. Pump set at 550 ft. Cemented from 58 ft to surface. <u>2</u>
21-901	W. B. Bass and Sons	do.	1956	1,186	5	1,186	do.	685	120	Sept. 28, 1956	T, E 25	D, S	Slotted from 1,094 to 1,186 ft. Pumping level 140 ft at 60 gpm on Sept. 28, 1956. Pump set at 240 ft. Estimated yield 50 gpm. Cemented from 1,186 ft to surface. <u>2</u>
902	do.	Harvey Meadows and Son Well Driller	1967	1,200	5	1,200	do.	685	189.65	Nov. 16, 1967	Sub, E	D, S	Slotted from 1,104 to 1,200 ft. Pump set at 300 ft. Reported yield 100 gpm. Cemented from 1,104 ft to surface.
* 22-307	Gholson Water Supply Co.	Ward and Ward Drilling Co.	1967	1,160	12 7 3	65 1,133 1,160	Kba	533	--	--	Sub, E	P	Slotted from 1,110 to 1,160 ft. Cemented from 1,133 ft to surface. Well drilled to 1,180 ft and plugged back to 1,160 ft. <u>2</u> <u>3</u>
* 308	Lacy Feed Co.	Harvey Meadows and Son Well Driller	1959	1,127	6 4	400 1,127	do.	525	180	1966	Sub, K 5	S	Slotted from 1,080 to 1,127 ft. Pump set at 390 ft. Reported yield 50 gpm. Cemented from 1,127 ft to surface. <u>2</u>
501	S. F. Foster	do.	1958	1,076	--	--	do.	615	100 190.0	Sept. 1958 Nov. 16, 1967	C, E	S	<u>2</u>
* 802	S. M. Talbert	-- Peterson	1917	1,400	6 5	1,300 1,400	Kba	597	41 124	Jan. 7, 1943 1962	N	N	Screened from 1,300 to 1,400 ft.

See footnotes at end of table.

MC LONNAN COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-40-22-307	S. M. Talbert	Harvey Meadows and Son Well Driller	1959	1,150	6 4	450 1,150	Kbc	595	208.27 193.26	Mar. 30, 1966 Apr. 10, 1969	Sub, E S	D, S	Completed from 1,085 to 1,150 ft. Pump set at 300 ft. Texas Water Development Board observation well. Well supplies China Springs, Texas. 4
805	China Springs Community Water Co.	Frank Baker Place	1961	1,100	--	--	do.	825	--	--	Sub, E	P	Pump set at 180 ft. Reported yield 35 gpm. Cemented from 1,100 ft to surface.
806	do.	--	1960	1,100	--	--	do.	625	--	--	Sub, E	P	Reported yield 35 gpm. Cemented from 1,100 ft to surface.
807	Behrens Drug Co. Employees' Club	Harvey Meadows and Son Well Driller	1962	1,010	7 4	410 1,010	do.	555	115	Mar. 1, 1962	Sub, E 2	P	Slotted from 955 to 1,010 ft. Cemented from 955 ft to surface. 1/2
808	-- Demeron	do.	1958	1,020	--	--	do.	595	--	--	--	D, S	2/2
901	H. M. Boyd	do.	1958	1,134	--	--	do.	560	135	Sept. 1958	--	D, S	2/2
902	G. E. Moore	do.	1965	1,200	8 4	45 1,090	do.	562	160	Apr. 7, 1965	Sub, E 1-1/2	D	Perforated. Pump set at 315 ft. Cemented from 1,070 ft to surface. 1/2 2/2
903	Highpoint Water Supply Corp.	do.	1959	--	--	--	Kcp	560	--	--	Sub, E 5	P	
904	Harold McFarren	do.	1959	1,150	6 4	400 1,150	kha	540	30	1956	Sub, E 2	P	Pump set at 250 ft. Cemented from 1,150 ft to surface. Well supplies Erath, Texas.
23-103	Rosell Quillian	Frank Baker Place	1958	1,145	--	--	do.	435	20 + 14 0 + 1	1958 Mar. 1964 Sept. 1964 Nov. 1964	Flow	D	2/2
* 705	Valley View Water Co.	Harvey Meadows and Son Well Driller	1956	1,180	4	1,180	do.	522	80 80 90	1956 1960 1962	Sub, E 3	P	Perforated from 1,160 to 1,180 ft. Pump set at 180 ft. Reported yield 14 gpm. Cemented from 1,160 ft to surface.
* 903	Chalk Bluff Water Supply Corp.	H. B. Glass	1958	2,114	8 5	614 2,114	Kho	505	198	Sept. 1958	T, M 7-1/2	P	Slotted from 1,914 to 2,114 ft. Pump set at 255 ft. Reported yield 75 gpm. 2/2
* 24-102	Ross Water Supply Corp.	do.	1959	2,269	8 5	800 2,265	do.	568	211	Nov. 12, 1959	T, E	P	Completed from 2,110 to 2,265 ft. Pumping level 400 ft at 135 gpm on Jan. 9, 1965. Pump set at 400 ft. Reported yield 155 gpm. 1/2 2/2 3/2
* 301	Leroy-Tours-Gerald Water Supply Corp.	Layne Texas Co.	1958	2,863	8 5	903 2,863	do.	495	+ 65.46	1958 Mar. 21, 1968	Sub, E 10	P	Completed from 2,653 to 2,863 ft. Pump set at 140 ft. Reported yield 240 gpm. Texas Water Development Board observation well. 1/2 2/2 4/2
* 401	McLennan County WCID No. 2	J. L. Myers Sons	1946	2,270	8 5	600 2,270	do.	533	175 260 287 301.00	Dec. 16, 1960 Dec. 3, 1962 Mar. 7, 1964 Oct. 21, 1964	Sub, E 35	P	Completed from 2,100 to 2,270 ft. Pump set at 470 ft. Reported yield 200 gpm. 1/2 2/2
* 501	Pure Water Supply Corp.	C. M. Stover Drilling Co.	1967	2,414	7	2,414	do.	483	99.7	Apr. 19, 1967	Sub, E	P	Slotted from 2,272 to 2,318 ft. Pumping level 374 ft at 108 gpm. in Apr. 1967. 2/2
502	J. R. Patterson	J. L. Myers Sons	1963	2,440	--	--	do.	485	--	--	--	D, S	2/2
* 701	Lacy-Lakeview School	do.	1949	2,323	12 8 5	34 507 2,317	Kho	492	+ 32 250	Apr. 1949 June 8, 1949 Mar. 1964	Sub, E 30	P	Slotted from 2,086 to 2,317 ft. Pump set at 486 ft. Reported yield 200 gpm. Cemented from 2,086 ft to surface. Temp. 110°F. 1/2 2/2
* 702	City of Lacy-Lakeview	do.	1955	2,336	8 6	500 2,336	do.	485	220 350 200	1961 July 1963 Oct. 1964	Sub, E 20	P	Perforated from 2,094 to 2,336 ft. Pump set at 500 ft. Reported yield 75 gpm. 2/2

See footnotes at end of table.

MC LENNAN COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-40-24-703	McLennan County WCID No. 2	J. L. Myers Sons	1961	2,348	18 13 7	68 916 2,342	Kho	537	260 255	Nov. 1962 Mar. 7, 1964	T, K 125	P	Completed from 2,185 to 2,337 ft. Reported yield 500 gpm. Cemented from 916 ft to surface. <u>Y</u>
704	Youngblood and Flowers	do.	1951	2,353	6 4	617 2,353	do.	495	--	--	--	D, S	Perforated. Cemented from 2,353 ft to surface. <u>Y</u>
* 801	State of Texas	Layne Texas Co.	1942	2,400	10 8 6	501 2,195 2,400	Kpe, Kho	465	+ 35 +	Apr. 2, 1942 Nov. 25, 1962	T, E 60	P	Completed from 2,196 to 2,399 ft. Pumping level 263 ft at 560 gpm on Jan. 7, 1942. Pump set at 300 ft. Cemented from 501 ft to surface. Temp. 117°F. <u>Y</u> (Former owner James Connally Air Force Base)
* 802	do.	do.	1942	2,370	10 8 6	501 2,197 2,370	do.	465	+	Jan. 9, 1943 1963	T, E	P	Completed from 2,178 to 2,369 ft. Pumping level 262 ft at 511.5 gpm on Feb. 7, 1942. Pump set at 630 ft. Temp. 116°F. <u>Y</u> (Former owner James Connally Air Force Base)
* 803	do.	do.	1952	2,494	20 16 10 8	46 1,040 2,250 2,494	Kho	460	73 227.63	Feb. 11, 1953 Apr. 3, 1969	Sub, E	P	Slotted from 2,253 to 2,492 ft. Pumping level 520 ft at 650 gpm on Feb. 11, 1953. Pumping level 652 ft at 768 gpm on Mar. 31, 1964. Pump set at 800 ft. Cemented from 2,250 ft to surface. Texas Water Development Board observation well. <u>Y</u> (Former owner James Connally Air Force Base)
28-202	Odle Perny	Frank Baker Place	1961	477	7 5 2	-- -- 315	Kgr	850	192.22	May 20, 1968	Sub, E 1	D, S	Pump set at 315 ft. (Gravel packed).
203	Earl Scholz	--	1900	980	--	--	Ktp	890	2 +	1964 1965	C, C	S	Pump set at 125 ft.
301	Pete Palasota, Jr.	Frank Baker Place	1965	500	7 5	25 --	Kgr	855	180	July 1, 1965	J, E	D	<u>Y</u>
* 29-601	East Crawford Water Supply Corp.	Triangle Pump and Supply Co.	1966	1,206	7	1,200	Kho	675	207.3 251.20	Sept. 12, 1966 Mar. 6, 1969	Sub, E 15	P	Open hole completion from 1,200 to 1,206 ft. Pumping level 435 ft at 80 gpm in Oct. 1966. Pump set at 500 ft. Temp. 87°F. Texas Water Development Board observation well. <u>Y</u>
* 802	City of Crawford	Frank Baker Place	1952	962	7 5	350 --	Khe	735	170 322.18 341.1	Dec. 1, 1960 Jan. 11, 1965 Sept. 7, 1965	Sub, E 15	P	<u>Y</u>
* 805	do.	Fulton T. Place	1962	941	8	912	do.	735	307.99 336.7	Jan. 11, 1965 Mar. 7, 1969	Sub, E 15	P	Open hole completion from 912 to 941 ft. Pumping level 398 ft at 104.5 gpm on Feb. 25, 1966. Pump set at 399 ft. Estimated yield 90 gpm. Cemented from 912 ft to surface. Texas Water Development Board observation well. <u>Y</u>
30-201	Boots Yankie	Hervey Meadows and Son Well Driller	1962	1,060	4	1,060	do.	545	85	Apr. 4, 1962	Sub, B 1-1/2	D	Slotted from 1,015 to 1,060 ft. Pump set at 210 ft. Reported yield 15 gpm. Cemented from 1,015 ft to surface. <u>Y</u>
202	Baylor University Recreation Camp	do.	1961	1,075	6 4	400 1,075	do.	550	120	Sept. 1961	Sub, E 3	P	Perforated from 1,035 to 1,075 ft. Reported yield 100 gpm. Cemented from 1,075 ft to surface. <u>Y</u>
* 301	U. S. Army Corps of Engineers	Ward and Ward Drilling Co.	1966	1,126	5 3	1,106 1,126	do.	475	104	July 12, 1966	Sub, E	P	Screened from 1,106 to 1,126 ft. Pumping level 250 ft at 16 gpm on July 12, 1966. <u>Y</u>
* 302	do.	do.	1966	1,140	5 3	1,120 1,140	do.	480	130	July 11, 1966	Sub, E	P	Screened from 1,120 to 1,140 ft. Pumping level 161 ft at 15 gpm on July 11, 1966. <u>Y</u>
403	-- McKethan	Hervey Meadows and Son Well Driller	1958	1,003	--	--	do.	600	150	Sept. 1958	--	D, S	<u>Y</u>

See footnotes at end of table.

MC LENNAN COUNTY

Table 1. -- Records of Selected Water Wells -- Continued --

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
ST-40-30-602	City of Waco	Hervey Meadows and Son Well Driller	1946	1,127	6 4	200 1,127	Khe	520	700	Dec. 15, 1960	Sub, E	P	Screened from 1,124 to 1,127 ft. Reported yield 50 gpm.
* 603	Speegleville School	J. L. Myers Sons	1962	1,146	10 7 7	30 1,109 1,146	do.	568	130 185.70	Mar. Apr. 10, 1962	Sub, E 2	P	Completed from 1,109 to 1,130 ft. Pump set at 310 ft. Reported yield 25 gpm. Cemented from 1,109 ft to surface. Temp. 72°F. Texas Water Development Board observation well. <u>U</u> <u>Y</u>
* 604	U. S. Army Corps of Engineers	Ward and Ward Drilling Co.	1966	1,171	5 3	1,151 1,171	do.	498	113	July 3, 1966	Sub, E	P	Screened from 1,151 to 1,171 ft. Pumping level 162 ft at 15 gpm on July 3, 1966. <u>U</u>
605	Bud Curtsain	Hervey Meadows and Son Well Driller	1964	1,120	7 4	600 1,120	do.	531	--	--	Sub, E 20	P	Slotted from 1,080 to 1,120 ft. Cemented from 1,080 ft to surface. <u>U</u>
606	Dr. Paul C. Murphy	do.	1964	1,130	8 5	500 1,130	do.	540	--	--	Sub, E	P	Slotted from 1,080 to 1,130 ft. Cemented from 1,080 ft to surface. <u>U</u>
607	B. M. Davis	do.	1960	1,130	8 5	500 1,130	do.	553	115 130	1960 1964	Sub, E 10	P	Slotted from 1,080 to 1,130 ft. Pump set at 400 ft. Cemented from 1,080 ft to surface. <u>U</u>
608	J. D. Chapin	Dual Drilling-Artistic Richfield	1968	--	10 8	-- --	Khe, Kho	539	194.85	Apr. 10, 1969	N	Irr	<u>Y</u>
609	do.	Hervey Meadows and Son Well Driller	1968	1,120	5	1,120	Khe	541	163.2	do.	Sub, E 5	Irr	Perforated from 1,040 to 1,120 ft. Pump set at 300 ft. Cemented from 1,040 ft to surface.
* 901	M. M. O'bowd	J. L. Myers Sons	1961	1,360	9 7 5	18 521 1,360	Kho	522	150 222.84	Nov. 10, 1961 Apr. 10, 1969	Sub, E	D	Completed from 1,269 to 1,337 ft. Cemented from 1,269 ft to surface. Temp. 75°F. Texas Water Development Board observation well. <u>U</u> <u>Y</u>
* 31-103	City of Waco	Layne Texas Co.	1942	1,600	8 6	1,203 1,600	Khe, Kho	497	20 168 106 172	Mar. 31, 1940 Aug. 16, 1962 Apr. 1963 Mar. 7, 1964	T, E 30	P	Completed from 1,208 to 1,230, 1,316 to 1,399, 1,352 to 1,498, and 1,541 to 1,598 ft. Pumping level 186 ft at 230 gpm in Apr. 1963. Pump set at 315 ft. Reported yield 400 gpm. Temp. 94°F. <u>U</u>
103	Lake Waco Country Club	C. M. Stoner Drilling Co.	1962	1,475	10 7	700 1,475	Kho	512	125	June 1962	Sub, E 75	P, Irr	Slotted from 1,328 to 1,409 ft. Pumping level 525 ft at 500 gpm on July 8, 1962. Pump set at 650 ft. Cemented from 1,328 ft to surface. <u>Y</u>
210	F. Orelup	Fulton T. Place	1958	1,285	--	--	Khe	455	37 40 58 69	Mar. 10, 1962 Oct. 4, 1962 Dec. 3, 1962 Mar. 1964	--	D	<u>Y</u>
* 402	U. S. Army Corps of Engineers	Ward and Ward Drilling Co.	1966	1,184	5 3	1,164 1,184	do.	493	100	July 2, 1966	Sub, E	P	Screened from 1,164 to 1,184 ft. Pumping level 111 ft at 17 gpm on July 2, 1966. Pump set at 132 ft. Cemented from 1,164 ft to surface. <u>U</u>
* 403	do.	do.	1966	1,192	5 3	1,172 1,192	do.	476	102	July 1, 1966	Sub, E	P	Screened from 1,172 to 1,192 ft. Pumping level 249 ft at 16 gpm on July 1, 1966. Pump set at 269 ft. Cemented from 1,172 ft to surface. <u>U</u>
* 501	City of Waco	J. L. Myers Sons	1945	2,151	10 7 5	506 2,918 2,150	Kho	547	79 215 235 267 284.39	June 2, 1942 Apr. 20, 1962 May 1962 Oct. 1964 May 11, 1966	T, E 75	P	Slotted from 1,924 to 2,104 ft. Pumping level 160 ft at 340 gpm on June 1, 1942. Pump set at 372 ft. Reported yield 420 gpm. Cemented. Temp. 105°F. <u>U</u>
502	do.	--	--	--	--	--	Ktp	523	--	--	N	N	Well sealed and abandoned.
503	do.	E. B. Case	--	1,702.8	--	--	Khe	547	-	--	N	N	Well sealed and abandoned. <u>U</u>
* 504	do.	Layne Texas Co.	1942	2,150	10 7 5	506 1,918 2,150	Kho	547	79 215 235 267 284.39	June 2, 1942 Apr. 20, 1962 May 1962 Oct. 1964 May 11, 1966	T, E 75	P	Slotted from 1,924 to 2,104 ft. Pumping level 160 ft at 340 gpm on June 1, 1942. Pump set at 340 gpm on June 1, 1942. Pump set at 372 ft. Reported yield 420 gpm. Cemented. Temp. 105°F. <u>U</u>

See footnotes at end of table.

MC LENNAN COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW (AND SURFACE DATUM - (ft)	DATE OF MEASUREMENT			
ST-40-31-503	Cedar Crest Nursing Home	Norvay Meadows and Son Well Driller	1947	1,700	6	--	Kho	505	80 175	1958 1967	J, K 3	N	Pump set at 220. Reported yield 120 gpm.
* 601	City of Waco	--	1914	2,046	6	--	Ktp	415	69 200	1937 1964	T, E 3	P	Pump set at 420 ft. Reported yield 50 gpm. Temp. 101.5°F. <u>3</u>
602	Concord Laundry	J. L. Myers Sons	1950	2,094	7 5	540 2,094	Kho	408	+ 20	1947 1949	T, E	Ind	Gun perforated with 120 shots 1,922 to 2,094 ft. Pump set at 150 ft. Reported yield 80 gpm. Cemented from 2,094 to 1,922 ft. <u>3</u> <u>4</u>
603	Progress Laundry	Edward Sumner	1930	2,108	6	2,108	Ktp	438	--	--	Sub, E 20	Ind	Pump set at 300 ft. Reported yield 00 gpm.
* 604	Buchanan Laundry	H. B. Glass	1956	2,122	8 5	590 --	Kho	416	108 182	May Apr. 7, 1960	T, E 20	Ind	Slotted. Pump set at 400 ft. Reported yield 300 gpm. Temp. 104°F. Texas Water Development Board observation well. <u>3</u> <u>4</u>
* 605	-- Gray	-- Bell	--	2,263	8	1,970	Ktp	416	+ 5	Jan. 9, 1939	N	N	<u>3</u>
606	M and M Laundry	--	--	--	--	--	do.	460	--	--	N	N	
608	Amicable Life Insurance Co.	--	1911	2,300	12 6 4	-- -- --	do.	417	135 100	1925 1967	Sub, K 3	P	Pump set at 660 ft. Temp. 104°F.
* 612	Pure Milk Co.	J. L. Myers Sons	1957	2,194	10 8	500 2,194	Kho	415	100 223.02	Apr. 10, 1969	T, E 25	Ind	Slotted from 2,024 to 2,194 ft. Pump set at 400 ft. Reported yield 100 gpm. Temp. 110°F. Texas Water Development Board observation well. <u>3</u> <u>4</u>
613	City of Waco	--	1917	2,056	--	--	Ktp	415	126	May 1966	--	N	
701	Midway Water Co.	C. M. Stoner Drilling Co.	1956	1,779	7 4	605 1,779	Kho	695	280 219 336.82	May 1959 1962 Apr. 1, 1965	Sub, E 25	P	Slotted from 1,689 to 1,779 ft. Pumping level 355 ft at 380 gpm in May 1959. Reported yield 260 gpm. Cemented. <u>3</u> <u>4</u>
* 702	do.	J. L. Myers Sons	1951	1,936	6 4	550 1,936	do.	630	120 354 318.38	Dec. Oct. Apr. 1, 1965	T, E 15	P	Perforated from 1,826 to 1,936 ft. Pumping level 150 ft at 100 gpm in 1952. Pump set at 300 ft. Cemented. Temp. 99°F. <u>3</u> <u>4</u>
704	Midway Water Co.	C. M. Stoner Drilling Co.	1962	1,803	9 6	702 1,803	Kho	632	230	May 3, 1962	T, E	P	Slotted from 1,662 to 1,800 ft. Reported yield 500 gpm. Cemented. <u>3</u>
* 705	U. S. Army Corps of Engineers	J. L. Myers Sons	1964	1,298	7 4 2	16 1,254 1,274	Kho	515	--	--	Sub, E 2	P	Completed from 1,253 to 1,274 ft. Pump set at 210 ft. Cemented. <u>3</u> <u>4</u>
* 706	do.	do.	1964	1,329	7 4 2	28 1,288 1,308	do.	502	--	--	Sub, E 2	P	Completed from 1,287 to 1,308 ft. Pump set at 210 ft. Cemented. <u>3</u> <u>4</u>
801	Midway Water Co.	R. F. Caraway	1964	1,828	8	480	Ktp	632	317 300 337.23	Dec. 29, 1962 Apr. 1, 1965	Sub, K 35	P	Pump set at 600 ft. Reported yield 240 gpm. Cemented. <u>3</u>
* 802	Bryan-Maxwell-Bryan	Layne Texas Co.	1947	2,040	13 8 6	700 1,840 2,040	Kho	589	275.56 315.37	May 31, 1964 Apr. 15, 1969	N	N	Screened from 1,904 to 2,009 ft. Pumping level 323 ft at 421 gpm on Aug. 23, 1947. Cemented from 1,840 ft to surface. Texas Water Development Board automatic recorder observation well. <u>3</u> <u>4</u>
803	Midway Water Co.	C. M. Stoner Drilling Co.	1966	1,934	10 7	1,000 1,934	do.	632	342.8	May 12, 1966	Sub, E	P	Slotted from 1,850 to 1,934 ft. Cemented.
804	do.	J. L. Myers Sons	1963	1,870	8 7	702 1,870	do.	599	280	May 1963	Sub, E 30	P	Completed from 1,773 to 1,863 ft. Pump set at 550 ft. Estimated yield 200 gpm. <u>3</u>

See footnotes at end of table.

MC LENNAN COUNTY

Table I. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-40-31-901	City of Waco	Swart Bout Bros.	1948	1,560	--	--	Khe	495	--	--	T, E 20	P	2/
902	do.	Fowler Construction	--	2,410	--	--	Ktp	500	+138	1913	N	N	Abandoned. 1/
* 32-101	City of Bellmead	J. L. Myers Sons	1949	2,400	10 7 5	29 522 2,400	Kho	445	--	--	T, B	P	Perforated from 2,200 to 2,400 ft. Pump set at 413 ft. Reported yield 165 gpm. Temp. 87°F. 2/
* 102	do.	Layne Texas Co.	1948	2,303	13 8 6	702 2,102 2,303	do.	435	+ + 180	June 15, 1948 June 9, 1949 1962	T, E 75	P	Slotted from 2,115 to 2,287 ft. Pumping level 222 ft at 400 gpm on June 27, 1948. Pump set at 600 ft. Reported yield 500 gpm. Cemented from 2,115 ft to surface. Temp. 116°F. 1/ 2/
* 103	do.	J. L. Myers Sons	1987	2,396	20 16 8 6	53 907 2,198 2,396	do.	440	160 160 180 250 253 311.10	May 21, 1957 Dec. 1960 1962 Apr. 1964 May 31, 1965 Oct. 10, 1967	T, E 175	P	Slotted from 2,198 to 2,392 ft. Pumping level 381 ft at 615 gpm on May 23, 1957. Pump set at 320 ft. Cemented from 2,198 ft to surface. Temp. 115°F. 1/ 2/
* 104	City of Lacy-Lakeview	J. L. Myers Sons	1960	2,329	20 13 7	40 905 2,320	Kho	478	250 240	Dec. 13, 1960 Mar. 1964	Sub, E 100	P	Slotted from 2,153 to 2,320 ft. Pumping level 454 ft at 500 gpm on Dec. 13, 1960. Pump set at 650 ft. Cemented from 2,153 ft to surface. 1/ 2/
* 106	Plantation Foods, Inc.	Smith and Brashaw Pump Co.	1965	2,255	--	--	Ktp	440	--	--	--	Ind	2/
201	Frank B. Tiley	J. L. Myers Sons	1951	2,511	6 4	617 2,511	do.	440	--	--	--	D, S	Perforated. 1/ 2/
* 403	General Tire and Rubber Co.	Layne Texas Co.	1944	2,312	16 8 6	697 2,088 2,311	Kha	407	+ 30 162 235	July 18, 1944 1960 June 22, 1964	Sub, E 100	Ind	Slotted from 2,110 to 2,311 ft. Pumping level 357 ft at 726 gpm on July 22, 1944. Pump set at 490 ft. Reported yield 750 gpm. Cemented from 697 ft to surface. Temp. 115°F. 1/ 2/ 3/
404	do.	do.	1945	2,376	16 8 6	726 2,138 2,374	do.	405	+ + 30 175	1949 1954 Oct. 1961	T, E 125	Ind	Slotted from 2,133 to 2,312 and 2,352 to 2,374 ft. Pump set at 450 ft. Cemented from 726 ft to surface. Temp. 115°F. 1/ 2/
* 405	Texas Power and Light Co.	Hill, Green, Wearing and Son	1914	2,167	8 6	749 1,979	Ktp	387	89	1914 1940	T, E 30	Ind	Reported flowed 550 gpm in 9 Temp. 115°F. 1/
* 501	City of Waco	J. L. Myers Sons	1958	2,493	16 10 6	53 780 2,493	Kha	445	193 246.53	July 17, 1958 Apr. 3, 1969	Sub, E 40	P	Slotted from 2,331 to 2,464 ft. Pumping level 344 ft at 300 gpm on July 7, 1958. Pump set at 360 ft. Cemented from 2,331 ft to surface. Temp. 114°F. Texas Water Development Board observation well. 1/ 2/ 4/
502	do.	do.	1948	2,500	10 6 4	40 337 2,500	do.	460	--	--	N	N	Slotted from 2,337 to 2,500 ft. Well plugged. 1/ 2/
* 37-501	City of McGregor	Hervey Meadows and Son Well Driller	1965	1,340	10 8	970 1,050	Khe	739	400 426.31	Apr. 29, 1965 Mar. 7, 1969	Sub, E 75	P	Completed from 980 to 1,050 ft. Pumping level 597 ft at 155 gpm on Mar. 11, 1965. Pump set at 700 ft. Reported yield 220 gpm. Cemented from 970 ft to surface. Texas Water Development Board observation well. 1/ 2/ 4/
* 601	do.	-- Darley	1908	1,028	12 8	-- 1,038	do.	690	150 317	1943 1962	T, E 50	P	Pump set at 500 ft. Reported yield 250 gpm. Temp. 85°F.
* 602	do.	Layne Texas Co.	1962	1,250	8 6	977 1,215	Khe, Kpe	690	175	Aug. 31, 1942	N	N	Completed from 975 to 1,045, 1,045, 1,056 to 1,066 and 1,136 to 1,180 ft. Pumping level 565 ft at 275 gpm in May 1959. Reported yield 50 gpm. Well plugged and abandoned. 1/

See footnotes at end of table.

MC LEBLAN COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LOG	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-40-37-603	City of McGregor	Hervey Meadows and Son Well Driller	1956	1,028	10 8	976 1,018	Khe	720	349	Feb. 7, 1958	Sub, E 50	P	Screened from 968 to 1,018 ft. Pumping level 556 ft at 275 gpm on Feb. 7, 1958. Pump set at 700 ft. Cemented from 976 ft to surface. <u>Y</u>
* 604	North American Rockwell Corp., Rocketdyne Div.	Layne Texas Co.	1945	1,044	12 10 8	16 963 1,044	do.	745	280	Mar. 30, 1949	T, E 50	Ind	Completed from 960 to 1,015 ft. Pump set at 610 ft. Reported yield 160 gpm. Cemented Temp. 86°F. <u>Y</u>
606	Central Bosque Water Supply Corp.	Hervey Meadows and Son Well Driller	1968	1,020	7	1,020	do.	685	400 322.4	Jan. 20, 1969 Apr. 10, 1969	Sub, E 15	P	Perforated from 950 to 1,020 ft. Pump set at 550 ft. Reported yield 12 gpm. Cemented from 950 ft to surface.
* 801	North American Rockwell Corp., Rocketdyne Div.	Layne Texas Co.	1942	1,190	10 8	971 1,190	do.	755	175 282 410	June 1942 1949 Feb. 24, 1965	T, E 100	Ind	Completed from 971 to 1,034 ft. Pumping level 610 ft at 300 gpm on Feb. 24, 1965. Pump set at 610 ft. Temp. 86°F. <u>Y</u>
* 802	do.	do.	1942	1,046	10	960 1,046	do.	774	216 417	1942 Feb. 24, 1965	T, E 75	Ind	Completed from 959 to 1,044 ft. Pumping level 369 ft at 375 gpm in 1942. Pump set at 590 ft. Reported yield 280 gpm. Cemented Temp. 86°F. <u>Y</u>
* 803	do.	do.	1942	1,201	10 8	962 1,009	do.	781	297	Mar. 30, 1949	T, E 50	Ind	Screened from 968 to 1,009 ft. Pump set at 620 ft. Reported yield 200 gpm. Cemented Temp. 86°F. <u>Y</u>
* 804	do.	do.	1942	1,062	10 8	957 1,062	do.	800	250 414	1942 Feb. 24, 1965	T, E 100	Ind	Completed from 959 to 1,060 ft. Pumping level 485 ft at 420 gpm on Feb. 24, 1965. Pump set at 610 ft. Cemented. Temp. 85°F. <u>Y</u>
* 38-302	Universal Atlas Cement Co.	-- Cluck	1928	1,485	10 6 5	205 1,227 1,485	Kbe, Kpe, Kbo	570	24 55 150 187.54	June 20, 1938 Jan. 6, 1943 Nov. 9, 1964 Feb. 18, 1965	T, E 50	Ind	Perforated from 1,227 to 1,485 ft. Pump set at 300 ft. Reported yield 100 gpm. Temp. 95°F.
303	Brazos Concrete Products, Inc.	C. M. Stoner Drilling Co.	1965	1,440	4	1,440	Kbo	535	200	Apr. 15, 1965	Sub, E 5	Ind	Completed from 1,380 to 1,440 ft. Pump set at 359 ft. Cemented from 1,380 ft to surface. <u>Y</u>
502	J. B. Todd	J. L. Myers Sons	1950	1,190	5 4	400 1,190	Khe	617	--	--	C, E	D, S	Perforated from 1,150 to 1,190 ft. Well drilled to 1,435 ft and plugged back to 1,190 ft. <u>Y</u>
* 801	Spring Valley Water Supply Corp.	C. M. Stoner Drilling Co.	1965	1,460	7	1,460	Khe, Kbo	695	263.00 322.08	May 13, 1965 Mar. 7, 1969	Sub, E 15	P	Gun perforated with 41 shots 1,244 to 1,264, 1,372 to 1,390, 1,397 to 1,406, 1,412 to 1,424, 1,436 to 1,440, and 1,448 to 1,450 ft. Pumping level 119 ft at 80 gpm on May 14 1965. Pump set at 443 ft. Cemented from 1,460 ft to surface. Texas Water Development Board observation well. <u>Y Z</u>
* ST-40-39-101	Waco Syrian Association	J. L. Myers Sons	1950	1,865	6 4 2	350 1,800 1,865	Kbo	635	334.56	Apr. 1, 1965	Sub, E 2	P	Completed from 1,800 to 1,865 ft. Pump set at 450 ft. Reported yield 10 gpm. Cemented from 1,800 ft to surface. Temp. 75°F.
103	Luther Herring	Hervey Meadows and Son Well Driller	1947	1,570	10 5	915 1,570	Khe	663	180 284.39	Apr. 25, 1950 Mar. 13, 1966	Sub, E 2	D, S	Completed from 1,530 to 1,570 ft. Pumping level 480 ft at 7 gpm. Texas Water Development Board observation well. <u>Y Z</u>
104	Midway School	J. L. Myers Sons	1950	1,872	7 4	450 1,870	Kbo	670	358 347 361.92	Mar. 6, 1964 Dec. 10, 1964 Apr. 1, 1965	N	N	Reported yield 90 gpm in 1964. Cemented. Abandoned. <u>Y Z</u>
106	Midway Water Co.	C. M. Stoner Drilling Co.	1963	1,828	10 7	990 1,828	do.	655	300 335.55	Dec. 29, 1965 Apr. 1, 1965	Sub, E 100	P	Slotted from 1,727 to 1,827 ft. Pumping level 593 ft at 580 gpm on Apr. 1, 1965. Pump set at 700 ft. Reported yield 600 gpm. Cemented. Temp. 111°F. <u>Z</u>

See footnotes at end of table.

MC LENNAN COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DYAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
ST-40-39-203	Dr. Barnes	J. L. Myers Sons	1957	2,082	--	--	Kho	585	90 135 180	Sept. 1952 Dec. 1954 Dec. 1956	Sub, E	D, S	Slotted from 1,920 to 2,082 ft. <u>Y Z</u>
* 204	C. H. McEmore	C. M. Stoner Drilling Co.	1961	1,914	7 6	1,914 2,914	do.	655	170	Oct. 26, 1964	Sub, E 20	P	Completed from 1,754 to 1,914 ft. Pump set at 660 ft. Reported yield 200 gpm. Cemented. Well supplies Hewitt, Texas. <u>Y</u>
301	Chapel Hill Memorial Park	H. B. Glass	1957	2,100	8 5	746 2,100	do.	595	140 300	Nov. 10, 1965	Sub, E 15	P	Completed from 1,906 to 2,100 ft. Pump set at 600 ft. Reported yield 100 gpm. <u>Z</u>
* 302	Waco Memorial Park	J. L. Myers Sons	1950	2,096	7 5	700 2,096	do.	558	45 228.13	Mar. 22, 1968	Sub, E 15	Irr	Slotted from 1,996 to 2,096 ft. Pumping level 280 ft. at 230 gpm in Sept. 1959. Pump set 400 ft. Reported yield 200 gpm. Cemented. Temp. 103°F. Texas Water Development Board observation well. <u>Y Z G</u>
501	-- Warren	Fulton T. Place	1957	1,735	8 4	-- --	Khe	620	165	Dec. 5, 1960	T, G	P	Pump set at 300 ft. Reported yield 250 gpm.
* 502	Edwin Nichols	Harvey Meadows and Son Well Driller	1965	1,560	7 5 4	600 1,560 --	do.	645	239.32 258.02	May 20, 1965 Mar. 17, 1969	Sub, E 5	P	Slotted from 1,500 to 1,560 ft. Pump set at 400 ft. Cemented. Texas Water Development Board observation well. <u>Z G</u>
503	Poveram Oil Co.	C. M. Stoner Drilling	1968	1,960	4	1,960	Kho	615	275	May 5, 1968	Sub, E 5	P	Can perforated with 5 shots 1,909 to 1,913 ft and 5 shots 1,938 to 1,942 ft. Pump set at 567 ft. Cemented from 1,960 ft to surface. <u>Y Z</u>
* 702	Lorena Water Supply Corp.	J. L. Myers Sons	1961	1,888	16 10 7 6	31 807 1,690 1,881	do.	579	215 182.18	Oct. 1964 Mar. 7, 1969	T, R 20	P	Completed from 1,690 to 1,801 ft. Pumping level 225 ft at 191 gpm on Mir. 2, 1965. Pump set at 300 ft. Reported yield 400 gpm. Cemented. Texas Water Development Board observation well. <u>Y Z G</u>
* 40-101	Robinson Water Co.	R. W. Caraway	1951	2,391	7 5	700 2,391	do.	535	+ 50	1951 1960	T, R	P	Completed from 2,191 to 2,391 ft. Pump set at 210 ft. Reported yield 260 gpm. <u>Z</u>
102	do.	H. B. Glass	1955	2,450	8 5	700 2,450	do.	485	60 100	Dec. 20, 1960 1962	T, R	P	Completed from 2,210 to 2,450 ft. Pump set at 200 ft. Reported yield 200 gpm.
103	Weldon Youngblood	J. L. Myers Sons	1950	2,480	6 5	-- --	do.	495	--	--	--	D, S	Perforated. <u>Y Z</u>
401	Robinson Water Co.	do.	1961	2,500	12 8 7	41 523 2,500	do.	460	84.55 103.72	Mar. 1, 1966 Mar. 18, 1969	Sub, E 15	P	Perforated from 2,270 to 2,500 ft. Pumping level 90 ft at 250 gpm in June 1962. Cemented. Texas Water Development Board observation well. <u>Y Z G</u>
701	Rosenthal Water Co.	H. B. Glass	1946	2,550	7 5	700 2,550	do.	483	+ 0	1956 1959	Sub, E 7-1/2	P	Completed from 2,350 to 2,550 ft. <u>Z</u>
* 702	Levi Water Supply Corp.	West-Tex Tool Service	1964	2,640	5	2,640	do.	523	90 94.92	Nov. 12, 1964 Mar. 18, 1969	Sub, E 7-1/2	P	Pump set at 130 ft. Cemented. Texas Water Development Board observation well. <u>Z G</u>
804	C. S. Langhart	H. B. Glass	1956	2,647	8 6	525 2,637	Kcp	385	+	July 26, 1968	Flows	Irr, Irr	Estimated flow 600 gpm in 1964.
* 46-101	Rolling Hills Country Club	Key Water Well Drilling-Development Co.	1967	1,500	8 7	850 1,500	Kho	815	--	--	Sub, E 40	P	Slotted from 1,420 to 1,500 ft. Pump set at 600 ft. Cemented from 1,420 ft to surface. <u>Y Z</u>
* 402	City of Moody	J. L. Myers Sons	1949	1,494	8 6	1,333 1,494	do.	776	310	Oct. 26, 1964	Sub, E 40	P	Perforated from 1,333 to 1,487 ft. Pumping level 520 ft at 181 gpm on Jan. 26, 1965. Pump set at 600 ft. Cemented from 1,333 ft to surface. <u>Y Z</u>

See footnotes at end of table.

MC LERRAN COUNTY

Table 1. -- Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ST-40-46-403	City of Moody	J. L. Myers Sons	1957	1,561	20 13 8 6	24 896 1,320 1,561	Kho	767	280 127.6	Aug. 6, 1957 Mar. 7, 1969	Sub, E 50	P	Slotted from 1,347 to 1,485 ft. Pump set at 600 ft. Cemented. Texas Water Development Board observation well. ^{1) 2) 3)}
* 601	City of Bddy	--	--	1,565	7	--	Khe	685	254 258	Oct. 22, 1964 Jan. 5, 1965	N	N	Abandoned.
* 602	W. H. Gast	Emmett Aaron Glass	--	1,565	7	1,565	Khe	690	305 278.0	Oct. 1964 Mar. 18, 1969	Sub, K 10	P	Pump set at 407 ft. Reported yield 80 gpm. Cemented. Texas Water Development Board observation well. ⁴⁾
* 801	Elm Creek Water Supply Corp.	C. M. Stoner Drilling Co.	1967	1,680	14 8 7	9 750 1,680	Kho	830	374	Feb. 7, 1967	Sub, B 20	P	Slotted from 1,595 to 1,680 ft. Pumping level 416 ft at 100 gpm on Feb. 9, 1967. Pump set at 504 ft. Reported yield 242 gpm. Cemented from 1,595 ft to surface. Temp. 99°F. ^{1) 2) 3)}
* 47-401	E. B. Virginia	--	--	1,565	5	--	Khe	600	191.58	Jan. 5, 1965	N	N	
* 403	do.	Hervey Meadows and Son Well Driller	1963	1,535	7	1,535	do.	600	160 192.52	Oct. 22, 1964 May 12, 1967	Sub, E 5	P	Perforated from 1,495 to 1,535 ft. Pump set at 235 ft. Reported yield 30 gpm. Cemented from 1,535 ft to surface. Well supplied Bruceville, Texas.

* For chemical analysis of water, see Table 5.

1) For drillers' log of well, see Table 3.

2) Electric logs in files of the Texas Water Development Board, Austin, Texas.

3) For results of pumping tests yields and specific capacities of wells, see Table 4 Volume I.

4) For water-level measurements, see Table 4.

MC LENNAN COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
ST-39-17-201	S. H. Riggs	Grindstaff No. 1	1951	2,030	560	E
401	Simon Korshoj	R. F. Ferguson No. 1	—	3,977	557	E
801	William H. Winn	James L. Morrow No. 1	1955	2,533	449	D,E
25-901	R. J. Caraway	Slaughter No. 1	1954	2,240	580	E
26-402	Gragg Drilling Co.	Jessie M. Thompson No. 1	1961	2,516	508	E
801	Mae Belcher	W. S. Smyth No. 1	1942	3,838	525	E
40-15-902	C. P. Quinlan	Prause No. 1	1950	970	577	E
16-502	Smith and Breyer	C. A. Russell No. 1	1955	704	617	E
503	do.	Alfred Brem No. 1	1955	776	605	E
702	Baylor University Geology Department	J. L. McCain No. 1	1959	630	595	E
24-804	C. R. Porter	E. D. Mazanec No. 1	—	1,591	467	E
28-901	Falcon Oil Corp.	Henry Mattlage Jr. No. 1	1954	7,585	762	E
29-103	E. J. Muth	Freeman No. 1	1950	2,000	733	E
37-902	Delta Drilling Co.	Carl Horstman No. 1	1939	2,258	696	E
38-301	R. C. Smith and Falcon Oil Co.	H. G. McKethan No. 1	1953	1,603	505	D,E
39-401	Beacon Oil and Refining Co.	Myrtle Trice No. 1	1956	1,809	670	E
801	Gray Oil Co.	C. B. and H. C. Warren No. 1	1950	1,700	555	D,E
40-303	Max McCotter	Wardlaw No. 1	1952	1,322	369	E
46-301	Jet Oil Co.	Wills No. 1	1953	1,129	685	E
47-101	Henry C. Paine	H. C. Eubank No. 1	1951	1,160	545	E
402	W. H. Mahon	C. W. Scott No. 1	1963	592	638	E

MC LENNAN COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-17-701			Well ST-39-17-901		
Owner: Axtell Water Supply Corp. Driller: J. L. Myers Sons			Owner: Prairie Hill Water Supply Corp. Driller: J. L. Myers Sons		
Surface soil	3	3	Topsoil	4	4
Clay	57	60	Clay	36	40
Shale	500	560	Shale	560	600
Chalk rock	220	780	Chalk rock	178	778
Shale	327	1,107	Shale	572	1,350
Sandy lime	341	1,448	Lime	288	1,638
Broken lime	512	1,960	Broken lime and shale	369	2,007
Sandy lime	188	2,148	Lime	385	2,392
Lime	212	2,360	Sandy lime	32	2,424
Sandy lime	94	2,454	Broken lime and shale	278	2,702
Broken lime	336	2,790	Lime and shale	119	2,821
Red bed and shale	29	2,819	Sand	232	3,053
Shale	144	2,963	Sand and shale	194	3,247
Sand	127	3,090	Sand	68	3,315
Shale	39	3,129	Shale	70	3,385
Well ST-39-17-801			Well ST-39-25-101		
Owner: James L. Morrow Driller: William H. Winn			Owner: Mt. Carmel Center Driller: J. L. Myers Sons		
Shale	320	320	Surface pipe	48	48
Chalk	260	580	Shale	368	416
Shale	30	610	Chalk rock	102	518
Sandy shale	10	620	Chalk and shale	261	779
Shale	50	670	Shale and lime	257	1,036
Sandy shale	50	720	Lime	1,018	2,054
Shaly lime	280	1,000	Broken sand and lime	253	2,307
Lime	100	1,100	Shale	73	2,380
Shaly lime - hard streaks	90	1,190	Sandy lime	185	2,565
Lime	50	1,240	Sand	70	2,635
Hard lime	130	1,370	Shale and sand	89	2,724
Hard shale	60	1,430	Shaly sand	51	2,775
Hard, sandy lime	35	1,465			
Hard lime	465	1,930	Well ST-39-25-102		
Hard, shaly lime	603	2,533	Owner: Elk-Oaklake Water Supply Corp. Driller: J. L. Myers Sons		
			Clay	47	47
			Shale	345	392

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-25-102—Continued			Well ST-39-25-401—Continued		
Chalk rock	248	640	Hard sand	10	2,351
Shale	380	1,020	Hard shale and lime	218	2,569
Lime	450	1,470	Fine white sand and lignite streaks	18	2,587
Lime and shale	77	1,547	Shale	9	2,596
Lime	48	1,595	Streaks of sand and shale	8	2,604
Lime and shale	237	1,832	Hard sand and streaks of shale	42	2,646
Broken shale	19	1,851	Shale	5	2,651
Lime and shale	221	2,072	Streaks of sand and shale	13	2,664
Sandy lime	40	2,112	Gray shale	66	2,730
Hard lime	25	2,137	Red shale	96	2,826
Sandy lime	19	2,156	Rock and streaks of shale	9	2,835
Lime and shale	379	2,535	Sand and streaks of shale	34	2,869
Broken sand	87	2,622	Shale	7	2,876
Shale with streaks of sand	69	2,691	Sand and streaks of shale	40	2,916
Sandy shale	15	2,706	Shale	119	3,035
Broken sand	102	2,808			
Sand and shale	97	2,905			
			Well ST-39-25-501		
			Owner: City of Mart Driller: J. L. Myers Sons		
			Surface soil	40	40
			Shale	500	540
			Rock and shale streaks	65	605
			Chalk rock	196	800
			Shale	282	1,082
			Lime and shale	154	1,236
			Lime	314	1,550
			Shale and lime	41	1,591
			Broken lime	92	1,683
			Lime and shale	43	1,726
			Lime	44	1,770
			Shale and lime	180	1,950
			Lime	50	2,000
			Broken lime and shale	196	2,196
			Lime	244	2,440
			Shale and lime	88	2,528
			Shale	22	2,550
			Lime	105	2,655
			Shale and lime	120	2,775
Well ST-39-25-401					
Owner: Texas Power and Light Co. Driller: Layne Texas Co.					
Surface soil	3	3			
Clay	22	25			
Shale	183	208			
Shale and streaks of sand	61	269			
Shale	156	425			
Lime	94	519			
Shale and streaks of lime	541	1,060			
Hard lime and shale streaks	115	1,175			
Shale and streaks of lime	40	1,215			
Lime	127	1,342			
Lime and streaks of shale	90	1,432			
Shale and streaks of lime	227	1,659			
Sand	6	1,665			
Lime and shale	451	2,116			
Sandy shale	16	2,132			
Lime and shale	43	2,175			
Sandy shale (hard)	17	2,192			
Lime and shale	149	2,341			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-25-501—Continued			Well ST-39-33-101—Continued		
Lime	25	2,800	Shale	146	359
Red shale and lime	50	2,850	Shale	66	425
Sandy shale and lime	75	2,925	Shale and chalk	36	461
Red shale and lime	39	2,964	Chalk	4	465
Red, sandy lime	61	3,025	Chalk	26	491
Red, sandy shale	9	3,034	Chalk	50	541
Pea gravel and fine sand	26	3,060	Chalk	11	552
Sand	75	3,135	Chalk and shale streaks	44	596
Sand with shale breaks	18	3,153	Chalk and shale with shale breaks	38	634
Sand	28	3,181	Chalk and shale	30	664
Well ST-39-25-701			Chalk and shale	39	703
Owner: H. and H. Water Supply Corp. Driller: J. L. Myers Sons			Shale and chalk streaks	22	725
Surface soil	4	4	Shale and chalk streaks	54	779
Clay	64	68	Shale with hard streaks	57	836
Shale	363	431	Shale, hard streaks	27	863
Chalk rock	227	658	Shale	32	895
Shale	345	1,003	Shale	35	930
Lime	330	1,333	Shale and chalk	26	955
Broken lime	113	1,446	Hard shale with chalk	35	990
Shale and lime	111	1,557	Shale and chalk streaks	35	1,025
Broken lime	108	1,665	Hard shale and chalk	21	1,046
Lime and shale	175	1,840	Hard shale with chalk	21	1,067
Broken lime	87	1,927	Shale, chalk, and lime streaks	19	1,086
Lime and shale	116	2,043	Shale, chalk, and lime	12	1,098
Broken lime	517	2,560	Hard shale and lime	38	1,136
Sandy shale	140	2,700	Shale, chalk, and lime streaks	63	1,199
Lime and shale	80	2,780	Shale, chalk, and lime	38	1,237
Sand and shale	110	2,890	Chalk, lime, and shale	73	1,310
Sand	26	2,916	Sandy shale streaks, chalk, and lime	75	1,385
Well ST-39-33-101			Sandy, shale and chalk	94	1,479
Owner: Texas Power and Light Co. Driller: Layne Texas Co.			Shale and lime	81	1,560
Clay	20	20	Shale and lime	60	1,620
Gravel	7	27	Shale and lime	76	1,696
Shale	16	43	Sandy lime and shale	66	1,762
Shale	10	53	Lime and shale	40	1,802
Shale	160	213	Lime and shale	54	1,856

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-33-101—Continued			Well ST-40-15-901—Continued		
Shale, lime, and chalk	25	1,881	White rock	500	850
Sandy shale	28	1,909	Lime	610	1,460
Lime and shale	16	1,925	Red and green shale	25	1,485
Lime and shale	14	1,939	Sand	31	1,516
Shale and lime	40	1,979	Shale	14	1,530
Shale and lime	30	2,009	Sand	10	1,540
Lime	13	2,022	Shale	110	1,650
Lime and shale	31	2,053	Sand	200	1,850
Sandy lime and shale	49	2,102	Yellow, red sand and shale	24	1,874
Sandy lime and shale	36	2,138			
Sandy lime and shale	52	2,190	Well ST-40-16-402		
Lime and sandy shale	58	2,248	Owner: City of West Driller: J. L. Myers Sons		
Lime and sandy shale	10	2,258	Fill Dirt	4	4
Shale	42	2,300	Yellow clay	11	15
Shale and lime	36	2,336	Rock	10	25
Hard shale	30	2,366	Lime	55	80
Hard shale	34	2,400	Shale with layers of shale	286	366
Hard shale	26	2,426	Shale	30	396
Hard shale	34	2,460	Lime	72	468
Hard shale and lime	16	2,476	Rock and shale	118	586
Hard shale	42	2,518	Lime	200	786
Sandy lime, shale, and sand	58	2,576	Lime and shale	94	880
Sandy lime and shale	16	2,592	Lime	245	1,125
Sandy lime and shale	6	2,598	Sandy lime	75	1,200
Shale and lime	24	2,622	Lime and shale	30	1,230
Sand and sandy lime	50	2,672	Sandy lime	150	1,380
Sand with shale streaks	90	2,762	Lime	78	1,458
Sand and shale layers	19	2,781	Sandy lime	5	1,463
Hard shale	9	2,790	Sand	5	1,468
Hard shale	30	2,820	Lime	3	1,471
			Sand	9	1,480
			Hard lime	13	1,493
			Lime with shale streaks	51	1,544
			Lime	76	1,620
			Soft sandy lime	55	1,675
			Hard lime and shell rock	60	1,735
			Lime	35	1,770
			Sandy lime	10	1,780
Well ST-40-15-901					
Owner: Bold Springs Water Supply Corp. Driller: C. M. Stoner Drilling Co.					
Soil	1	1			
Clay	7	8			
Sand	12	20			
Blue shale	330	350			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-22-307—Continued			Well ST-40-22-807—Continued		
Clay and gravel	34	64	White lime	25	365
Green shale	16	80	Black shale	30	395
Hard shale and gravel	4	84	Glen Rose lime	565	960
Limestone	146	230	Trinity sand	50	1,010
Limestone and shale	12	242			
Limestone	168	410	Well ST-40-22-902		
Shale	29	439	Owner: O. E. Moore Driller: Hervey Meadows and Son Well Driller		
Limestone	100	539	Soil	10	10
Slate and shale	17	556	Clay and gravel	30	40
Sandstone	6	562	Blue rock	40	80
Limestone	565	1,127	White lime	160	240
Sand	33	1,160	White lime	170	410
Slate	20	1,180	Soft, blue lime (shale)	30	440
Well ST-40-22-308			Harder lime and shale	100	540
Owner: Lacy Feed Co. Driller: Hervey Meadows and Son Well Driller			Possible water lime	20	560
Black soil	3	3	Glen Rose lime	560	1,120
Gravel and sand	12	15	Hard, tight sand (no water)	20	1,140
Yellow clay	14	29	Loose sand	60	1,200
Blue shale	43	72	Well ST-40-24-102		
White rock	33	105	Owner: Ross Water Supply Corp. Driller: H. B. Glass		
Hard, blue rock	40	145	Coarse-grained sandy topsoil	13	13
Hard, white lime	165	310	Firm, calcareous, white chalk	257	270
Blue shale	95	405	Dark grayish-black, calcareous shale	270	540
White lime	25	430	Dark blue-black, non-calcareous shale	92	632
Black shale	75	505	Firm, white, calcareous lime	8	640
Glen Rose lime	575	1,080	Soft, greenish shale	80	720
Trinity sand	47	1,127	Hard, white to buff colored, lime with dark shale streaks	148	868
Well ST-40-22-807			Soft, brown, chalky lime	7	875
Owner: Behrens Drug Co. Employees' Club Driller: Hervey Meadows and Son Well Driller			Hard, brownish lime	25	900
Soil	1	1	Hard, white lime with black shale streaks	20	920
White rock	13	14	Hard, brownish limestone	77	997
Clay	3	17	Brown, clayish limestone	58	1,055
White rock	5	22	Soft chalk, white lime with dark shale streaks	45	1,100
Blue rock	94	116			
White rock	211	327			
Blue shale	13	340			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-102—Continued			Well ST-40-24-102—Continued		
Hard, white lime with shaly shale	23	1,123	Hard, red shale with soft, green shale and fine-grained, green sandstone	5	2,109
Hard, dark gray, fossiliferous lime with black shale streaks	15	1,138	Medium to coarse-grained, brown to tan sandstone	95	2,204
Firm, white lime with sandy streaks	122	1,260	Dark brown sandstone with soft shale and white lime	10	2,214
Dark gray, sandy lime	64	1,324	Brown, medium-grained sandstone with red quartz pebbles	15	2,229
Hard, white and pinkish limestone	95	1,419	Pink, medium-grained sandstone with coarse yellow quartz grains	20	2,249
Hard, white lime with red and brown quartz grains	211	1,630	Hard, dark black shale with flint and pyrites	20	2,269
Hard, white lime with soft, gray chalky streaks	60	1,690			
Hard, white lime	115	1,805	Well ST-40-24-301		
Hard, gray, fossiliferous lime	33	1,838	Owner: Leroy-Tours-Gerald Water Supply Corp. Driller: Layne Texas Co.		
Firm, fine grained, sandy calcareous shale	37	1,875	Topsoil	50	50
Dark black shale and sandy lime	10	1,885	Brown shale, lime	108	158
Gray, sandy lime with reddish lime streaks	29	1,914	Shale and lime	102	260
Soft, black shale with sandy lime streaks	8	1,922	Chalk and lime	94	354
Soft, brown shale and soft, gray lime	32	1,954	Hard lime	82	436
Fine, gray sand with sandy, black shale	8	1,962	Lime and shale	114	550
Dark gray lime and gray shale streaks	52	2,014	Shale	446	996
Gray, calcareous shale with sandy lime	10	2,024	Hard lime	447	1,443
Dark brownish-red, fine-grained, sandy shale	10	2,034	Shale and lime	432	1,875
Fine-grained, yellowish sandstone	11	2,045	Shale and sand	291	2,166
Hard, black shale with iron pyrites and white sandstone	24	2,069	Hard lime	459	2,625
Dark red shale with fine-grained, white sandstone	5	2,074	Hard lime	28	2,653
Dark red shale with fine-grained, yellow, brown, red, and white sandstone	20	2,094	Sand	190	2,843
Firm, red shale with light brown, fine-grained sandstone	5	2,099	Hard rock	20	2,863
Light red shale with light brown, fine-grained sandstone	5	2,104	Well ST-40-24-401		
			Owner: McLennan County WCID No. 2 Driller: J. L. Myers Sons		
			Surface	51	51
			Clay	33	84
			Rock	3	87
			Rock	116	203
			Austin chalk with shale streaks	104	307
			Shale and lime streaks	122	429
			Hard, Eagle Ford shale	140	569

Table 3.--Drillers' Logs of Selected Wells in McLennan County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-401--Continued			Well ST-40-24-701--Continued		
Lime	68	637	Broken shale	310	350
Hard shale	21	658	Shale	300	650
Sticky shale	5	663	Lime	10	660
Lime with streaks hard shale	49	712	Shale	90	750
Shale	8	720	Broken lime and shale	470	1,220
Lime	196	916	Broken sand and lime	755	1,975
Lime with shale streaks	45	961	Lime rock	110	2,085
Lime	135	1,096	Trinity sand	209	2,294
Shale and broken lime	73	1,169	Conglomerate and red bed	29	2,323
Lime with shale streaks	135	1,304			
Lime and sand	5	1,309	Well ST-40-24-703		
Sand	2	1,311	Owner: McLennan County WCID No. 2 Driller: J. L. Myers Sons		
Sand with streaks of lime	18	1,329	Surface soil	4	4
Lime	25	1,354	Clay	56	60
Sand	8	1,362	Shale	125	185
Lime	98	1,460	Shale - chalk rock	140	325
Lime - sandy iron - shale streaks	85	1,545	Shale	434	759
Lime	42	1,587	Lime	555	1,314
Lime with streaks of sticky shale	78	1,665	Broken lime	571	1,885
Lime	21	1,686	Sand and shale	210	2,095
Lime - shale - sandy shale breaks	85	1,771	Sand	49	2,144
White shale - lime breaks	22	1,793	Red bed	21	2,165
Lime	1	1,794	Shale	35	2,200
Shale	26	1,820	Sand and shale	46	2,246
Lime and shale	52	1,872	Sand	102	2,348
Shale - streaks sandy shale and lime	117	1,989	Well ST-40-24-704		
Lime - shale streaks	43	2,032	Owner: Youngblood and Flowers Driller: J. L. Myers Sons		
Shale - streaks sandy shale and lime	77	2,109	No record	33	33
Lime and shale	80	2,189	Shale	44	77
Shale	11	2,200	Chalk rock	25	102
Lime and shale	70	2,270	Lime	189	291
			Rock	219	510
			Shale	44	554
			Lime and shale	1,520	2,074
			Sandy shale	21	2,095
			Sand	258	2,353
Well ST-40-24-701					
Owner: Lacy-Lakeview School Driller: J. L. Myers Sons					
Surface soil	6	6			
Gravel and sand	34	40			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-801			Well ST-40-24-802—Continued		
Owner: State of Texas Driller: Layne Texas Co.			Gravel and sand	4	13
Soil	2	2	Yellow clay	22	35
Sandy clay	9	11	Hard, blue shale	108	143
Sand and gravel	8	19	Blue shale and chalk	23	166
Hard, blue shale	123	142	Chalk	149	315
Chalk	70	212	Chalk and blue shale	86	401
Chalk and shale	189	401	Blue shale	86	487
Black shale	192	593	Black shale	140	627
Shale and chalk	48	641	Black shale and lime	26	653
Black shale	71	712	Black shale	49	702
Hard shale and lime	78	790	Shale and lime	93	795
Gray lime and shale	34	824	Lime	20	815
Lime	47	871	Lime and shale	369	1,184
Lime and shale	264	1,136	Shale and lime	613	1,797
Shale and lime	648	1,783	Lime and layers of shale	62	1,859
Lime and layers of shale	76	1,859	Shale and lime	116	1,975
Lime, shale, anhydrite	114	1,973	Shale, lime, and sand	11	1,986
Gray sand and layers of shale	48	2,021	Sand and shale (Glen Rose)	40	2,026
Hard shale	4	2,025	Hard shale	8	2,034
Hard shale and lime	66	2,091	Hard, sandy shale and lime	68	2,102
Hard, sandy shale and lime	14	2,105	Shale and lime	75	2,177
Hard shale and lime	65	2,170	Sand and shale	20	2,197
Hard shale	5	2,175	Hard shale with thin layers of fine sand	21	2,218
Hard, fine, red sand	15	2,190	Sand (few shale breaks)	18	2,236
Brown shale and layers of sand	42	2,232	Hard, sticky shale	6	2,242
Fine, gray sand	6	2,238	Hard shale, thin layers sand	19	2,261
Sand and layers shale	10	2,248	Sand	19	2,280
Good sand	33	2,281	Sand and layers of shale	52	2,332
Sand and thin layers of shale (good)	27	2,308	Sand (good)	25	2,357
Shale and hard sand	16	2,324	Sand and shale	9	2,366
Good sand	30	2,354	Shale	4	2,370
Hard, blue and brown shale	46	2,400			
			Well ST-40-24-803		
			Owner: State of Texas Driller: Layne Texas Co.		
Well ST-40-24-802			Soil	15	15
Owner: State of Texas Driller: Layne Texas Co.			Sand	30	45
Soil	3	3	Blue shale and yellow clay	57	102
Sandy clay	6	9	Blue shale	91	193

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-30-201			Well ST-40-30-301—Continued		
Owner: Boots Yankie Driller: Hervey Meadows and Son Well Driller			Sand	10	1,050
Soil	3	3	Shale	16	1,066
White limestone	9	12	Sand	60	1,126
Yellow clay	8	20	Well ST-40-30-302		
Gray limestone	85	105	Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.		
Gray shale	30	135	Topsoil	5	5
White limestone	100	235	Clay	7	12
Gray shale	80	315	Shale	10	22
Black shale	90	405	Lime and shale	43	65
Gray shale	20	425	Lime	371	436
White limestone (Glen Rose)	565	990	Lime and shale	54	490
Hensell sand	70	1,060	Limestone	32	522
Well ST-40-30-202			Soft limestone	161	683
Owner: Baylor University Recreation Camp Driller: Hervey Meadows and Son Well Driller			Limestone	253	936
Soil	4	4	Sandy limestone	15	951
Blue limestone	16	20	Shale	51	1,002
Gray limestone	100	120	Limestone	52	1,054
White limestone	95	215	Sand	9	1,063
White limestone and black shale	235	450	Trinity water sand	77	1,140
White limestone	550	1,000	Well ST-40-30-603		
Trinity sand (Hensell)	75	1,075	Owner: Speegleville School Driller: J. L. Myers Sons		
Well ST-40-30-301			Surface soil	6	6
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Clay	14	20
Topsoil	3	3	Gravel	3	23
Gravel	4	7	Clay	17	40
Limestone	68	75	Lime	48	88
Shale	6	81	Broken lime	98	186
Soft limestone	34	115	Lime	114	300
Limestone	194	309	Broken lime	760	1,060
Blue shale	49	358	Broken lime and sand	38	1,098
Limestone	142	500	Sand and lime streaks	19	1,117
Shale and limestone	124	624	Broken sand	11	1,128
Limestone	295	919	Hard sand	18	1,146
Soft limestone	121	1,040			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-30-604			Well ST-40-30-607		
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Owner: E. M. Davis Driller: Hervey Meadows and Son Well Driller		
Topsoil	4	4	Soil	3	3
Gravel	26	30	Yellow clay, little gravel	14	17
Limestone	145	175	White rock	14	31
Soft limestone	87	262	Blue rock	64	95
Hard limestone	141	403	White rock	70	165
Shale and rock	564	967	Hard, blue-brown rock	205	370
Soft limestone	115	1,082	Blue shale	25	395
Sand	89	1,171	White rock	20	415
Well ST-40-30-605			Black shale	55	470
Owner: Bud Curtain Driller: Hervey Meadows and Son Well Driller			Glen Rose lime	600	1,070
Black soil	4	4	Green shale	7	1,077
Yellow clay	13	17	Trinity sand	53	1,130
White rock	13	30	Well ST-40-30-901		
Blue rock	42	72	Owner: M. M. O'Dowd Driller: J. L. Myers Sons		
White rock	59	131	Surface soil	3	3
Hard, white rock	189	320	Clay, gravel	12	15
Blue shale	55	375	Lime	37	52
White rock	20	395	Lime, shale	123	175
Black shale	65	460	Broken lime	97	272
Glen Rose lime	610	1,070	Lime and shale	608	880
Trinity sand	50	1,120	Broken lime	83	963
Well ST-40-30-606			Lime	9	972
Owner: Dr. Paul C. Murphy Driller: Hervey Meadows and Son Well Driller			Sandy lime	12	984
Soil	4	4	Lime	46	1,030
White rock	5	9	Sand	59	1,089
Yellow clay	12	21	Broken lime	96	1,185
White rock	11	32	Red bed	12	1,197
Blue rock	58	90	Broken sand	32	1,229
White rock	215	305	Sandy lime	13	1,242
Hard, blue rock	65	370	Sand	9	1,251
White lime	20	390	Sandy lime	19	1,270
Black shale	80	470	Sand	22	1,292
Glen Rose lime	590	1,060	Clay	20	1,312
Trinity sand	70	1,130	Broken sand	23	1,335
			Black shale	25	1,360

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-101			Well ST-40-31-101—Continued		
Owner: City of Waco Driller: Layne Texas Co.			Sand		
Black surface soil	5	5		21	1,490
Yellow clay and sand	16	21	Hard lime and sand	8	1,498
Hard, lime rock	4	25	Hard lime and lime streaks	87	1,585
Hard, gray shale	73	98	Hard lime and shale	15	1,600
Hard, gray lime	64	162	Well ST-40-31-102		
Hard, gray lime streaks and gray shale	97	259	Owner: City of Waco Driller: Layne Texas Co.		
Hard sand and shell	3	262	Black surface soil	5	5
Hard, gray lime rock and gray shale	12	274	Yellow clay and sand	16	21
Hard, gray lime	159	433	Hard, lime rock	5	26
Hard, gray shale and gray lime	250	683	Hard, gray shale	26	52
Hard, gray lime and gray shale	124	807	Lime rock (very hard)	5	57
Soft, gray shale and gray shale	3	810	Sandy clay	5	62
Hard, gray lime	96	906	Hard, gray shale	27	89
Crystalized shale and lime and gray shale	3	909	Hard, brown lime and gray shale	64	153
Hard, gray lime	103	1,012	Hard, gray shale and hard lime	121	274
Hard, gray lime, thin streaks hard sand and shale (very rough)	49	1,061	Lime shell and lime rock	15	289
Hard, gray shale and gray lime	142	1,203	Hard, gray lime rock	3	292
Fine, gray sand - cut good	27	1,230	Hard, gray lime and gray shale	465	757
Fine, gray sand, streaks	10	1,240	Shale and sand streaks and gray shale	4	761
Hard, gray shale and lime, streaks of fine sand	27	1,267	Hard, gray lime	139	900
Hard, gray shale	52	1,319	Hard, gray lime rock	8	908
Fine, gray sand	19	1,338	Shale, sand streaks	6	914
Hard, gray shale and lime, streaks of gray sand	19	1,357	Hard, gray lime and hard, gray shale	80	994
Hard, gray lime rock	4	1,361	Hard, gray lime rock	17	1,011
Fine, gray sand	5	1,366	Hard, gray shale, streaks of lime	67	1,078
Hard, pink shale and lime streaks	21	1,387	Hard, gray lime and hard, gray shale	48	1,126
Hard, gray shale and lime	9	1,396	Sand, streaks of shale	4	1,130
Broken sand and shale	37	1,433	Hard, gray lime rock	39	1,169
Hard shale	5	1,438	Hard, gray lime, layers shale	18	1,187
Broken sand and shale	31	1,469	Sand (cut good)	3	1,190
			Hard lime	2	1,192
			Fine, gray sand (cut good)	20	1,212
			Fine, gray sand, lime and shale	10	1,222

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-102—Continued			Well ST-40-31-403—Continued		
Hard, lime rock	2	1,224	Shale	76	416
Hard, gray shale, streaks sand and lime	31	1,255	Limestone	542	958
Hard, gray shale and lime	60	1,315	Soft limestone	135	1,093
Fine, gray sand and streaks sand and lime	15	1,330	Sand	99	1,192
Hard shale and lime	12	1,342	Well ST-40-31-501		
Hard, gray shale and lime	37	1,379	Owner: City of Waco Driller: J. L. Myers Sons		
Sand, shale streaks	10	1,389	Rock	146	146
Hard, gray shale and lime	19	1,408	Rock and shale	466	612
Sand, broken with shale and lime	20	1,428	Lime	520	1,132
Hard shale	10	1,438	No record	110	1,242
Sand (cut good)	18	1,456	Lime and shale	121	1,363
Sand, hard lime and shale	19	1,475	Lime	156	1,519
Hard, gray lime	4	1,479	No record	80	1,599
Hard, gray and pink shale and lime	21	1,500	Lime	65	1,664
Hard, gray lime and shale with streaks of hard, fine sand	40	1,540	Sand	26	1,690
Well ST-40-31-402			Sandy lime	34	1,724
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Lime	51	1,775
Topsoil	5	5	No record	55	1,830
Clay	12	17	Lime	4	1,834
Gravel	7	24	Sandy lime	16	1,850
Gray shale	66	90	Lime	46	1,896
Limestone	462	552	Sand	14	1,910
Soft limestone	422	974	Shale	12	1,922
Shale	21	995	Sandy lime	48	1,970
Limestone	127	1,122	Sand and lime	78	2,048
Trinity water sand	62	1,184	Shale	12	2,060
Well ST-40-31-403			Lime and shale	51	2,111
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Sandy lime	40	2,151
Topsoil	6	6	Well ST-40-31-503		
Gravel	14	20	Owner: City of Waco Driller: E. B. Case		
Clay	10	30	Black soil	5	5
Shale	4	34	White shale rock and chalk	20	25
Limestone	306	340	Blue-gray lime rock, solid	80	105
			Brown lime rock, very hard	10	115
			Light gray lime rock, solid	70	185
			Nearly white rock	40	225

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-503—Continued			Well ST-40-31-504—Continued		
Blue rock	225	450	Sand with red and blue shale layers	59	2,055
Blue soapstone or slate	300	750	Hard, sandy shale	5	2,060
White rock with shale, gray mud	200	950	Sand	11	2,071
Soapstone (slate)	15	965	Shale	29	2,100
White rock	35	1,000	Hard, sandy shale	16	2,116
White rock with shale, gray mud	95	1,095	Hard sand	14	2,130
White, hard rock	555	1,650	Shale	4	2,134
Honeycomb rock, Trinity sand	52.8	1,702.8	Sandy shale	16	2,150
Well ST-40-31-504			Well ST-40-31-602		
Owner: City of Waco Driller: Layne Texas Co.			Owner: Concord Laundry Driller: J. L. Myers Sons		
Black soil	4	4	Sand and gravel	2	2
Yellow clay	2	6	White dirt	8	10
Rock	16	22	Gravel and sand	8	18
Blue shale	2	24	Rock and shale	177	195
Chalk	121	145	Sandy shale	31	226
Hard shale	29	174	Shale	264	490
Lime and hard shale	95	269	Lime	61	551
Hard, blue shale	113	382	Rock	77	628
Hard, gray shale	178	560	Lime	118	746
Lime and hard shale	1,051	1,611	No record	236	982
Sandy shale	16	1,627	Sandy lime and shale	278	1,260
Sandy shale and lime	67	1,694	Sandy shale and lime	18	1,278
Lime	6	1,700	Lime	256	1,534
Sandy shale	9	1,709	Sandy lime	70	1,604
Sticky shale	15	1,724	Lime and shale	63	1,667
Fine sand and shale	24	1,748	Lime	57	1,724
Shale and sand layers	38	1,786	Sandy	39	1,763
Sand and lime layers	39	1,825	Sand and lime	52	1,815
Hard, sandy shale	39	1,864	Sandy lime	41	1,856
Sand and shale layers	16	1,880	Lime	63	1,919
Hard shale	22	1,902	Sand	52	1,971
Sand and red shale	7	1,909	Sand	117	2,088
Sand and hard shale	4	1,913	Lime	6	2,094
Sand with red and blue layers	56	1,969			
Sand and shale layers	27	1,996			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-605			Well ST-40-31-705		
Owner: — Gray Driller: — Bell			Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons		
Soil and gravel	23	23	Surface soil	13	13
Austin chalk and lime	137	160	Rock	33	46
Blue marl and shale	460	620	Shale	138	184
Limestone and marl	380	1,000	Lime and shale	1,041	1,225
Soft, blue shale	200	1,200	Sand with streaks of shale	59	1,284
Soft lime with mineral water	75	1,275	Shale	14	1,298
Hard, white lime	425	1,700	Well ST-40-31-706		
Hard lime, water, shale breaks	100	1,800	Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons		
White sand, water-bearing	50	1,850	Surface soil	3	3
Shale and shell	120	1,970	Sandy chalk	28	31
Sand with second water	213	2,183	Lime and shale	149	180
Red, blue shale with hard shell	80	2,263	Lime	232	412
Well ST-40-31-702			Lime and shale	659	1,071
Owner: Midway Water Co. Driller: J. L. Myers Sons			Shale	184	1,255
Surface soil	2	2	Sand with streaks of shale	33	1,288
Chalk rock	121	123	Sand	14	1,302
Chalk	108	231	Shale	2	1,304
Shale	242	473	Sand	8	1,312
Lime	105	578	Shale	17	1,329
Lime and shale	715	1,293	Well ST-40-31-802		
Lime and shale streaks	84	1,377	Owner: Bryan-Maxwell-Bryan Driller: Layne Texas Co.		
Sandy lime	58	1,435	Soil	3	3
Broken lime and shale	186	1,621	Chalk	183	186
Lime	7	1,628	Shale	347	533
Sand and shale	14	1,642	Lime	55	588
Shale and lime	67	1,709	Lime and shale	44	632
Sand and sand rock	30	1,739	Lime	904	1,536
Shale	30	1,769	Shale	14	1,550
Sand	4	1,773	Shale and lime	14	1,564
Shale	29	1,802	Lime	27	1,591
Sand	32	1,834	Sand, lime and shale	31	1,622
Sandy lime	31	1,865	Soft sand	20	1,642
Sand	55	1,920	Sand and lime	10	1,652
Sandy lime	16	1,936	Sand, soft	17	1,669

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-802—Continued			Well ST-40-31-804—Continued		
Sand and lime	25	1,694	Broken shale	47	1,711
Sand and lime	6	1,700	Broken lime	55	1,766
Shale	14	1,714	Broken sand	98	1,864
Shale and layers of sandy shale	20	1,734	Shale	6	1,870
Shale	30	1,764	Well ST-40-31-902		
Shale and sand	6	1,770	Owner: City of Waco Driller: Fowler Construction		
Shale and red bed	17	1,787	No record	1,808	1,808
Sand	18	1,805	Sandstone	54	1,862
Sand, lime and shale	4	1,809	Shale	4	1,866
Sand, shale and red bed	16	1,825	Sandstone	28	1,894
Shale	22	1,847	Limestone	12	1,906
Sandy shale	3	1,850	Gravel	3	1,909
Shale	6	1,856	Sandstone	171	2,080
Sand	16	1,872	Black sand	131	2,211
Sand and shale	34	1,906	Rock	59	2,270
Sand	12	1,918	Red shale	82	2,352
Shale	5	1,923	Shale	8	2,360
Sand	37	1,960	Rock	50	2,410
Shale	4	1,964	Well ST-40-32-102		
Sand and shale breaks	7	1,971	Owner: City of Bellmead Driller: Layne Texas Co.		
Shale (hard)	8	1,979	Soil and clay	15	15
Shale (sandy)	29	2,008	Gravel	5	20
Shale	12	2,020	Shale	10	30
Sandy shale	9	2,029	Blue shale	54	84
Shale (hard)	11	2,040	Shale and lime	220	304
Well ST-40-31-804			Shale	264	568
Owner: Midway Water Co. Driller: J. L. Myers Sons			Shale and lime streaks	123	691
Surface soil	9	9	Lime	25	716
Chalk rock	159	168	Lime and shale	48	764
Shale	292	460	Lime and hard shale	37	801
Broken lime	114	574	Lime and shale	429	1,230
Lime	66	640	Soft lime and shale	198	1,428
Broken lime	35	675	Shale and lime	432	1,860
Lime	142	817	Shale and sandy shale	25	1,885
Broken lime	798	1,615	Sand and sandy shale breaks	40	1,925
Broken sand	49	1,664			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-102—Continued			Well ST-40-32-103—Continued		
Hard shale	51	1,976	Broken lime	45	1,478
Lime and shale	18	1,994	Sand	13	1,491
Hard shale and lime	33	2,027	Broken lime and sand	94	1,585
Hard shale	23	2,060	Lime	211	1,796
Shale and lime	59	2,109	Broken lime	94	1,890
Shale and sand	26	2,135	Sand	70	1,960
Hard shale	4	2,139	Broken sand	41	2,001
Sand and shale layers	9	2,148	Lime and shale	77	2,078
Hard sand	10	2,158	Sand and shale	102	2,180
Sand, thin shale layers	27	2,185	Broken sand	140	2,320
Hard shale	8	2,193	Shale	21	2,341
Sandy shale	24	2,217	Broken sand	29	2,370
Sand and shale breaks	15	2,232	Lime	26	2,396
Hard shale	16	2,248			
Sand	12	2,260	Well ST-40-32-104		
Broken sand	22	2,282	Owner: City of Lacy-Lakeview Driller: J. L. Myers Sons		
Hard, sandy shale	14	2,296	Surface soil and gravel	38	38
Hard shale	7	2,303	Shale	687	725
			Chalk rock	169	894
			Shale	76	970
			Shale	10	980
			Broken lime	70	1,050
			Shale and lime	780	1,830
			Shale	263	2,093
			Shale and red bed	67	2,160
			Broken sand	43	2,203
			Sand and shale	126	2,329
			Well ST-40-32-201		
			Owner: Frank B. Tirey Driller: J. L. Myers Sons		
			No record	48	48
			Shale	227	275
			Lime	225	500
			Shale	100	600
			No record	152	752
			Shale	188	940
			Lime and shale	168	1,108
			Lime	178	1,286
Well ST-40-32-103					
Owner: City of Bellmead Driller: J. L. Myers Sons					
Surface	8	8			
Clay	12	20			
Gravel	31	51			
Shale	16	67			
Shale and lime	58	125			
Lime	296	421			
Shale	349	770			
Lime	230	1,000			
Broken lime	28	1,028			
Shale and lime	181	1,209			
Broken lime	85	1,294			
Shale and lime	50	1,344			
Lime	36	1,380			
Lime and sand	35	1,415			
Lime	18	1,433			
Lime and sand	35	1,415			
Lime	18	1,433			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-201—Continued			Well ST-40-32-403—Continued		
No record	191	1,477	Layers of shale and fine sand	30	2,114
Lime and shale	123	1,600	Sand, thin layers of shale	26	2,140
Lime	176	1,776	Hard shale	7	2,147
Lime and shale	102	1,878	Sand (good)	21	2,168
Lime	174	2,052	Layers of sand and shale	36	2,204
Lime and shale	58	2,110	Sand and thin shale breaks	40	2,244
Lime	57	2,167	Hard shale	13	2,257
Sandy lime	71	2,238	Sand	8	2,265
Sandy shale	89	2,327	Hard shale	14	2,279
Lime	21	2,348	Sand (hard)	8	2,287
Sand	115	2,463	Hard shale	5	2,292
Broken sand and shale	48	2,511	Sand	4	2,296
			Hard shale	16	2,312
Well ST-40-32-403			Well ST-40-32-404		
Owner: General Tire and Rubber Co. Driller: Layne Texas Co.			Owner: General Tire and Rubber Co. Driller: Layne Texas Co.		
Sandy clay	13	13	Soil and clay	5	5
Sand and gravel	5	18	Gravel and sandy clay	17	22
Gravel, thin shale breaks	4	22	Shale	41	63
Shale	101	123	Shale and hard layers	27	90
Chalk and shale	123	246	Shale and chalk	34	124
Chalk	39	285	Chalk	51	175
Shale and sandy shale	95	380	Chalk and shale	60	235
Shale	271	651	Shale	31	266
Shale and lime	40	691	Shale	9	275
Lime	317	1,008	Lime and shale	65	340
Shale and sandy shale	123	1,131	Blue shale and lime	75	415
Hard lime	15	1,146	Hard lime	5	420
Shale and lime	130	1,276	Shale and sandy shale	75	495
Lime	50	1,326	Shale and lime	22	517
Lime and shale	143	1,469	Shale and sand	35	552
Sandy shale and lime	25	1,494	Shale and sandy shale	53	605
Hard shale and lime	95	1,589	Sandy shale and gravel	38	643
Lime and shale	290	1,879	Shale and lime	52	695
Sandy shale and lime	9	1,888	Lime	210	905
Glen Rose sand	37	1,925	Hard lime and shale	154	1,059
Hard, sandy shale	16	1,941	Shale and lime	21	1,080
Hard shale	104	2,045			
Shale, layers of sand	39	2,084			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-404—Continued			Well ST-40-32-405—Continued		
Sandy shale and shale	60	1,140	Medium hard, light bluish rock	2	1,000
Shale and lime	48	1,188	Blue shale, medium hard	25	1,025
Shale and sandy shale	22	1,210	Hard, white rock	50	1,075
Lime and shale	260	1,470	Medium hard rock and light blue shale	95	1,170
Sandy lime and shale	53	1,523	Medium hard, blue shale	60	1,230
Shale and sandy lime	143	1,666	Hard, white rock	85	1,315
Hard, sandy lime	21	1,687	Hard, white rock, lump without cavings was balled up to the end of the bit	45	1,360
Hard lime and shale	129	1,816	Hard, white rock	105	1,465
Shale and lime	33	1,849	Medium hard, white rock	32	1,497
Shale and sandy shale	54	1,903	Hard, white rock	73	1,570
Sandy shale and sand	77	1,980	Medium hard, white rock, some water	25	1,595
Black shale	33	2,013	Hard, white rock	13	1,608
Sandy lime	15	2,028	Medium hard, white rock	50	1,658
Hard shale and lime	65	2,093	Hard, white rock	13	1,608
Red and blue shale with sand breaks	25	2,118	Medium hard, white rock	50	1,658
Hard shale	10	2,128	Medium hard, white rock, balled up on end of drill	6	1,664
Hard shale and sandy shale	36	2,164	Medium hard, white rock	26	1,690
Sand	5	2,169	Medium hard, white rock, with red particles	24	1,714
Shale	9	2,178	Medium hard and some fairly hard, white rock with little water	26	1,740
Sand and layers of shale	38	2,216	Traces of sand at 1,775 ft to 1,783 ft	40	1,780
Sand and hard layers	92	2,308	Sand rock	5	1,785
Hard shale	16	2,324	Sand rock, bluish gray and white marl	25	1,810
Hard, sandy shale	17	2,341	Gray sand, with red specks, water sand	30	1,840
Sandy shale and sand	18	2,359	Light gray sand, with layers sand rock, bluish gray	6	1,846
Sand and shale layers	15	2,374	Shale, close and sticky	84	1,930
Shale	2	2,376	Alternate layers lime rock and light blue shale	8	1,938
Well ST-40-32-405			Blue marl, sandy, sticky	2	1,940
Owner: Texas Power and Light Co. Driller: Hill, Green, Dearing and Son			Hard, bluish gray sand rock, very hard	8	1,948
Surface	40	40	Red shale, fine sand, little water	10	1,958
Hard, white rock mixed with layers of blue shale	192	232			
Bluish shale, medium hard	186	418			
Hard, white rock, including lump of extra hard white rock found in layers	217	635			
Hard, white rock	245	880			
Hard, white rock	115	995			
Medium hard, white rock	3	998			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-602—Continued			Well ST-40-37-603—Continued		
Broken lime	98	118	Clay	4	13
Hard lime	37	155	White rock	9	22
Shale and lime	26	181	Blue rock	33	55
Hard lime rock	1	182	White lime	60	115
Broken lime	7	189	Hard sand (little water)	11	126
Lime	25	214	Edwards lime	54	180
Broken lime	21	235	Gray shale	20	200
Blue shale	13	248	White lime	60	260
Shale and hard layers	19	267	Blue shale	54	314
Broken layers rock	4	271	Shale	2	316
Shale and lime	99	370	Lime shale	34	350
Lime and shale	79	449	White lime	82	432
Sandy lime	66	515	Water sand	5	437
Lime and shale	18	533	Glen Rose lime	453	890
Sandy lime	117	650	Gray shale	10	900
Lime and shale	10	660	Lime rock	68	968
Lime	33	693	Sand	50	1,018
Lime and shale	102	795	Black shale	10	1,028
Lime	103	898			
Sandy lime	46	944	Well ST-40-37-604		
Sandy lime and shale	13	957	Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.		
Sandy shale	25	982			
Sand	32	1,014	Black soil	4	4
Shale and layers of sand	38	1,052	Rock	11	15
Red bed	11	1,063	Hard and soft gray lime	125	140
Fine, white sand	9	1,072	White lime	60	200
Hard, blue shale	18	1,090	Shale and lime	18	218
Hard shale	15	1,105	Gray lime	52	270
Shale, lime, and red bed	31	1,136	Shale	15	285
Shale and sandy shale	14	1,150	Lime and shale	85	370
Lime	10	1,160	Sandy lime	16	386
Sandy shale	20	1,180	Blue shale and lime	32	418
Shale	23	1,203	Gray lime	14	432
Blue shale	47	1,250	Blue shale	13	445
			Lime	23	468
Well ST-40-37-603			Water sand	12	480
Owner: City of McGregor Driller: Hervey Meadows and Son Well Driller			White lime	56	536
Soil	1	1			
Rock	8	9			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-604—Continued			Well ST-40-37-801—Continued		
Lime and breaks of shale	42	578	Hard, gray lime	38	248
Shale	3	581	White lime and shale	9	257
Hard lime	35	616	Dark gray shale and lime	28	285
Shale	9	625	Blue shale and breaks of lime	36	321
Lime and shale	53	678	Hard, gray lime	14	335
Sandy lime	12	690	Blue shale and lime	9	344
Lime	12	702	Hard, gray lime	27	371
Shale	8	710	Blue shale and lime shells	22	393
Lime	6	716	Hard lime and shells	47	440
Shale	8	724	Gray, sandy lime	28	468
Lime	16	740	White shale and gray lime	35	503
Shale	23	763	Blue shale and lime	7	510
Lime (Glen Rose)	12	775	Gray, sandy lime	51	561
Hard, sandy lime, water	30	805	Dark gray shale and lime	8	569
Lime	14	819	Gray lime and shale	33	602
Shale	4	823	Light gray, sandy lime	33	635
Hard lime and shale	28	851	Broken sand	16	651
Gray lime and shale	11	862	Gray, sandy lime	49	700
Hard lime	52	914	Soft, shell lime	18	718
Soft lime	4	918	Light, sandy lime - soft shell	34	752
Lime and shale	5	923	Hard, sandy lime	46	798
Shells and shale	7	930	Hard lime and shale	14	812
Lime	19	949	Gray, sandy lime	18	830
Hard shells and shale	12	961	Gray shale and lime	80	910
Water - sand	54	1,015	Gray, sandy shale	11	921
Shale	29	1,044	Hard, gray lime	6	927
Well ST-40-37-801			Gray shale and lime	19	946
Owner: North American Rockwell Corp., Rocketdyne Div.			Hard gray lime	20	966
Driller: Layne Texas Co.			Green shale	5	971
Rock and white lime	7	7	First Trinity water sand	51	1,022
Lime, shell, and clay	13	20	Sandy shale	25	1,047
Blue-gray lime	12	32	Gray, sandy lime	18	1,065
Gray lime and shale	88	120	Fine, sandy lime	13	1,078
Dark and white lime	5	125	Gray lime	11	1,089
Hard, white lime	17	142	Dark, sandy lime	24	1,113
Dark white lime	6	148	Dark, cave shale and lime	77	1,190
Hard, gray lime	39	187			
Gray lime and shale	23	210			

Table 3.--Drillers' Logs of Selected Wells in McLennan County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-802			Well ST-40-37-803		
Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.			Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.		
Black dirt	1	1	Black dirt	4	4
Hard, white lime	22	23	Lime shales and clay	21	25
Blue-white lime	12	35	Gray lime	18	43
Gray lime and shale	77	112	Gray lime and shale	24	67
Light gray lime	38	150	Hard, gray lime	55	122
Hard, white lime	18	168	White lime	28	150
Hard, gray lime	32	200	Hard, gray lime	23	173
Gray lime and shale	15	215	Gray lime and shale	22	195
Hard, gray lime	30	245	Gray shale	20	215
White lime	12	257	Gray lime and shale	30	245
Gray lime and shale	33	290	Light lime and shale	22	267
Blue shale and lime	101	391	Dark lime and shale	30	297
Hard, gray lime and shale	51	442	Blue shale	33	330
Sandy lime and shale	28	470	Lime and flintrock	5	335
Hard, gray lime and shale	35	505	Hard, blue lime	33	368
White shale and gray lime	28	533	Gray lime and shale	107	475
Gray, sandy lime	24	557	Gray, sandy lime	26	501
Dark gray shale and lime	23	580	Gray lime and shale	99	600
Gray lime and shale	15	595	Gray, sandy lime and shale	65	665
Gray, sandy lime	37	632	Gray lime and shale	135	800
Gray, sandy lime and shale	68	700	Dark lime and shale	75	875
Soft shale and lime	45	745	Gray lime and shale	17	892
Gray, sandy lime	35	780	Hard, gray lime	23	915
Gray, sandy lime and shale	30	860	Gray, sandy lime and shale	15	930
Gray shale and lime	49	909	Hard, gray lime	25	955
Gray, sandy lime	10	919	Dark lime and shale	7	962
Hard, gray lime and shale	15	934	Trinity sand	30	992
Green shale and lime	15	949	Sand and breaks of shale	21	1,013
Gray, sandy lime and green shale	11	960	Went out of sand at 1,010 ft marking 48 ft of sand		
First Trinity sand	56	1,006	Dark shale and lime	47	1,060
Trinity sand and blue shale	13	1,019	Red shale	5	1,065
Sandy, blue shale	25	1,044	Gray lime and shale	16	1,081
Gray, sandy lime and shale	2	1,046	Hard, gray lime	19	1,100
			Hard, dark lime	101	1,201

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-804			Well ST-40-38-301		
Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.			Owner: H. G. McKethan Driller: R. C. Smith and Falcon Oil Corp.		
Black soil	3	3	Soil	3	3
Yellow clay	4	7	Clay	7	10
Hard lime	23	30	Lime	20	30
Hard lime (gray) and shale	97	127	Lime and sand	100	130
Hard limestone	5	132	Lime	283	413
Edwards lime	6	138	Lime and shale	277	690
White lime	12	150	Lime	50	740
Hard, gray lime and shale	55	205	Shale	20	760
Gray shale	5	210	Lime	25	785
Dark lime and shale	80	290	Shale and lime	20	805
Blue shale and lime	15	305	Shale	30	835
Lime and flint rock	10	315	Lime	65	900
Dark shale	5	320	Shale	35	935
Lime and shale	45	365	Lime and shale	60	995
Gray shale and lime	10	375	Lime	46	1,041
Sandy lime and shale	10	385	Sand and shale	81	1,122
Lime and shale	53	438	Shale	83	1,205
Gray shale and lime	32	470	Sandy shale	130	1,335
Gray, sandy lime and shale breaks	63	533	Shale	148	1,483
Dark lime and shale	7	540	Bent shale	19	1,502
Light lime and shale	15	555	Shale	101	1,603
Dark shale and lime	10	565			
Sandy lime and shale	135	700	Well ST-40-38-303		
Dark shale and lime	5	705	Owner: Brazos Concrete Products, Inc. Driller: C. M. Stoner Drilling Co.		
Gray shale and lime	25	730	Soil	1	1
Gray, sandy lime and blue shale	90	820	Yellow clay and rock	14	15
Soft, light, sandy shale	15	835	Blue shale	55	70
Dark lime and shale	10	845	White rock	1,090	1,160
Hard, gray lime and shale	31	876	Sand	75	1,235
Hard, gray lime	14	890	Shale and broken sand	65	1,300
Gray, sandy lime and shale	30	920	Red bed	10	1,310
Dark lime and shale	37	957	Sandy shale	10	1,320
Trinity sand (good)	100	1,057	Sand	120	1,440
Dark shale and lime	5	1,062			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-38-801			Well ST-40-39-104—Continued		
Owner: Spring Valley Water Supply Corp. Driller: C. M. Stoner Drilling Co.			Lime and broken shale 260 1,220		
Soil	1	1	Sand and lime (Glen Rose)	180	1,400
Clay and rock	14	15	Sand	170	1,570
Blue rock	55	70	Sand	302	1,872
Blue shale	60	130	Well ST-40-39-107		
White rock	970	1,100	Owner: Universal Atlas Cement Co. Driller: Texas Water Wells		
Shale	23	1,123	Chalk rock	25	25
Rock	32	1,155	Lime and shale streaks	70	95
Sand	165	1,320	Shale	83	178
Sandy shale	40	1,360	Sandy shale	38	216
Red bed	26	1,386	Shale and lime	32	248
Sand	34	1,420	Shale and broken lime	86	334
Red bed	8	1,428	Shale and lime	80	414
Sand	22	1,450	Lime	51	465
Yellow shale	10	1,460	Broken lime	82	547
Well ST-40-39-103			Lime and shale streaks	26	573
Owner: Luther Herring Driller: Hervey Meadows and Son Well Driller			Lime	241	814
Soil	3	3	Sand	66	880
White rock	22	25	Lime	338	1,218
Blue rock	15	40	Lime and shale streaks	208	1,426
White, hard lime	150	190	Shale	74	1,500
Blue-black shale	420	610	Lime	35	1,535
White rock	60	670	Sandy lime	8	1,543
Blue, hard rock	150	820	Sand	130	1,673
Blue, soft shale	90	910	Red bed	15	1,688
Glen Rose shale	600	1,510	Sand	80	1,768
Trinity sand	60	1,570	Well ST-40-39-203		
Well ST-40-39-104			Owner: Dr. Barnes Driller: J. L. Myers Sons		
Owner: Midway School Driller: J. L. Myers Sons			Clay	23	23
Austin chalk	150	150	Limestone	7	30
Shale	350	500	Limestone and shale	54	84
Lime	70	570	Chalk rock	135	219
Sand	50	620	Shale	76	295
Broken sand and lime	150	770	Shale and limestone	180	475
Shale	190	960	Shale	85	560
			Limestone	343	903

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-39-203—Continued			Well ST-40-39-302—Continued		
Limestone and shale	117	1,020	No record	262	1,265
Limestone	85	1,105	Broken lime	65	1,330
Limestone and shale	98	1,203	Lime	20	1,350
Limestone	265	1,468	Sand	30	1,380
No record	139	1,607	No record	13	1,393
Limestone and shale	112	1,719	Lime and sandy lime	126	1,519
Limestone	45	1,764	Broken lime and shale	7	1,526
Sandy shale and limestone	67	1,831	Sandy lime	152	1,678
Shale	19	1,850	Lime	7	1,685
Sandy shale and sand	90	1,940	Sand	85	1,770
Sand	100	2,040	Shale	17	1,787
Sandy limestone	42	2,082	Sand	69	1,856
			Sand and lime	11	1,867
			Sand	198	2,065
			Sand with shale	20	2,085
			Red bed	11	2,096
Well ST-40-39-204			Well ST-40-39-503		
Owner: C. H. McLemore Driller: C. M. Stoner Drilling Co.			Owner: Poweram Oil Co. Driller: C. M. Stoner Drilling Co.		
Soil	3	3	Soil	1	1
White rock	77	80	Chunk rock	3	4
Blue shale	205	285	White rock	211	215
Brown shale	55	340	Blue shale	245	460
Sandy shale	80	420	White rock	1,120	1,580
Blue shale	65	485	Sand	130	1,710
White rock	1,103	1,588	Red bed	10	1,720
Sand	62	1,650	Broken sand and sandy shale	75	1,795
Gray shale	88	1,738	Sand	85	1,880
Sand	176	1,914	Red bed	15	1,895
			Sand	65	1,960
Well ST-40-39-302			Well ST-40-39-702		
Owner: Waco Memorial Park Driller: J. L. Myers Sons			Owner: Lorena Water Supply Corp. Driller: J. L. Myers Sons		
Clay	15	15	Surface soil (clay)	27	27
Clay and shale	25	40	Shale	9	36
Shale and rock	15	55	Chalk rock	39	75
No record	70	125	Shale	275	350
Chalk rock	95	220	Lime	935	1,285
Rock and shale	17	237	Lime and shale		
Shale and lime	119	356			
Shale	223	579			
Lime	386	965			
Lime and shale	38	1,003			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-39-702—Continued			Well ST-40-39-801—Continued		
Broken lime	125	1,410	Broken lime and shale	106	1,636
Sand	60	1,470	Lime	18	1,654
Sand and shale	185	1,655	Sand no show	6	1,660
Sand	85	1,740	Shale and lime streaks	12	1,672
Sand and shale	74	1,814	Sandy lime and sand streaks	14	1,686
Lime	74	1,888	Lime	14	1,700
Well ST-40-39-801			Well ST-40-40-103		
Owner: C. B. Warren and H. C. Warren Driller: Gray Oil Co.			Owner: Weldon Youngblood Driller: J. L. Myers Sons		
Caliche	157	157	Sand	2	2
Shale	243	400	Clay and gravel	13	15
Shale	12	412	Sand and gravel	17	32
Shale	55	467	Shale	268	300
Lime, broken	147	614	Lime	86	386
Lime	61	675	Lime and shale	588	974
Shale	20	695	Lime	156	1,130
Lime	11	706	Broken lime	132	1,262
Shale and shells	37	743	Lime	313	1,575
Lime	21	764	Broken lime	126	1,701
Shale	21	785	No record	34	1,735
Lime and shale streaks	57	842	Lime	2	1,737
Lime, broken	196	1,038	Sand and lime	74	1,811
Shale and lime streaks	60	1,098	Lime	109	1,920
Broken lime	26	1,124	Broken lime and shale	35	1,955
Shale and shells	29	1,153	Lime	37	1,992
Broken lime and shale	85	1,238	Sandy	21	2,013
Shale and shells	32	1,270	Lime	22	2,035
Shale and lime	17	1,287	Sand	78	2,113
Shale, lime streaks	29	1,316	Lime	99	2,212
Lime, hard	14	1,330	Broken sand and lime	73	2,285
Shale and lime	60	1,390	Broken sand	55	2,340
Lime	10	1,400	Lime and shale	43	2,383
Lime and shale	28	1,428	No record	45	2,428
Broken lime	13	1,441	Broken shale	52	2,480
Shale and lime	27	1,468			
Shale	10	1,478			
Lime	37	1,515			
Shale and lime	15	1,530			
			Well ST-40-40-401		
			Owner: Robinson Water Co. Driller: J. L. Myers Sons		
			Surface soil	40	40
			Shale	291	331

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-40-401—Continued			Well ST-40-46-402—Continued		
Chalk rock	89	420	Lime	38	357
Shale	430	850	Lime with streaks of shale	83	440
Lime	487	1,337	Lime and shale	99	539
Broken lime	125	1,462	Lime	23	562
Lime	135	1,597	Lime	18	580
Broken lime	341	1,938	Lime	75	655
Shale and sand	247	2,185	Lime	74	729
Sand	30	2,215	Lime and shale	102	831
Broken sand	200	2,415	Lime	63	894
Red bed	10	2,425	Lime	60	954
Sand	45	2,470	Lime and shale	64	1,018
Red bed	30	2,500	Lime and shale	67	1,085
Well ST-40-46-101			Sand	33	1,118
Owner: Rolling Hills Country Club			Lime	67	1,185
Driller: Key Water Well Drilling — Development Co.			Lime	12	1,197
Lime	249	249	Sand	54	1,251
Sandy lime	51	300	Lime	28	1,279
Sand	35	335	Broken shale and lime	77	1,356
Sandy lime	47	382	Shale and lime	29	1,385
Lime	251	633	Sand	46	1,431
Sandy lime	344	977	Broken sand and lime	50	1,481
Sand	288	1,265	Lime	13	1,494
Lime	155	1,420	Well ST-40-46-403		
Sand	80	1,500	Owner: City of Moody Driller: J. L. Myers Sons		
Well ST-40-46-402			Surface soil	6	6
Owner: City of Moody			Clay	14	20
Driller: J. L. Myers Sons			Shale	160	180
Surface soil	8	8	Chalk	151	331
Gravel	7	15	Broken rock and shale	283	614
Sand and gravel	10	25	Shale	16	630
Rock	45	70	Sandy lime	283	913
Hard lime	13	83	Lime	126	1,039
Hard lime	67	150	Sandy lime	61	1,100
Shale	13	163	Lime	115	1,215
Lime	80	243	Sand and shale	219	1,434
Lime	45	288	Lime	61	1,495
Lime	15	303	Sand	55	1,550
Sandy shale	16	319	Lime	11	1,561

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-46-801			Well ST-40-46-801—Continued		
Owner: Elm Creek Water Supply Corp. Driller: C. M. Stoner Drilling Co.			White rock	1,025	1,355
Soil	1	1	Sand	70	1,425
Rock	59	60	Sandy and red bed	165	1,590
Shale	270	330	Sand	75	1,665
			Yellow shale	15	1,680

MC LENNAN COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well ST-39-17-701		Well ST-39-25-102—Continued		Well ST-40-16-401—Continued	
Owner: Axtell Water Supply Corp.		Nov. 6, 1967	75.19	Feb. 7, 1967	167.41
Apr. 1959	10	Dec. 7, 1967	74.40	June 7, 1967	166.74
Mar. 17, 1965	82.00	Feb. 8, 1968	80.34	July 3, 1967	169.02
Mar. 15, 1966	52.00	Mar. 15, 1968	74.98	Aug. 11, 1967	175.62
Apr. 19, 1967	80.60	Apr. 3, 1969	117.5	Sept. 13, 1967	171.51
Mar. 15, 1968	89.70	Well ST-39-25-501		Oct. 9, 1967	168.90
Apr. 3, 1969	97.99	Owner: City of Mart		Nov. 6, 1967	173.10
Well ST-39-17-901		Mar. 9, 1965	59.6	Dec. 7, 1967	174.57
Owner: Prairie Hill Water Supply Corp.		Mar. 10, 1965	60.60	Jan. 11, 1968	173.10
Feb. 28, 1966	79.79	Apr. 28, 1965	90.00	Feb. 12, 1968	172.37
Apr. 19, 1967	82.78	May 2, 1967	31.53	Mar. 15, 1968	173.90
Mar. 15, 1968	95.50	Mar. 21, 1968	41.23	Apr. 3, 1969	176.02
Apr. 3, 1969	103.31	Apr. 2, 1969	55.74	Well ST-40-16-402	
Well ST-39-25-101		Well ST-39-33-202		Owner: City of West	
Owner: Mt. Carmel Center		Owner: Riesel Municipal Utility District		Apr. 1949	136
Aug. 26, 1966	209.64	Feb. 26, 1964	30.00	Nov. 1960	218
Sept. 30, 1966	212.33	Feb. 28, 1966	22.03	1962	296
Well ST-39-25-102		Mar. 21, 1968	32.80	May 1964	234
Owner: Elk-Oaklake Water Supply Corp.		Apr. 2, 1969	41.03	Apr. 5, 1965	264.84
Feb. 12, 1964	60	Well ST-40-16-401		Nov. 6, 1967	303.0
Mar. 15, 1966	54.98	Owner: City of West		Mar. 15, 1968	310.33
Aug. 25, 1966	61.91	1926	30	Apr. 3, 1969	332.74
Sept. 26, 1966	61.70	Feb. 14, 1932	54	Well ST-40-22-804	
Oct. 31, 1966	62.24	May 17, 1942	67	Owner: S. M. Talbert	
Nov. 30, 1966	63.22	Dec. 30, 1942	66	Mar. 30, 1966	208.27
Dec. 28, 1966	61.94	Jan. 8, 1943	89	Aug. 29, 1966	190.32
Apr. 19, 1967	62.70	Mar. 7, 1966	163.82	Sept. 26, 1966	188.73
June 7, 1967	64.32	Aug. 25, 1966	179.8	Oct. 28, 1966	191.20
July 3, 1967	77.10	Sept. 29, 1966	168.46	Nov. 29, 1966	188.30
Aug. 11, 1967	82.92	Oct. 31, 1966	168.33	Jan. 3, 1967	188.59
Oct. 10, 1967	75.07	Nov. 30, 1966	168.28	Apr. 18, 1967	187.86
		Dec. 28, 1966	167.30	June 7, 1967	187.78
				July 5, 1967	192.52

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well ST-40-22-804—Continued		Well ST-40-24-803—Continued		Well ST-40-29-805—Continued	
Sept. 14, 1967	197.69	Dec. 7, 1967	264.70	Dec. 11, 1967	338.25
Oct. 11, 1967	195.10	Jan. 11, 1968	250.83	Jan. 18, 1968	335.40
Nov. 14, 1967	193.50	Feb. 12, 1968	244.35	Feb. 12, 1968	335.30
Dec. 11, 1967	190.65	Apr. 3, 1969	227.63	Mar. 14, 1968	334.50
Jan. 18, 1968	191.30			Mar. 7, 1969	336.7
Feb. 6, 1968	190.19	Well ST-40-29-601			
Mar. 14, 1968	189.52	Owner: East Crawford Water Supply Corp.		Well ST-40-30-603	
Apr. 10, 1969	193.26	Sept. 12, 1966	207.3	Owner: Speegleville School	
		Oct. 12, 1966	207.5	Mar. 1962	130
Well ST-40-24-301		Oct. 28, 1966	208.14	Mar. 16, 1966	177.94
Owner: Leroy-Tours-Gerald Water Supply Corp.		Jan. 3, 1967	218.52	Aug. 26, 1966	191.08
1958	Flowed	Feb. 8, 1967	218.35	Sept. 30, 1966	187.38
Mar. 2, 1966	80.00	Apr. 18, 1967	218.52	Oct. 28, 1966	186.12
Apr. 19, 1967	53.0	June 6, 1967	224.59	Nov. 30, 1966	187.82
May 11, 1967	52.35	Aug. 11, 1967	225.75	Jan. 3, 1967	185.65
Mar. 21, 1968	65.46	Sept. 14, 1967	225.32	Apr. 18, 1967	186.84
		Nov. 7, 1967	224.12	Aug. 11, 1967	198.41
Well ST-40-24-803		Jan. 18, 1968	234.80	Sept. 14, 1967	195.29
Owner: State of Texas		Feb. 6, 1968	232.48	Nov. 7, 1967	191.20
Feb. 11, 1953	73	Mar. 6, 1969	251.20	Dec. 11, 1967	187.90
Oct. 1957	220			Jan. 18, 1968	188.36
Dec. 1957	187	Well ST-40-29-805		Feb. 6, 1968	187.61
Nov. 25, 1962	300	Owner: City of Crawford		Mar. 14, 1968	185.90
1963	335	Jan. 11, 1965	307.99	Sept. 4, 1968	194.27
Mar. 31, 1964	338.0	May 19, 1965	318.80	Apr. 10, 1969	185.70
Apr. 1, 1964	260.0	Feb. 24, 1966	324.82		
Mar. 2, 1966	253.02	Feb. 25, 1966	330.65	Well ST-40-30-901	
Aug. 25, 1966	277.0	Aug. 29, 1966	334.21	Owner: M. M. O'Dowd	
Sept. 29, 1966	284.92	Sept. 30, 1966	330.83	Nov. 10, 1961	150
Oct. 31, 1966	281.26	Oct. 31, 1966	330.62	Aug. 26, 1966	219.6
Nov. 30, 1966	260.64	Nov. 11, 1966	330.21	Sept. 30, 1966	211.76
Dec. 29, 1966	257.36	Jan. 3, 1967	328.93	Nov. 30, 1966	208.76
Apr. 19, 1967	254.89	Feb. 10, 1967	328.93	Feb. 7, 1967	210.53
June 6, 1967	258	Apr. 18, 1967	329.52	Apr. 18, 1967	206.26
June 23, 1967	278	June 7, 1967	330.45	June 6, 1967	214.27
Aug. 11, 1967	333.11	July 5, 1967	333.60	Aug. 11, 1967	224.65
Sept. 12, 1967	319.73	Sept. 14, 1967	340.38	Sept. 14, 1967	228.42
Oct. 10, 1967	301.88	Oct. 11, 1967	335.66	Nov. 7, 1967	222.83
Nov. 7, 1967	289.49	Nov. 14, 1967	342.95	Dec. 11, 1967	217.60

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well ST-40-30-901—Continued		Well ST-40-31-802—Continued		Well ST-40-31-802—Continued	
Jan. 18, 1968	218.17	June 15, 1964	283.92	Dec. 25, 1964	287.13
Feb. 6, 1968	214.03	June 20, 1964	281.12	Dec. 31, 1964	286.63
Mar. 14, 1968	214.49	June 25, 1964	282.47	Jan. 5, 1965	285.72
Sept. 4, 1968	235.84	June 30, 1964	286.80	Jan. 10, 1965	284.89
Apr. 10, 1969	222.84	July 5, 1964	290.63	Jan. 15, 1965	284.15
Well ST-40-31-102		July 10, 1964	296.00	Jan. 20, 1965	283.31
Owner: City of Waco		July 15, 1964	301.19	Jan. 25, 1965	282.71
Sept. 12, 1942	10	July 20, 1964	304.00	Mar. 5, 1965	277.99
Mar. 31, 1949	23	July 25, 1964	306.99	Mar. 10, 1965	277.95
Mar. 16, 1966	196.80	July 31, 1964	313.53	Mar. 15, 1965	277.34
May 15, 1967	195.56	Aug. 5, 1964	316.72	Mar. 20, 1965	277.77
Mar. 14, 1968	199.23	Aug. 10, 1964	320.63	Mar. 25, 1965	277.30
Sept. 5, 1968	237.10	Aug. 15, 1964	322.53	Mar. 31, 1965	277.24
Apr. 3, 1969	220.77	Aug. 20, 1964	317.42	Apr. 5, 1965	277.86
Well ST-40-31-604		Aug. 25, 1964	313.75	Apr. 10, 1965	277.21
Owner: Buchanan Laundry		Aug. 31, 1964	312.07	Apr. 15, 1965	277.28
May 1959	108	Sept. 5, 1964	315.09	Apr. 20, 1965	278.31
Aug. 1962	94	Sept. 10, 1964	319.43	Apr. 25, 1965	282.02
May 18, 1967	181.43	Sept. 15, 1964	317.70	Apr. 30, 1965	283.78
Mar. 15, 1968	187.58	Sept. 20, 1964	313.10	May 5, 1965	284.97
Apr. 7, 1969	182.82	Sept. 25, 1964	309.12	May 10, 1965	283.95
Well ST-40-31-612		Sept. 30, 1964	306.35	May 15, 1965	282.09
Owner: Pure Milk Co.		Oct. 5, 1964	305.03	May 20, 1965	280.96
1956	100	Oct. 10, 1964	303.22	May 25, 1965	280.26
Dec. 21, 1960	100	Oct. 15, 1964	301.45	May 31, 1965	279.02
July 1963	115	Oct. 20, 1964	300.37	June 5, 1965	279.20
1964	150	Oct. 25, 1964	300.47	June 10, 1965	279.03
Mar. 21, 1968	219.00	Oct. 31, 1964	298.57	June 15, 1965	282.23
May 18, 1968	218.00	Nov. 5, 1964	298.89	June 20, 1965	286.02
Apr. 10, 1969	223.02	Nov. 10, 1964	295.96	June 25, 1965	288.37
Well ST-40-31-802		Nov. 15, 1964	294.92	June 30, 1965	293.54
Owner: Bryan-Maxwell-Bryan		Nov. 20, 1964	293.90	July 5, 1965	298.55
(Recorder well, recorder		Nov. 25, 1964	292.38	July 10, 1965	305.16
installed on May 26, 1964)		Nov. 30, 1964	292.86	July 15, 1965	309.92
May 31, 1964	275.56	Dec. 5, 1964	290.28	July 20, 1965	312.82
June 5, 1964	275.55	Dec. 10, 1964	289.85	July 25, 1965	317.53
June 10, 1964	278.20	Dec. 15, 1964	288.89	July 31, 1965	320.82
		Dec. 20, 1964	288.01	Aug. 5, 1965	322.06

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well ST-40-31-802—Continued		Well ST-40-31-802—Continued		Well ST-40-31-802—Continued	
Aug. 10, 1965	323.60	Mar. 5, 1966	286.56	Sept. 15, 1966	315.64
Aug. 15, 1965	325.28	Mar. 10, 1966	286.70	Sept. 20, 1966	313.81
Aug. 20, 1965	323.93	Mar. 15, 1966	286.20	Sept. 25, 1966	312.45
Aug. 25, 1965	325.75	Mar. 20, 1966	286.12	Sept. 30, 1966	311.85
Aug. 31, 1965	321.76	Mar. 25, 1966	286.23	Oct. 5, 1966	310.48
Sept. 5, 1965	318.25	Mar. 31, 1966	285.09	Oct. 10, 1966	309.11
Sept. 10, 1965	318.83	Apr. 5, 1966	285.63	Oct. 15, 1966	308.37
Sept. 15, 1965	320.77	Apr. 10, 1966	285.87	Oct. 20, 1966	308.07
Sept. 20, 1965	319.62	Apr. 15, 1966	289.49	Oct. 25, 1966	307.76
Sept. 25, 1965	314.98	Apr. 20, 1966	292.59	Oct. 31, 1966	307.58
Sept. 30, 1965	311.82	Apr. 25, 1966	290.60	Nov. 6, 1966	307.08
Oct. 5, 1965	309.10	Apr. 30, 1966	288.47	Nov. 10, 1966	306.42
Oct. 10, 1965	307.02	May 5, 1966	286.95	Nov. 15, 1966	305.97
Oct. 15, 1965	306.02	May 10, 1966	287.95	Nov. 20, 1966	305.29
Oct. 20, 1965	305.29	May 15, 1966	288.71	Nov. 25, 1966	305.09
Oct. 25, 1965	303.92	May 20, 1966	289.15	Nov. 30, 1966	304.06
Oct. 31, 1965	303.88	May 25, 1966	288.00	Dec. 5, 1966	303.08
Nov. 5, 1965	302.37	May 31, 1966	290.53	Dec. 10, 1966	303.00
Nov. 10, 1965	300.72	June 5, 1966	292.70	Dec. 15, 1966	302.38
Nov. 15, 1965	299.21	June 10, 1966	296.76	Dec. 20, 1966	301.61
Nov. 20, 1965	298.02	June 15, 1966	300.61	Dec. 25, 1966	301.07
Nov. 25, 1965	297.25	June 20, 1966	299.07	Dec. 31, 1966	300.01
Nov. 30, 1965	296.96	June 25, 1966	297.47	Jan. 5, 1967	299.76
Dec. 5, 1965	295.88	June 30, 1966	303.42	Jan. 10, 1967	299.91
Dec. 10, 1965	295.03	July 5, 1966	307.52	Jan. 15, 1967	299.09
Dec. 15, 1965	294.30	July 10, 1966	305.54	Jan. 20, 1967	298.60
Dec. 20, 1965	293.28	July 15, 1966	308.45	Jan. 25, 1967	297.98
Dec. 25, 1965	292.24	July 20, 1966	317.06	Jan. 31, 1967	297.58
Dec. 31, 1965	291.30	July 25, 1966	323.45	Feb. 5, 1967	297.23
Jan. 5, 1966	290.83	July 31, 1966	331.04	Feb. 10, 1967	297.17
Jan. 10, 1966	290.21	Aug. 5, 1966	334.68	Feb. 15, 1967	297.04
Jan. 15, 1966	289.93	Aug. 10, 1966	335.22	Feb. 20, 1967	296.78
Jan. 20, 1966	289.80	Aug. 15, 1966	328.54	Feb. 25, 1967	296.36
Jan. 25, 1966	289.87	Aug. 20, 1966	324.45	Feb. 28, 1967	295.94
Jan. 31, 1966	289.29	Aug. 25, 1966	323.23	Mar. 5, 1967	295.98
Feb. 5, 1966	288.59	Aug. 31, 1966	319.45	Mar. 10, 1967	296.53
Feb. 10, 1966	288.14	Sept. 5, 1966	318.00	Mar. 15, 1967	297.60
Feb. 28, 1966	287.56	Sept. 10, 1966	317.96	Mar. 20, 1967	298.61

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well ST-40-31-802—Continued		Well ST-40-31-802—Continued		Well ST-40-31-802—Continued	
Mar. 25, 1967	297.94	Nov. 5, 1967	321.25	Sept. 20, 1968	334.86
Mar. 31, 1967	299.38	Nov. 10, 1967	319.08	Sept. 25, 1968	332.38
Apr. 5, 1967	300.56	Nov. 15, 1967	318.28	Sept. 30, 1968	330.50
Apr. 10, 1967	303.19	Nov. 20, 1967	317.10	Oct. 5, 1968	329.13
Apr. 15, 1967	303.33	Nov. 25, 1967	316.18	Oct. 10, 1968	328.06
Apr. 20, 1967	301.78	Nov. 30, 1967	315.67	Oct. 15, 1968	326.41
Apr. 25, 1967	301.16	Dec. 5, 1967	314.97	Oct. 20, 1968	325.62
Apr. 30, 1967	298.00	Dec. 10, 1967	314.17	Oct. 25, 1968	325.35
May 5, 1967	297.95	Feb. 25, 1968	306.07	Oct. 31, 1968	326.25
May 10, 1967	300.24	Feb. 29, 1968	306.23	Nov. 5, 1968	325.53
May 15, 1967	301.29	Mar. 5, 1968	306.12	Nov. 10, 1968	324.20
May 20, 1967	301.11	Mar. 10, 1968	305.56	Nov. 15, 1968	324.00
May 25, 1967	300.16	Mar. 15, 1968	305.52	Nov. 20, 1968	323.10
May 31, 1967	301.26	Mar. 20, 1968	304.91	Nov. 25, 1968	322.60
June 5, 1967	299.98	Mar. 25, 1968	304.67	Nov. 30, 1968	321.60
June 10, 1967	300.81	Mar. 31, 1968	304.55	Dec. 5, 1968	321.39
June 15, 1967	303.56	Apr. 5, 1968	304.58	Dec. 10, 1968	320.00
June 20, 1967	309.43	Apr. 10, 1968	304.70	Dec. 15, 1968	321.65
June 25, 1967	314.99	Apr. 20, 1968	305.22	Dec. 20, 1968	321.36
June 30, 1967	321.84	Apr. 25, 1968	304.86	Dec. 25, 1968	319.14
July 5, 1967	324.37	Apr. 30, 1968	305.35	Dec. 31, 1968	320.45
July 10, 1967	329.59	May 5, 1968	305.98	Jan. 5, 1969	319.24
July 15, 1967	339.25	May 10, 1968	306.22	Jan. 10, 1969	318.50
Aug. 20, 1967	353.75	May 15, 1968	305.63	Jan. 15, 1969	317.00
Aug. 25, 1967	348.02	July 5, 1968	309.72	Jan. 20, 1969	316.84
Aug. 31, 1967	344.16	July 10, 1968	311.77	Jan. 25, 1969	318.56
Sept. 5, 1967	342.94	July 15, 1968	310.38	Jan. 31, 1969	318.47
Sept. 10, 1967	338.19	July 20, 1968	314.09	Feb. 5, 1969	317.16
Sept. 15, 1967	334.94	July 25, 1968	321.38	Feb. 10, 1969	317.33
Sept. 20, 1967	331.94	July 31, 1968	314.03	Feb. 15, 1969	316.95
Sept. 25, 1967	330.00	Aug. 5, 1968	326.87	Feb. 20, 1969	316.64
Sept. 30, 1967	328.41	Aug. 10, 1968	332.80	Feb. 25, 1969	316.64
Oct. 5, 1967	327.75	Aug. 15, 1968	333.08	Feb. 28, 1969	316.78
Oct. 10, 1967	326.44	Aug. 20, 1968	334.73	Mar. 5, 1969	316.14
Oct. 15, 1967	324.91	Aug. 25, 1968	334.65	Mar. 10, 1969	315.43
Oct. 20, 1967	323.60	Aug. 31, 1968	331.28	Mar. 15, 1969	314.27
Oct. 25, 1967	322.39	Sept. 5, 1968	333.38	Mar. 20, 1969	313.82
Oct. 31, 1967	322.02	Sept. 10, 1968	334.37	Mar. 25, 1969	313.79
		Sept. 15, 1968	335.44		

Table 4.—Water Levels in Selected Wells in McLennan County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL			
Well ST-40-31-802—Continued			Well ST-40-39-302			Well ST-40-40-702—Continued		
Mar. 31, 1969	313.53	Owner: Waco Memorial Park			June 7, 1967	83.05		
Apr. 5, 1969	314.33	1952	45	July 3, 1967	84.62			
Apr. 10, 1969	314.33	Sept. 1959	120	Oct. 10, 1967	91.70			
Apr. 15, 1969	315.37	June 24, 1965	263.24	Nov. 8, 1967	93.27			
		Mar. 22, 1968	228.13	Dec. 11, 1967	89.80			
Well ST-40-32-501			Well ST-40-39-502			Jan. 11, 1968		
Owner: City of Waco			Owner: Edwin Nichols			92.39		
July 17, 1958	193	May 20, 1965	239.32	Feb. 8, 1968	89.90			
Nov. 6, 1965	277.95	Mar. 17, 1969	258.02	Mar. 18, 1969	94.92			
Mar. 17, 1966	252.05	Well ST-40-46-403			Owner: City of Moody			
Mar. 15, 1968	244.34	Owner: Lorena Water Supply Corp.			Aug. 6, 1957	280		
Apr. 3, 1969	246.53	Oct. 1964	215	Jan. 26, 1965	297.91			
Well ST-40-37-501			Jan. 6, 1965	140	Mar. 15, 1966	376.54		
Owner: City of McGregor			Jan. 6, 1965	143	Aug. 26, 1966	311.26		
Apr. 29, 1965	400	Mar. 2, 1965	153.50	Sept. 29, 1966	310.00			
Mar. 16, 1966	416.30	Mar. 1, 1966	132.00	Nov. 3, 1966	348.94			
Apr. 18, 1967	425.73	Apr. 20, 1967	163.23	Nov. 30, 1966	322.72			
Mar. 15, 1968	425.98	Mar. 18, 1968	178.02	Dec. 28, 1966	318.45			
Mar. 7, 1969	426.31	Mar. 7, 1969	182.18	Feb. 8, 1967	321.24			
Well ST-40-38-801			Well ST-40-40-401			Apr. 20, 1967	312.45	
Owner: Spring Valley Water Supply Corp.			Owner: Robinson Water Co.			July 3, 1967	364.35	
May 13, 1965	263.00	Mar. 1, 1966	84.55	Oct. 10, 1967	322.6			
May 14, 1965	324.00	Apr. 20, 1967	60.12	Nov. 10, 1967	335.70			
Mar. 15, 1966	323.00	Mar. 18, 1969	103.72	Dec. 11, 1967	335.30			
Apr. 18, 1967	317.83	Well ST-40-40-702			Jan. 16, 1968	327.25		
Mar. 14, 1968	324.68	Owner: Levi Water Supply Corp.			Feb. 13, 1968	335.82		
Mar. 7, 1969	322.08	Nov. 12, 1964	90	Mar. 15, 1968	321.13			
Well ST-40-39-103			Jan. 5, 1965	74.95	Mar. 7, 1969	327.6		
Owner: Luther Herring			Mar. 1, 1966	75.39	Well ST-40-46-602			
Apr. 25, 1950	180	Aug. 26, 1966	82.61	Owner: W. H. Cast				
1960	265	Sept. 29, 1966	80.45	Oct. 1964	305			
Mar. 31, 1965	292.17	Oct. 28, 1966	80.93	May 12, 1967	269.90			
Mar. 15, 1966	284.39	Nov. 30, 1966	81.12	Mar. 21, 1968	273.80			
		Dec. 28, 1966	81.02	Mar. 18, 1969	278.0			
		Feb. 7, 1967	83.82					
		Apr. 20, 1967	81.73					

MC LENNAN COUNTY.

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Ksh, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Baluky Formation; Kg, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids: "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLOUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
ST-39-17-701	3,129	Nov. 1, 1961	Kho	--	0.14	6.0	< 1	290	--	506	103	60	2.7	1.3	--	774	713	18	97	1,290	8.2	28.7
901	3,385	July 22, 1965	do.	--	3.6	11	1	278	--	550	118	49	1.9	< 0.4	--	1,210	733	34	95	1,312	8.3	21.2
25-102'	2,905	Feb. 15, 1964	do.	--	.26	4	1	272	--	481	130	53	2	< .4	--	950	700	13	98	1,296	8.4	32.0
102'	2,905	Jan. 26, 1965	do.	--	.08	7	1	331	--	454	212	99	1.9	2	--	1,110	877	19	97	1,568	8.1	30.6
1/ 401	3,035	Mar. 1, 1967	do.	21	.76	4	.5	* 276	--	493	100	60	--	--	--	973	705	12	98	1,170	8.3	34.3
1/ 401	3,035	Mar. 14, 1967	do.	23	.15	4	.5	* 283	--	514	125	54	--	--	--	1,000	743	12	98	1,170	8.07	35.2
2/ 501	3,181	Apr. 6, 1951	do.	28	.42	3.3	1.9	* 279	--	510	113	50	3.6	.0	--	730	--	16	97	1,160	8.7	30.3
501	3,181	Apr. 30, 1951	do.	29	.1	8	3	* 268	--	494	111	53	2	< .4	--	730	716	33	95	--	8.4	20.5
501	3,181	Apr. 12, 1965	do.	--	.04	4	1	276	--	500	123	47	2.1	< .4	--	960	700	14	98	1,224	8.4	32.5
501	3,181	Apr. 28, 1965	do.	29	--	+ 5	--	270	--	492	124	47	3	< .4	--	720	--	13	--	1,120	7.9	--
701	2,916	May 15, 1963	do.	--	--	+ 4	--	255	--	461	118	44	1.7	1	--	890	651	10	--	1,200	8.3	--
701	2,916	Sept. 8, 1963	do.	--	.14	1 6	--	262	--	475	122	43	--	< .4	--	910	668	16	--	1,205	8.3	--
701	2,916	Apr. 6, 1965	do.	--	.08	+ 7	--	264	--	456	116	44	1.7	2	--	900	659	17	--	1,176	8.5	--
701	2,916	Mar. 28, 1966	do.	--	.2	+ 3	--	258	--	459	129	44	1.5	.5	--	900	662	8	--	1,176	8.4	--
3/ 33-101	2,820	Nov. 23, 1951	do.	22	.07	9.2	5.1	* 348	--	522.2	229.6	76	--	--	--	1,278.5	947	44	95	--	8.1	22.9
4/ 104	3,115	Feb. 6, 1967	do.	--	.15	4	1	255.8	--	449	92.8	52	1.5	.3	--	875.8	629	14	98	970	8.5	30.1
2/ 201	3,109	Feb. 20, 1949	do.	12	--	148	39	* 1,040	--	180	2,270	198	--	.0	1.1	3,820	3,797	530	81	5,030	--	19.7
2/ 201	3,109	Mar. 15, 1949	do.	30	--	84	23	* 754	--	218	1,600	71	--	.0	--	2,670	--	304	84	3,570	7.7	18.9
201	3,109	Apr. 15, 1949	do.	42	1.1	102	20	* 725	--	220	1,559	78	1.1	< .4	--	2,668	2,637	337	82	--	7.2	17.1
2/ 201	3,109	Aug. 23, 1950	do.	--	1.5	--	--	--	--	222	1,580	70	--	--	--	--	--	--	--	--	7.4	--
201	3,109	July 13, 1962	do.	--	.56	85	23	760	--	210	1,540	73	1.2	< .4	--	3,000	2,587	307	84	5,000	7.7	18.9
202	3,531	Mar. 31, 1964	do.	--	.06	+ 5	--	265	--	456	120	44	1.8	1.5	--	900	662	13	--	1,185	8.4	--
202	3,531	Nov. 5, 1964	do.	--	.28	99	16	259	--	267	960	53	2.3	1.5	--	1,260	1,122	314	64	2,068	8.1	6.4
202	3,531	Apr. 14, 1966	do.	--	.14	112	16	267	--	317	980	55	2.7	1.5	--	1,350	1,191	347	63	2,134	8.3	6.2
40-15-901	1,874	Dec. 8, 1965	do.	--	.22	3	1	225	--	403	81	47	.8	< .4	--	770	556	11	98	1,015	8.6	28.0

See footnotes at end of table.

MC LENNAN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
ST-40-15-901	1,874	--	Kho	--	0.08	3	1	223	--	410	85	47	0.7	Y 0.4	--	780	562	12	98	1,025	8.6	27.7
16-401	2,010	Jan. 6, 1941	Krp	16	.08	10	4.0	* 255	--	427	146	46	.8	Y 2.0	--	685	--	42	93	--	8.9	17.1
401	2,010	Jan. 8, 1943	do.	14	.0	16	8	269	4	430	234	46	.6	Y .2	--	804	--	73	88	--	8.2	13.8
401	2,010	Mar. 21, 1949	do.	18	.10	14	7.4	270	6.4	418	239	46	1.8	Y .2	0.20	805	--	66	89	1,250	7.8	14.5
402	2,008	Aug. 26, 1952	Kho	17	.08	13	12	* 208	--	409	21	53	.7	Y .4	--	530	--	12	85	--	8.8	9.9
402	2,008	Feb. 11, 1959	do.	--	.24	3	2	215	--	410	87	50	.7	Y .4	--	690	560	15	97	1,150	8.0	23.4
402	2,008	June 3, 1963	do.	--	Y .02	† 4	--	225	--	418	84	48	1	Y .5	--	790	560	10	--	1,060	8.6	--
403	2,088	Feb. 11, 1959	do.	--	.04	3	1	215	--	418	80	50	.7	Y .4	--	705	556	13	98	1,175	8.0	26.7
403	2,088	June 3, 1963	do.	--	Y .02	† 4	--	232	--	420	84	48	1	Y .5	--	800	577	10	--	1,075	8.6	--
404	1,977	Jan. 6, 1969	do.	--	0	3	1	230	--	410	80	53	.5	Y 4	--	600	574	13	98	--	8.6	28.6
501	2,350	Aug. 16, 1966	do.	--	Y .02	3	1	247	--	467	97	99	1.1	Y .4	--	870	629	13	98	--	8.3	30.7
701	2,430	Nov. 6, 1964	do.	--	.12	4	2	279	--	451	98	104	1.6	Y .4	--	950	711	19	97	1,296	8.5	28.9
701	2,430	Nov. 29, 1965	do.	--	.10	5	2	279	--	461	101	100	1.1	Y .5	--	950	716	18	97	1,278	8.4	26.4
22-307	1,160	Nov. 27, 1967	Kha	--	--	1	3	225	--	420	110	27	.4	--	--	600	573	16	97	--	8.4	25.1
308	1,127	Mar. 29, 1961	do.	--	--	13	4	263	--	426	101	73	--	--	--	917	662	3	92	--	--	16.3
308	1,127	do.	do.	--	--	13	5	257	--	413	107	66	--	--	--	903	652	3	91	--	--	15.3
802	1,400	Jan. 7, 1943	Kho	15	0	6.9	7.7	* 348	--	466	307	69	1.8	0	--	985	--	48	94	--	8.4	21.6
802	1,400	do.	do.	14	.08	4.2	1.2	* 242	--	397	90	58	.6	1	--	618	606	16	97	--	8.4	26.3
802	1,400	July 20, 1954	do.	20	1.8	13	18	682	--	500	922	135	2.6	4.4	--	2,026	2,045	107	93	--	8.3	28.8
804	1,150	Nov. 30, 1961	Khe	--	.14	4	2	220	--	420	94	20	1	.4	--	489	549	19	96	815	8.2	22.8
23-705	1,180	Apr. 20, 1965	do.	16	--	14	16	478	--	520	580	54	4.6	1.5	--	1,680	1,421	102	91	2,100	7.6	20.8
903	2,114	Sept. 19, 1958	Kho	--	.64	4	2	230	--	448	123	45	1.4	Y .4	--	606	627	20	97	1,010	8.0	23.8
903	2,114	Oct. 16, 1965	do.	--	--	3	2	242	--	425	112	37	1.4	Y .4	--	830	607	16	97	1,095	8.4	26.3
24-102	2,269	Nov. 27, 1959	do.	--	.64	3	1	224	--	426	84	46	.8	Y .4	--	576	--	11	98	960	8.6	27.8
301	2,863	July 3, 1959	do.	--	1.1	16	3	518	--	407	90	545	1.5	Y .4	--	1,710	1,375	52	96	2,850	7.9	30.9
301	2,863	Nov. 14, 1962	do.	--	.38	16	4	544	--	405	108	541	1.5	Y 2	--	1,622	1,416	57	95	2,728	7.9	31.6
401	2,270	Nov. 5, 1959	do.	--	.04	4	1	202	--	401	140	46	.7	Y 1.3	--	598	--	16	97	930	8.4	23.5
501	2,414	--	do.	--	.2	4	2	254	--	486	98	52	1.6	Y .4	--	900	651	18	97	1,152	8.4	26.3
701	2,323	Aug. 6, 1955	do.	23	1.2	6	1	251	--	409	130	46	1.3	Y .4	--	700	661	19	97	--	8.5	24.8
701	2,323	Sept. 17, 1956	do.	--	--	--	--	--	--	637	--	39	1.8	--	--	--	--	13	--	1,070	8.3	--
701	2,323	Mar. 21, 1962	do.	--	0.72	4	2	240	--	427	119	44	1.2	Y 1.1	--	642	618	17	97	1,070	8.1	24.9
701	2,323	Feb. 14, 1966	do.	--	.06	4	1	242	--	421	126	43	1.3	Y .5	--	840	625	16	97	1,122	8.3	28.5
702	2,336	Aug. 8, 1955	do.	27	1.7	6	1	260	--	403	152	46	1.3	Y .4	--	716	694	19	98	--	8.4	25.7

See footnotes at end of table.

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Pb)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
ST-40-24-702	2,335	Feb. 14, 1956	Kho	--	0.06	7	2	243	--	426	135	39	1.5	< 0.4	--	850	637	26	95	1,134	8.1	21.1
703	2,438	May 1, 1961	do.	--	.07	3	1	228	--	427	71	45	.7	1.6	--	578	560	13	98	964	8.0	28.3
703	2,438	Sept. 13, 1962	do.	--	.14	3	1	230	--	408	78	47	.6	< .4	--	773	560	12	98	1,026	8.5	28.6
703	2,438	Oct. 4, 1962	do.	--	.06	3	1	255	--	477	84	46	.3	< .4	--	866	629	13	98	1,110	8.4	31.7
703	2,438	1966	do.	--	.04	3	1	310	--	415	71	46	--	< .4	--	750	635	11	98	--	8.3	38.5
2/ 801	2,400	Sept. 1942	Kpe, Kho	--	--	--	--	--	--	394	--	47	--	--	--	698	--	27	--	--	--	--
2/ 801	2,400	Jan. 9, 1943	do.	22	.01	4.2	1.4	* 261	--	395	135	48	.5	.2	--	710	667	16	97	--	8.6	28.4
2/ 801	2,400	Mar. 28, 1956	do.	24	.01	3.8	1.1	* 254	--	430	113	52	2	.4	--	671	--	14	98	1,070	8.5	29.9
2/ 801	2,400	May 6, 1963	do.	22	.02	3.8	1.6	* 257	--	442	139	45	1.6	.0	--	705	688	16	97	1,070	7.9	27.9
801	2,400	Mar. 14, 1966	do.	11	--	68	11	490	--	420	475	297	2.6	< .4	--	1,540	--	168	87	2,375	7.8	16.7
801	2,400	do.	do.	18	--	25	8	383	--	411	492	59	2.9	< .4	--	1,190	--	96	90	1,750	7.6	17.0
3/ 801	2,400	--	do.	6.3	.1	4.2	.9	247.1	--	431.9	113.2	47.5	--	--	--	877.6	632	16.7	97	--	8.2	29.1
2/ 802	2,370	Jan. 9, 1943	do.	21	.02	4.2	1.4	* 248	--	358	134	41	.9	.2	--	684	627	16	97	--	8.3	27.0
2/ 802	2,370	May 6, 1963	do.	22	.01	4	1.5	* 252	--	444	122	49	1.5	.0	--	696	671	16	97	1,050	7.9	27.4
803	2,494	Feb. 14, 1953	Kho	22	.14	7	6	229	--	433	86	53	.8	< .4	--	660	617	42	92	--	8.3	15.3
4/ 29-601	1,206	Aug. 26, 1966	do.	--	.15	3.2	1.9	259.7	--	417.2	90.3	68	.6	.5	--	870.4	630	16	97	1,170	8.1	28.2
601	1,206	Aug. 30, 1966	do.	--	.10	1	2	247	--	418	95	63	.7	< .4	--	840	615	11	98	1,130	8.7	32.6
802	962	Sept. 10, 1952	Khe	15	.44	10	7	* 201	--	397	87	32	.8	> .4	--	552	--	54	89	--	8.2	12.0
802	962	Sept. 27, 1960	do.	--	.08	4	2	240	--	420	113	29	.7	> .4	--	592	--	18	97	986	8.2	24.9
802	962	Mar. 11, 1963	do.	--	.14	7	4	293	--	437	233	44	1.2	> .4	--	1,020	688	33	95	1,398	8.4	22.0
802	962	Dec. 7, 1964	do.	--	.60	9	8	367	--	455	391	58	2.3	< .4	--	1,290	1,061	55	93	1,903	8.3	21.3
805	941	Apr. 12, 1963	do.	--	.12	8	4	295	--	432	251	42	1.2	< .4	--	1,030	814	26	95	1,410	8.3	21.4
805	941	Dec. 7, 1964	do.	--	.06	9	5	302	--	439	262	43	2.1	> .4	--	1,060	840	43	94	1,470	8.3	19.9
805	941	Apr. 18, 1966	do.	--	.08	10	8	339	--	442	345	53	2.3	> .4	--	1,200	975	57	93	1,760	8.3	19.4
30-301	1,126	July 12, 1966	do.	--	.04	4	3	258	--	440	156	34	1.9	> .4	--	900	673	23	96	1,188	8.4	23.4
301	1,126	July 8, 1967	do.	--	--	6	2	259	--	407	181	35	1.6	3	--	920	685	25	96	--	--	23.5
302	1,140	July 11, 1966	do.	--	.14	6	4	258	--	422	172	32	1.9	< .4	--	900	681	33	95	--	8.5	19.7
302	1,140	July 8, 1967	do.	--	.20	5	2	256	--	355	154	31	1.6	2	--	860	625	22	96	--	9.1	24.2
603	1,146	Sept. 18, 1968	do.	14	.24	4	2	247	--	442	142	33	1.6	< .4	--	660	--	19	97	1,037	8.4	25.6
604	1,171	July 4, 1966	do.	--	.26	6	3	266	--	407	182	36	1.9	< .4	--	910	695	29	95	--	8.7	21.8
604	1,171	July 8, 1967	do.	--	.42	5	3	262	--	405	189	36	1.7	2	--	920	698	26	96	--	--	22.8
901	1,360	Sept. 4, 1968	Kho	15	--	4	1	307	--	466	72	168	1.4	< .4	--	800	--	15	98	1,350	8.3	36.1
2/ 31-101	1,600	Aug. 18, 1962	Khe, Kho	12.8	.4	0	0	* 239.5	--	400.2	79.6	46.0	--	--	--	825.5	576	0	--	--	8.6	--

See footnotes at end of table.

MC LENNAN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER ANALYZING UNIT	SILICA (SiO ₂)	IRON (Pp)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
2/ ST-40-31-101	1,600	Jan. 7, 1943	Kbc, Kho	17	0.02	3.2	1.5	* 232	--	335	101	40	0.5	0.2	--	620	561	14	97	--	8.4	27.3
3/ 101	1,600	Jan. 9, 1943	do.	128	.6	4.2	1.4	260	--	455	135	48	--	.2	--	696	802	16	97	--	8.6	28.3
2/ 101	1,600	Jan. 17, 1943	do.	17	.2	3.2	1.5	232	--	433	101	40	.5	.2	--	609	--	14	97	--	8.4	27.3
2/ 101	1,600	Mar. 31, 1949	do.	16	.05	2	1.3	240	4.8	386	108	44	1	1.2	0.37	627	609	10	97	1,000	8.5	31.6
3/ 101	1,600	Sept. 4, 1961	do.	16.9	.46	3.4	1.8	237.6	--	378.2	124	40	.82	--	--	870.2	612	16	97	--	8.5	25.9
101	1,600	Feb. 9, 1968	do.	--	.24	3	2	234	--	423	105	38	1	< .4	--	810	592	17	97	--	8.6	25.4
2/ 102	1,540	Jan. 7, 1943	do.	15	.0	3.5	1.3	* 237	--	440	101	44	.5	.0	--	619	--	14	97	--	8.4	27.9
3/ 102	1,540	Jan. 9, 1943	do.	10	.4	4.2	1.4	248	0	434	134	41	--	.2	--	664	651	16	97	--	8.6	27.0
402	1,184	July 2, 1966	Kbc	--	.32	5	4	258	--	432	159	33	1.9	< .4	--	900	674	32	95	--	8.5	20.8
402	1,184	July 8, 1967	do.	--	.42	5	2	253	--	438	159	34	1.8	2	--	900	672	22	96	--	8.5	23.9
403	1,192	July 3, 1966	do.	--	.28	6	3	256	--	412	159	32	1.9	< .4	--	880	662	29	95	--	8.7	21.0
403	1,192	July 8, 1967	do.	--	.10	3	1	256	--	364	157	33	1.9	3	--	860	634	15	98	--	8.9	31.8
2/ 501	2,151	Feb. 29, 1952	Kho	20	.01	3.2	1.3	248	2.8	432	124	47	1.1	1.0	.40	664	--	14	97	1,060	8.2	29.2
501	2,151	Apr. 28, 1952	do.	18	.04	14	3	* 244	--	415	138	53	1	2.2	--	638	677	48	92	--	8.6	15.4
501	2,151	Sept. 8, 1964	do.	--	> .02	3	1	246	--	421	112	47	1	2	--	840	619	13	98	1,090	8.4	30.6
3/ 504	2,150	Sept. 17, 1956	do.	--	--	--	--	--	--	419	--	68	1.4	--	--	--	--	12	--	1,050	8.4	--
504	2,150	Mar. 2, 1964	do.	--	.06	3	1	250	--	420	119	51	1.2	< .4	--	860	637	12	98	1,150	8.5	31.1
504	2,150	Sept. 8, 1964	do.	--	.02	3	1	246	--	421	112	47	1	2	--	840	619	13	98	1,090	8.4	30.6
2/ 601	2,046	Jan. 8, 1943	Ktp	16	.04	5.9	3.1	* 280	--	354	208	43	2	.0	--	772	732	28	96	--	8.3	23.0
604	2,122	Sept. 4, 1968	Kho	17	--	2	1	234	--	431	97	47	1	< .4	--	620	--	12	98	975	8.4	33.9
3/ 605	2,263	Feb. 23, 1937	Ktp	--	--	--	--	--	--	420	292	61	--	--	--	--	--	--	--	--	--	--
3/ 605	2,263	Mar. 23, 1937	do.	--	--	--	--	--	--	417	293	62	--	--	--	--	--	--	--	--	--	--
612	2,194	Sept. 4, 1968	Kho	20	.10	2	2	237	--	444	90	57	1	< .4	--	630	--	32	98	990	8.1	28.6
3/ 702	1,936	Sept. 17, 1956	do.	--	--	--	--	--	--	434	--	59	1.4	--	--	--	--	10	--	1,120	8.4	--
4/ 705	1,298	Sept. 14, 1964	Kbc	12	.05	6.4	3.4	273.7	--	446.5	188.5	44	1.5	--	--	991.6	751	30	95	--	8.4	21.6
705	1,298	May 25, 1966	do.	--	> .02	6	4	279	--	440	198	45	1.7	< .4	--	980	751	29	95	1,320	8.4	21.3
2/ 706	1,329	Sept. 14, 1964	do.	11.4	.05	6.4	3.4	270.4	--	440	186.8	44	1.5	--	--	975.9	741	30	95	--	8.3	21.4
706	1,329	May 23, 1966	do.	--	< .02	4	2	279	--	433	191	45	1.7	< .4	--	960	736	21	97	1,314	8.6	28.9
3/ 802	2,040	do.	Kho	12	.1	1.5	.4	251.5	--	420.9	91	57	--	--	--	888.1	621	5.4	99	--	8.5	49.7
2/ 32-101	2,400	Sept. 17, 1956	do.	--	--	--	--	--	--	425	--	45	1.4	--	--	--	--	12	--	1,050	8.6	--
102	2,303	Sept. 28, 1948	do.	20	.2	12	2	* 243	--	409	97	50	1.0	< .4	--	638	627	38	93	--	8.5	17.0
2/ 102	2,303	Sept. 17, 1956	do.	--	--	--	--	--	--	428	--	45	1.2	--	--	--	--	10	--	1,010	8.3	--
3/ 103	2,396	May 23, 1957	do.	--	--	0	5.3	225	--	320	120	46	--	--	--	626	553	22	96	--	8.7	20.8

See footnotes at end of table.

MC LENNAN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
ST-40-32-104	2,329	Dec. 10, 1960	Kho	--	0.10	2.2	10	219.91	1.62	327	120	45	0.09	0.054	--	694	560	15.4	91	--	8.45	14.1
104	2,329	Mar. 21, 1962	do.	--	.08	4	2	240	--	425	115	44	1.2	1.1	--	642	616	18	97	1,010	8.1	24.9
104	2,329	Feb. 14, 1966	do.	--	> .02	4	1	243	--	418	127	41	1.4	< .4	--	840	624	14	97	1,116	8.4	28.6
106	2,255	Aug. 6, 1965	Ktp	--	1.05	4	1	231	--	409	--	--	1.1	< .4	--	810	--	13	97	1,098	8.7	27.2
403	2,312	Mar. 31, 1949	Kho	20	.08	3	1.5	239	6.8	428	88	53	1.4	.0	0.21	629	--	14	96	1,010	8.4	28.1
405	2,147	Mar. 23, 1937	Ktp	--	--	--	--	--	--	454	81	54	--	--	--	--	--	--	--	--	--	--
405	2,147	Jan. 9, 1943	do.	17	.01	3.3	1.3	237	1	339	86	52	.7	.2	--	633	566	14	97	--	8.4	27.9
501	2,493	Jan. 6, 1964	Kho	13.6	.7	3.2	1	252	--	423.3	98	60	.96	--	--	723.2	638	12	98	--	8.4	31.3
37-501	1,340	July 7, 1965	Khe	--	.10	5	1	247	--	434	120	46	1.9	< .4	--	860	634	19	97	1,150	8.5	26.9
601	1,028	Jan. 6, 1943	do.	10	.0	6.3	4.6	* 309	--	444	214	67	1	.5	--	844	831	34	95	--	8.2	22.8
601	1,028	Dec. 15, 1953	do.	26	.06	6	12	299	--	458	235	67	1.4	.4	--	897	872	65	91	--	8.5	16.3
602	1,250	Jan. 6, 1943	Khe, Kpe	13	.0	5.6	2.4	276	4.6	446	123	66	1.7	.0	--	736	712	24	95	--	8.4	24.5
602	1,250	June 20, 1951	do.	12	.04	7	3	* 261	--	476	127	61	1.2	> .4	--	624	707	35	95	--	8.2	20.6
603	1,028	Apr. 6, 1956	Khe	12	.16	3	2	256	--	421	127	53	1.1	> .4	--	685	662	16	97	--	8.4	27.8
603	1,028	Feb. 3, 1965	do.	--	> .02	4	2	247	--	446	130	43	1.2	> .4	--	860	647	18	97	--	8.4	25.6
604	1,044	Feb. 2, 1956	do.	10	.12	7	2	293	--	433	170	92	1.2	> .4	--	756	789	26	96	--	7.8	25.5
801	1,190	Aug. 5, 1942	do.	13	.18	11	6	* 244	--	384	142	64	1.4	.4	--	702	671	52	91	--	8.4	14.7
801	1,190	May 25, 1945	do.	20	.24	8	2	* 263	--	418	136	67	1.1	.4	--	722	704	28	95	--	8.3	21.6
801	1,190	Jan. 17, 1956	do.	12	.6	4	3	287	--	445	150	82	1.6	< .4	--	766	--	23	97	--	8.5	26.0
801	1,190	Nov. 1, 1961	do.	--	.08	5	1	274	--	461	107	62	1.2	< .4	--	699	678	16	97	1,165	8.3	29.8
802	1,046	Aug. 5, 1942	do.	15	.8	12	5	* 242	--	403	136	53	1	.4	--	678	663	51	91	--	8.3	14.6
802	1,046	May 25, 1945	do.	17	.07	7	2	* 264	--	421	138	64	.9	.4	--	724	700	26	96	--	8.3	23.0
802	1,046	Jan. 21, 1956	do.	12	.05	4	2	280	--	445	131	82	1.2	< .4	--	740	--	18	97	--	8.3	29.0
803	1,201	Aug. 28, 1942	do.	14	.24	8	.4	* 250	--	403	131	67	.6	.7	--	684	--	37	94	--	8.3	18.1
803	1,201	May 25, 1945	do.	25	.27	7	2	* 267	--	421	136	71	1	.6	--	728	717	26	96	--	8.3	22.8
803	1,201	Jan. 17, 1956	do.	14	.05	4	3	285	--	433	164	75	1.6	< .4	--	720	760	23	96	--	8.7	23.4
804	1,062	Aug. 7, 1942	do.	13	.24	9	4	* 252	--	397	141	67	1.4	.4	--	699	683	39	93	--	8.4	17.7
804	1,062	May 25, 1945	do.	17	.04	7	2	* 270	--	403	145	78	1	.4	--	727	--	26	96	--	8.3	23.5
804	1,062	Jan. 17, 1956	do.	14	.05	4	3	276	--	427	141	82	1.4	< .4	--	713	732	23	96	--	8.7	25.0
38-302	1,485	Feb. 27, 1942	Kha, Kpe Kho	--	.4	4.3	2.5	* 282	--	434	132	66	--	1	--	798	721	21	97	--	--	26.7
302	1,485	Oct. 9, 1942	do.	13	--	--	--	--	--	245	--	82	--	--	--	644	--	--	--	--	8.5	--
302	1,485	Jan. 6, 1943	do.	13	.0	5.6	2.2	* 286	--	443	160	64	1.4	.5	--	764	751	23	96	--	8.2	25.9
801	1,460	May 15, 1965	Khe, Kho	--	.16	5	3	295	--	471	149	67	.9	< .4	--	990	753	25	96	1,385	8.4	25.7

See footnotes at end of table.

MC LERNAN COUNTY

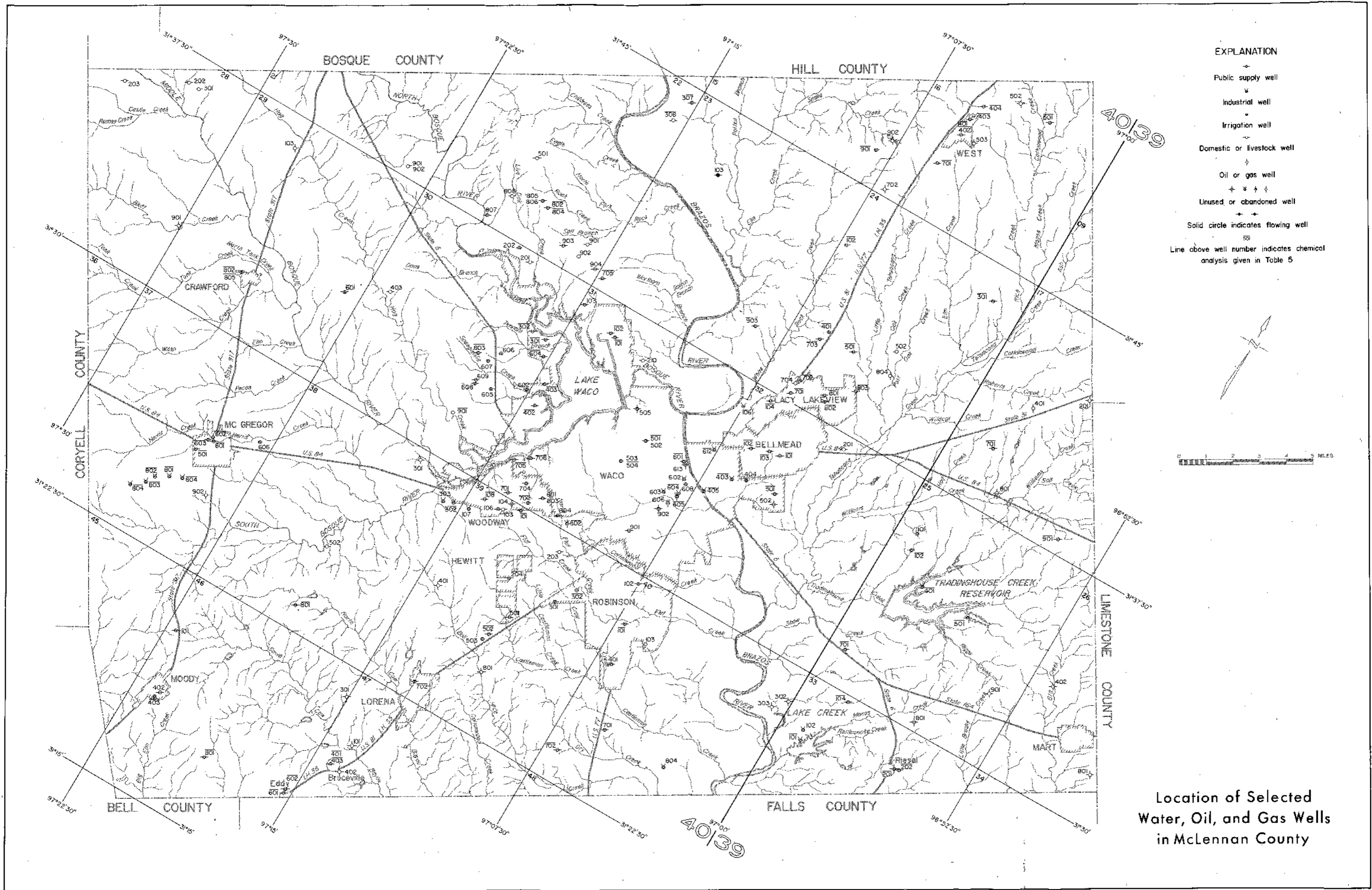
Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROHMS AT 25° C)	pH	SODIUM ABSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
ST-40-37-801	1,460	Aug. 13, 1965	Khe, Kho	--	0.14	6	1	364	--	610	111	129	5	< 0.4	--	1,230	917	21	98	1,648	8.1	36.0
39-101	1,865	Sept. 19, 1968	Kho	8	.56	6	3	291	--	432	98	148	1.2	< .4	--	770	--	28	96	1,290	8.4	23.9
108	1,500	Sept. 20, 1968	Khe	16	.42	7	4	290	--	445	214	51	2.1	< .4	--	800	--	34	95	1,270	7.9	21.8
204	1,914	Oct. 26, 1961	Kho	--	.01	3	1	284	--	432	100	70	.9	< .4	--	810	671	11	98	1,344	8.2	35.3
204	1,914	Aug. 2, 1965	do.	--	< .02	3	1	275	--	437	97	62	1.2	< .4	--	880	655	13	98	1,145	8.5	34.2
302	2,096	June 24, 1965	Kho	15	--	5	1	242	--	439	96	51	1.5	< .4	--	630	--	17	97	1,026	8.2	25.7
502	1,560	June 25, 1965	Khe	10	--	17	2	320	--	433	221	105	2.5	< .4	--	890	--	51	93	1,460	8.3	19.3
702	1,888	July 19, 1965	Kho	--	.06	6	1	282	--	444	83	116	2.2	< .4	--	950	709	18	97	1,320	8.5	27.9
40-101	2,391	Sept. 13, 1967	do.	--	< .02	† 6	--	253	--	427	125	48	1.5	< .4	--	870	644	16	--	--	8.5	--
702	2,640	Nov. 18, 1964	do.	--	--	† 6	--	253	--	451	93	60	1.2	< .4	--	870	636	15	--	1,135	8.5	--
46-101	1,900	Sept. 27, 1967	do.	--	.2	3	2	350	--	555	70	175	2	< .0	--	900	875	16	98	--	8.3	38.1
402	1,494	Sept. 5, 1951	do.	14	.16	9	4	* 327	--	494	120	156	2	1.6	--	862	877	39	95	--	7.8	22.9
402	1,494	Mar. 5, 1965	do.	15	--	6	2	340	--	493	123	154	2.5	< .4	--	890	--	23	97	1,460	8.0	30.8
402	1,494	Jan. 13, 1966	do.	--	.04	4	2	329	--	466	97	160	2	2.5	--	1,070	826	16	98	1,560	8.4	34.1
403	1,561	July 30, 1957	do.	--	0	--	3.1	289.46	--	300	115	168	--	--	--	848	724	13	98	--	8.9	35.0
403	1,561	Feb. 14, 1962	do.	--	.05	4	1	332	--	458	93	171	1.4	.9	--	936	828	13	98	1,560	8.2	39.0
2/ 601	1,565	Jan. 9, 1943	Khe	12	.02	7.2	4.5	372	3.8	387	284	131	1.8	1	--	1,037	1,008	36	95	--	8.4	27.0
601	1,565	Feb. 14, 1962	do.	--	.12	9	8	415	--	439	315	174	2	.4	--	1,248	1,140	55	94	2,080	8.3	24.1
602	1,565	Apr. 5, 1965	do.	16	--	5	2	327	--	444	222	88	2.2	< .4	--	880	--	22	97	1,380	8.3	30.3
602	1,565	July 15, 1965	do.	--	.12	5	2	322	--	440	210	87	2.3	2	--	1,070	846	--	97	1,520	8.4	29.8
9/ 801	1,680	Feb. 8, 1967	Kho	--	0	6	0	350	--	505	105	160	1.3	0	0.4	900	871	14	98	--	8.3	39.1
2/ 47-401	1,565	Jan. 9, 1943	Khe	6.5	35	17	15	* 611	--	484	719	198	3.2	.2	--	1,830	1,843	104	93	--	8.0	26.1
401	1,565	Oct. 25, 1961	do.	--	.14	9	5	392	--	458	302	124	2.4	< .4	--	1,122	1,060	41	95	1,870	8.1	25.8
403	1,535	Apr. 5, 1965	do.	16	--	11	9	450	--	466	433	154	3	< .4	--	1,310	--	67	94	2,010	7.9	24.2
403	1,535	Feb. 15, 1966	do.	--	.18	12	8	449	--	470	432	155	2.9	< .4	--	1,294	--	63	94	2,336	8.1	24.7

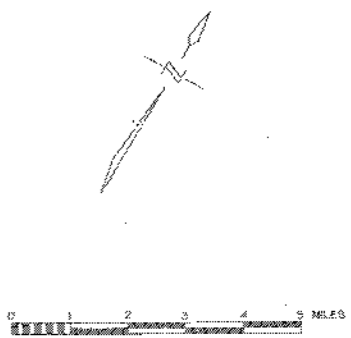
* Sodium and potassium calculated as sodium (Na)
 † Calcium and magnesium calculated as calcium (Ca)

LABORATORY CONDUCTING ANALYSIS:

- 1/ Microbiology Service Laboratories
- 2/ U.S. Geological Survey Laboratory
- 3/ Laboratory unknown
- 4/ Pope Testing Laboratories
- 5/ Trinity Testing Laboratories
- 6/ Texas A&M University
- 7/ Curtis Laboratories
- 8/ North Texas State University Research Laboratory
- 9/ Southwestern Analytical Chemicals, Inc.



- EXPLANATION**
- Public supply well
 - Industrial well
 - Irrigation well
 - Domestic or livestock well
 - Oil or gas well
 - Unused or abandoned well
 - Solid circle indicates flowing well
 - Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in McLennan County

MILAM COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kw, Woodbine Group; Ka, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Anclers Formation; Ktp, Travis Peak Formation; Khe, Hunsell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Hosston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS	
					DIAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT				
* TK-58-07-901	City of Buckholts	Wayne Texas Co.	1957	3,448	14 8 7 5	40 810 3,191 3,448	Kho	510	+ 4	6	Apr. 30, 1957 Apr. 1, 1969	T, E 7-1/2	F	Slotted from 3,191 to 3,369 and 3,383 to 3,413 ft. Reported flowed 274 gpm on Apr. 1, 1957. Cemented from 3,191 ft to surface. Temp. 138°F. Texas Water Development Board observation well. 1/23

* For chemical analysis of water, see Table 5.

1) For drillers' log of well, see Table 3.

2) Electric logs in files of the Texas Water Development Board, Austin, Texas.

3) For water-level measurements, see Table 4.

MILAM COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
 Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
TK-58-15-801	Buescher and Clarkeson	H. H. Coffield No. 1	1942	6,180	490	E
23-401	Dan J. Harrison	Anna Belle Smith, et al. No. 1	1959	4,562	470	E
602	do.	Gus P. Schran No. 1	1959	5,223	433	E
31-901	Danciger Oil and Refining Co.	Campbell No. 1	1948	3,603	470	E
32-201	Phillips Petroleum Co.	F. Fitzgerald No. 1	1944	4,880	496	E
202	D. H. Bolin	R. L. King No. 1	1952	4,063	474	E
701	Hamman Oil and Refining Co.	E. H. McWilliams No. 1	1962	3,748	567	E
59-01-301	Rimrock Tidelands Inc.	W. F. Crawford No. 1	1956	7,003	342	E
10-901	D. H. Byrd	Green No. 1	1953	8,210	410	E
19-402	Shell Oil Co.	Adque Estate No. 1	1964	13,319	398	E
26-101	General Crude Oil Co.	P. H. Perry No. 1	1958	9,648	525	E

MILAM COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)			
Well TK-58-07-901			Well TK-58-07-901—Continued		
Owner: City of Buckholts Driller: Layne Texas Co.			Lime rock	8	1,854
Surface soil	4	4	Lime and shale	94	1,948
Sticky clay	33	37	Shale and sandy lime	12	1,960
Blue shale	299	336	Lime	11	1,971
Gray, brittle shale	78	414	Shale and lime	25	1,996
Chalk	36	450	Blue-gray shale and few streaks of sandy lime	104	1,996
Sticky shale	25	475	Sandy lime	30	2,130
Soft shale	30	505	Shale and sandy lime	60	2,190
Sticky shale	112	617	Lime	22	2,212
Soft shale	41	658	Lime and shale	41	2,263
Sticky shale	143	801	Shale and lime streaks	14	2,277
Hard shale and chalk	15	816	Hard shale and lime	65	2,342
Soft shale and chalk	30	846	Lime and shale	64	2,406
Chalk and hard shale	180	1,026	Sandy lime	19	2,425
Chalk and gray shale	100	1,126	Lime and shale streaks	43	2,468
Chalk	53	1,179	Sandy lime	5	2,473
Gray, blue, and yellow shale	59	1,238	Lime and shale streaks	93	2,566
Gray shale and chalk	102	1,340	Sandy lime and shale	10	2,576
Shale and chalk	28	1,368	Lime and shale streaks	79	2,655
Gray shale	21	1,389	Sandy lime	20	2,675
Black shale and chalk streaks	69	1,458	Hard lime	17	2,692
Black shale	50	1,508	Sandy lime and shale streaks	15	2,707
Shale and lime streaks	54	1,562	Sandy rock, lime, and shale	15	2,722
Blue shale	70	1,632	Hard, sandy lime	10	2,732
Lime and shale	10	1,642	Lime	16	2,748
Shale	19	1,661	Hard, sandy lime	12	2,760
Shale and lime	19	1,680	Lime and shale	15	2,775
Lime and shale streaks	50	1,730	Sandy lime	8	2,783
Shale and lime streaks	29	1,759	Lime and shale	56	2,839
Sandy lime and shale streaks	31	1,790	Sandy shale	6	2,845
Shale	4	1,794	Hard, sandy shale	24	2,869
Sandy lime and shale (loose)	10	1,804	Sandy lime	23	2,892
Shale	5	1,809	Sandy lime and sand	9	2,901
Sandy lime and broken shale	27	1,836	Shale with sandy streaks	20	2,921
Hard shale	10	1,846	Shale and sand breaks	120	3,041
			Shale and hard streaks of sand	33	3,074

Table 3.—Drillers' Logs of Selected Wells in Milam County—Continued

Well TK-58-07-901—Continued			Well TK-58-07-901—Continued		
Shale and lime	61	3,135	Shale	7	3,314
Shale and few sandy shale breaks	35	3,170	Shale and sand	28	3,342
Shale and sandy, shale streaks	45	3,215	Shale	17	3,359
Shale and lime	35	3,250	Shale and sand	8	3,367
Shale and sandy streaks	23	3,273	Shale and lime	27	3,394
Hard shale	4	3,277	Sand and shale breaks	17	3,411
Shale and broken sand	30	3,307	Sand	14	3,425
			Shale	23	3,448

MILAM COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL
Well TK-58-07-901	
Owner: City of Buckholts	
Apr. 30, 1957	Flowed
Feb. 21, 1966	+ 23.5
May 2, 1967	+ 19.5
Mar. 18, 1968	+ 12.62
Apr. 1, 1969	+ 6

MILAN COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kbo, Bossion Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.

"Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

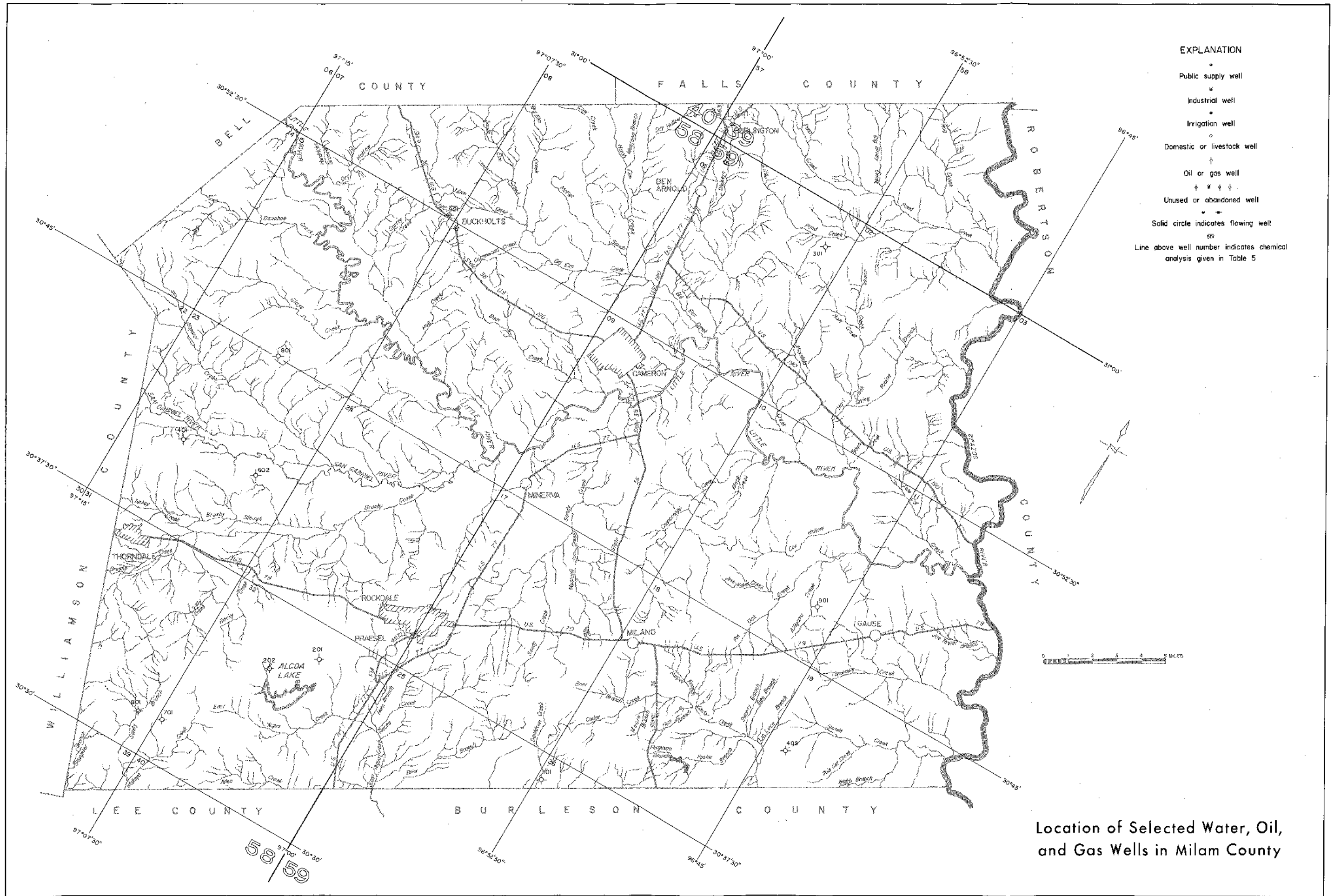
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
TX-58-07-901	1,510 1,538	Mar. 5, 1957	--	16	0.50	180	62	* 2,003	--	334	3,175	1,050	--	--	--	6,823	6,651	705	86	8,700	8.2	32.9
901	1,810 1,878	Mar. 8, 1957	Kea	19	1.2	280	82	* 1,962	--	305	3,200	1,100	--	--	--	7,154	6,794	910	80	9,160	8.5	26.5
901	3,373 3,398	Mar. 20, 1957	Khe	19	7.4	63	18	* 569	--	372	882	174	--	--	--	2,039	1,915	232	84	2,854	7.52	16.3
901	3,192 3,414	Apr. 1, 1957	do.	25	2.8	62	18	* 547	--	333	889	156	--	--	--	1,987	1,864	230	84	2,725	7.6	15.8
901	3,448	Aug. 30, 1957	do.	--	1.56	60	19	540	--	327	870	146	1.8	< 0.4	--	1,800	--	230	84	3,000	7.4	15.6
901	3,448	Jan. 1959	do.	--	6.94	60	17	* 534	--	245	900	151	1.8	.4	--	1,980	1,791	220	84	3,300	7.3	15.7
901	3,448	Aug. 10, 1965	do.	--	.34	59	18	540	--	312	900	153	2.5	3	--	1,990	1,829	222	84	3,248	7.9	15.8

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

1/ Microbiology Service Laboratories



- EXPLANATION**
- Public supply well
 - * Industrial well
 - Irrigation well
 - Domestic or livestock well
 - ↓ Oil or gas well
 - ↓ * ↓ * ↓ * Unused or abandoned well
 - + Solid circle indicates flowing well
 - 501 Line above well number indicates chemical analysis given in Table 5



Location of Selected Water, Oil, and Gas Wells in Milam County

MILLS COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit: : Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Kha, Hansell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* TL-41-20-601	City of Priddy	James Mathew Adams	1950	350	10 6	-- 350	Kha	1,565	200	1950	C, E 3	P	--
* 602	do.	do.	1950	355	--	--	do.	1,565	--	--	C, E 3	P	Temp. 70°F.
27-601	Grady Hancock	Henry Hart	1916	100	6	--	Ktp	1,430	53 55.60	Mar. 5, 1961 Mar. 13, 1968	Sub, R 1/2	D	Texas Water Development Board observation well. <u>Y</u>
* 602	Mrs. Ora-B. Wilson	Cooks Water Well Service	1968	106	5	106	Kho	1,435	40	May 21, 1968	Sub, E 1/2	D	Perforated from 66 to 96 ft. Cemented from 5 ft to surface. Temp. 70°F. <u>Y</u>
28-401	W. R. Lindsey	Watson Drilling	1957	165	5	165	Kp, Kgr	1,590	80 53.33	May 4, 1961 Mar. 14, 1969	C, W	D, S	Perforated from 145 to 165 ft. Pump set at 150 ft. Reported yield 13 gpm. Cemented from 5 ft to surface. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
29-701	Joe White	--	1954	410	5	410	Ktp	1,550	150	May 10, 1961	C, E	D, S	--
702	Raymond H. Williams	Leon Drilling Co.	--	374	4	374	Khe	1,580	250	--	Sub, R 1-1/2	D	Slotted from 328 to 350 and 355 to 370 ft. Reported yield 10 gpm. Gravel packed. Cemented from 300 to 320 ft. <u>Y</u>
35-301	Walton Daniels	--	--	123	3	--	Ktp	1,400	34.98 37.8	Jan. 20, 1966 Mar. 14, 1969	N	N	Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
302	Rock Spring School	--	--	54	6	--	do.	1,400	41.21	Jan. 20, 1966	N	N	--
601	James B. McCoy	--	--	80	--	--	Kho	1,385	6 24.2	May 11, 1961 Mar. 14, 1969	Sub, E 1/4	D, S	Texas Water Development Board observation well. <u>Y</u>
36-201	City of Goldthwaite	E. E. Thate	1955	478	10 8	404 475	do.	1,665	405 414.46	1955 Apr. 12, 1967	N	N	Slotted from 418 to 457 ft. Reported yield 30 gpm. Cemented from 404 ft to surface. Texas Water Development Board observation well. <u>Y</u> <u>Y</u> <u>Y</u>
* 202	do.	Layne Texas Co.	1949	405	10 8	340 405	do.	1,612	285 357 336.84	1949 Dec. 9, 1959 Mar. 3, 1965	T, E 25	P	Slotted from 335 to 405 ft. Reported yield 132 gpm. Cemented from 340 ft to surface. <u>Y</u>
* 203	do.	do.	1945	353	10 8	303 353	do.	1,572	235 304 288 311.3	1945 1959 Mar. 12, 1963 Mar. 3, 1965	T, E 15	P	Perforated. Pumping level 307 ft at 85 gpm in Aug. 1945. Cemented from 303 ft to surface. <u>Y</u>
* 204	do.	do.	1945	370	10	300	do.	1,590	244 263	Dec. 9, 1959 June 21, 1963	T, E 15	P	Open hole completion from 300 to 370 ft. Reported yield 40 gpm. <u>Y</u>
401	--	--	--	107	6	--	Ktp	1,445	67.00 67.08	Jan. 20, 1966 Mar. 14, 1969	Sub, E 1/2	D	Texas Water Development Board observation well. <u>Y</u>
* 37-302	Darrell Head	Jack Blaker	1939	215	5	200	Khe	1,393	75	Nov. 28, 1960	C, E 1	D	Open hole completion from 200 to 215 ft. Temp. 70°F.

See footnotes at end of table.

MILLS COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
TY-41-37-303	Joe Green	Jack Blaker	1941	213	5	213	Kho	1,405	92.74 92.5	Apr. 12, 1966 Mar. 14, 1969	C, W	D	Texas Water Development Board observation well. <u>3</u>
801	W. L. Berry	Watson Drilling	1960	365	8	320	do.	1,530	245	Aug. 1960	C, E	D, S	Open hole completion from 320 to 365 ft. Reported yield 10 gpm. <u>1</u>
* 802	R. C. Berry	-- Row	--	320	5	320	do.	1,505	183.86 185.9	Mar. 13, 1968 Mar. 14, 1969	Sub, E	D, S	Slotted. Pump set at 285 ft. Temp. 71°F. Texas Water Development Board observation well. <u>3</u>
* 38-101	B. L. Harper	Watson Drilling	1955	325	5	325	do.	1,430	250 251.4	Mar. 1955 Mar. 14, 1969	Sub, E	D, S	Perforated from 284 to 325 ft. Pumping level 315 ft at 12 gpm in June 1955. Pump set at 313 ft. Reported yield 3 gpm. Cemented from 5 ft to surface. Temp. 72°F. Texas Water Development Board observation well. <u>3</u>
44-202	P. R. Jordan	-- Arrowood	1951	120	10 6	-- 120	Klp	1,370	12 5.28	May 10, 1961 Mar. 14, 1969	J, E	D, S	Texas Water Development Board observation well. <u>3</u>
302	Layton Black	Smart Drilling and Supply	1967	340	5	325	Kgr, Ktp	1,490	135 151	May 11, 1967 May 13, 1967	Sub, E 3/4	S	Open hole completion from 5 to 217 and 325 to 340 ft. Slotted from 238 to 260 and 282 to 325 ft. Pump set at 370 ft. Reported yield 4 gpm. <u>1</u> <u>2</u>
* 45-401	Leon Johnson	Ollie Vernon Clary	1958	315	5	315	Kho	1,505	165 134.87	Mar. 1958 Mar. 14, 1969	C, E	D, S	Perforated from 275 to 315 ft. Reported yield 10 gpm. Temp. 71°F. Texas Water Development Board observation well. <u>3</u>

* For chemical analysis of water, see Table 5.

1 For drillers' log of well, see Table 3.2 Electric logs in files of the Texas Water Development Board, Austin, Texas.3 For water-level measurements, see Table 4.

MILLS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
TL-41-19-506	United North and South Development Co.	Fred Johnson No. 1	1950	3,249	1,670	E
20-501	Blumberg and Coleman	J. H. Priddy No. 1	1958	3,520	1,584	E
29-501	R. K. Stoker	Grelle No. 1	1958	3,827	1,511	E
601	Beard and Tullous	J. B. Pfeugger No. 1	1949	4,577	1,550	E
36-502	Robert McCulloch	Rahl No. 1	1954	1,883	1,510	E
601	R. K. Stoker	Fletcher No. 1	1958	3,340	1,570	E
37-301	Byron Hoffman, et al.	J. S. Ownes No. 1	1957	3,100	1,415	E
38-401	Daubert, Dolch and Ehman	Jim Soules No. 1	1957	3,009	1,398	E

MILLS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well TL-41-27-602			Well TL-41-36-201		
Owner: Mrs. Ora B. Wilson Driller: Cooks Water Well Service			Owner: City of Goldthwaite Driller: E. E. Thate		
Black soil	3	3	Soil	2	2
Broken rock, red	7	10	Broken lime	8	10
Red rock	40	50	Lime	4	14
Red clay	18	68	Caliche, white	4	18
Yellow rock	2	70	Caliche	7	25
Broken rock, water	2	72	Lime	10	35
Rock, red	5	87	Lime and shale	30	65
Broken, red rock and clay	19	106	Shale, blue and shell	20	85
Well TL-41-28-401			Blue shale	16	101
Owner: W. R. Lindsey Driller: Watson Drilling			Lime shale	3	104
Black soil and fine rock	5	5	White lime	11	115
White lime rock	25	30	White lime	11	126
Blue shale	50	80	Lime	4	130
Sand (white sugar), water (Paluxy)	5	85	Shale	20	150
Blue shale and blue rock	80	165	Sand shale	15	165
Well TL-41-29-702			Blue shale	20	185
Owner: Raymond H. Williams Driller: Leon Drilling Co.			Sand, water (2 b)	7	192
Soil, boulders	5	5	Shale, gray	33	225
Lime, shells, shale	90	95	Lime, broken	10	235
Blue shale	15	110	Caliche, lime	55	290
Sand, shale, trace of water	20	130	Shale	10	300
Shale, shells, yellow	40	170	Lime, caliche	8	308
Gray lime	40	210	Red rock	7	315
Lime, shale, white	60	270	Red shale	5	320
Shale, shells	40	310	Lime	5	325
Sandy lime	18	328	Red lime, mixed	15	340
Red shale, sand, gravel, water	22	350	Red, sandy shale	10	350
Sandy lime	5	355	Red lime, mixed	25	375
Sand, gravel, water	15	370	Broken lime	12	387
Sandy lime	4	374	Lime, hard	10	397
			White caliche	3	400
			Sandy	4	404
			Lime	14	418
			Sandy lime	39	457
			Yellow clay	5	462
			No record	16	478

Table 3.—Drillers' Logs of Selected Wells in Mills County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well TL-41-36-202			Well TL-41-36-203		
Owner: City of Goldthwaite Driller: Layne Texas Co.			Owner: City of Goldthwaite Driller: Layne Texas Co.		
Surface soil	3	3	Sand and gravel	5	5
Yellow clay and sand	6	9	Yellow sand rock	17	22
Gravel and yellow clay, caliche	4	13	Gray lime and shale	6	28
Gray lime	11	24	Lime and shale	22	50
Hard, blue shale	9	33	Water sand	28	78
Gray shale	24	57	Lime and sand	2	80
White lime	24	81	Sand	10	90
Blue, sandy shale	6	87	Lime	7	97
Sand (dry, hard)	17	104	Sandy lime and shale	5	102
Sand (water, soft)	14	118	Lime and shale	5	107
White lime (soft)	23	141	Sandy lime	7	114
Blue shale	56	197	Lime	6	120
White lime (hard)	12	209	Sand (dry)	5	125
Blue shale (soft)	7	216	Lime and shale	75	200
White lime (soft)	11	227	Sandy lime	8	208
White lime (hard)	14	241	Lime and red rock	12	220
Green shale (soft and gummy)	11	252	Sand (dry)	15	235
Soft green shale	2	254	Lime and red rock	55	290
Sand and sandy lime	13	267	Sand and rock	4	294
Red rock (hard)	4	271	Lime	4	298
Red shale and sandy lime (red, hard)	31	302	Sandy lime	11	309
Red shale and red lime shale	20	322	Top of Trinity	3	312
Red shale and red lime sand (hard)	18	340	Sand (water)	8	320
Red shale and sandy lime (hard)	4	344	Lime and shale	6	326
White lime (extra hard)	12	356	Sand and lime - red rock and fine gravel	6	332
Sandy lime (hard)	4	360	Lime and sandy shale	3	335
White, sandy lime (hard)	4	364	Very limy sand and gravel	8	343
Water sand and gravel	32	396	Shaly, limy sand	4	347
White, sandy lime (hard)	6	402	Lime and shale	3	350
Brown shale	3	405	Shale and yellow clay	3	353

Table 3.—Drillers' Logs of Selected Wells in Mills County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well TL-41-36-204			Well TL-41-44-302—Continued		
Owner: City of Goldthwaite Driller: Layne Texas Co.			Soft clay, yellow		
Black soil	5	5		7	32
Gravel and sand rock	11	16	Soft clay, pink	9	41
Yellow sand rock	6	22	Tan, OK, good drilling, little hard	17	58
Gray lime and shale	19	41	Brown with green tint, soft	4	62
Sand, water (6 gpm)	39	80	Gray with green tint, soft	6	68
Shale	15	95	Gray shale, soft, little gummy	16	84
Lime and shale	65	160	Gray shale, firm (OK)	6	90
Sand, lime, and shale	25	185	Gray shale	39	129
White, sandy lime	35	220	Sandy, sand rock (1/4 gpm)	3	132
Red rock	30	250	Brown lime, firm, cuttings look water, but no water	6	138
Sand and red rock	5	255	Soft, brown limestone, very coarse, no water	3	141
Sand and shale	5	260	Firm, brown limestone, no water	7	148
Sand, coarse, no water	5	265	Hard limestone with pink rock mixed in, makes tan mud	7	155
Sand	5	270	Firm, brown limestone with other rock	3	158
Red rock	10	280	Hard, tan, white rock, makes pink mud	1	159
Sandy, red rock	18	298	Firm, tan and white rock, makes pink mud	4	163
Lime and red rock	22	320	Gray shale and clay	10	173
Sand and lime	27	347	Gray shale and limestone combined, makes pink or tan mud	32	205
Sand, hard	15	362	Hard limestone, some pink rock mixed in (1/2 gpm)	10	215
Sand, real coarse	5	367	Firm lime and red rock	11	226
Red bed	3	370	Soft, red clay with white rock mixed in	34	260
Well TL-41-37-801			Sand, and sand rock, some red rock	5	265
Owner: W. L. Berry Driller: Watson Drilling			Clay, red, yellow, and green	4	269
Dirt	30	30	Lime and red rock	16	285
Blue shale	210	240	Hard, white limestone	13	298
Soapstone and gravel	14	254	Soft, yellowish green rock	4	302
Red bed, bad	101	355	Hard, sandy rock	4	306
Water gravel, white	5	360	Soft clay and conglomerate gravel	12	318
Sand rock	15	365	Brown mud	22	340
Well TL-41-44-302					
Owner: Layton Black Driller: Smart Drilling and Supply					
Yellow clay, soft	19	19			
Firm, yellow clay rock	1.5	20.5			
Yellow clay, soft	3.5	24			
Soft, pink clay, cavey	1	25			

MILLS COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well TL-41-27-601		Well TL-41-35-601—Continued		Well TL-41-38-101	
Owner: Grady Hancock		Apr. 12, 1967 29.67		Owner: B. L. Harper	
Mar. 5, 1961	53	Mar. 14, 1969	24.2	1955	250
Apr. 13, 1966	52.63	Well TL-41-36-201		Mar. 13, 1968	251.17
Mar. 13, 1968	55.40	Owner: City of Goldthwaite		Mar. 14, 1969	251.4
Well TL-41-28-401		1955	405	Well TL-41-44-202	
Owner: W. R. Lindsay		Nov. 10, 1955	365	Owner: P. R. Jordan	
May 4, 1961	80	Dec. 12, 1955	380	May 10, 1961	12
Apr. 13, 1966	55.25	Mar. 28, 1956	405	Apr. 12, 1966	5.06
Apr. 12, 1967	55.17	May 24, 1961	404	Apr. 12, 1967	14.99
Mar. 13, 1968	53.20	June 1, 1961	404	Mar. 14, 1969	5.28
Mar. 14, 1969	53.33	July 28, 1962	402	Well TL-41-45-401	
Well TL-41-35-301		Apr. 13, 1966	401.61	Owner: Leon Johnson	
Owner: Walton Daniels		Aug. 26, 1966	406.42	1958	165
Jan. 20, 1966	34.98	Sept. 26, 1966	418.0	Apr. 12, 1966	134.32
Apr. 12, 1966	36.17	Apr. 12, 1967	414.46	Nov. 28, 1966	134.96
Nov. 28, 1966	36.55	Well TL-41-36-401		Jan. 2, 1967	133.69
Feb. 7, 1967	36.70	Owner: Unknown		Feb. 7, 1967	136.55
Apr. 12, 1967	36.97	Jan. 20, 1966	67.00	Apr. 12, 1967	135.40
May 4, 1967	37.60	Apr. 12, 1966	67.76	May 4, 1967	134.35
June 6, 1967	37.83	Apr. 12, 1967	68.06	June 6, 1967	134.27
June 29, 1967	38.32	Mar. 14, 1969	67.08	June 29, 1967	135.92
Aug. 2, 1967	38.90	Well TL-41-37-303		Aug. 2, 1967	136.35
Sept. 13, 1967	38.32	Owner: Joe Green		Sept. 13, 1967	134.79
Oct. 5, 1967	39.04	Apr. 12, 1966	92.74	Oct. 5, 1967	136.24
Nov. 8, 1967	39.32	Mar. 14, 1969	92.5	Dec. 5, 1967	135.10
Dec. 5, 1967	39.41	Well TL-41-37-802		Jan. 15, 1968	134.60
Jan. 15, 1968	39.60	Owner: R. C. Berry		Feb. 7, 1968	134.98
Feb. 7, 1968	39.08	Mar. 13, 1968	183.86	Mar. 13, 1968	134.64
Mar. 13, 1968	38.19	Mar. 14, 1969	185.9	Mar. 14, 1969	134.87
Mar. 14, 1969	37.8				
Well TL-41-35-601					
Owner: James B. McCoy					
May 11, 1961	6				
Apr. 12, 1966	24.55				

MILLS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Ksa, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

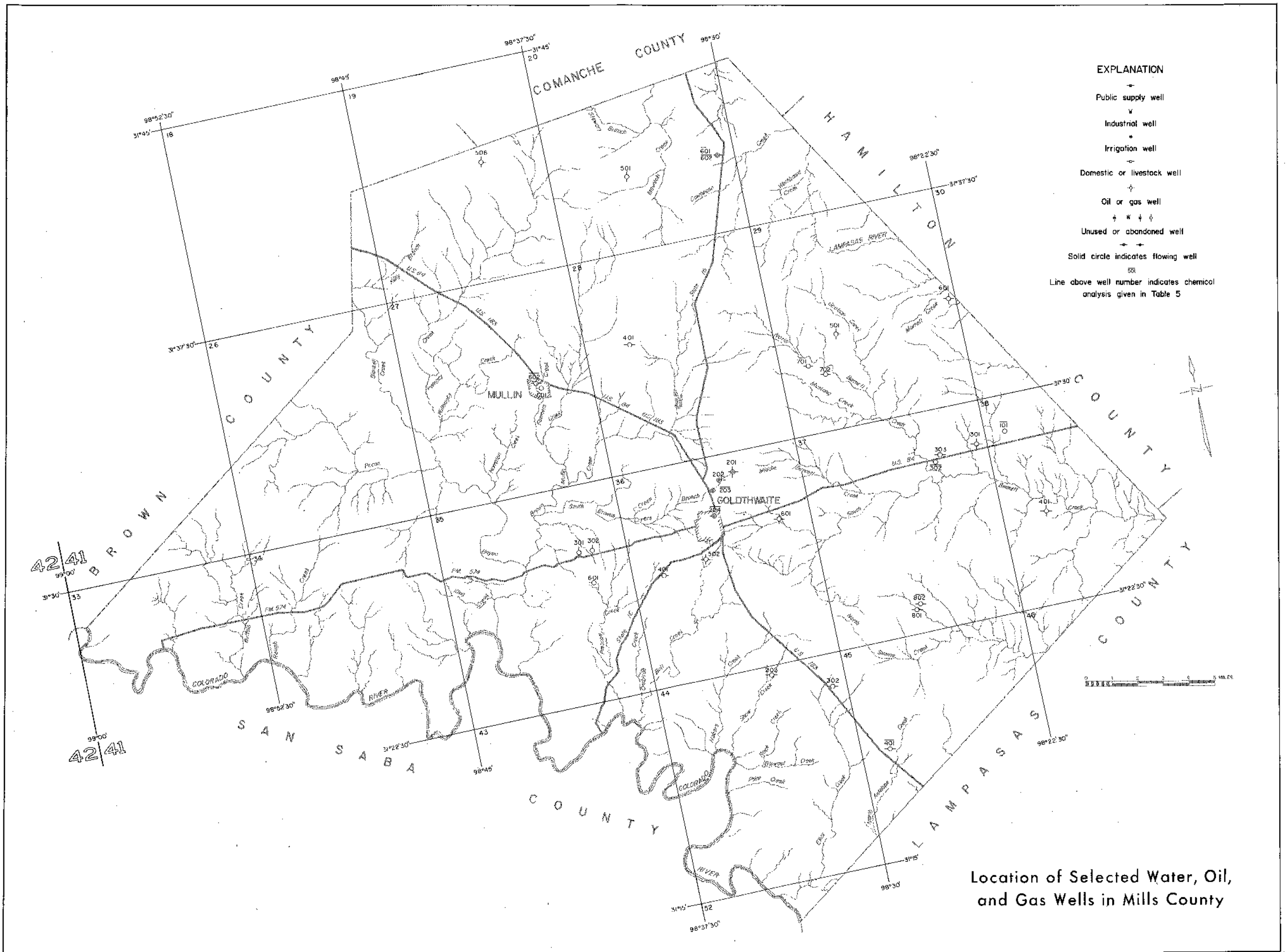
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
TL-41-20-601	350	June 19, 1959	Khe	14	0.37	50	47	150	--	423	211	48	1.2	< 0.4	--	864	790	320	51	1,440	7.5	3.7
602	355	Sept. 3, 1968	do.	12	--	50	47	136	--	418	213	45	1.5	< .4	--	710	--	320	49	1,120	7.6	3.4
27-602	106	do.	Kho	13	--	110	62	32	--	392	32	68	0.6	168	--	680	--	530	12	1,116	7.4	0.6
36-202	405	Aug. 10, 1949	do.	12	.6	68	49	* 129	--	433	157	92	.8	2.2	--	746	724	367	43	--	8.0	2.9
203	353	June 15, 1948	do.	10	.16	60	53	* 118	--	415	153	103	1.8	< .4	--	709	--	388	41	--	7.4	2.7
204	370	June 7, 1948	do.	13	.19	62	56	* 106	--	433	155	71	.9	.9	--	679	--	335	37	--	7.5	2.4
37-302	215	Nov. 28, 1960	Khe	11	--	60	44	* 147	--	312	250	92	1.1	3	--	782	761	330	49	1,220	7.0	3.5
802	320	Sept. 3, 1968	do.	9	--	41	26	227	--	377	240	101	1.8	1	--	830	--	209	70	1,450	7.7	6.8
38-101	325	do.	do.	10	--	88	29	88	--	354	152	60	.8	1	--	600	--	342	36	980	7.5	2.1
45-401	315	do.	Kho	13	--	63	54	36	--	399	55	44	.9	14	--	476	--	379	17	815	7.5	.8

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

U.S. Geological Survey Laboratory



NAVARRO COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kes, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Faloux Formation; Kgr, Glen Rose Formation; Ka, Amblers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power : A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; We, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
TV-33-58-401	Clifford William	--	--	900	--	--	Kwb	541	50	June 11, 1968	--	N	
* 502	Frost Gin Co.	--	1939	1,290	--	--	do.	520	346	July 18, 1968	Sub, E 5	Ind	
* 701	J. G. Fry	--	1910	900	4	--	do.	528	250	1967	C, E 1 1/2	D	Pump set at 250 ft. Temp. 81°F.

* For Chemical analysis of water, see Table 5.

NAVARRO COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
TY-33-58-601	F. W. Wilson	Sheppard No. 1	1944	2,511	534	E
39-02-202	J. K. Wadley	P. Cook No. 1	1958	2,773	507	E
501	Dobbson	Davie Cook No. 1	1953	3,345	490	E
03-401	Falcon Oil Co.	J. C. Keitt No. 1	1942	6,455	467	E
12-101	W. M. Coats and Danciger Oil and Refining Co.	Wickham No. 1	1949	2,220	455	E
603	Bond Oil Co.	Miller No. 1	1960	2,931	465	E

NAVARRO COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kw, Woodbine Group; Kes, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Kcp, Travis Peak Formation; Kha, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

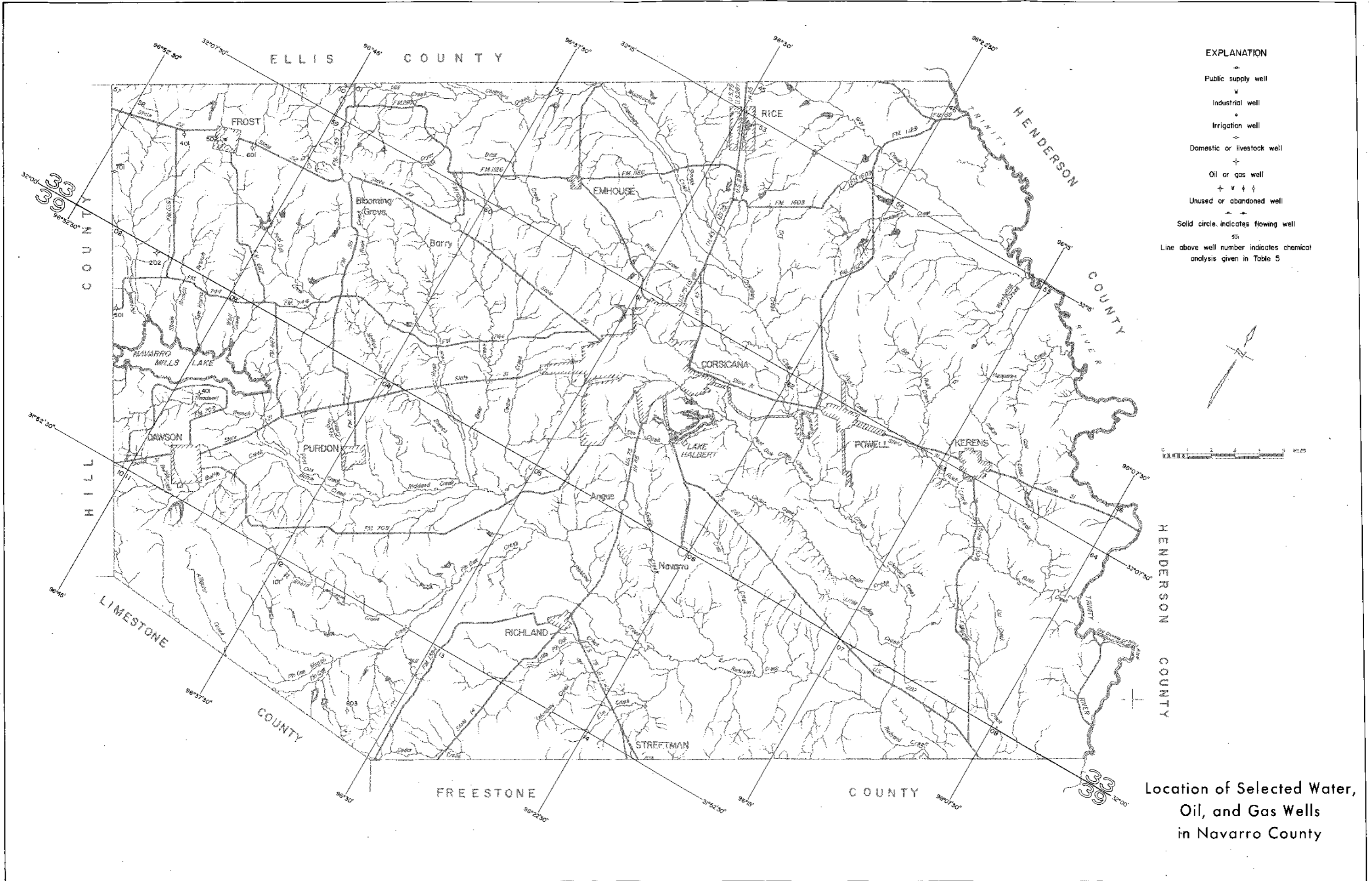
Dissolved solids : "Reported" - As appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Pp)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
y TY-33-58-502	1,290	July 18, 1968	Kwh	13	--	3.5	1.6	846	3.1	924	372	500	4.7	0.5	--	2,200	--	15	99	3,560	8.2	94.4
y 701	900	June 11, 1968	do.	12	--	5.8	1.6	672	1.3	708	520	252	4.6	11	--	1,830	--	21	98	2,940	7.9	63.5

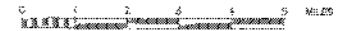
LABORATORY CONDUCTING ANALYSIS:

y U.S. Geological Survey Laboratory



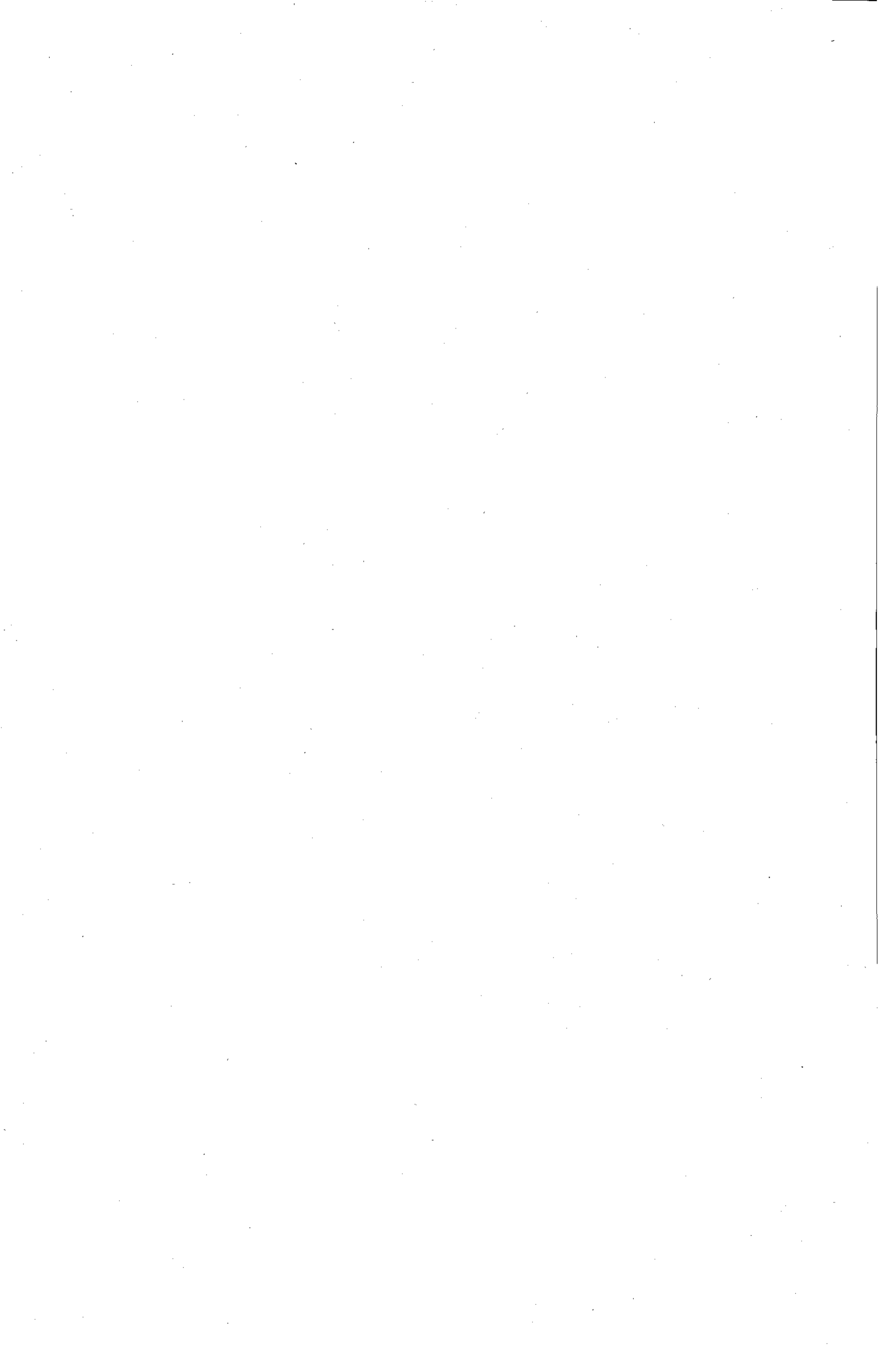
EXPLANATION

- Public supply well
- Industrial well
- Irrigation well
- Domestic or livestock well
- Oil or gas well
- Unused or abandoned well
- Solid circle indicates flowing well
- Line above well number indicates chemical analysis given in Table 5



HENDERSON COUNTY

Location of Selected Water, Oil, and Gas Wells in Navarro County



SCHERVELL COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kkb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khv, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power : A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* XJ-32-41-902	J. B. Sanderson	Wallen Pluckett	1946	288	8 7 5	45 125 248	Khe, Kpe, Kvo	760	+ 4 4.59	Sept. 16, 1950 Mar. 26, 1969	J, E	D	Slotted from 169 to 189 and 229 to 248 ft. Open hole completion from 248 to 288 ft. Reported yield 6 gpm. Temp. 68°F. Texas Water Development Board observation well. <i>1/4</i>
* 43-402	B. B. Halbert	W. S. Seward	1945	200	5	34	Khe	600	+ 31 3.75	Sept. 9, 1950 Mar. 21, 1969	C, H	S	Texas Water Development Board observation well. <i>4</i>
404	I. W. Keller	do.	1946	200	6	20	do.	600	+ 23	Sept. 15, 1950	C, W	S	Reported flows 3 gpm. Temp. 68°F.
601	Capital Silica Co.	Moore and Huffman	1963	285	6	--	do.	770	75	July 1968	Sub, E 1	Ind	Open hole completion. Pump set at 125 ft.
702	Squaw Creek Cemetary Association	James Russell	1945	359	5	--	Ktp	611	+ 18 + 19 +	Sept. 6, 1950 Nov. 21, 1950 Sept. 14, 1960	Sub, E Flows	Irr	
703	W. B. Stewart	--	1904	374	5	22	Khe, Kpe, Kho	630	23.27 24.35	May 3, 1965 Mar. 21, 1969	J, E	D	Open hole completion from 22 to 374 ft. Texas Water Development Board observation well. <i>4</i>
805	N. J. Doughty	James Russell	1948	464	6	--	Ktp	640	8.98 36.58	Aug. 14, 1950 Mar. 21, 1969	J, E 1/2	D	Slotted. Texas Water Development Board observation well. <i>4</i>
* 901	Texas Cedar Oil Co.	Russell Brothers	1955	380	8	380	Khe	650	75	Sept. 15, 1960	T, E 5	Ind	Slotted from 320 to 380 ft. Reported yield 100 gpm. Temp. 72°F.
49-601	J. W. Tottenham	Morris Pollack	1950	345	4	345	do.	1,095	128.90 100.09	Aug. 15, 1950 Mar. 26, 1969	C, W	S	Slotted. Texas Water Development Board observation well. <i>4</i>
50-103	Roy Kenady and E. H. Lawrence	--	--	300	--	--	Ktp	715	100	Sept. 13, 1960	T, G	Irr	Pump set at 185 ft.
202	W. A. Wood	--	--	297	6	--	do.	718	+ 2.50 15.49	Nov. 11, 1929 Mar. 26, 1969	J, E 1/4	D, S	Reported yield 3 gpm. Texas Water Development Board observation well. <i>4</i>
203	Travis Woolley	Morris Pollack	1950	284	8 4	144 284	Ktp	690	+ 5 2 +	Sept. 16, 1950 Sept. 13, 1960 July 22, 1968	Flows	N	Well reported to have flowed 25 gpm in 1950. Temp. 68°F. Abandoned.
* 303	City of Glen Rose	Layne Texas Co.	1934	325	10 8 5	36 285 325	Kho	630	+ 5 + 10	Sept. 12, 1934 1950 1960	T, E 10	P	Slotted from 286 to 325 ft. Reported yield 246 gpm. Cemented from 286 ft to surface. Temp. 69°F. <i>1/3</i>
304	do.	Morris Pollack	1954	352	8 4	-- 352	Ktp	640	13	Sept. 21, 1960	T, E 15	P	Reported yield 250 gpm. Cemented
305	T. K. Blalock	W. S. Seward	1945	120	6	30	Kgr	655	27.12 28.10	Sept. 16, 1950 Mar. 21, 1969	J, E 1/2	D	Open hole completion. Texas Water Development Board observation well. <i>4</i>
* 701	Cedar Valley Ranch	C. M. Stoner Drilling Co.	1965	510	7	510	Khe	1,060	350	June 3, 1965	Sub, E 15	D, S	Gun perforated with 93 shots 450 to 495 ft. Pump set at 430 ft. Reported yield 80 gpm. Cemented from 465 ft to surface. Temp. 76°F. <i>1/2</i>

See footnotes at end of table.

SOMERVELL COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF MEASUREMENT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* XJ-32-50-801	C. D. Montgomery	George Hammock	1940	225	4	--	Kp	1,108	180.64 181.24	Sept. 22, 1960	C, W	D, S	Pump set at 200 ft. Temp. 70°F. Texas Water Development Board observation well. <u>g</u>
* 51-101	Young Women's Christian Association	Layne Texas Co.	1924	277	3	--	Khe	600	+ 20	June 19, 1930	A, K 3	P	Pump set at 154 ft. Reported yield 50 gpm.
205	V. M. Reeves	W. S. Seward	1945	425	6	40	Klp	610	+ 10	Sept. 21, 1945 1960	C, E 1/2	D, S	Open hole completion from 40 to 425 ft.
* 501	B. C. Polley	Morris Pollack	1949	370	--	33	Khe	730	63.29 92.90	Sept. 14, 1950 Mar. 21, 1969	C, E 3/4	0	Temp. 70°F. Texas Water Development Board observation well. <u>g</u>
* 601	A. E. Smith	James Russell	1948	375	6 4	-- 375	do.	565	+ 33 24.82	Dec. 4, 1950 Mar. 27, 1968	J, E	N	Storced. Temp. 70°F. Texas Water Development Board observation well. <u>g</u>
701	D. A. Odon	John Bulhannon	--	119	--	--	Kp	945	91.50 91.50	Aug. 11, 1950 Mar. 21, 1969	C, W	N	Texas Water Development Board observation well. <u>g</u>

* For Chemical analysis of water, see Table 5.

1 For driller's log of well, see Table 3.

2 Electric logs in files of the Texas Water Development Board, Austin, Texas.

3 For results of pumping tests, yields, and specific capacities of wells,

see Table 4, Volume I.

4 For water-level measurements, see Table g.

SOMERVELL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
XJ-32-43-807	K-B Oil Co.	M. M. Bunt No. 1	1950	4,213	719	E
50-502	Whitaker and Whitaker	Winston No. 1	1950	2,421	860	E
901	Benedum Trees Oil Co.	William Rodgers No. 1	1919	3,625	940	D
51-102	M. E. Davis	T. H. Cousins No. 1	1941	6,505	810	S

SOMERVELL COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well XJ-32-41-902			Well XJ-32-50-303—Continued		
Owner: J. B. Sanderson Driller: Wallen Pluckett			Lime	2	147
No record	8	8	Red, sandy shale	8	155
Gravel	29	37	Blue shale	5	160
No record	88	125	Water sand	20	180
Lime, blue shale	5	130	Blue shale	15	195
Red bed	35	165	Red rock	10	205
Water sand	20	185	Blue shale	7	212
Blue shale	5	190	Red bed	4	216
Water sand	25	215	Gray shale	39	255
Blue shale and water sand	33	248	Blue shale	16	271
Brown shale	30	278	Red rock	13	284
Sandy lime	10	288	Water sand	41	325
Well XJ-32-43-807			Well XJ-32-50-701		
Owner: M. M. Bunt Driller: K-B Oil Co. (Partial log)			Owner: Cedar Valley Ranch Driller: C. M. Stoner Drilling Co.		
Surface	19	19	Soil	1	1
Lime	16	35	Clay and small rock	2	3
Lime and shale streaks	193	228	Shell rock	62	65
Sandy shale	7	235	Sand	55	120
Lime and shale streaks	39	274	Broken sand and rock	35	155
Sand	114	388	Lime rock	205	360
Red bed	18	406	Mixed, sandy shale and lime	45	405
Sand	50	456	Sand	25	430
Red bed (bottom Travis Peak)	174	630	Red and green shale	35	465
Lime and shale (Pennsylvania)	194	824	Sand	35	500
			Red and green shale	10	510
Well XJ-32-50-303			Well XJ-32-50-901		
Owner: City of Glen Rose Driller: Layne Texas Co.			Owner: William Rodgers Driller: Benedum Trees Oil Co. (Partial log)		
Sandy shale	25	25	Cellar	8	8
Lime	2	27	Lime, shale	372	380
Gravel	3	30	Red, cave, bad (409)	29	409
Lime	15	45	Broken sand	61	470
Broken lime	45	90	Red, cave, bad	10	480
Broken lime and shale	30	120	Broken sand	20	500
White shale	10	130	Red, cave, bad	105	605
Water sand	15	145	Sand	35	640

Table 3.—Drillers' Logs of Selected Wells in Somervell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well XJ-32-50-901—Continued			Well XJ-32-51-102—Continued		
Slate, sand	25	665	Lime and shale, hard	47	274
Red, cave, bad	25	690	Lime, shale, sand streaks	56	330
Yellow mud, soft	35	725	Broken lime, shale	10	340
			Broken sand	35	375
			Lime and shale	75	450
			Broken lime	22	472
			Soft sand, fresh water	46	518
			Hard, broken sand	42	560
			Sandy lime, broken sand	37	597
			Lime hard	18	615
			Lime and shale, broken	32	647
Well XJ-32-51-102					
Owner: T. H. Cousins Driller: M. E. Davis (Partial log)					
Surface sand	30	30			
Hard, lime rock	2	32			
Hard lime	18	50			
Broken lime, shale	55	105			
Lime sand, shale breaks	122	227			

SOMERVELL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well XJ-32-41-902		Well XJ-32-43-703—Continued		Well XJ-32-50-202	
Owner: J. B. Sanderson		Mar. 27, 1968	23.43	Owner: W. A. Wood	
Sept. 16, 1950	+ 4	Mar. 21, 1969	24.35	Nov. 11, 1929	+ 2.50
Sept. 13, 1960	2.42	Well XJ-32-43-805			
May 14, 1963	3.72	Owner: E. J. Doughty			
May 14, 1964	3.28	Aug. 14, 1950	8.98	Nov. 22, 1950	5.65
May 3, 1965	3.92	Nov. 22, 1950	8.39	Feb. 22, 1951	4.58
Apr. 5, 1966	6.16	Feb. 22, 1951	8.69	Dec. 9, 1954	7.19
Mar. 13, 1967	4.00	May 1, 1951	8.70	June 14, 1955	8.00
Mar. 27, 1968	3.77	June 4, 1951	8.94	Dec. 11, 1956	9.97
Mar. 26, 1969	4.59	May 13, 1953	11.13	Nov. 21, 1957	9.97
Well XJ-32-43-402		Dec. 9, 1954	13.73	Sept. 14, 1960	14.20
Owner: B. B. Halbert		June 14, 1955	15.14	May 23, 1962	22.47
Sept. 9, 1950	+ 31	Dec. 11, 1956	19.62	May 14, 1963	23.72
Mar. 15, 1967	3.39	Nov. 21, 1957	20.52	May 14, 1964	19.82
Mar. 27, 1968	2.94	Sept. 13, 1960	26.32	May 3, 1965	18.91
Mar. 21, 1969	3.75	May 23, 1962	28.77	Apr. 5, 1966	19.15
Well XJ-32-43-703		May 14, 1963	28.80	Mar. 13, 1967	16.57
Owner: W. B. Stewart		May 14, 1964	32.62	Mar. 27, 1968	15.39
June 19, 1930	+ 8.90	May 3, 1966	34.98	Mar. 26, 1969	15.49
Aug. 11, 1950	5.35	Apr. 5, 1966	37.31	Well XJ-32-50-305	
Nov. 22, 1950	5.04	Mar. 15, 1967	36.78	Owner: T. K. Blalock	
Feb. 22, 1951	6.44	Mar. 27, 1968	36.96	Sept. 16, 1950	27.12
June 4, 1951	6.47	Mar. 21, 1969	36.58	Nov. 21, 1950	25.47
May 13, 1953	7.29	Well XJ-32-49-601			
Dec. 9, 1954	9.58	Owner: J. W. Tottenham			
June 14, 1955	10.64	Aug. 15, 1950	128.90	Feb. 22, 1951	23.85
Dec. 11, 1956	14.41	Sept. 16, 1960	101.7	May 1, 1951	26.50
Nov. 21, 1957	15.60	May 14, 1963	100.14	June 4, 1951	31.74
May 23, 1962	22.41	May 14, 1964	100.35	May 12, 1953	34.02
May 14, 1963	20.20	May 3, 1965	101.31	Dec. 8, 1954	27.15
May 14, 1964	21.73	Apr. 4, 1966	99.86	June 14, 1955	32.24
May 3, 1965	23.27	Mar. 27, 1968	100.34	Dec. 11, 1956	27.70
Mar. 15, 1967	24.06	Mar. 26, 1969	100.09	Nov. 21, 1957	25.91
				Sept. 22, 1960	35.84
				May 23, 1962	35.65
				May 14, 1963	33.04

Table 4.—Water Levels in Selected Wells in Somervell County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well XJ-32-50-305—Continued		Well XJ-32-50-801—Continued		Well XJ-32-51-701	
May 14, 1964	31.76	May 14, 1964	180.58	Owner: D. A. Odom	
May 3, 1965	31.46	May 3, 1965	182.39	1929	90.00
Apr. 4, 1966	32.11	Apr. 4, 1966	181.65	Aug. 11, 1950	91.50
Aug. 31, 1966	30.60	Mar. 13, 1967	180.94	Feb. 22, 1951	91.40
Sept. 28, 1966	28.02	Mar. 28, 1968	181.60	May 1, 1951	90.11
Oct. 27, 1966	28.51	Mar. 26, 1969	181.24	June 4, 1951	89.90
Nov. 29, 1966	28.61	Well XJ-32-51-501		May 13, 1953	90.81
Dec. 30, 1966	28.55	Owner: H. C. Polley		Dec. 8, 1954	93.06
Mar. 15, 1967	30.32	Sept. 14, 1950	63.29	June 14, 1955	91.74
May 3, 1967	30.15	Nov. 21, 1950	65.57	Dec. 11, 1956	92.21
June 8, 1967	32.92	Feb. 22, 1951	63.50	Nov. 21, 1957	92.08
June 30, 1967	34.80	Sept. 22, 1960	79.80	Sept. 21, 1960	91.11
Aug. 15, 1967	36.62	May 23, 1962	80.62	May 23, 1962	90.27
Sept. 14, 1967	43.41	May 3, 1965	87.22	May 14, 1963	90.58
Oct. 11, 1967	37.90	Apr. 4, 1966	95.00	May 14, 1964	91.25
Dec. 12, 1967	27.11	Mar. 16, 1967	90.53	May 3, 1965	90.84
Jan. 17, 1968	26.84	Mar. 27, 1968	91.84	Apr. 5, 1966	90.49
Feb. 9, 1968	24.88	Sept. 16, 1968	93.09	Mar. 13, 1967	91.59
Mar. 21, 1969	26.10	Mar. 21, 1969	92.90	Mar. 28, 1968	89.30
Well XJ-32-50-801		Well XJ-32-51-601		Mar. 21, 1969	91.50
Owner: C. D. Montgomery		Owner: A. E. Smith			
Sept. 22, 1960	180.64	Dec. 4, 1950	+ 33		
May 14, 1963	181.10	Mar. 16, 1967	22.41		
		Mar. 27, 1968	24.82		

SOMMERWELL COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kcb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Faluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

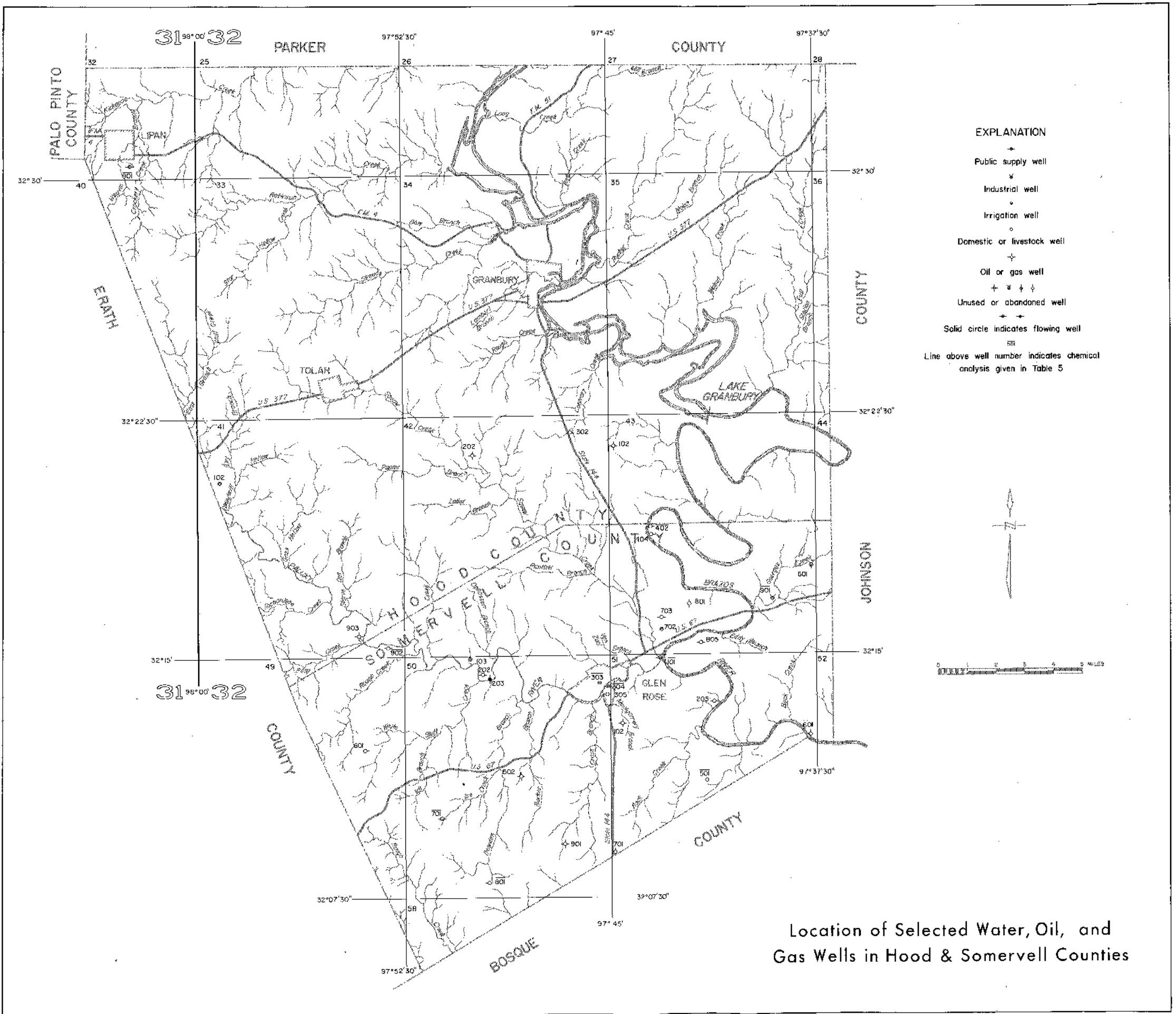
Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
y XJ-32-41-902	288	Sept. 16, 1950	Khe, Kpc, Kho	15	--	46	36	* 49	--	330	34	44	0.4	0.8	--	387	--	263	29	615	7.7	1.3
902	288	Sept. 16, 1968	do.	15	--	44	34	54	--	333	36	46	.4	< .4	--	393	--	248	32	674	7.7	1.5
y 43-402	200	Sept. 9, 1950	Khe	11	--	2.6	1.3	* 170	--	394	36	15	--	--	--	432	--	12	97	709	8.1	22.4
901	380	Sept. 17, 1968	do.	12	--	3	2	180	--	409	67	19	.9	< .4	--	493	--	16	96	790	8.3	19.6
y 50-303	325	Mar. 3, 1949	Kho	15	--	24	22	* 99	--	391	20	16	--	1.2	1.4	391	--	150	59	652	7.7	3.5
304	352	Aug. 19, 1968	Ktp	--	.24	21	18	107	--	390	21	17	.3	< .4	--	570	377	129	65	704	7.8	4.1
701	510	Sept. 16, 1968	Khe	15	.20	54	40	25	--	360	24	27	.4	< .4	--	362	--	299	15	640	7.7	0.6
801	225	do.	Kp	17	--	66	29	29	--	320	59	23	.4	< .4	--	380	--	286	18	641	7.5	.7
y 51-101	277	Sept. 9, 1950	Khe	14	--	11	6.6	* 145	--	352	39	15	--	2.5	--	421	407	54	85	646	8.5	8.5
501	370	Sept. 16, 1968	do.	14	--	13	10	147	--	366	67	17	1.2	< .4	--	449	--	75	81	725	7.9	7.4
y 601	375	Dec. 4, 1950	do.	12	--	3.4	1.6	* 173	--	363	56	14	--	.2	--	451	438	15	96	727	8.4	19.3

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

y U.S. Geological Survey Laboratory



Location of Selected Water, Oil, and Gas Wells in Hood & Somervell Counties

1875
1876
1877
1878
1879

TRAVIS COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kwb, Woodbine Group; Kra, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Kbe, Hensel Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-57-32-601	T. H. Varner	John Neine	1910	75	6	75	Kbe	850	65 15.1	July 1950 May 16, 1968	C, W	D, S	Well A-27 in 1957 Travis County report. Temp. 70°F. Texas Water Development Board observation well. <i>y</i>
* 801	Mrs. H. P. Hensel	S. W. Sanford	1948	125	6	40	Ktp	765	40 34.03	1949 May 15, 1968	C, G 1-1/2	D, S	Well A-25 in 1957 Travis County report. Open hole completion from 40 to 125 ft. Temp. 70°F. Texas Water Development Board observation well. <i>y</i>
* 802	do.	--	--	28	36	28	Kbe	770	23.35 23.1	June 2, 1966 May 16, 1968	C, W	D	Well A-26 in 1957 Travis County report. Dug well with stone wall from 28 ft to surface. Temp. 66°F. Texas Water Development Board observation well. <i>y</i>
* 803	R. H. Henry	S. W. Sanford	1947	103	6	103	do.	860	74.32 73.45	July 13, 1950 May 16, 1968	J, E	D, S	Well A-21 in 1957 Travis County report. Temp. 70°F. Texas Water Development Board observation well. <i>y</i>
* 901	Mrs. H. P. Hensel	--	1944	75	6	--	do.	720	--	--	C, E	D, S	Temp. 71°F.
* 40-201	J. D. Singleton	Doyle Baker	1949	159	4	159	Kbe	760	101 89.34	1949 May 16, 1968	Sub, E	D, S	Well B-9 in 1957 Travis County report. Slotted. Temp. 73°F. Texas Water Development Board observation well. <i>y</i>
* 202	do.	Wright Drilling Co.	1960	129	6	129	do.	725	--	--	C, R	D	Slotted. Temp. 73°F.
* 301	V. E. Grove	Sterzing Drilling Co.	1965	425	7 5	39 367	do.	970	300 240.49	Sept. 20, 1965 May 26, 1967	Sub, N	D, S	Open hole completion from 367 to 425 ft. Pumping level 325 ft at 12 gpm on Sept. 20, 1965. Temp. 73°F.
302	J. W. Bridgewater	Farrer Well Drilling Co.	1963	180	7	179	do.	715	70	Dec. 12, 1963	Sub, N 1/2	D	Slotted. Pumping level 103 ft at 15 gpm in Dec. 1966. Pump set at 168 ft. <i>y</i>
303	Emmett Bone	Sterzing Drilling Co.	1962	210	6	210	do.	695	60 16.20	July 28, 1962 May 16, 1968	--	D	Perforated from 165 to 185 ft. Cemented from 2 ft to surface. Texas Water Development Board observation well. <i>y</i>
304	Girl Scouts of America	do.	1966	256	7 4	226 256	Ktp	720	45 39.22	Mar. 4, 1966 May 17, 1968	Sub, E	P	Pumping level 56 ft at 23 gpm on Mar. 4, 1966. Cemented from 45 ft to surface. Texas Water Development Board observation well. <i>y</i>
501	Lower Colorado River Authority	--	1938	66	4	--	Kbe	760	41.49	Apr. 19, 1967	--	N	--
* 801	Tom Tiner	Central Texas Drilling Co., Inc.	1967	305	7 5	259 305	Kbe, Kho	820	180 126.12	Sept. 1967 May 17, 1968	Sub, E 3/4	D	Slotted from 100 to 110 and 265 to 305 ft. Reported yield 18 gpm. Texas Water Development Board observation well. <i>y</i>
48-601	Fred W. Shields	Kelley Water Well Service	1952	928	4	928	Kbe	1,190	--	--	N	N	Completed from 850 to 928 ft. Cemented from 928 ft to surface. <i>y</i>

See footnotes at end of table.

TRAVIS COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF GALT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
YD-57-48-602	Fred W. Shields	J. R. -Bob-Johnson Drilling and Supply	1964	904	5	904	Kho	1,165	--	--	Sub, E	D, S	Perforated from 826 to 834 ft. Cemented from 904 ft to surface.
901	do.	Starzng Drilling Co.	1954	960	7	960	do.	1,060	245.2	Mar. 26, 1968	N	N	Well K-29 in 1957 Travis County report. Perforated from 775 to 815 ft. Cemented from 821 ft to surface. <u>y</u>
* 902	do.	George Spring Drilling Co.	1967	728	5	728	do.	1,056	--	--	Sub, E	D, S	Gun perforated with 10 shots 660 to 670 ft and 10 shots 690 to 700 ft. Cemented from 728 ft to surface. Temp. 75°F.
* 58-25-401	G. H. Rodgers	J. D. Henderson	1944	375	6	30	Kgr, Kha	960	60 3.99	Aug. 1944 May 16, 1968	C,W,C	U, S	Well A-15 in 1957 Travis County report. Open hole completion from 30 to 375 ft. Texas Water Development Board observation well. <u>y</u>
403	do.	Arnold Insell	1910	425	8	--	Ktp	1,000	90.99	Nov. 7, 1940	N	N	Well A-17 in 1957 Travis County report. Well destroyed in 1967.
* 501	A. W. Lunsford	do.	1911	400	6	44	Kgr, Ktp	950	--	--	C, W	D, S	Open hole completion from 44 to 400 ft. Temp. 73°F.
* 801	George Agnew	Powell Drilling	1956	497	4	--	Ktp	890	99.88 102.7	May 31, 1966 May 16, 1968	C, W	D, S	Temp. 76°F. Texas Water Development Board observation well. <u>y</u>
* 802	Barnes-Jones Lumber Co.	do.	1961	600	8	--	Kgr, Ktp	855	286.4	Nov. 10, 1966	Sub, E	P	Temp. 73°F. Supplies Jonestown, Texas.
* 901	do.	do.	1966	643	7	535	do.	815	181.43 194.3	May 30, 1966 May 14, 1968	Sub, E	P	Open hole completion from 33 to 427 ft. Slotted from 535 to 630 ft. Pumping level 375 ft at 28 gpm. Temp. 73°F. Texas Water Development Board observation well. Supplies Jonestown, Texas. <u>y</u> <u>y</u>
* 26-403	Leander Limestone Corp.	A. J. Bartuge	1948	888	7	367	do.	1,110	318.9 323.4	Apr. 18, 1967 May 14, 1968	N	N	Open hole completion from 367 to 888 ft. Estimated yield 28 gpm. Texas Water Development Board observation well. <u>y</u>
404	do.	do.	1949	803	7	350	do.	1,110	334.5 324.9	Mar. 21, 1966 May 14, 1968	--, E	N	Open hole completion from 350 to 803 ft. Estimated yield 28 gpm. Texas Water Development Board observation well. <u>y</u> <u>y</u>
33-101	J. Syd Wheelless	J. D. Henderson	1947	513	5	20	do.	930	237.3 233.2	June 2, 1966 May 16, 1968	C, W	U, S	Well C-6 in 1957 Travis County report. Open hole completion from 20 to 513 ft. Texas Water Development Board observation well. <u>y</u>
* 102	Dr. C. Paul Harris	Wick Sanders Drilling Co.	--	600	--	--	do.	1,100	--	--	Sub, E	P	Temp. 84°F.
* 103	J. Syd Wheelless	Starzng Drilling Co.	1962	926	7	810	Ktp	1,220	450	Sept. 20, 1962	Sub, E 7-1/2	D, S	Perforated from 526 to 631 and 694 to 799 ft. Reported yield 36 gpm. Cemented from 20 ft to surface. <u>y</u> <u>y</u>
* 202	Barnes-Jones Lumber Co.	Powell Drilling	1966	365	7	68	Kgr, Ktp	880	188.7 194.2	June 15, 1966 May 16, 1968	C, E	D	Open hole completion from 68 to 365 ft. Reported yield 36 gpm. Temp. 71°F. Texas Water Development Board observation well. <u>y</u> <u>y</u>
* 203	do.	J. D. Henderson	--	600	--	--	do.	780	173.36	Nov. 10, 1966	Sub, E	P	Temp. 70°F. Supplies Jonestown, Texas.
* 204	do.	do.	--	620	6	--	do.	1,110	459.5	do.	Sub, E	P	Temp. 69°F. Supplies Jonestown, Texas.
* 205	do.	Powell Drilling	1960	600	--	--	do.	870	--	--	Sub, E	P	Temp. 74°F. Supplies Jonestown, Texas.

See footnotes at end of table.

TRAVIS COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE (ft)	DATE OF MEASUREMENT			
* YD-58-33-206	Emmett A. Jones	Powers Production Co.	1953	356	7	92	Kgr, Ktp	855	169.7	Nov. 8, 1966	N	N	Open hole completion from 92 to 356 ft. Temp. 72°F.
* 207	do.	J. H. Henderson	1949	525	6	44	do.	960	--	--	C, E	D	Open hole completion from 44 to 525 ft. Temp. 72°F.
208	-- Scott	Sterzing Drilling Co.	1963	630	8	98	do.	1,050	385	Apr. 22, 1963	C, E	D, S	Open hole completion from 98 to 630 ft. Pumping level 600 ft at 5 gpm in Apr. 1963.
* 301	John G. Johnson	do.	1963	545	7 6	65 208	Ktp	770	205 111.43	Feb. 27, 1963 May 30, 1966	Sub, E	F	Open hole completion from 208 to 545 ft. Pump set at 380 ft. Pumping level 260 ft at 15 gpm in Feb. 1963. Temp. 78°F.
* 302	John L. Chamberlain	Fowell Drilling	1963	665	--	--	Kgr, Ktp	880	--	--	Sub, E 1-1/2	D	Temp. 78°F.
* 303	Weldon S. Horton	Sterzing Drilling Co.	1965	530	5	530	Ktp	720	75	Apr. 30, 1965	--	D	Reported yield 15 gpm. Temp. 71°F. 1/
* 304	Scott Broadhus	W. H. Glass and Son	1963	360	--	--	do.	740	--	--	Sub, E	D	Temp. 71°F.
305	Walter C. Schwarzer	Sterzing Drilling Co.	1966	345	7	207	do.	740	125 118.59	1966 May 14, 1968	--	D	Open hole completion from 207 to 345 ft. Pumping level 200 ft at 12 gpm in 1966. Texas Water Development Board observation well. 4
* 401	Frank DeGroot	S. W. Glass Drilling	1938	422	6	14	Kgr, Ktp	970	342	Nov. 9, 1938	C, W	S	Well C-31 in 1957 Travis County report. Open hole completion from 14 to 422 ft. Reported 80 ft drawdown after hauling 5 gpm for 40 minutes. Temp. 73°F. 1/
* 402	Ivean Pearson	Audrey E. Samford	1964	535	7	30	do.	950	231.5	June 1, 1966	C, W	S	Open hole completion from 30 to 535 ft with 20 ft liner opposite salt water sand in the Glen Rose Formation. Pump set at 400 ft.
* 403	J. H. Shepler	Layne Texas Co.	1965	462	8 6	446 462	Kho	770	90 130.37	Oct. 1965 May 15, 1968	Sub, E 3	N	Slotted from 446 to 459 ft. Pumping level 244.31 ft at 23.5 gpm on Apr. 13, 1967. Pump set at 400 ft. Cemented. Temp. 74°F. Texas Water Development Board observation well. 2/ 4
* 501	John G. Johnson	Sterzing Drilling Co.	1962	422	7	25	Kgr, Ktp	785	167.8 162.6	Nov. 3, 1966 Apr. 12, 1967	Sub, E 3/4	F	Open hole completion from 25 to 422 ft. Reported yield 5 gpm. Texas Water Development Board observation well. 4
* 502	-- Walters	S. W. Glass Drilling	1951	520	8	490	Kho	715	90 39.72	Sept. 7, 1951 Nov. 21, 1966	Sub, E 1/2	D	Well C-89 in 1957 Travis County report. Open hole completion from 490 to 520 ft. Pump set at 200 ft. Reported yield 10 gpm. Temp. 72°F.
* 601	John G. Johnson	Sterzing Drilling Co.	1962	422	7	44	Kgr, Ktp	740	140	--	Sub, E 1-1/2	F	Open hole completion from 44 to 422 ft. Reported yield 10 gpm. Cemented from 5 ft to surface. Temp. 69°F.
* 602	H. C. Reed Estate	Ray Benton Bennett	--	802	7	250	do.	1,060	--	--	C, W	S	Open hole completion from 250 to 802 ft. Temp. 61°F.
* 603	R. C. Roberts	F. S. Barry	1939	440	--	--	do.	830	--	--	C, E	D	Well C-29 in 1957 Travis County report. Temp. 66°F.
* 604	Dodd & Reed	do.	1939	390	6	--	Kgr, Khe	815	--	--	Sub, E	D	Well C-26 in 1957 Travis County Report.

See footnotes at end of table.

TRAVIS COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* 58-58-33-605	Mrs. M. B. Cira	F. S. Berry	1939	440	6	340	Kcp	800	--	--	Sub, E 1	D	Well C-27 in 1957 Travis County report. Open hole completion from 340 to 440 ft. Temp. 74°F.
606	-- Cain	-- Glass Drilling	1965	404	7	5	K&P, Kcp	770	143	Nov. 18, 1965	Sub, E 1-1/2	D	Open hole completion from 5 to 404 ft. Pump set at 357 ft. Reported yield 8 gpm. Cemented from 5 ft to surface.
607	Ralph Q. Queen	do.	1966	437	7	15	do.	780	140	Jan. 5, 1966	Sub, E	D	Open hole completion from 15 to 437 ft. Reported yield 8 gpm. Cemented from 15 ft to surface.
* 609	Marvin Kruetz	Sterzing Drilling Co.	1963	480	6	209	do.	730	--	--	Sub, E	D	Well deepened from 417 to 709 ft. Open hole completion from 209 to 480 ft. Temp. 73°F. Well drilled to 709 ft and plugged back to 480 ft.
* 610	Oliver Crumley	Jimmie Calhoun Drilling & Service	1950	215	6	20	Kgr	725	--	--	C, E	D	Open hole completion from 20 to 215 ft. Temp. 74°F.
611	Charles Dwyer	Sterzing Drilling Co.	1966	512	7	44	K&P, Ktp	840	250.3 231.1	Dec. 5, 1966 May 14, 1968	Sub, E	D	Open hole completion from 44 to 512 ft. Reported yield 15 gpm. Texas Water Development Board observation well. <u>4</u>
* 612	John D. Strickland	--	--	201	4	--	Kgr, Khe	720	60.60	Nov. 18, 1966	N	N	Temp. 71°F.
613	John B. Stidham	Sterzing Drilling Co.	1963	670	7	270	Kgr, Ktp	990	430	Apr. 28, 1963	Sub, E 1-1/2	D	Open hole completion from 270 to 670 ft. Reported yield 10 gpm.
614	E. S. Burke	do.	1964	407	7	22	do.	730	--	--	--	D	Open hole completion from 22 to 407 ft.
* 615	Lula Long Howell	Wright Drilling Co.	1967	675	7 5	600 675	Kho, P	720	33.1 91.63	Jan. 29, 1968 May 14, 1968	Sub, E 1-1/2	D	Slotted from 606 to 627 and 665 to 675 ft. Pump set at 300 ft. Measured yield 20 gpm. Temp. 70°F. Texas Water Development Board observation well. <u>3</u> <u>4</u>
* 801	E. W. Sternberg	J. R.-Bob-Johnson Drilling and Supply	1939	725	6	--	Kgr, Kcp	830	85 206.26	Nov. 1939 Apr. 26, 1968	Sub, E 3	D, Irr	Well C-91 in 1957 Travis County report. Texas Water Development Board observation well. <u>4</u>
* 802	Mrs. C. S. Clark	Sterzing Drilling Co.	1953	641	5	555	Kho	820	200 155.7	1953 Feb. 8, 1953	C, E	D	Well C-92 in 1957 Travis County report. Open hole completion from 555 to 641 ft. Reported yield 24 gpm.
* 803	B. A. Steinhagen	J. R.-Bob-Johnson Drilling and Supply	1939	620	5	566	do.	830	219.5 225	Nov. 3, 1939 Nov. 6, 1939	C, E	D	Well C-62 in 1957 Travis County report. Open hole completion from 566 to 620 ft. Drawdown reported 3 ft after well was bailed at 40 gpm for 3 minutes. <u>3</u>
* 804	E. E. Teers	A. J. Hayden	1947	598	8	12	Kgr, Ktp	820	120	1947	Sub, E 3	D	Well C-60 in 1957 Travis County report. Open hole completion from 12 to 598 ft. Temp. 73°F.
* 805	Apache Shores Utilities Co.	Central Texas Drilling Co., Inc.	1968	720	7 5	475 720	Kho	780	90 146.0	Apr. 18, 1968 Apr. 26, 1968	Sub, E 15	F	Perforated from 500 to 548 and 680 to 720 ft. Pumping level 120 ft at 27 gpm on Apr. 18, 1968. Cemented from 475 to 250 ft. Temp. 76°F. <u>3</u>
* 901	Dudley Cotton	Sterzing Drilling Co.	1964	687	7 4	148 687	do.	780	117.83 101.98	May 27, 1966 May 14, 1968	Sub, E	D	Completed from 572 to 687 ft. Reported yield 15 gpm. Temp. 72°F. Texas Water Development Board observation well. <u>4</u>
* 902	Bureau of Reclamation, U.S. Department of the Interior	J. R.-Bob-Johnson Drilling and Supply	1937	716	6 5	528 716	do.	750	--	--	C, E	D	Well C-55 in 1957 Travis County report. Perforated from 628 to 716 ft. Reported yield 15 gpm. Well caved at 20 ft.

See footnotes at end of table.

TRAVIS COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft.)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft.)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAM-ETER (in.)	DEPTH (ft.)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft.)	DATE OF MEASUREMENT			
* YD 58-33-904	Cene Norman and E. T. Holly	J. R.-Bob-Johnson Drilling & Supply	1937	500	6	500	Ktp	760	400	Nov. 19, 1940	C, R 8	P	Well C-53 in 1957 Travis County report.
905	Olen Hager	Raymond Oren Whisenant	1966	260	7	80	Kst, Kbc	720	127.78	May 13, 1968	N	N	Open hole completion from 80 to 260 ft.
* 34-401	J. D. Hill	S. W. Glass Drilling	1953	821	8	--	Eho	750	100	1953	N	N	Well C-90 in 1957 Travis County report. Open hole completion from 600 to 821 ft. Well plugged and abandoned. <u>3</u>
402	do.	do.	1954	650	7	600	do.	730	137	1954	J, E	N	Well C-94 in 1957 Travis County report. Open hole completion from 600 to 650 ft. Water reported to be highly mineralized.
* 603	Balcones Country Club	Stenzing Drilling Co.	1960	1,253	7	980	do.	940	65 71.4	Nov. 16, 1960 May 16, 1968	Sub, E	Irr	Well deepened from 1,118 to 1,253 ft. Open hole completion from 980 to 1,253 ft. Pumping level 280 ft at 6.3 gpm on Apr. 11, 12, 1967. Pumping level 321 ft at 23 gpm on July 6, 1967. Pump set at 480 ft. Estimated yield 25 gpm. Obstruction at 1,100 ft. Texas Water Development Board observation well. <u>3 3 4</u>
604	do.	do.	1959	850	--	--	Ktp	935	94.3 45.8	Feb. 16, 1967 May 16, 1968	Sub, E	N	Reported yield 45 gpm. Texas Water Development Board observation well. <u>4</u>
* 703	Earl Blackmore	do.	1965	650	7	407	Kgr, Kbc	1,020	280 454.3	Oct. 29, 1965 Apr. 12, 1967	--	D	Open hole completion from 407 to 650 ft. Pumping level 350 ft at 15 gpm on Oct. 29, 1965. Temp. 75°F. <u>3</u>
* 801	W. L. Richards	A. J. Bartuge	1949	968	5	710	Kho	740	126 153.0	Feb. 27, 1950 May 15, 1968	--	D	Well D-10 in 1957 Travis County report. Well deepened from 145 to 968 ft. Open hole completion from 710 to 968 ft. Texas Water Development Board observation well. <u>3 4</u>
35-4D2	Austin White Lime Co.	Central Texas Drilling Co., Inc.	--	250	--	--	Kca	835	--	--	C, E 2	P, Ind	Well supplies McNeil, Texas.
403	do.	Stenzing Drilling Co.	1964	54	10	54	do.	845	15	--	C, B 2	P, Ind	Perforated. Reported yield 75 gpm. Well supplies McNeil, Texas.
404	do.	do.	1959	410	7	180	do.	840	58.2	Jan. 23, 1969	Sub, E 1-1/2	P, Ind	Open hole completion from 180 to 410 ft. Reported yield 25 gpm. Well supplies McNeil, Texas.
405	do.	do.	1959	100	7	70	do.	845	60	--	N	N	--
406	do.	do.	1962	406	7	32	do.	835	150 58.2	Aug. 20, 1962 Jan. 23, 1969	N	N	Open hole completion from 32 to 406 ft. Reported yield 18 gpm. Cemented from 5 ft to surface.
407	do.	Virdell Brothers Drilling Co.	1952	391	--	15	do.	840	62 58.2	Jan. 1952 Jan. 23, 1969	Sub, N 3	N	Open hole completion from 15 to 396 ft.
408	do.	do.	1953	370	10	--	do.	840	130 84.5	June 1953 Jan. 23, 1969	Sub, E 2	N	Open hole completion from 63 to 370 ft. Reported yield 21 gpm. <u>3</u>
409	do.	Stenzing Drilling Co.	1963	200	7	50	do.	840	160	Apr. 18, 1963	T, E 34	N	Open hole completion from 50 to 200 ft. Reported yield 5 gpm. Cemented from 3 ft to surface.
* 701	The University of Texas	Texas Water Wells	1942	610	10	228	do.	790	164.4 222.3	Oct. 29, 1942 May 19, 1952	Sub, N 42	Ind, Irr	Well D-72 in 1957 Travis County report. Open hole completion from 228 to 610 ft. Pumping level 236 ft at 185 gpm on Oct. 29, 1942. Cemented from 228 ft to surface.
* 803	A. W. Cox	--	1900	1,400	7	20	do.	660	12.82 12.96	June 5, 1940 May 20, 1966	Sub, N	P	Well D-59 in 1957 Travis County report. Open hole completion from 20 to 1,400 ft.

See footnotes at end of table.

TRAVIS COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASING		WATER BEARING	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-41-301	George Palford	W. H. Glass and Son	1967	489	7	482	Kbe	740	72.18	May 13, 1968	Sub, K 2	D	Open hole completion from 482 to 489 ft. Pump set at 360 ft. Reported yield 15 gpm. Cemented from 475 ft to surface. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
* 701	Fred W. Shields	George Spring Drilling Co.	1967	628	5	628	Kho	750	288.9	Mar. 26, 1968	Sub, E	D, S	Perforated from 540 to 547 ft. Pump set at 500 ft. Cemented from 628 ft to surface. Temp. 70°F.
* 42-101	Frank Tull	W. H. Glass and Son	1966	499	7	480	do.	520	+ 31.0	May 30, 1966	Flows	D	Open hole completion from 480 to 499 ft. Measured flow 1.75 gpm. Temp. 74°F. <u>Z</u>
* 102	Dr. Joe J. Hanus	Sterzing Drilling Co.	1959	490	7	393	do.	500	+	--	Flows	D	Open hole completion from 393 to 490 ft. Estimated flow 3 gpm. Temp. 74°F.
* 103	Devereux School	A. C. Clements	1950	466	6	466	Ktp	640	125.92	Nov. 18, 1966	Sub, E	D	Well G-79 in 1957 Travis County report. Temp. 67°F. <u>Y</u>
202	Marion Fowler	S. W. Glass Drilling	1965	651	6	572	Kbo	660	134.34 149.73	May 25, 1966 May 14, 1968	Sub, E 10	P	Open hole completion from 572 to 651 ft. Pump set at 400 ft. Cemented from 572 ft to surface. Texas Water Development Board observation well. <u>Y</u> <u>Z</u> <u>Y</u>
203	Dewitt Langford	Texas Water Wells	1951	920	8 6	860 860	do.	600	18.75	Mar. 4, 1955	N	N	Well D-178 in 1957 Travis County report. Screened from 860 to 920 ft. Reported yield 10 gpm. Cemented from 860 ft to surface. Well drilled to 1,127 ft and plugged back to 920 ft. <u>Y</u>
* 301	Boy Scouts of America	J. R. Bob-Johnson Drilling and Supply	--	852	8 6	-- --	Klp	510	1-37 + 1.1	Sept. 1934 May 25, 1966	Flows	P	Well D-168 in 1957 Travis County report. Measured flow 40 gpm. Temp. 78°F.
* 302	M. K. Hart	do.	1950	1,135	6	794	do.	810	150 288.18	Mar. 1950 May 14, 1968	Sub, E 10	D	Well D-163 in 1957 Travis County report. Slotted from 691 to 794 ft and open hole completion from 794 to 1,135 ft. Pumping level 250 ft at 50 gpm in Mar. 1950. Pump set at 450 ft. Temp. 83°F. Well drilled to 1,138 ft. Texas Water Development Board observation well. <u>Y</u> <u>Y</u>
303	David B. Barrow	W. H. Glass and Son	1959	1,251	9	550	Kgr, Ktp	790	225.1 207.82	Apr. 10, 1967 May 14, 1968	--	N	Open hole completion from 550 to 1,251 ft. Texas Water Development Board observation well. <u>Z</u> <u>Y</u>
* 401	Dilfton S. Winstead	S. W. Glass Drilling	1950	716	8	625	Ktp	820	212 242.3 243.75	Apr. 13, 1951 May 30, 1966 May 19, 1967	Sub, E 1-1/4	P	Well J-20 in 1957 Travis County report. Well deepened from 690 to 716 ft in May 1951. Open hole completion from 625 to 716 ft. Reported drawdown 65 ft at 10 gpm after pumping 1 hour. Pump set at 363 ft. <u>Y</u>
402	do.	Sterzing Drilling Co.	1962	930	7 5	649 930	do.	830	240 273.67	Oct. 12, 1962 May 19, 1967	Sub, E	P	Cemented from 449 to 649 ft. Well drilled to 1,100 ft but plugged back to 930 ft. Texas Water Development Board observation well. <u>Y</u>
* 501	West Lake Water Supply Corp.	Farrer Well Drilling Co.	1954	941	7	857	do.	990	392 419.53	Apr. 14, 1954 May 13, 1968	N	N	Well H-217 in 1957 Travis County report. Open hole completion from 857 to 931 ft. Pumping level 482 ft at 17 gpm on Apr. 14, 1954. Reported yield 27 gpm. Texas Water Development Board observation well. <u>Y</u>

See footnotes at end of table.

TRAVIS COUNTY

Table 1.--Records of Selected Water 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
					DJAM-METER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-42-502	St. Stephens Episcopal School	Layne Texas Co.	1949	1,015	8 6 4	290 640 1,015	Ktp	753	158 152 223.44	June 17, 1949 Aug. 1950 May 19, 1966	T, E 3	P	Well H-212 in 1957 Travis County report. Screened from 638 to 688, 774 to 814, and 928 to 1,014 ft. Pump set at 250 ft. Reported yield 39 gpm. Cemented from 229 ft to surface. <u>Y Z</u>
* 503	Fred Morris	Charles Galboun	1955	987	11 5 3	4 647 985	Kho	685	145 127.78	Apr. 5, 1955 May 13, 1968	C, E 1	D	Well H-210 in 1957 Travis County report. Slotted from 925 to 985 ft. Drawdown 19 ft after bailing for 11 minutes at 17 gpm. Cemented from 4 ft to surface. Texas Water Development Board observation well. <u>Y Z Y</u>
* 504	West Lake Water Supply Corp.	S. W. Glass Drilling	1954	786	7	669	do.	740	206 185.48	July 16, 1954 May 13, 1968	N	N	Well H-196 in 1957 Travis County report. Open hole completion from 669 to 786 ft. Pumping level 318 ft at 16.7 gpm on May 13, 1955. Temp. 76°F. Well plugged and abandoned. Texas Water Development Board observation well. <u>Y Z Y</u>
* 505	E. H. Shelton	A. C. Clements	1947	961	4	961	Rtp	954	346.0	Aug. 1952	C, E 5	N	Well H-42 in 1957 Travis County report. Pump set at 630 ft.
* 506	Mike Butler	do.	1950	938	5 4	802 847	Kho	872	--	--	C, K 3	D	Well H-40 in 1957 Travis County report. Well deepened from 556 to 938 ft. Open hole completion from 847 to 938 ft. Pump set at 526 ft. Cemented from 802 ft to surface.
* 507	Ralph E. Jones	Storz Drilling Co.	1955	1,045	6 5 4	790 813 1,045	do.	880	320	Apr. 1955	Sub, E	D	Well H-209 in 1957 Travis County report. Slotted from 919 to 1,045 ft. Drawdown approximately 180 ft after pumping 12 hours at 15 gpm. Temp. 81°F.
* 508	Man Williams	Farrer Well Drilling Co.	1954	500	7	300	Kgr	880	342	Sept. 21, 1954	C, E	D	Well H-195 in 1957 Travis County report. Open hole completion from surface to 279 ft and from 300 to 500 ft. Reported drawdown 60 ft when bailing at 15 gpm in Sept. 1954.
* 701	Marshall and Troupe	Shell Oil Co.	1931	900	8	946	Kho	845	200 242.06	Mar. 1939 May 19, 1967	C, K	D, S	Well J-22 in 1957 Travis County report. Perforated. Temp. 74°F. Well originally drilled as oil test to 1,835 ft and plugged back to 900 ft. Texas Water Development Board observation well. <u>Y Z</u>
* 802	Country Day School	A. C. Clements & S. W. Glass Drilling	1946	1,043	7	760	Kho	740	149 172.59	June 4, 1949 May 13, 1968	T, G 22	P	Well H-49 in 1957 Travis County report. Well deepened from 922 to 1,043 ft. Open hole completion from 760 to 1,043 ft. Pump set at 320 ft. Texas Water Development Board observation well. <u>Y</u>
* 803	R. D. Johnson	Farrer Well Drilling Co.	1955	897	7	107	Kgr, Ktp	760	280 208	Mar. 11, 1955	N	D	Well H-205 in 1957 Travis County report. Open hole completion from 107 to 897 ft. Reported yield 22 gpm. <u>Y</u>
804	West Lake Hill Presbyterian Church	Storz Drilling Co.	1956	1,035	7	222	do.	750	247 240	Mar. 10, 1955 Dec. 1956	N	D	Well H-206 in 1957 Travis County report. Well deepened from 349 to 1,035 ft. Open hole completion from 222 to 1,035 ft. Reported yield 15 gpm.
* 805	Esnee School	S. W. Glass Drilling	1954	876	7	705	Ktp	770	184	Dec. 1, 1954	--	1st	Well H-197 in 1957 Travis County report. Open hole completion from 705 to 876 ft. Reported drawdown 190 ft when bailing at 22 gpm in Nov. 1954.
* 43-102	Dr. E. W. Wupperman	A. J. Bartuge	1950	909	5	730	do.	800	185 146.9	June 1950 June 24, 1952	N	N	Well H-118 in 1957 Travis County report. Reported yield 20 gpm. Well clogged.

See footnotes at end of table.

TRAVIS COUNTY

Table 1.--Records of Selected Water Wells--Continued

WELL	OWNER	DIRECTION	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)			ABOVE (1) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-43-401	State of Texas	H. McGillivray	1895	1,975	--	--	Klp	635	+ 40	1895	T, E	N	Well H-19 in 1957 Travis County report. Reported flow 104 gpm when drilled. Well destroyed. <u>Y</u>
* 702	do.	--	1890	1,554	8	--	do.	543	+ 30.0 + 35.0	May 17, 1966 Apr. 24, 1968	Flows	F	Well H-67 in 1957 Travis County report. Flowing level +1.3 ft at 12.8 gpm on Nov. 23, 1964. Reported flow 60 gpm in 1890. Temp. 95°F. Texas Water Development Board observation well. <u>Y</u>
* 703	Driskill Hotel	--	1900	2,250	5	1,580	Kho	495	+ 66 + 50.0	1941 Apr. 24, 1968	Flows	F	Well H-69 in 1957 Travis County report. Open hole completion from 1,580 to 2,250 ft. Flowing level +16.8 ft at 19.6 gpm on Oct. 15, 1964. Temp. 95°F. Texas Water Development Board observation well. <u>Y</u>
* 704	F. S. Perry	H. McGillivray	1899	2,025	10 8 7 6	300 900 1,200 1,400	do.	485	+ 38	Sept. 8, 1937	N	D	Well H-70 in 1957 Travis County report. Open hole completion from 1,400 to 2,025 ft. Reported flow 170 gpm in 1899. Temp. 100°F. <u>Y</u>
* 801	Stanley Smith and Menking	--	1916	1,147	6	--	Ktp	480	+ 92 + 52	1938 June 11, 1956	Flows	N	Well H-71 in 1957 Travis County report. Flowing level 0 at 40 gpm on June 12, 1956. Reported flow 200 gpm in 1938. <u>Y</u>
* 44-201	City of Manor	W. B. Hinton	1936	3,001	8 6 4	1,807 2,785 3,001	Kho	535	+ 116 + 80 + 54	1936 Mar. 20, 1941 June 2, 1949	Sub, E Flows	F	Well E-46 in 1957 Travis County report. Screened from 2,941 to 3,001 ft. Flowing level + 3.5 at 48.8 gpm on June 2, 1949. Reported flow 150 gpm in 1936 and 110 gpm on Mar. 20, 1941. Cemented from 1,807 ft to surface. Temp. 110°F. <u>Y</u>
202	do.	Eppright and H. McGillivray	1895	2,560	6 4	-- 2,560	Kcp	535	100	1895	N	N	Well E-48 in 1957 Travis County report. Perforated from -- to 2,560 ft. Reported flow 70 gpm. Temp. 93°F. Casing collapsed in 1910. <u>Y</u>
* 601	James P. Wash	Brewster and Bartle	1952	3,250	5	3,000	Kho	608	12	1960	Sub, E	S	Open hole completion 3,000 to 3,250 ft. Pumping level 80 ft at 100 gpm. Cemented from 3,000 ft to surface. Temp. 94°F. Well originally drilled as oil test to 4,507 ft and plugged back to 3,250 ft. <u>Y</u>
* 51-102	City of Austin	Layne Texas Co.	1932	2,246	6 5 4	1,634 1,878 2,246	do.	530	+ 66 1.37	Oct. 29, 1932 Apr. 25, 1968	T, E 7-1/2	N	Well H-87 in 1957 Travis County report. Perforated from 1,709 to 1,731, 1,772 to 1,817, 1,837 to 1,859, 1,879 to 2,077, 2,099 to 2,118, and 2,140 to 2,224 ft. Reported flow 112 gpm in Oct. 1932. Reported yield 200 gpm in 1937. Temp. 100°F. Texas Water Development Board observation well. <u>Y</u> <u>Z</u> <u>Y</u>
* 103	O. O. Norwood	-- Garrick	1929	1,595	8	1,595	Kcp	475	+ 102 + 74.0	1929 Apr. 24, 1968	Flows	N	Well H-86 in 1957 Travis County report. Reported flow 83 gpm in 1929. Temp. 94°F. Texas Water Development Board observation well. <u>Y</u>
* 701	D. Collins	H. Nallo, et al.	1920	2,425	4	--	do.	575	+	Aug. 18, 1937	N	S	Well L-22 in 1957 Travis County report. Temp. 93°F.

See footnotes at end of table.

TRAVIS COUNTY

Table 1.--Records of Selected Water 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)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* YD-58-51-901	Clarence Philquist	Allan and Stoffey	1929	3,008	10 6	114 2,719	kho	480	+ 92 + 80	Apr. 1929 1937	N	N	Well L-31 in 1957 Travis County report. Open hole completion from 2,719 to 3,008 ft. Reported flow 35 gpm on Dec. 9, 1939. Temp. 100°F. Originally drilled as oil test. Well destroyed. 1/

* For chemical analysis of water, see Table 5.

1/ For driller's log of well, see Table 3.

2/ Electric logs in files of the Texas Water Development Board, Austin, Texas.

3/ For results of pumping tests, yields, and specific capacities of wells, see Table 4, Volume 1.

4/ For water-level measurements, see Table 4.

TRAVIS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
YD-68-25-402	P. F. Griffin	G. H. Rodgers No. 1	1919	789	1,024	D
33-201	Powers Production Co.	E. A. Jones No. 1	1953	3,000	855	D,E
701	—	Bureau of Reclamation— U.S. Dept. of the Interior	1936	100	573	D
903	—	do.	1936	344	538	D
35-709	Texas Water Supply Co.	The University of Texas	1942	1,833	785	D

TRAVIS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-57-40-302			Well YD-58-25-402		
Owner: J. W. Bridgewater Driller: Farrer Well Drilling Co.			Owner: G. H. Rodgers Driller: P. F. Griffin (Partial log)		
Sand, gravel	30	30	Lime and sandstone	49	49
Hard, gray lime	23	53	Limestone, gray	35	84
White lime	12	65	Limestone, gray, shelly	46	130
Blue clay	8	73	Limestone, shelly	85	215
Light red clay	12	85	Lime and sandstone	36	251
Red clay with dark gravel	22	107	Gumbo, blue	7	258
Tan, sand rock, hard	6	113	Limestone	107	365
Dark red clay	12	125	Limestone, and shale	14	379
Red clay, sand, and gravel (water)	12	137	Gravel, coarse-grained, water-bearing	66	445
Hard, tan sand rock	6	143	Gravel, coarse-grained, water-bearing, lime	35	480
Red clay, gravel	24	167	Limestone boulders, hard, blue gumbo in layers	11	491
Coarse gravel	7	174	Lime, gypsum, blue gumbo in layers	17	508
Fine white sand, second Trinity, lots of water	6	180	Limestone	6	514
Well YD-57-48-901			Limestone, hard	15	529
Owner: Fred W. Shields Driller: Sterzing Drilling Co. (Log from Texas Board of Water Engineers Bulletin 5708)			Shell, hard layers of limestone	7	536
Boulders and gravel	20	20	Shale, shelly, shell, and hard limestone, shale in layers	5	541
Rock	100	120	Gumbo, brown and blue in layers	17	558
Limestone	450	570	Sand rock	6	564
Clay, blue	33	603	Gumbo, chocolate-colored	17	581
Rock	22	625	Limestone, hard	1	582
Rock, sandy	15	640	Shale, brown and blue	4	586
Clay, brown	62	702	Shale, brown and blue, boulders	26	612
Clay, pink	41	743	Gravel, red, and gumbo	12	624
Shale, blue	3	746	Limestone	15	639
Clay, light-brown	4	750	Gumbo, red	15	654
Shale, blue	5	755	Gumbo, blue, lime layers	3	657
Gravel	3	758	Lime and blue gumbo in layers	8	665
Shale	3	761	Gumbo, blue, and lime layers	7	672
Rock, hard	29	790	Lime and gypsum in layers	4	676
Shale, green	100	890	Gypsum and lime	3	679
Sand	70	960			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-25-402—Continued			Well YD-58-33-103—Continued		
Lime rock	20	699	Trinity sand	13	813
Lime, gray, shelly	29	728	Hard, shop lime	5	818
Shale and gumbo in thin layers	15	743	Sandy	37	855
Shale, blue and brown, gumbo with sand and sulfur	30	773	Streaks of red shale	5	860
Gumbo, blue with sand	5	778	Sand	7	867
Shale, blue, and sand	3	781	Hard, green shale	6	873
Corrected depth	—	653	Sand	11	884
Shale, gumbo, boulders	15	668	Soft sand	21	905
Gumbo, blue and shale	88	756	Brown, hard cap	7	912
Shale, blue and brown gumbo	10	766	Green shale	14	926
Shale, gumbo, and lime	5	771	Well YD-58-33-201		
Gumbo, blue	3	774	Owner: E. A. Jones		
Sand and lime	2	776	Driller: Powers Production Co.		
Lime, sand, and gumbo	12	788	(Log from Texas Board of Water Engineers Bulletin 5708)		
Lime and sand	5	793	Limestone, gray, with much gypsum	325	325
Sand, dark gray	2	795	Sand	30	355
Lime, and sand rock	8	803	Limestone, grayish-white	30	385
Shale, black	12	815	Limestone, grayish-white, and gypsum	11	396
Corrected depth	—	764	Limestone, grayish-white	41	437
Lime, and sand rock	4	768	Limestone, grayish-white, and pyrite	9	446
Iron, rock	6	774	Sandstone, soft, fine	6	452
Slate	11	785	Sandy limestone	23	475
Slate, iron, rock	3	788	Sand	32	507
Gumbo, blue white, and gravel	4	792	Sand, red	4	511
Slate	12	804	Sand and gravel	16	527
Corrected depth	—	789	Sand	12	539
Well YD-58-33-103			Sand, red	21	560
Owner: J. Syd Wheless			Sand and rock fragments, red	25	585
Driller: Sterzing Drilling Co.			Sand, with some chert	45	630
Ream old well	628	628	Gravel, cherty, red and yellow	16	646
Water, rock	25	653	Clay, blue, and rock fragments	34	680
Brown rock	17	670	Gravel	6	686
Gray lime	60	730	No record	9	695
Travis Peak shale	57	787	Sandstone and shale, dark gray, very hard	2,305	3,000
Blue shale	3	790			
Hard cap	.5	790.5			
Hard Trinity sand	9.5	800			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-33-303			Well YD-58-33-615—Continued		
Owner: Weldon S. Horton Driller: Sterzing Drilling Co.			Sand	2	477
Surface	5	5	Red bed	3	480
Gravel and hard cap	45	50	Red bed	14	494
Gray lime	60	110	Shale and sandy lime (from 500 ft on driller had heaving shale problem)	181	675
Blue lime	15	125	Well YD-58-33-701		
Gray lime	115	240	Owner: Bureau of Reclamation, U.S. Department of the Interior Driller: Unknown (Log from Texas Board of Water Engineers Bulletin 5708)		
Blue clay	10	250	River sand and gravel	16	16
Gray lime	70	320	Clay, red, and pebbles	5	21
Blue clay	30	350	Clay, soft, red	4	25
Gray lime	15	365	Sand, fine-grained, unconsolidated	1.5	26.5
Travis Peak	135	500	Clay, soft, red, with occasional seams and patches of very fine poorly consolidated quartz sand	18.5	45
Trinity sand	30	530	Conglomerate, loosely cemented, rounded pebbles, flowed 1/2 gpm	2	47
Well YD-58-33-401			Clay, red, marly spots	3	50
Owner: Frank DeGroot Driller: S. W. Glass Drilling (Log from Texas Board of Water Engineers Bulletin 5708)			Clay, soft, red, sandy at bottom	10	60
Limestone, white and yellow	14	14	Sand, quartz, very fine	5	65
Limestone, gummy, blue	326	340	Quartz grains, rounded, in marly cement	1	66
Limestone, blue, with grit	50	390	Sand, fine	5	72
Limestone, white, and sand	16	406	Pebble conglomerate, loosely cemented, some clay	9	81
Sand	16	422	Clay, red, sandy	4	85
Well YD-58-33-615			Limestone pebbles conglomerate	1	86
Owner: Lula Lung Powell Driller: Wright Drilling Co.			Marl, fine-grained, sandy, and clay	3	89
Lime and shale	275	275	Marl, fine-grained, dense, with small pebbles	3	92
Sandstone	9	284	Marl, fine-grained, dense, multi-colored, and pebbles conglomerate in lime matrix	8	100
Shale	3	287	Well YD-58-33-803		
Sandstone	26	313	Owner: B. A. Steinhagen Driller: J. R. -Bob- Johnson Drilling and Supply (Log from Texas Board of Water Engineers Bulletin 5708)		
Lime	27	340	Soil	1	1
Shale and limestone	5	345	Adobe	3	4
Lime and shale	30	375			
Shale	48	423			
Lime	7	430			
Sand (tight)	5	435			
Sand and lime shells	10	445			
Sand and shale	17	462			
Water sand	3	465			
Conglomerate	10	475			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-33-803—Continued			Well YD-48-33-903—Continued		
Lime, yellow	8	12	Limestone, dark-gray, argillaceous, some small fossils	10.33	107.25
Lime, blue	8	20	Limestone, patchy	2.75	110
Lime, broken	60	80	Limestone, dark-gray, full of small shells	9.08	119.08
Lime, blue	92	172	Limestone, patchy	4.5	123.58
Shale, blue	13	185	Limestone, soft, dark-gray, fine, dense	9.68	133.26
Lime, blue	115	300	Limestone, white, granular	1	134.26
Shale, blue	9	309	Marl	.5	134.76
Lime, blue	31	340	Limestone, white, granular, extremely porous zones last 3 ft	8.08	142.84
Lime, gray	32	372	Limestone, fine, dense	5.17	148.01
Cap rock	8	380	Limestone, fine, arenaceous	5.75	153.76
Sand	4	384	Limestone, dark, fine grain, very fossiliferous, porous	10.75	164.51
Shale	2	386	Shell limestone	3.5	168.01
Sand	2	388	Limestone, patchy	2	170.01
Shale	3	391	Limestone, fine, dense, few small shells	6.83	176.84
Sand	11	402	Limestone, very fossiliferous	9.25	186.09
Lime, blue, porous	121	523	Limestone, fine, dense, fossil	3.5	189.59
Shale, blue, sticky	29	552	Limestone, fine, dense	3	192.59
Shale, red, sticky	12	564	Limestone, fossil	.83	193.42
Trinity sand	56	620	Limestone, dark, argillaceous	.92	194.34
			Fossil limestone	4.25	198.59
Well YD-58-33-903					
Owner: Bureau of Reclamation, U.S. Department of the Interior					
Driller: Unknown					
(Log from Texas Board of Water Engineers Bulletin 5708)					
River silt and sand	43.5	43.5	Limestone, fine, dense sandy, few fossils last 3 ft	15.25	213.84
Boulders, sand, and gravel	6.5	50	Limestone, fine, dense fossiliferous	3	216.84
Limestone, soft, weathered	3	53	Full of small shells	2.08	218.92
Limestone, hard, fine, dense, small shells	1.17	54.17	Fossil limestone	1.08	220
Limestone, fossil	6.5	60.67	Limestone, argillaceous, fossil	1	221
Full of small shells	8	68.67	Limestone, porous, shell	4.68	225.68
Fossil limestone, argillaceous seams	1.17	69.84	Shell reef - <i>Ostrea</i>	4.58	230.26
Limestone, fine, dense	1.08	70.92	Limestone, fine, dense, dark-gray, slightly sandy	4.25	234.51
Full of small shells	5.33	76.25	Limestone, very fossiliferous	1.5	236.01
Fossil limestone, last 2 feet granular	5.25	81.5	Limestone, dark, fine, dense	.68	236.69
Limestone, argillaceous	2	83.5	Limestone, very fossiliferous	4	240.69
Limestone, fine, white, granular	2	85.5	Limestone, fine, dense, dark-gray, and alternating beds of fossil limestone	4	244.69
Full of small shells	1.25	86.75	Limestone, very fossiliferous	1.5	246.19
Fossil limestone	5.25	92			
Full of small shells	4.92	96.92			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-34-603—Continued			Well YD-58-34-801—Continued		
Gray, sandy lime	27	1,145	No record	22	640
Red shale	20	1,165	Sand, lime, water-bearing	5	645
Streaks of red shale and sandy lime	10	1,175	No record	45	690
Gray, sandy lime	37	1,212	Shale, blue, and gumbo	30	720
Green shale	3	1,215	Gumbo, blue	70	790
Lime	1	1,216	Sand, quartz	10	800
Green shale	9	1,225	No record	20	820
Gray, sandy lime	20	1,245	Clay, red, and rock	5	825
Hard, black shale and lime	8	1,253	No record	25	850
Well YD-58-34-703			Sand, red, and clay	5	855
Owner: Earl Blackmore Driller: Sterzing Drilling Co.			No record, water at 880 ft	35	890
Surface	5	5	Limestone, gray	5	895
Ledge stone	7	12	No record, water at 915 ft and 930 ft	45	940
Flint rock	6	18	Clay, red	—	940
Ledge stone	7	25	Well YD-58-35-408		
Gray lime and shale	100	125	Owner: Austin White Lime Co. Driller: Virdehl Brothers Drilling Co.		
Blue lime	27	152	Fault, honey-comb	65	65
Brown lime	13	165	White limestone	15	80
Blue lime	200	365	Blue limestone	5	85
Gray lime (water)	10	375	White limestone (some water)	30	115
Glen Rose with shale	230	605	Gray limestone	5	120
Glen Rose (water)	25	630	White limestone	15	135
Glen Rose and blue shale	20	650	Gray limestone	20	155
Well YD-58-34-801			White limestone	10	165
Owner: W. L. Richards Driller: A. J. Bartuge (Partial log from Texas Board of Water Engineers Bulletin 5708)			Gray limestone	30	195
Limestone	210	210	White limestone	17	212
Sand, lime, water-bearing	6	216	Water rock (10 gpm)	8	220
Limestone	254	470	White limestone	30	250
Sand, lime, water-bearing	8	478	Gumbo rock, shale	20	270
No record	12	490	Gray limestone	5	275
Sand, lime, water-bearing	8	498	White limestone	45	320
Limestone	92	590	Water rock	30	350
Sand, lime, water-bearing	7	597	White limestone	20	370
No record	15	612			
Sand, lime, water-bearing	6	618			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-35-709			Well YD-58-41-301		
Owner: The University of Texas Driller: Texas Water Supply Co. (Log from Texas Board of Water Engineers Bulletin 5708)			Owner: George Fulford Driller: W. H. Glass and Son		
Limestone	100	100	Yellow shale	8	8
Clay, blue and black, and some lignite	20	120	Yellow lime	18	26
Clay, blue, hard blue and black shale, and some gray limestone	10	130	Gray lime	126	152
Shale, blue	10	140	Blue lime	28	180
Shale, blue and black	10	150	Water sand	10	190
Shale and limestone	10	160	Gray lime	138	328
Shale, blue and black	10	170	Gray shale	66	394
Shale, dark bluish-gray, soft	30	200	Gray lime	59	453
Limestone, light gray, chalky, subcrystalline	10	210	Travis Peak shale and red clay	23	476
Limestone, light gray, hard with some marl	60	270	Trinity sand	8	484
Shale, blue and grayish-white limestone	20	290	Red clay	5	489
Shale, black, soft and chalky limestone	10	300	Well YD-58-42-103		
Limestone, light gray, soft, chalky	10	310	Owner: Devereaux School Driller: A. C. Clements (Log from Texas Board of Water Engineers Bulletin 5708)		
Limestone, gray, hard	20	330	Clay, yellow, and limestone, tan	20	20
Limestone, dark brownish-gray with chert	30	360	Limestone, gray and buff	20	40
Limestone, dark gray, porous	30	390	Marl, much pyrite	20	60
No record	1,210	1,600	Limestone, gray and tan	40	100
Sand and silt, greenish-gray	14	1,614	Marl, gray, many shells	12	112
Shale, dark gray to fine	26	1,640	Limestone, gray and tan	13	125
Sand, greenish-gray	20	1,660	Marl, gray	11	136
Sand and sandy marl	20	1,680	Limestone, tan	24	160
No record	20	1,700	Marl, many shells	40	200
Sand, marl, and silt, reddish-brown	15	1,715	Marly limestone, cream colored	22	222
Clay and marl, pink, with green streaks	20	1,735	Limestone, hard	40	262
No record	40	1,775	Limestone, cream colored, dense	23	285
Clay, sandy, and sand	25	1,800	Limestone, tan	19	304
Sand, light greenish-gray	15	1,815	Limestone, dense, small amount of sand	16	320
Sand, pinkish-white	14	1,829	Shale, gray, soft	54	374
Sand, light gray	2	1,831	No record	46	420
Shale, sticky, hard	2	1,833	Limestone, white with coarse sand inclusions	20	440
			Sand	26	466

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-202			Well YD-58-42-202—Continued		
Owner: Marion Fowler Driller: S. W. Glass Drilling (Description of samples by R. L. Bluntzer)			Same limestone (70%); anhydrite and gypsum (15%) as above; light to dark gray, slightly fissil to gummy shale (15%)		
Soil and white to creamy caliche	12	12		61	511
Light to dark gray, finely crystalline to silty, hard to soft, carboniferous, fossiliferous, limestone (80%); white to buff finely crystalline limestone (20%); some anhydrite	53	65	Dark gray, silty, calcareous shale (100%)	49	560
Finely crystalline, sandy to silty, fossiliferous (shell fragments), carboniferous, limestone (90%); light to dark gray limestone above (5%); and white anhydrite (5%)	38	103	Dark gray, silty to slightly sandy shale (90%); light gray to buff, finely crystalline, silty limestone (10%); some anhydrite and gypsum	39	599
Light gray, slightly carboniferous, gummy shale (falls apart when moistened) (100%)	3	106	Dark gray, silty to medium, slightly coarse, calcareous, shaly, sandstone (90%); limestone above (10%)	12	611
Light to dark gray, silty to sandy, calcareous, slightly carboniferous shale (95%); and silty to sandy, carboniferous limestone (5%)	43	149	Fine to coarse, mostly medium, well sorted, angular to subrounded (subrounded-frosted and angular-clear), slightly arkosic, quartz sand (feldspar grains make up less than 5% of sample)	34	645
Same shale as above (100%)	53	202	Fine to very coarse, mostly medium, poorly sorted, angular to well-rounded (angular-clear and well rounded-frosted), arkosic, quartz sand (feldspar and other grains make up 30% of the sample)	6	651
Finely crystalline, silty to sandy, carboniferous, fossiliferous, pyritic limestone (70%); same shale as above (20%); and light gray finely crystalline limestone (10%); Fossils— <i>Corbula</i> (pelecypods) and gastropods	28	230	YD-58-42-203		
			Owner: Dewitt Langford Driller: Texas Water Wells (Log from Texas Board of Water Engineers Bulletin 5708)		
Same limestone as above (60%); white anhydrite (40%)	72	302	Lime rock, hard	22	22
White to gray anhydrite (75%); clear crystals of gypsum (20%); same limestone as above (5%)	21	323	Limestone, gray	219	241
Light gray to white anhydrite (70%); clear crystals of gypsum (10%); tanish gray, finely crystalline limestone (15%); and light gray, gummy, shale (5%)	10	333	Sand and hard layers	62	303
Anhydrite (50%); gypsum (25%); limestone (25%) as described above	27	360	Lime, small streaks of sand	52	355
Light to dark gray, finely crystalline, silty to sandy, slightly carboniferous limestone (90%); white to light gray anhydrite and gypsum (10%)	27	387	Limestone, hard, and sand layers	131	486
Same limestone (60%) and anhydrite and gypsum (10%) as above	63	450	Shale, sandy, layers of sand and rock	47	533
			Sand, shale streaks, lime rock, sandy shale	75	608
			Shale, sandy	37	645
			Sand, shale, and limestone layers	125	770
			Limestone, shale and sand streaks	90	860
			Sand and limestone	48	908
			Limestone and chert	12	920
			Chert and black shale which is very hard in spots and turns gray when dry	207	1,127

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
YD-58-42-302			YD-58-42-401—Continued		
Owner: M. E. Hart Driller: J. R. Bob-Johnson Drilling and Supply (Log from Texas Board of Water Engineers Bulletin 5708).			Limestone, grayish-tan, crumbly		
No record	550	550		10	590
Limestone	34	584		30	620
Sandstone, gray, broken, much water	61	645		70	690
Limestone, gray, sandy	4	649	Well YD-58-42-502		
Limestone	25	674	Owner: St. Stephens Episcopal School Driller: Layne Texas Co. (Complete log not shown; all descriptions are from cuttings unless indicated otherwise. Description of samples by Helen Jeanne Plummer.) Glen Rose limestone:		
Limestone, very hard	8	682	Buff (oxidized) and gray limestone fragments. The weathered fragments show the abundance of included fossils in bold relief. The gray limestone comprises a white matrix in which are set numerous rotund dark bodies, which are so characteristic of the Glen Rose. "Whether the Comanche Peak and Walnut limestones can be so characterized has not been ascertained."		
Limestone	37	719		30	30
Limestone, lost circulation from 750 to 760 ft	87	806	Hard, white limestone and many loose rotund dark bodies, as well as many rotund white bodies, many of which are in reality miliolids, others may be oolites.		
Limestone, some loss of circulation	95	901		20	50
Limestone, hard streaks from 942 to 958 ft	77	978	No record.		
Limestone	56	1,034	Some hard limestone fragments with dark rotund inclusions; abundance of loose free dark bodies and similar white bodies that vary from subspherical through ellipsoidal to lenticular. Many of these light-colored bodies are miliolids.		
Limestone, very broken	23	1,057		22	75
Limestone, hard, broken	38	1,095	White, dense, hard limestone with many dark inclusions and some miliolids. Abundance of loose dark and white rotund bodies representing many miliolids.		
Limestone	28	1,123		23	98
Limestone, very hard	7	1,130	Very porous, pale tan, saccharoidal, dolomitic limestone, some dense dolomitic limestone, little white limestone carrying dark inclusions.		
Limestone, soft	8	1,138		22	120
YD-58-42-401			No record.		
Owner: Clifton S. Winstead Driller: S. W. Glass Drilling (Log from Texas Board of Water Engineers Bulletin 5708).			Same as above.		
Topsoil	10	10		22	143
Limestone, hard, white	40	50	White limestone and "lime sand" or "miliolid sand." Dark inclusions common both in the hard limestone fragments as free bodies knocked free by the action of the bit.		
Limestone, pale tan, compact, fairly hard, sugary	90	140		21	164
Limestone, white, soft	40	180			
Marl, soft	10	190			
Limestone, white, many shells	20	210			
Limestone, soft, nodular, marly	100	310			
Limestone, pale tan, sugary	30	340			
Limestone, white	10	350			
Limestone, hard, white, nodular	20	370			
Limestone, hard, white	150	520			
No record	35	555			
Limestone, hard	10	565			
Limestone, hard, grayish-tan, sugary	15	580			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-502—Continued			Well YD-58-42-502—Continued		
Same as above.	23	187	Sample consists about half of the same white limestone and calcite as above, but also many free, dark, rounded bodies popped out of a cream-colored matrix by the drill.	20	393
Tan, finely saccharoidal, dolomitic limestone, together with a richly miliolid hard dense, white limestone as well as a white limestone carrying numerous dark inclusions.	22	209	Same.	48	431
Similar to above.	20	229	No record.	2	433
Sample about 3/4 cream-colored, dense, to somewhat porous, very finely saccharoidal and dolomitic limestone rich in miliolids. Remainder a dense, gray limestone comprising a white matrix enclosing dark-gray rotund bodies, or pseudo-poolites, as they are called by some.	21	250	About 1/4 of the sample is a yellowish-cream dense limestone, many fragments being a coquina, others with a generous scattering of miliolids, still others rich in calcite. Most of the material consists of dark and cream-colored rotund bodies beaten out of the original matrix by the drill.	20	453
About 80% fine, gray limestone fragments and the free white and dark rotund bodies of the original rock consisting of these bodies in a cream-colored matrix. Remainder of sample a dense to somewhat porous, finely saccharoidal and miliolid limestone.	23	273	No record.	10	463
Entire sample composed of gray limestone fragments (many dark rotund bodies in a cream-colored matrix) and abundance of dark and cream-colored rounded bodies knocked from the matrix by the action of the drill. <i>Orbitolina</i> rare, few casts of gastropods, trace of echnoid spines, trace oyster shells.	22	295	Much very pale cream to almost white small fragments of calcitic limestone; many free, dark, rotund bodies and clear calcite.	10	473
Dense, gray, very finely saccharoidal limestone. In the larger fragments distinct dark bodies are not commonly present, but the finer portion consists of very fine fragments of the matrix from which the dark and light rotund bodies have been freed. <i>Orbitolina</i> rare.	23	318	Similar to above. Rare <i>Orbitolinae</i> .	25	498
Sample composed of beat-up gray limestone that was originally a light cream-colored to tan matrix enclosing an abundance of dark and light rotund bodies, of which the finer portion of the sample consists. Few shells, <i>Orbitolina</i> rare.	20	338	Largely minute fragments of cream-colored limestone, some quite porous and very finely saccharoidal; much calcite; scattering of free light to dark rotund bodies.	16	514
Same.	15	353	Much almost white, dense limestone fragments, some distinctly saccharoidal, others of a smooth texture. Few porous fragments. Calcite abundant. Generous scattering of free dark, rotund bodies.	29	543
Brilliant white limestone with crystals of accicular clear calcite that may represent veins or small geodal cavities. Considerable crystalline calcite.	20	373	Same.	24	567
			Cream-colored limestone fragments and numerous free gray to cream-colored rotund bodies that represent an original limestone matrix enclosing these distinct bodies. Little tan saccharoidal limestone.	22	589
			Same.	23	612
			Same.	21	633
			No record.	22	655
			Same as above, but with a little yellowish, dense, coquinoïd limestone. About 9/10 of the sample comprises very small fragments of gray limestone (dark bodies in a cream-colored matrix), and an abundance of free, gray and cream-colored bodies. Shell fragments frequent.		

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-503—Continued			Well YD-58-42-701—Continued		
Sand, coarse, getting finer and harder with depth	37	977	Sand	20	510
Red beds	10	987	Lime shells	10	520
			Shale, blue	30	550
Well YD-58-42-701			Lime, hard, white	3	553
Owner: Marshall and Troupe			Shale	7	560
Driller: Shell Oil Co.			Shale, sandy	15	575
(Log from Texas Board of Water Engineers Bulletin 5708)			Gumbo	15	590
Lime, white	5	5	Sand, gray	12	602
Clay, yellow	7	12	Lime, hard	4	606
Lime, white	21	33	Shale	14	620
Gumbo	4	37	Sand, hole full of water	20	640
Lime, broken	28	65	Shale, blue	30	670
Gumbo	15	80	Sand, red beds (water at 700 ft, hole full of water)	150	820
Lime, sandy, broken	15	95	Lime	2	822
Shale, gray	50	145	Sand, coarse-grained (water at 900 ft)	113	935
Lime, sand	15	160	Clay, yellow	35	970
Sand, white, water-bearing	10	170	Sand	10	980
Shale, sandy	20	190	Shale, black, little flakes of white at 1,070 ft	90	1,070
Lime, sand, broken	20	210	Shale, black, no water	765	1,835
Lime, hard, gray	15	225			
Sand, lime shells	10	235	Well YD-58-42-803		
Shale	30	265	Owner: R. D. Johnson		
Sea shells	10	275	Driller: Farrer Well Drilling Co.		
Shale	15	290	(Log from Texas Board of Water Engineers Bulletin 5708)		
Lime hard	5	295	Fault	230	230
Shale, sandy	5	300	Lime, gray	40	270
Sand, dry	15	315	Lime, white	25	295
Shale, sandy	5	320	Lime, gray	23	318
Gravel	12	332	Sand and lime, water-bearing (3 gpm)	67	385
Sand, white, water-bearing	28	360	Lime, gray	39	424
Lime, sandy, broken	5	365	Lime, white	23	447
Shale	20	385	Lime, gray	18	465
Sand, fine-grained, white	40	425	Lime, white	81	546
Sand and shells	5	430	Lime, light-brown	20	566
Shale, gray	15	445	Lime, white	11	577
Lime shells	2	447	Lime, gray	27	604
Lime, hard, white (water)	3	450	Shell	8	612
Shale, sandy	15	465			
Shale	25	490			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-803—Continued			Well YD-58-43-704—Continued		
Lime, white	13	625	Limestone	600	1,190
Lime, gray	96	721	Sand rock (water)	25	1,215
Lime, blue	5	726	Limestone	300	1,515
Lime, gray	54	780	Shale, blue	60	1,575
Lime, white and sand	35	815	Limestone	100	1,675
Lime, white	30	845	Sand rock, main flow	200	1,875
Lime, hard, white	17	862	Shale, blue	40	1,915
Sand	45	907	Sand rock	50	1,965
Corrected depth	—	897	Shale	60	2,025
Well YD-58-43-401			Well YD-58-44-202		
Owner: State of Texas Driller: H. McGillvray (Log from Texas Board of Water Engineers Bulletin 5708)			Owner: City of Manor Driller: Eppright and H. McGillvray (Log from Texas Board of Water Engineers Bulletin 5708)		
Shale, dark	80	80	Black soil (Navarro Group)	6	6
Limestone, very hard (Buda Limestone)	25	105	Yellow clay (Navarro Group)	11	17
Marl, blue (Grayson Shale) (Del Rio Clay)	90	195	Flint rock and gravel (Navarro Group)	3	20
Limestone and alternations of limestone, marl, and sand	1,105	1,300	Yellow and joint clay (Navarro Group)	30	50
Sand, water-bearing	15	1,315	Blue clay; at 400 ft blue clay gets lighter color; from 435 to 480 ft very dark and caves from (Tator Marl)	540	590
Limestone	60	1,375	Rock; at about 800 ft deep soft strata in rock (Austin Chalk)	410	1,000
Shale, rotten	50	1,425	Shale; caves badly (Eagle Ford Shale)	25	1,025
Limestone	60	1,485	Hard rock (Buda Limestone)	50	1,075
Sand, water-bearing	315	1,800	Blue clay (Grayson shale) (Del Rio Clay)	60	1,135
Shale or marl, blue; no limestone	175	1,975	Lime rock; water at 1,250 ft - no good (Georgetown Limestone)	115	1,250
Well YD-58-43-704					
Owner: F. B. Perry Driller: H. McGillvray (Log from Texas Board of Water Engineers Bulletin 5708)					
Surface dirt	20	20	Rock; at 1,300 ft pyrite boulder (Edwards Limestone)	50	1,300
Gravel bed (water)	5	25	Rock; hard and soft in places (Edwards Limestone)	70	1,370
Limestone	100	125	Sandy and soft rock (Edwards Limestone)	8	1,378
Shale	70	195	Limestone (Edwards Limestone)	42	1,420
Limestone	25	220	Solid limestone	480	1,900
Marl, blue	40	260	Blue marl	10	1,910
Limestone	100	360	Solid limestone	440	2,350
Sand rock	10	370	Not given	210	2,560
Limestone	70	440			
Sand rock and limestone (sulfur water)	150	590			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-51-102			Well YD-58-51-102—Continued		
Owner: City of Austin Driller: Layne Texas Co. (Log from Texas Board of Water Engineers Bulletin 5708)			Lime rock	13	2,084
Soil	6	6	Rock	12	2,096
Lime rock	189	195	Shale	18	2,114
Sand and shale	15	210	Rock	12	2,126
Lime rock	30	240	Sand rock, fine, lime and cement	25	2,151
Shale, black	35	275	Rock, hard	9	2,160
Lime rock, blue	35	310	Sand and rock	11	2,171
Mud, blue	35	345	Rock	7	2,178
Shale, black	39	384	Sand	3	2,181
Rock	399	783	Rock, porous	8	2,189
Rock, flint	16	799	Sand and rock	24	2,213
Rock, hard	29	828	Shale	20	2,233
Rock	142	970	Rock and shale	13	2,246
Rock, hard	47	1,017	Well YD-58-51-901		
Rock	104	1,121	Owner: Clause Philquist Driller: Allen and Stolley (Log from Texas Board of Water Engineers Bulletin 5708)		
Lime, soft	34	1,155	Clay	35	35
Rock and black shale	22	1,177	Sand rock	3	38
Rock	62	1,239	Shale, sticky	362	400
Rock, hard	21	1,260	Shale, sandy	18	418
Rock	374	1,634	Shale, sticky	32	450
Limestone and conglomerate	40	1,674	Shale, sandy	15	465
Sand rock	17	1,691	Shale, sticky	38	503
Sand	18	1,709	Shale, sandy	25	528
Sand rock	15	1,724	Shale, hard	127	655
Sand	121	1,845	Shale, sticky	10	665
Shale	5	1,850	Shale, hard	15	680
Sand	43	1,893	Shale, sticky	60	740
Shale	14	1,907	Shale and gravel	7	747
Sand, sharp	18	1,925	Shale, sticky	25	772
Sand, fine	12	1,937	Shale, sandy	23	795
Sand, hard	7	1,944	Shale, hard	45	840
Shale	23	1,967	Shale, sticky	54	894
Sand rock and lime	33	2,000	Shale	66	960
Shale	28	2,028	Shale, sticky	16	976
Shale, sticky	7	2,035	Chalk and shale	4	980
Rock, hard	8	2,043	Chalk	103	1,083
Shale and lime	28	2,071			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-51-901—Continued			Well YD-58-51-901—Continued		
Shale, chalky	34	1,117	Lime, sandy	11	2,413
Chalk, broken	143	1,260	Lime, sandy (streaks of shale)	52	2,465
Shale, chalky	11	1,271	Lime, sandy	25	2,490
Chalk	10	1,281	Sand, hard	11	2,501
Shale, sticky	15	1,296	Lime, sandy	15	2,516
Lime	91	1,387	Lime, broken, and shells	12	2,528
Shale, sticky	14	1,401	Lime and shells (cored)	2	2,530
Lime	47	1,448	Lime, porous, and shells	45	2,575
Shale, sticky	2	1,450	Lime and shells	40	2,615
Lime	60	1,510	Lime	137	2,752
Edwards Limestone	529	2,039	Lime, sandy	135	2,887
Lime, sandy (cavities)	133	2,172	Shale, sandy, blue	2	2,889
Lime, sandy	49	2,221	Shale, sandy, hard, and lime	19	2,908
Lime	42	2,263	Lime, hard, sandy (streaks of shale)	11	2,919
Lime, hard	32	2,295	Lime, hard, sandy	6	2,925
Lime	10	2,305	Lime, hard, sandy, and shale	9	2,934
Shale, hard, sandy	7	2,312	Lime, hard, sandy	9	2,943
Lime (cored)	11	2,323	Lime and shells	22	2,965
Lime, sandy (streaks of shale)	49	2,372	Shale, sandy with streaks of lime	20	2,985
Lime	13	2,385	Lime and shale	6	2,991
Lime, sandy (streaks of shale)	17	2,402	Sand and shale (cored)	17	3,008

TRAVIS COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well YD-57-32-601		Well YD-57-40-304		Well YD-58-26-404	
Owner: T. H. Varner		Owner: Girl Scouts of America		Owner: Leander Limestone Corp.	
July 1950	65	Mar. 4, 1966	45	Mar. 21, 1966	334.5
Apr. 20, 1967	43.87	May 17, 1968	39.22	Aug. 30, 1966	337.9
May 16, 1968	15.1			Apr. 18, 1967	327.0
Well YD-57-32-801		Well YD-57-40-801		May 14, 1968	
Owner: Mrs. H. P. Hensel		Owner: Tom Tiner		324.9	
1949	40	Sept. 1967	180	Well YD-58-33-101	
May 8, 1967	36.35	May 17, 1968	126.12	Owner: J. Syd Wheless	
May 15, 1968	34.03			June 2, 1966	237.3
Well YD-57-32-802		Well YD-58-25-401		Apr. 18, 1967	246.4
Owner: Mrs. H. P. Hensel		Owner: G. H. Rogers		May 16, 1968	233.2
June 2, 1966	23.35	Aug. 1944	60	Well YD-58-33-202	
Apr. 19, 1967	24.17	May 16, 1968	3.99	Owner: Barnes - Jones Lumber Co.	
May 16, 1968	23.1			June 15, 1966	188.7
Well YD-57-32-803		Well YD-58-25-801		Apr. 11, 1967	203.9
Owner: R. H. Henry		Owner: George Agnew		May 16, 1968	194.2
July 13, 1950	74.32	May 31, 1966	99.88	Well YD-58-33-305	
May 2, 1967	74.91	Apr. 11, 1967	110.1	Owner: Walter C. Schwarzer	
May 16, 1968	73.45	May 16, 1968	102.7	1966	125
Well YD-57-40-201		Well YD-58-25-901		Nov. 4, 1966	131.57
Owner: J. D. Singleton		Owner: Barnes - Jones Lumber Co.		Apr. 11, 1967	149.85
1949	101	May 30, 1966	181.43	May 14, 1968	118.59
Apr. 19, 1967	91.7	June 15, 1966	191.7	Well YD-58-33-403	
May 16, 1968	89.34	Nov. 9, 1966	188.04	Owner: J. H. Shepler	
Well YD-57-40-303		May 14, 1968	194.3	Oct. 1965	90
Owner: Emmett Bone		Well YD-58-26-403		Apr. 11, 1967	136.42
July 28, 1962	60	Owner: Leander Limestone Corp.		Apr. 13, 1967	136.68
May 16, 1968	16.20	Apr. 18, 1967	318.9	May 8, 1967	138.0
		May 14, 1968	323.4	May 15, 1968	130.37

Table 4.—Water Levels in Selected Wells in Travis County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well YD-58-33-501		Well YD-58-34-801		Well YD-58-42-501—Continued	
Owner: John G. Johnson		Owner: W. L. Richards		May 9, 1967	420.93
Nov. 3, 1966	167.8	Feb. 27, 1950	126	May 13, 1968	419.53
Apr. 12, 1967	162.6	May 24, 1966	151.19	Well YD-58-42-503	
Well YD-58-33-611		Apr. 14, 1967	152.94	Owner: Fred Morris	
Owner: Charles Dwyer		May 15, 1968	153.0	Apr. 5, 1955	145
Dec. 5, 1966	250.3	Well YD-58-41-301		Apr. 13, 1955	116
Apr. 5, 1967	252.0	Owner: George Fulford		Apr. 15, 1955	101
May 24, 1967	251.9	May 13, 1968	72.18	May 2, 1955	101
May 14, 1968	231.1	Well YD-58-42-202		May 18, 1966	126.03
Well YD-58-33-615		Owner: Marion Fowler		May 9, 1967	132.17
Owner: Lula Lung Powell		May 25, 1966	134.34	May 13, 1968	127.78
Jan. 29, 1968	33.1	Apr. 12, 1967	157.13	Well YD-58-42-504	
May 14, 1968	91.63	May 14, 1968	149.73	Owner: West Lake Water Supply Corp.	
Well YD-58-33-801		Well YD-58-42-302		July 16, 1954	206
Owner: F. W. Sternberg		Owner: M. E. Hart		May 13, 1955	177
Nov. 1939	85	Mar. 1950	160	May 17, 1955	180
Nov. 22, 1966	212.64	Jan. 1956	300	May 5, 1967	194.55
May 9, 1967	213.08	Mar. 24, 1966	292.37	May 13, 1968	185.48
Apr. 26, 1968	206.26	Apr. 10, 1967	290.69	Well YD-58-42-701	
Well YD-58-33-901		May 14, 1968	288.18	Owner: Marshall and Troupe	
Owner: Dudley Cotton		Well YD-58-42-303		Mar. 1939	200
May 27, 1966	117.83	Owner: David B. Barrow		Feb. 14, 1941	202.26
May 26, 1967	126.57	Apr. 10, 1967	225.1	May 18, 1966	235.3
May 14, 1968	101.98	May 14, 1968	207.82	May 19, 1967	242.06
Well YD-58-34-603		Well YD-58-42-402		Well YD-58-42-802	
Owner: Balcones Country Club		Owner: Clifton S. Winstead		Owner: Country Day School	
Nov. 1960	65	Oct. 12, 1962	240	June 4, 1949	149
May 16, 1968	71.4	May 19, 1966	266.0	July 2, 1950	137
Well YD-58-34-604		May 19, 1967	273.67	Nov. 19, 1954	146
Owner: Balcones Country Club		Well YD-58-42-501		May 19, 1966	169.72
Feb. 16, 1967	94.3	Owner: West Lake Water Supply Corp.		May 9, 1967	178.23
Apr. 12, 1967	89.8	Apr. 14, 1954	392	May 13, 1968	172.59
May 16, 1968	45.8	Apr. 1954	339		
		May 18, 1966	417.6		

Table 4.—Water Levels in Selected Wells in Travis County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well YD-58-43-702		Well YD-58-43-703—Continued		Well YD-58-51-103	
Owner: State of Texas		May 17, 1966	+ 53.0	Owner: O. O. Norwood	
May 17, 1966	+ 30.0	Apr. 24, 1968	+ 50.0	1929	+ 102
Apr. 24, 1968	+ 35.0			July 27, 1961	+ 75
Well YD-58-43-703		Well YD-58-51-102		May 18, 1966	+ 63.0
Owner: Driskell Hotel		Owner: City of Austin		Apr. 24, 1968	+ 74.0
1941	+ 66	Oct. 29, 1932	+ 66		
Oct. 16, 1964	+ 59	1932	+ 74		
		Apr. 25, 1968	1.37		

TRAVIS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kaa, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hansell Member of the Travis Peak Formation; Kps, Parsall Member of the Travis Peak Formation; Kho, Houston Member of the Travis Peak Formation; F, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
YD-57-32-601	75	Apr. 20, 1967	Khe	16	1.6	67	39	37	--	355	89	24	0.9	< 0.4	--	450	--	329	20	756	7.5	0.9	
	801	125	July 1950	Ktp	15	--	80	44	* 8.1	--	386	31	20	--	30	--	425	--	380	4	736	7.6	.2
	801	125	June 2, 1966	do.	13	< .02	82	46	13	--	381	32	29	.4	44	--	446	--	394	7	763	7.3	.3
Y	802	28	do.	Khe	10	< .02	74	30	12	--	328	21	18	.2	20	--	346	--	309	8	600	7.4	.3
	803	103	July 1950	do.	18	--	58	36	* 11	--	330	28	12	--	.0	--	325	--	292	8	566	8.3	.3
	803	103	May 2, 1967	do.	3	2.04	59	34	11	--	325	24	17	.5	< .4	--	311	--	287	8	554	7.6	.3
Y	901	75	June 2, 1966	do.	12	< .02	98	37	14	--	371	31	29	.2	64	--	467	--	398	7	800	7.5	.3
	40-201	159	Feb. 1950	Kho	--	--	--	--	--	--	--	70	35	--	--	--	--	--	--	--	916	--	--
	201	159	Apr. 19, 1967	do.	16	.3	77	59	40	--	429	109	44	.8	14	--	570	--	436	17	954	7.4	.8
Y	202	129	do.	do.	16	.7	79	40	63	12	444	72	52	.7	4	0.4	560	--	362	27	930	7.5	1.4
	301	425	May 26, 1967	do.	9	6	82	34	9	--	351	41	18	.5	< .4	--	373	--	345	5	632	7.7	.2
	801	305	Oct. 16, 1967	Khe, Kho	24	--	86	33	7	--	403	9	17	.4	3	--	377	--	352	4	649	7.6	.2
48-902	728	Mar. 26, 1968	Kho	15	--	87	58	225	--	257	530	147	.8	< .4	--	1,190	--	458	52	1,750	7.6	4.6	
Y	58-25-401	375	July 1950	Kgr, Khe	12	--	73	61	* 40	--	402	147	26	--	1	--	580	558	433	17	921	7.9	.8
	501	400	Apr. 20, 1967	Kgr, Ktp	17	.42	51	27	68	--	349	58	36	.9	< .4	--	430	--	242	38	718	7.5	1.9
	801	497	May 31, 1966	Ktp	17	.44	45	38	68	--	354	74	38	1.5	< .4	--	456	--	270	36	780	7.8	1.8
Y	802	600	Nov. 10, 1966	Kgr, Ktp	10	.50	18	11	471	--	406	53	540	3.8	< .4	--	1,330	1,308	88	92	2,350	8.0	21.6
	901	643	do.	do.	11	.04	30	18	461	26	412	107	503	3.3	< .4	--	1,340	1,363	151	85	2,350	7.7	16.4
	26-403	888	Mar. 25, 1949	do.	14	--	46	41	* 127	--	390	167	46	--	1.8	1.6	666	637	284	49	1,050	--	3.2
Y	33-102	600	June 1, 1966	do.	16	< .02	79	52	45	--	327	211	20	1	< .4	--	590	--	412	19	905	7.7	1.0
	103	926	Nov. 10, 1966	Ktp	13	.08	52	44	77	--	361	133	37	1.3	< .4	--	540	--	309	35	885	7.7	1.9
	202	365	Nov. 9, 1966	Kgr, Ktp	12	.02	162	101	59	21	428	540	24	3.9	< .4	--	1,110	1,133	820	13	1,580	7.3	.9
Y	203	600	Nov. 10, 1966	do.	7	.08	16	9	570	33	346	45	690	3.8	< .4	--	1,510	1,544	77	91	2,670	7.8	28.2
	204	620	do.	do.	11	.04	53	39	135	--	356	216	53	2	< .4	--	680	--	292	50	1,089	7.7	3.4
	205	600	do.	do.	14	.04	41	28	148	19.4	373	134	82	1.8	< .4	--	650	--	216	57	1,060	7.7	4.4

See footnotes at end of table.

TRAVIS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (Ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
YD-58-33-206	356	Nov. 8, 1966	Kgr, Ktp	10	0.04	363	39	11	--	410	700	16	2	< 0.4	--	1,340	--	1,070	2	1,650	7.3	0.1
	207	Nov. 9, 1966	do.	12	.04	96	60	104	23	371	341	49	2.2	< .4	--	870	--	486	30	1,300	7.4	2.1
	301	May 30, 1966	Ktp	11	.08	26	14	540	26.5	433	69	660	3.8	< .4	--	1,560	--	122	88	2,750	7.9	21.2
	302	June 1, 1966	Kgr, Ktp	11	.02	70	80	116	28	445	353	36	5.3	5	--	920	--	505	32	1,350	7.5	2.2
	303	May 31, 1966	Ktp	16	.10	124	21	28	--	426	37	32	.2	17	--	484	--	396	12	805	7.2	.6
	304	Nov. 4, 1966	do.	10	.14	415	228	115	--	381	1,800	32	4.8	< .4	--	2,790	--	1,970	11	3,050	7.1	1.1
B	401	Nov. 9, 1938	Kgr, Ktp	--	--	459	121	* 24	--	354	1,310	27	--	.2	--	2,190	2,115	1,640	3	--	--	.3
	402	June 1, 1966	do.	10	.82	67	35	8	--	345	12	14	.6	< .4	--	318	--	309	5	585	7.3	.2
	403	Apr. 11, 1967	Kho	9	1.3	22	17	580	26	296	214	660	3.2	< .4	4.5	1,680	--	128	89	2,910	8.1	22.5
	403	Apr. 13, 1967	do.	10	.1	34	15	590	26	311	217	680	3.4	< .4	4.7	1,730	--	146	88	2,930	7.9	21.2
	501	Nov. 8, 1966	Kgr, Ktp	12	.02	88	23	199	33	361	468	136	3.8	3	--	1,200	1,144	520	55	1,800	7.4	4.9
Y	502	Sept. 5, 1951	Kho	14	--	28	19	* 535	--	352	268	518	4	4.5	--	1,560	--	148	89	2,710	8.3	19.1
	502	Nov. 21, 1966	do.	13	3.0	102	26	15	--	381	31	38	.3	6	--	465	--	362	8	719	7.3	.3
	601	Nov. 8, 1966	Kgr, Ktp	10	< .02	64	62	315	38	399	402	256	5.7	3	--	1,350	--	414	60	2,100	7.5	6.7
	602	Nov. 4, 1966	do.	10	.02	90	59	20	--	410	126	27	2.1	< .4	--	540	--	467	8	889	7.5	.4
	603	do.	do.	8	.14	268	118	139	--	372	1,030	53	5	< .4	--	1,800	--	1,160	21	2,260	7.3	1.8
	604	do.	Kgr, Khe	6	.02	112	132	124	--	482	610	41	5.1	< .4	--	1,270	--	840	25	1,800	7.5	1.9
B	605	Nov. 18, 1940	Ktp	--	--	52	40	* 335	--	404	364	210	5.1	4	--	1,210	--	294	71	--	--	8.5
	605	Nov. 4, 1966	do.	11	.02	81	98	191	38	459	520	85	5.5	< .4	--	1,260	--	610	39	1,840	7.5	3.4
	609	Nov. 15, 1966	Kgr, Ktp	9	21.0	289	177	112	63	355	1,340	44	3.1	< .4	--	2,231	--	1,450	14	2,530	7.2	1.3
	609	July 6, 1967	do.	14	--	164	64	1,980	--	354	110	8,270	1.7	< .4	--	5,780	--	670	87	9,110	7.5	33.3
	610	Nov. 15, 1966	Kgr	6	43.5	284	237	150	58	272	1,680	66	3.5	< .4	--	2,664	--	1,690	16	2,930	7.1	1.6
	612	Nov. 22, 1966	Kgr, Khe	9	.16	127	37	14	--	440	102	31	.5	< .4	--	540	--	470	6	880	7.2	.3
	615	Jan. 29, 1968	Kho, P	8	--	414	124	63	--	201	1,380	43	2.7	2.5	--	2,140	--	1,540	8	2,380	7.0	.7
B	801	Nov. 29, 1939	Kgr	--	--	96	75	* 257	--	294	706	82	3.1	< 20	--	1,370	--	546	50	--	--	4.8
B	801	Dec. 29, 1939	Kgr, Ktp	--	--	18	9	* 340	--	334	267	191	--	< 20	--	988	--	83	90	--	--	16.3
Y	801	Sept. 28, 1954	do.	12	--	20	13	* 368	--	318	318	222	2.8	4.8	3.5	1,120	--	104	89	1,860	7.9	15.7
	801	Nov. 22, 1966	do.	7	.10	41	16	23	--	159	24	50	.2	< .4	--	239	--	169	23	450	7.6	.8
Y	802	Feb. 9, 1953	Kho	--	--	--	--	--	--	321	28	--	--	--	--	--	--	1,890	--	2,820	7.3	--
Y	803	Aug. 27, 1948	do.	--	--	--	--	--	--	292	364	75	--	.5	--	--	--	84	--	1,370	--	--
Y	803	Nov. 3, 1949	do.	--	--	23	13	* 278	--	293	352	78	--	< 20	--	888	--	113	84	--	--	10.9
Y	804	Dec. 6, 1949	Kgr, Ktp	9.2	--	71	86	* 160	--	452	397	67	--	.5	--	1,010	--	530	40	1,530	8.1	3.0
	804	Nov. 22, 1966	do.	10	.14	79	83	213	26	440	530	94	4.1	1.5	--	1,260	--	540	45	1,820	7.4	4.0
	805	May 13, 1968	Kho	10	--	23	12	247	--	283	323	66	1.7	< .4	--	820	--	109	83	1,310	8.3	10.4

See footnotes at end of table.

TRAVIS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER CHARACTER UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
YD-58-33-901	687	May 27, 1966	Kho	10	< 0.02	95	45	29	--	259	190	44	2.9	7	--	550	--	421	13	888	7.4	0.6
	902	202 1937	Kgr	--	--	--	--	--	--	280	< 10	78	--	< 20	--	1,220	--	--	--	--	--	--
	902	344 do.	Khe	--	--	66	56	--	--	--	274	1,280	3.2	< 20	--	2,830	--	--	--	--	--	--
	902	445 do.	Kpe	--	--	--	--	--	--	--	--	43	--	< 20	--	1,820	--	--	--	--	--	--
	902	510 do.	do.	--	--	107	94	--	--	--	490	1,570	3.5	< 20	--	3,440	--	655	--	--	--	--
Y	902	551 June 18, 1937	Kho	--	--	50	31	* 370	--	345	560	134	--	< 20	--	1,320	--	250	76	--	--	10.1
Y	902	675 June 22, 1937	do.	--	--	12	9	* 361	--	442	288	132	--	< 20	--	1,020	--	65	92	--	--	19.2
	902	715 Aug. 30, 1938	do.	--	--	18	11	* 368	--	366	385	124	3.4	< 20	--	1,110	1,089	89	90	--	--	17.0
Y	902	715 Mar. 21, 1941	do.	--	--	21	5	* 395	--	342	467	112	3.3	--	--	1,170	--	73	92	--	--	20.2
Y	904	500 Nov. 19, 1940	Ktp	--	.6	32	20	* 547	--	308	429	455	3.1	3.2	--	1,640	--	162	88	--	--	18.7
Y	34-401	696 Sept. 12, 1953	Kho	--	--	60	92	* 1,700	--	342	132	2,700	--	--	--	4,850	--	528	88	--	7.6	32.2
	603	1,253 Feb. 16, 1967	do.	11	< .02	73	78	28	26	405	222	25	3.9	2.5	2.3	670	--	500	10	994	7.7	.5
	703	650 Apr. 12, 1967	Kgr, Khe	9	.04	206	179	104	--	368	1,030	44	4.5	6	--	1,760	--	1,250	15	2,290	7.5	1.3
Y	801	270 May 25, 1949	Kgr	11	--	181	56	* 13	--	359	85	254	--	2.8	.21	788	--	714	4	1,470	7.4	.2
Y	801	320 Nov. 1949	do.	--	--	--	--	--	--	388	570	22	--	--	--	--	--	517	--	1,550	7.5	--
Y	801	490 do.	Khe	--	--	--	--	--	--	217	3,280	212	--	--	--	--	--	820	--	5,470	7.1	--
Y	801	520 do.	do.	--	--	--	--	--	--	134	1,810	77	--	--	--	--	--	820	--	3,110	7.0	--
Y	801	598 do.	Kpe	--	--	--	--	--	--	223	2,040	450	--	--	--	4,050	--	--	--	4,830	8.1	--
Y	801	612 do.	do.	--	--	--	--	--	--	214	1,520	64	--	--	--	--	--	--	--	2,710	--	--
Y	801	640 do.	do.	--	--	--	--	--	--	207	1,560	335	--	--	--	--	--	--	--	3,680	7.4	--
Y	801	760 do.	Kho	--	--	--	--	--	--	470	600	1,520	--	--	--	--	--	405	--	5,680	7.7	--
Y	801	830 do.	do.	--	--	--	--	--	--	523	650	1,680	--	--	--	--	--	--	--	6,570	8.1	--
Y	801	840 do.	do.	--	--	--	--	--	--	513	--	550	--	--	--	--	--	--	--	6,470	8.3	--
Y	801	880 Nov. 1949	do.	--	--	--	--	--	--	516	540	1,500	--	--	--	--	--	--	--	6,040	8.0	--
Y	801	914 do.	do.	--	--	--	--	--	--	507	520	1,350	--	--	--	--	--	--	--	5,760	8.4	--
Y	801	930 do.	do.	--	--	--	--	--	--	538	540	1,400	--	--	--	--	--	--	--	5,950	8.6	--
Y	801	940 Dec. 18, 1950	do.	12	--	53	42	* 1,170	--	502	598	1,290	--	4.5	--	3,420	--	304	89	5,650	7.9	29.1
Y	35-701	610 Nov. 4, 1942	Kaa	14	.22	71	17	* 46	--	329	33	30	.6	.0	--	379	--	247	29	--	7.5	1.3
Y	701	610 Sept. 19, 1949	do.	12	7.4	73	32	* 34	--	338	38	50	--	.0	--	413	--	314	19	735	7.5	.8
Y	803	1,400 Oct. 14, 1940	do.	--	--	101	10	* 35	--	336	35	35	.5	--	--	386	--	291	21	--	--	.9
	41-301	489 Aug. 21, 1967	Khe	12	--	27	12	217	--	234	332	39	1.8	> .4	--	760	--	118	80	1,125	8.2	8.7
	701	628 Mar. 26, 1968	Kho	15	--	178	117	146	--	288	850	89	4.4	> .4	--	1,540	--	930	26	2,040	7.4	2.1
	42-101	499 May 27, 1966	do.	12	.18	16	7	222	--	250	276	43	2.3	> .4	--	700	--	69	88	1,102	7.9	11.6
	102	490 Nov. 18, 1966	do.	12	.10	14	7	224	--	257	264	47	1.9	1	--	700	--	65	88	1,105	7.8	12.2

See footnotes at end of table.

TRAVIS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
YD-58-42-103	466	Nov. 18, 1966	Krp	12	0.04	29	17	202	11	250	338	43	1.6	1.5	--	780	--	141	74	1,162	8.0	7.3
301	852	Dec. 1934	do.	--	--	47	35	--	--	--	666	1,450	--	--	--	3,670	--	--	--	--	--	--
301	852	Nov. 1940	do.	--	--	71	41	* 1,300	--	516	732	1,400	1.9	< 20	--	3,800	--	346	89	--	--	30.4
301	852	Dec. 1949	do.	13	--	52	46	* 1,300	--	467	724	1,410	--	13	--	2,790	3,788	318	90	6,070	8.2	31.6
302	1,135	Apr. 10, 1967	do.	13	1.1	28	17	870	36	570	530	750	3.4	< .4	6.2	2,530	--	139	91	3,960	7.7	32.1
401	500	July 1, 1950	Kgr	--	--	--	--	--	--	480	500	21	--	--	--	--	--	900	--	1,560	--	--
401	630	July 11, 1950	Kpe	--	--	--	--	--	--	344	1,700	30	--	--	--	--	--	2,000	--	3,040	7.6	--
401	675	July 18, 1950	do.	--	--	--	--	--	--	216	560	47	--	--	--	--	--	275	--	1,390	7.7	--
401	690	Nov. 7, 1950	do.	--	--	--	--	--	--	262	420	37	--	--	--	--	--	--	--	1,240	8.3	--
401	690	Nov. 11, 1950	do.	--	--	--	--	--	--	306	400	38	--	--	--	--	--	244	--	1,280	7.9	--
401	690	Nov. 13, 1950	do.	--	--	--	--	--	--	306	400	38	--	--	--	--	--	244	--	1,280	7.9	--
401	716	May 22, 1951	Krp	10	--	31	26	* 204	--	241	361	38	--	.0	--	815	788	184	71	1,250	8.1	6.5
501	941	Aug. 18, 1954	do.	--	--	--	--	--	--	247	--	6	--	--	--	--	--	117	--	1,300	8.0	--
502	1,015	June 18, 1949	do.	19.2	.5	32.4	9.1	* 226.6	--	--	264	53	--	--	--	--	--	118	80	--	8.36	9.0
502	1,015	June 20, 1949	do.	--	--	--	--	--	--	277	300	50	--	--	--	759	--	73	--	1,190	7.3	--
502	1,015	Nov. 3, 1949	do.	13	.7	11	6.5	* 257	--	269	279	66	2.6	.0	2.9	772	--	54	91	1,220	8.2	15.3
503	200	Mar. 28, 1955	Kgr	--	--	--	--	--	--	317	--	12	--	--	--	--	--	310	--	571	7.5	--
503	780	Apr. 7, 1955	Kho	--	--	--	--	--	--	454	--	164	--	--	--	--	--	247	--	2,250	7.9	--
503	987	Apr. 15, 1955	do.	--	.18	--	--	--	--	637	--	367	--	--	--	--	--	96	--	2,860	8.1	--
504	703	July 19, 1954	do.	--	--	--	--	--	--	45	--	88	--	--	--	--	--	206	--	745	8.5	--
504	715	do.	do.	--	--	--	--	--	--	295	--	62	--	--	--	--	--	180	--	1,690	8.1	--
504	786	July 30, 1954	do.	--	.14	--	--	--	--	312	--	65	--	--	--	--	--	204	--	1,720	8.5	--
504	786	May 13, 1955	do.	4.4	--	25	77	* 65	--	312	220	26	--	.0	--	628	570	380	27	940	8.2	1.5
505	600	May 27, 1949	Kgr	11	--	282	214	* 61	--	394	1,300	29	--	.0	1	2,090	--	1,580	8	2,530	7.3	.7
505	600	do.	do.	10	--	258	214	* 65	--	400	1,240	33	--	.0	1.1	2,020	--	1,520	9	2,450	7.7	.7
505	906	Apr. 6, 1950	Klp	--	--	--	--	--	--	--	--	43	--	--	--	--	--	220	--	1,320	--	--
505	940	Apr. 11, 1950	do.	12	--	22	19	* 249	--	245	393	44	--	1.8	--	881	861	133	80	1,290	7.6	9.4
505	961	Aug. 24, 1950	do.	--	--	--	--	--	--	337	900	42	--	--	--	--	--	915	--	1,960	7.1	--
506	556	Oct. 9, 1948	Kgr	--	--	--	--	--	--	480	366	17	--	--	--	--	--	860	--	1,290	--	--
506	660	Oct. 5, 1950	Kbe	--	--	--	--	--	--	--	1,100	--	--	--	--	--	--	--	--	1,850	--	--
506	900	Nov. 14, 1950	Kho	--	--	--	--	--	--	206	400	52	--	--	--	--	--	--	--	1,380	8.3	--
506	938	Nov. 20, 1950	do.	--	--	--	--	--	--	--	500	66	--	--	--	--	--	--	--	1,640	--	--
507	950	Apr. 29, 1955	do.	--	--	30	12	* 313	--	244	491	67	1.2	--	--	--	--	125	85	--	--	12.2
507	1,045	May 14, 1955	do.	13	.09	28	14	* 338	--	247	482	92	1.1	.0	.07	1,090	--	128	85	1,680	7.8	13.0

See footnotes at end of table.

TRAVIS COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
Y UD-58-42-508	500	Sept. 21, 1954	Kgr	--	--	--	--	--	--	409	--	14	--	--	--	--	--	566	--	1,040	7.5	--	
Z 701	900	Feb. 14, 1941	Kho	--	--	98	23	* 46	--	226	102	53	--	90	--	--	523	--	339	23	--	--	1.1
	701	May 19, 1967	do.	11	--	67	53	167	--	257	477	42	1.8	< .4	--	--	950	--	383	49	1,400	7.7	3.7
Y 802	863	Apr. 1, 1947	do.	--	--	--	--	--	--	296	520	82	--	--	--	--	--	345	--	167	--	--	--
Y 802	922	June 15, 1949	do.	15	2.4	58	31	* 319	--	291	580	77	1	.0	3.5	1,230	--	290	72	1,830	7.4	8.4	
Y 803	897	Mar. 11, 1955	Kgr, Ktp	20	--	65	67	* 241	--	274	626	59	--	3	--	1,280	1,216	438	54	1,830	7.8	5.0	
Y 805	738	Nov. 1954	Ktp	--	--	--	--	--	--	187	--	51	--	--	--	--	--	164	--	1,300	9.0	--	
Y 805	876	Dec. 1, 1954	do.	18	--	54	29	* 302	--	292	555	64	.9	.0	--	1,170	--	254	72	1,730	8.0	8.3	
Y 43-102	440	Mar. 8, 1950	Kgr	--	--	--	--	--	--	480	170	16	--	--	--	--	--	516	--	938	7.8	--	
Y 102	464	Mar. 20, 1950	Kgr	--	--	--	--	--	--	--	260	29	--	--	--	--	--	410	--	812	--	--	
Y 102	562	do.	do.	--	--	--	--	--	--	--	2,900	352	--	--	--	--	--	--	--	6,400	--	--	
Y 102	698	do.	do.	--	--	--	--	--	--	316	950	425	--	--	--	--	--	--	--	3,370	7.7	--	
Y 102	698	do.	do.	--	--	--	--	--	--	--	850	420	--	--	--	--	--	--	--	3,380	--	--	
Y 102	791	Apr. 12, 1950	Khe	--	--	--	--	--	--	460	650	532	--	--	--	--	--	150	--	3,370	8.0	--	
Y 102	830	Apr. 20, 1950	Ktp	--	--	--	--	--	--	196	600	125	--	--	--	--	--	--	--	1,680	--	--	
Y 102	850	Apr. 28, 1950	do.	--	--	--	--	--	--	220	620	90	--	--	--	--	--	--	--	1,700	--	--	
Y 102	876	do.	do.	--	--	--	--	--	--	209	580	86	--	--	--	--	--	--	--	1,610	--	--	
Y 102	901 909	July 25, 1951	do.	--	--	--	--	--	--	160	650	95	--	--	--	--	--	--	--	1,750	7.4	--	
Y 102	909	do.	do.	--	4.4	--	--	--	--	346	1,600	245	--	--	--	--	--	1,770	--	4,700	7.3	--	
Z 401	1,975	Nov. 15, 1938	do.	--	--	32	14	* 514	--	512	445	253	5.6	< 20	--	1,520	--	139	89	--	--	--	19.1
Y 401	1,975	Oct. 1, 1941	do.	14	.1	8.1	8.9	* 496	--	463	347	280	5.3	0.0	--	1,380	--	56	95	--	--	--	28.8
Y 702	1,554	Feb. 1905	do.	13	--	77	4.4	* 421	--	211	699	145	--	--	--	1,460	--	--	81	--	--	--	12.6
Z 702	1,554	1937	do.	--	--	46	36	* 492	--	519	668	150	7.3	< 20	--	1,650	--	262	80	--	--	--	13.2
Z 702	1,554	Oct. 1, 1941	do.	14	.04	36	32	* 473	--	414	666	140	6.3	.0	--	1,610	1,573	221	82	--	--	8.5	13.8
Y 702	1,554	Mar. 2, 1951	do.	14	.1	46	32	* 501	--	502	670	142	10	.0	2.7	1,660	--	246	82	2,490	7.7	13.9	
Y 702	1,554	Oct. 29, 1964	do.	14	--	45	28	469	--	493	590	138	8.6	< .4	--	1,790	1,535	228	82	2,320	7.7	13.5	
Y 703	2,250	Oct. 1, 1941	Kho	17	.06	14	5.9	* 532	--	479	303	325	2.9	.0	--	1,520	1,436	60	95	--	--	8.7	30.1
Y 703	2,250	May 17, 1966	do.	18	--	16	6	530	--	540	333	324	4.5	< .4	--	1,500	--	62	95	2,345	7.9	28.5	
Z 704	2,025	Sept. 8, 1937	do.	--	--	48	37	* 534	--	504	627	245	6.9	< 20	--	1,750	--	272	81	--	--	--	14.1
Z 801	1,147	July 4, 1938	Ktp	--	--	368	204	* 1,900	--	236	2,210	2,410	3.2	< 20	--	7,210	--	1,760	70	--	--	--	19.7
Z 801	1,147	Sept. 18, 1938	do.	--	--	376	213	* 1,880	--	325	2,160	2,370	3.6	--	--	7,190	7,163	1,810	69	--	--	--	19.2
Z 801	1,147	Oct. 29, 1964	do.	--	--	311	174	* 1,050	--	388	2,370	640	5.5	--	--	--	--	--	61	--	--	7.6	11.8
Z 44-201	3,001	July 12, 1938	Kho	--	--	90	25	* 508	--	363	727	260	3.7	< 20	--	1,790	--	328	77	--	--	--	12.2

See footnotes at end of table.

TRAVIS COUNTY

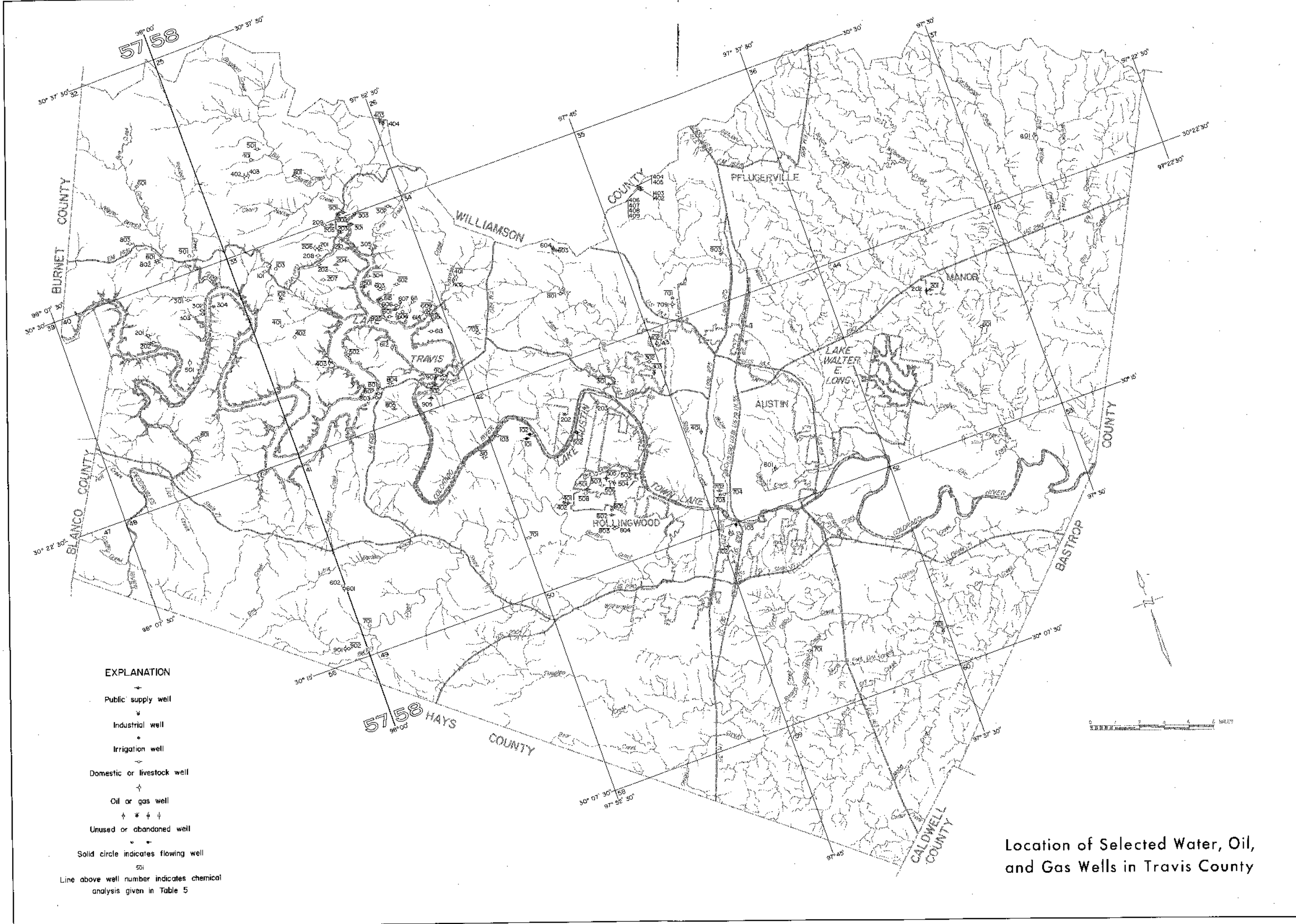
Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER CHARACTERIZING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
2/ YD-58-44-201	3,001	Mar. 20, 1941	Kho	--	--	94	24	* 517	--	366	746	264	3.2	< 20	--	1,830	--	335	77	--	--	12.4
1/ 201	3,001	Dec. 23, 1946	do.	15	1	91	26	* 542	--	396	739	270	4	2.2	--	1,910	1,885	334	78	3,840	7.5	12.9
	601	June 1, 1966	do.	22	3.8	157	52	520	--	321	1,060	277	3.3	< .4	--	2,250	--	610	65	3,160	7.5	9.2
2/ 51-102	2,246	Aug. 18, 1937	do.	--	--	--	--	--	--	122	500	345	3.8	< 20	--	--	--	50	--	--	--	--
1/ 102	2,246	Sept. 1, 1952	do.	19	.48	13	6.2	* 566	--	568	327	328	3.6	.5	1.6	1,540	--	58	96	2,570	8.0	32.4
	102	Oct. 29, 1964	do.	17	--	17	3	550	--	570	343	334	5.3	.4	--	1,840	1,550	55	96	2,450	7.9	32.3
2/ 103	1,595	Aug. 18, 1937	Kcp	--	--	--	--	--	--	430	350	82	4	< 20	--	--	--	--	--	--	--	--
5/ 103	1,595	July 27, 1961	do.	--	.38	38	28	389	--	417	470	102	6.5	< .9	--	1,416	1,239	210	80	--	7.7	11.7
2/ 701	2,425	Aug. 18, 1937	do.	--	--	--	--	--	--	380	700	142	--	6.7	--	--	--	453	--	--	--	--
1/ 701	2,425	Aug. 8, 1949	do.	16	--	159	97	* 435	--	422	1,130	152	--	5.5	--	2,200	--	796	54	2,980	7.9	6.7
2/ 901	3,008	Aug. 19, 1937	Kho	--	--	--	--	--	--	7	1,750	988	--	.0	--	--	--	1,140	--	--	--	--

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSTS:

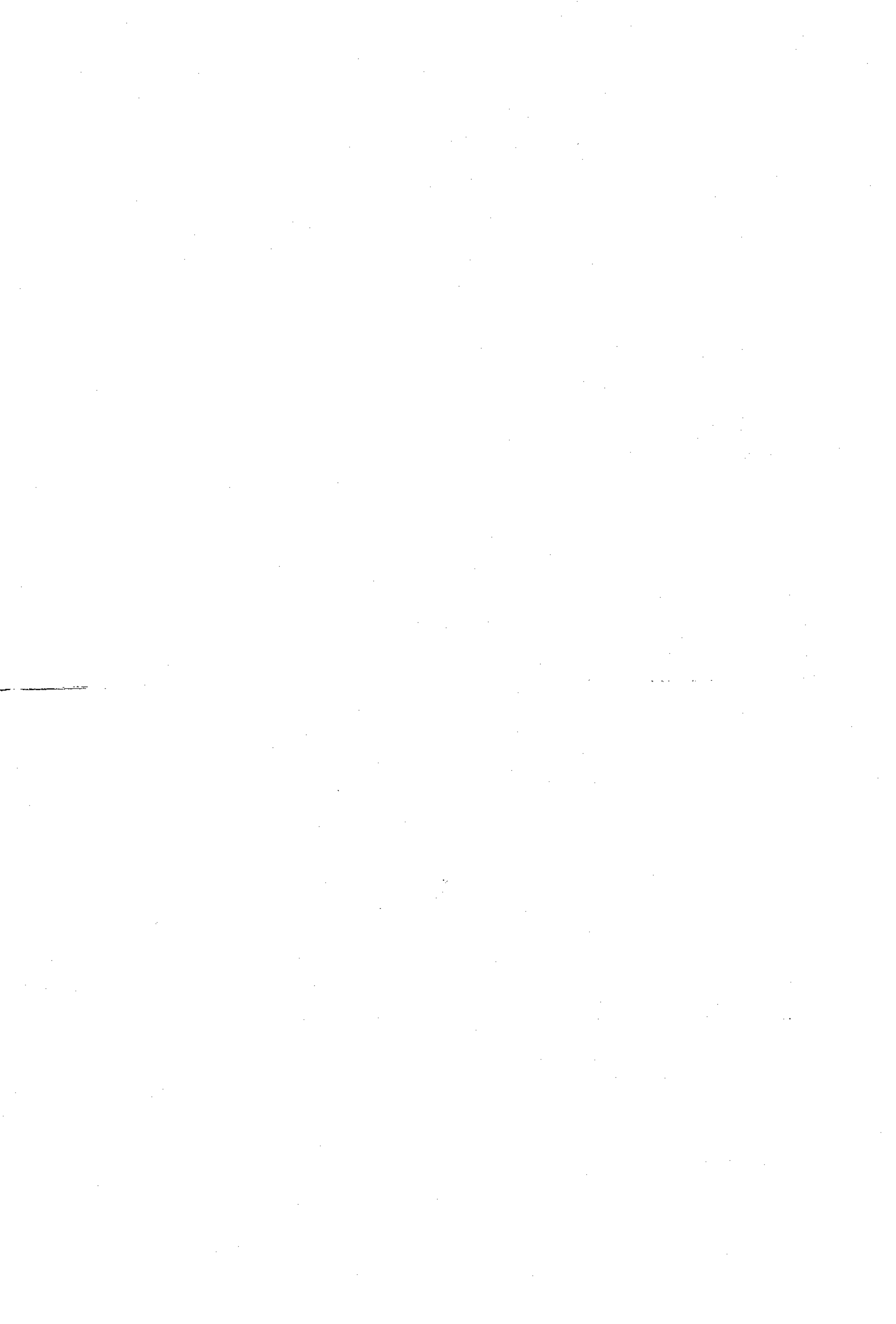
- 1/ U.S. Geological Survey Laboratory
- 2/ The University of Texas
- 3/ Trinity Testing Laboratories
- 4/ Curtis Laboratories
- 5/ Laboratory unknown



EXPLANATION

- Public supply well
- ⊙ Industrial well
- Irrigation well
- ⊖ Domestic or livestock well
- ⊕ Oil or gas well
- ⊕ * ⊕ ⊕ Unused or abandoned well
- Solid circle indicates flowing well
- 501 Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Travis County



WILLIAMSON COUNTY

Table 1.--Records of Selected Water Wells

Water-bearing unit : Kea, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Khe, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Khe, Hosston Member of the Travis Peak Formation; E, Paleozoic rocks undifferentiated.

Method of lift and type of power: A, air; C, cylinder; E, electric; G, gas, butane or diesel engine; H, hand pump; J, jet; N, none; Ng, natural gas; R, reciprocating; Sub, submersible; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; S, livestock.

All wells are drilled unless noted in remarks column.

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
ZK-57-32-301	B. Sherrod	--	--	700	--	--	Ktp	1,305	--	--	C, E 1-1/2	S, Ind	--
* 58-10-201	City of Florence	G. F. Hunt	1925	685	8 6	300 600	Khe	997	297.3 297.3	Aug. 30, 1966 Mar. 5, 1969	Sub, E 10	P	Pumping level 139 ft at 60 gpm on Feb. 19, 1965. Pump set at 400 ft. Reported yield 75 gpm. Texas Water Development Board observation well. <u>3 4</u>
* 202	do.	Hunt and Morgan	--	728	6	700	do.	997	278.15 293.7	Mar. 17, 1966 Mar. 5, 1969	Sub, E 15	P	Open hole completion from 700 to 728 ft. Pump set at 400 ft. Reported yield 100 gpm. Texas Water Development Board observation well. <u>3 4</u>
203	W. T. Chambers	Hunt Drilling Co.	1966	725	7	32	Kgr,Khe	1,035	--	--	--	P	Open hole completion from 32 to 725 ft. <u>2</u>
* 204	City of Florence	Wright Drilling Co.	1968	857	8 6	692 847	Khe,Kho	1,030	308 254.20	Apr. 29, 1968 Jan. 7, 1969	Sub, E 30	P	Sitoned from 692 to 725 and 780 to 847 ft. Pump set at 600 ft. Reported yield 130 gpm. <u>1 2</u>
* 702	J. D. Morgan	Hunt Drilling Co.	1962	630	6	40	Kgr,Ktp	1,005	167.2 180.2	Mar. 17, 1966 Mar. 1, 1969	Sub, E	P	Open hole completion from 40 to 630 ft. Pump set at 380 ft. Reported yield 10 gpm. Temp. 73°F. Texas Water Development Board observation well. Well supplies Andice, Texas. <u>4</u>
11-801	Hartwin H. Holmstrom	do.	1948	905	7	100	do.	880	110 181.90	Nov. 1948 Mar. 5, 1969	C, W	S	Open hole completion from 100 to 905 ft. Pumping level 160 ft at 40 gpm in Nov. 1948. Texas Water Development Board observation well. <u>4</u>
* 12-401	F. J. Viktorin	Maxlon Johnson	1915	615	6	--	Kea	890	242 244.65	Feb. 28, 1941 Mar. 16, 1966	C, G 12	P	Well supplies Jarrell, Texas.
402	do.	G. F. Hunt	1936	--	6	240	do.	905	261	Mar. 20, 1941	C, W	P	Do.
403	do.	--	--	--	--	--	do.	905	--	--	C, W	P	Do.
* 404	do.	--	1958	400	--	--	do.	890	260.13 252.9	May 12, 1967 Mar. 5, 1969	Sub, E 1-1/2	P	Pump set at 300 ft. Texas Water Development Board observation well. Well supplies Jarrell, Texas. <u>4</u>
405	Felix Schwertner	--	--	400	6	--	do.	903	273.03 264.62	Sept. 7, 1949 Mar. 17, 1969	C, E	D, S	Texas Water Development Board observation well. <u>4</u>
* 601	Adolph Schwertner	Anglo Brothers	1910	1,041	12 6	200 600	do.	690	200 62.70	Aug. 7, 1940 Mar. 17, 1969	Sub, E 2	P	Open hole completion. Texas Water Development Board observation well. Well supplies Schwertner, Texas. <u>4</u>
* 13-501	City of Bartlett	J. W. Dyson	1903	1,320	10 6	-- --	do.	601	+ 28.0	Feb. 5, 1941 Apr. 2, 1969	A, E 10	N	Reported yield 350 gpm.
* 502	do.	Layne Texas Co.	1936	1,595	8	1,006	Kea	600	+ --	Feb. 5, 1941	T, E 15	N	Pumping level 150 ft at 200 gpm on Oct. 5, 1936. Pump set at 160 ft. Reported yield 235 gpm. <u>1</u>

See footnotes at end of table.

WILLIAMSON COUNTY

Table 1. -- Records of Selected Water 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.)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft.)	DATE OF MEASUREMENT			
* ZK-58-13-503	City of Bartlett	J. L. Myers Sons	1958	2,617	10 7 5	765 2,471 2,617	Kho	600	50 101.6	Mar. 15, 1958 Apr. 2, 1969	T, E	P	Slotted from 2,471 to 2,617 ft. Pumping level 108 ft at 228 gpm on Feb. 9, 1965. Pump set at 300 ft. Texas Water Development Board observation well. <u>3</u> <u>2</u> <u>4</u>
* 17-301	W. B. Collins	Powell Drilling	1967	420	7	21	Kgr,Ktp	925	91.98	Jan. 18, 1967	Sub, E 3	D, S	Open hole completion from 21 to 420 ft. Pumping level 120 ft at 70 gpm in Jan. 1967. Pump set at 150 ft. Reported yield 25 gpm. Well filled with gravel from 355 to 420 ft. Temp. 71°F. <u>3</u> <u>2</u>
* 801	Mrs. L. T. Huggins and Wilson Parks	--	--	450	--	--	Kgr,Kbe	1,025	--	--	N	N	--
802	Wilson Parks	J. D. Henderson	1961	450	8	62	do.	1,025	196.45 201.4	Mar. 17, 1966 Mar. 4, 1969	Sub, E 1-1/2	D	Open hole completion from 62 to 450 ft. Texas Water Development Board observation well. <u>4</u>
* 803	Liberty Hill Water Supply Corp.	Wright Drilling Co.	1965	450	8 6	376 453	Kha	1,030	195	Mar. 9, 1965	T, E	P	Slotted from 382 to 443 ft. Pumping level 277 ft at 120 gpm on Mar. 9, 1965. Estimated yield 90 gpm. Cemented from 376 ft to surface. Well drilled to 500 ft and plugged back to 450 ft. <u>3</u> <u>2</u>
901	Texas Quarries	Hunt Drilling Co.	--	500	--	--	Kgr,Kha	1,025	--	--	Sub, E 1-1/2	N	--
* 18-401	Walter Carrington	Sterzing Drilling Co.	1967	510	7	409	Ktp	935	103.9 115.53	Mar. 17, 1967 May 17, 1967	Sub, E	S	Open hole completion from 409 to 510 ft. Pumping level 125 ft at 25 gpm on May 17, 1967. Pump set at 189 ft. Reported yield 18 gpm. Cemented from 409 ft to surface. Temp. 74°F. <u>3</u> <u>2</u> <u>3</u>
* 501	Burt Hall	--	--	539	12	30	Kgr,Kbe	845	1 45	July 8, 1940 Jan. 20, 1969	N	N	Open hole completion from 30 to 539 ft. <u>3</u>
701	Col. Sims	--	1956	700	10	--	Ktp	892	160.2 174.80	Mar. 21, 1966 Jan. 16, 1968	C, E	S	Reported yield 200 gpm. Texas Water Development Board observation well. <u>4</u>
703	E. W. McCollum	--	1952	700	12	--	do.	1,015	--	--	T, G	N	Reported yield 300 gpm.
19-301	James Christip	--	--	--	8	--	Kea	760	100.27 94.4	Sept. 7, 1949 Mar. 17, 1969	Sub, E	D, S	Pump set at 100 ft. Texas Water Development Board observation well. <u>4</u>
* 501	City of Georgetown	--	--	40	--	--	do.	760	--	--	--	P	Reported yield 15 gpm.
* 601	Mrs. N. L. Mann	--	1950	100	12	--	do.	660	--	Jan. 17, 1961 June 14, 1968	T, S	Irr	Reported flow 20 gpm. Temp 70°F.
602	A. G. Braun	-- Harper	1948	47	7	18	do.	700	18 27	Aug. 4, 1950 July 9, 1956	J, E	N	Open hole completion from 18 to 47 ft. Former Texas Water Development Board observation well.
604	do.	do.	1948	47	8	18	do.	700	1.60 4.34	Mar. 16, 1966 Apr. 2, 1969	T, G	N	Open hole completion from 18 to 47 ft. Reported yield 300 gpm. Texas Water Development Board observation well. <u>4</u>
605	do.	Hunt and Morgan	1956	56	12	19	do.	700	27.18 3.65	Jan. 9, 1957 Apr. 2, 1969	N	N	Open hole completion from 19 to 56 ft. Texas Water Development Board observation well. <u>4</u>
606	do.	-- Robinson	1940	100	6	--	do.	700	27	Aug. 4, 1950	C, W	U, S	Open hole completion.
* 803	City of Georgetown	Layne Texas Co.	1952	186	12	91	do.	750	88 75.25	May 15, 1952 Apr. 2, 1969	T, S 40	P	Open hole completion from 91 to 186 ft. Pumping level 100 ft at 754 gpm on May 15, 1952. Pump set at 167 ft. Texas Water Development Board observation well. <u>3</u> <u>4</u>

See footnotes at end of table.

WILLIAMSON COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* ZK-58-19-804	City of Georgetown	Layne Texas Co.	1952	210	12	103	Kea	750	89 102 80	May 15, 1952 July 28, 1956 July 2, 1968	T, E	P	Open hole completion from 103 to 210 ft. Pumping level 97 ft at 759 gpm on May 15, 1952. Pump set at 150 ft. <u>3</u>
* 805	do.	do.	1957	175	16	44	do.	680	5	June 24, 1957 June 1958 Jan. 17, 1961	T, E	P	Open hole completion from 44 to 175 ft. Pumping level 10 ft at 2,005 gpm on June 24, 1957. Pump set at 80 ft. <u>3</u>
810	Doyle Lyda	Harrison Well Service	1969	1,116	6	42	Kgr, Ktp	780	52.0	Aug. 4, 1969	--	D	Open hole completion from 42 to 1,116 ft. <u>2</u>
* 20-101	Walter Jacobs	Brown Brothers	1908	590	6	--	Kea	855	180 205.10	Aug. 2, 1940 Jan. 7, 1969	C, W, G	P	Well supplies Walburg, Texas.
* 102	do.	--	1957	603	6	447	do.	855	230 212.14	Mar. 17, 1957 Mar. 17, 1969	Sub, E 2	P	Open hole completion from 447 to 603 ft. Reported yield 12 gpm. Texas Water Development Board observation well. Well supplies Walburg, Texas. <u>4</u>
* 401	Mrs. J. E. Smith	John Cloud	1908	412	6	--	do.	685	32 51.95	Mar. 21, 1941 Mar. 17, 1967	T, E	P	Pumping level 73 ft at 10 gpm on July 30, 1940. Texas Water Development Board observation well. Well supplies Weir, Texas. <u>4</u>
* 901	Ansel Holmstrom	--	1953	745	7	--	do.	600	+ + 21.29	Mar. 18, 1953 Mar. 18, 1969	R, E 1/3	D, S	Temp. 77°F. Texas Water Development Board observation well. <u>4</u>
* 21-201	City of Granger	-- Monahan	1908	2,531	8 6 4	800 2,431 2,531	Khe	578	+ 35	July 15, 1944	N	N	Perforated from 2,431 to 2,531 ft. Reported flowed 200 gpm.
202	do.	J. L. Myers Sons	1947	2,607	16 10 7 5	80 600 2,341 2,605	do.	575	28 79.31	Mar. 18, 1960 Mar. 18, 1969	T, E	P	Slotted from 2,341 to 2,605 ft. Pumping level 123 ft at 310 gpm on Jan. 13, 1965. Reported flowed 200 gpm in 1947. Texas Water Development Board observation well. <u>1</u> <u>2</u> <u>3</u> <u>4</u>
* 203	do.	do.	1956	2,606	12 8 5	72 606 2,606	do.	578	28 64.2	Jan. 7, 1960 Jan. 7, 1965	T, E	P	Slotted from 2,356 to 2,606 ft. Reported yield 275 gpm. Temp. 100°F. <u>1</u> <u>2</u> <u>3</u>
* 26-401	Leander School	S. W. Sanford	1954	780	6	42	Ktp	985	150 225.00	May 8, 1954 Mar. 20, 1968	Sub, E	P	Open hole completion from 42 to 780 ft. Pumping level 210 ft at 15 gpm on May 8, 1954. Pump set at 400 ft. Texas Water Development Board observation well. <u>4</u>
* 701	T. L. Allan	--	1920	1,185	--	--	do.	1,050	--	--	Sub, E 2	Ind	Well used by Texas Quarries.
* 702	Mrs. Stuart Walker	J. D. Henderson	1951	700	6	6	Kgr, Khe	958	130	1951	C, E	D, S	Open hole completion from 6 to 700 ft. Reported yield 4 gpm.
* 703	White Stone Lime Co.	Powell Drilling	1964	930	8 5	40 930	Ktp	1,015	157.55	Jan. 7, 1969	Sub, E 5	Ind	Open hole completion from 40 to 750 ft. Perforated from 900 to 930 ft. Pumping level 525 ft at 16 gpm. Pump set at 567 ft. Temp. 78°F.
704	do.	do.	1958	860	7	--	do.	1,015	315 194.35	Oct. 23, 1958 Jan. 7, 1969	Sub, E 5	Ind	Open hole completion. Pumping level 434 ft at 20 gpm. Pump set at 567 ft. Well filled with gravel from 780 to 860 ft.
705	Texas Quarries	do.	1962	850	--	--	do.	1,030	383.25 416.75	Mar. 21, 1966 Mar. 4, 1969	Sub, E 5	Ind	Reported yield 12 gpm. Texas Water Development Board observation well. <u>4</u>

See footnotes at end of table.

WILLIAMSON COUNTY

Table 1. -- Records of Selected Water 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
					DIAM-ETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW (-) LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* 2K-58-27-101	Doc Weir	Hervey Meadows and Son Well Driller	1962	1,224	7 5	1,000 1,224	Kho	880	330 137.5	May 1965 Apr. 2, 1969	Sub, E 1-1/2	D, S	Slotted from 1,175 to 1,224 ft. Pump set at 400 ft. Reported yield 10 gpm. Temp. 77°F. Texas Water Development Board observation well. <u>2</u> <u>4</u>
201	Texas Crushed Stone Co.	--	1959	200	6	--	Kea	810	130	1959	Sub, E	Ind	Reported yield 50 gpm.
202	do.	--	1959	200	6	--	do.	810	130 94.92	Apr. 2, 1969	Sub, R 1/3	Ind	Texas Water Development Board observation well. <u>4</u>
504	-- Hoppy	--	--	400	6	--	do.	780	97.40 77.18	Aug. 7, 1950 Apr. 2, 1969	C, E	D, S	Do.
* 505	Texas Highway Department	Sterzing Drilling Co.	1966	225	6	--	do.	740	33	June 3, 1966	Sub, E 10	P	Slotted. Pumping level 137 ft at 83 gpm on June 6, 1966. Reported yield 75 gpm. Well drilled to 454 ft and plugged back to 225 ft. <u>2</u>
506	--	--	--	345	--	--	do.	740	--	--	--	N	Well was used in construction of Interstate Highway 35. <u>2</u>
507	Texas Highway Department	Sterzing Drilling Co.	1966	159	6	153	do.	755	58	June 25, 1966	Sub, E 10	P	Slotted from 60 to 140 ft. Pump set at 140 ft. Reported yield 75 gpm. Cemented from 58 ft to surface. <u>2</u>
* 801	City of Round Rock	Miles Robertson	1934	222	12	30	do.	700	40 4	Apr. 2, 1969	T, E 40	P	Reported yield 750 gpm. Temp. 69°F. Texas Water Development Board observation well. <u>2</u> <u>4</u>
* 802	do.	--	--	220	8	--	do.	700	40	Jan. 17, 1961	T, E	P	Reported yield 250 gpm.
803	Round Rock White Lime Co.	A. Z. Daniels	--	285	6	--	do.	750	--	--	Sub, E	Ind	--
804	do.	S. W. Sanford	1960	400	8	15	do.	735	70	July 1960	Sub, E	Ind	Open hole completion from 15 to 400 ft.
* 901	Frank Anderson	-- Glass	1956	425	10 8 6	90 290 425	do.	700	36 60.66	Jan. 19, 1961 Apr. 1, 1969	T, C	Tr	Slotted from 290 to 425 ft. Pump set at 300 ft. Reported yield 250 gpm. Cemented. Texas Water Development Board observation well. <u>2</u> <u>4</u>
* 902	R. C. Overall	S. W. Sanford	1956	504	--	--	do.	685	52 24.89	Mar. 1956 Apr. 1, 1969	N	N	Texas Water Development Board observation well. <u>4</u>
* 28-601	City of Butte	C. F. Hunt	1937	790	8	--	do.	640	66 42.60	July 10, 1940 Mar. 17, 1969	Sub, E 15	P	Do.
602	do.	Sterzing Drilling Co.	1964	787	7	590	do.	660	110	Sept. 2, 1964	--	P	Open hole completion from 590 to 787 ft. Pumping level 180 ft at 20 gpm on Sept. 2 1964. Cemented from 590 ft to surface. <u>2</u>
* 29-501	J. A. Bigon	Central Texas Drilling Co., Inc.	1969	1,115	6 4	926	do.	618	--	--	--	Ind	Slotted from 1,025 to 1,115 ft. <u>2</u>
* 602	City of Taylor	Landing and Coffield Drilling Co.	1934	3,308	16 8 6	348 2,715 3,308	Kho	567	+ 92 67.09	Sept. 1934 Mar. 18, 1969	T, S 75	P	Perforated from 2,691 to 3,308 ft. Texas Water Development Board observation well. <u>2</u> <u>4</u>
* 603	do.	Layne Texas Co.	1946	3,335	16 10 7	400 2,795 3,335	do.	553	+ 51 49.49	Aug. 18, 1946 Mar. 18, 1969	T, S 75	P	Slotted from 2,749 to 3,335 ft. Pumping level 61 ft at 1,076 gpm on Oct. 23, 1953. Pump set at 150 ft. Texas Water Development Board observation well. <u>2</u> <u>4</u>

See footnotes at end of table.

WILLIAMSON COUNTY

Table 1. -- Records of Selected Water Wells -- Continued

WELL	OWNER	DRILLER	DATE COMPLETED	DEPTH OF WELL (ft)	CASTING		WATER BEARING UNIT	ALTITUDE OF LAND SURFACE (ft)	WATER LEVEL		METHOD OF LIFT	USE OF WATER	REMARKS
					DIAMETER (in.)	DEPTH (ft)			ABOVE (+) OR BELOW LAND SURFACE DATUM (ft)	DATE OF MEASUREMENT			
* 2K-58-29-604	City of Taylor	Layne Texas Co.	1954	3,356	20 16 8 6	30 454 2,779 3,356	Kbo	537	+ 34.23	Feb. 19, 1954 Mar. 18, 1969	T, K 100	P	Screened from 2,780 to 2,950 and 2,970 to 3,346 ft. Pumping level 187 ft at 1,089 gpm on Jan. 14, 1965. Temp. 116°F. Texas Water Development Board observation well. <u>1 2 3 4</u>
605	Taylor Bedding Co.	do.	1944	3,353	7 4	2,767 3,353	do.	547	+ 9 17	Jan. 1944 1959 1960	T, E	Ind	Perforated from 2,761 to 3,352 ft. Reported flowed 450 gpm in 1944. <u>1</u>
35-102	Austin White Lime Co.	Central Texas Drilling Co., Inc.	--	65	7	39	Kea	810	--	--	T, E 7	Ind	Open hole completion.
103	do.	Sterzing Drilling Co.	1955	80	10	20	do.	790	30	--	Sub, E 7-1/2	Ind	Open hole completion from 20 to 80 ft. Reported yield 22 gpm. <u>1</u>
* 204	City of Round Rock	Smith and Bradshaw	1964	370	--	--	do.	792	148 90.93 122.45	May 13, 1964 Mar. 19, 1968 Apr. 2, 1969	T, K	P	Pumping level 280 ft at 310 gpm on May 13, 1964. Pump set at 280 ft. <u>1 2</u>
* 36-301	Henry Hooper	Sterzing Drilling Co.	1956	1,050	7 4	900 1,050	do.	625	38	1961	N	N	Slotted. Reported yield 20 gpm. Well plugged and abandoned.

* For chemical analysis of water, see Table 5.

1 For drillers' log of well, see Table 3.2 Electric logs in files of the Texas Water Development Board, Austin, Texas.3 For results of pumping tests, yields and specific capacities of wells, see Table 4, Volume I.4 For water-level measurements, see Table 4.

WILLIAMSON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
ZK-58-09-501	Atlantic-Richfield	Harry B. Lewis No. 1	1967	8,462	981	E,S
601	Shell Oil Co.	Purcell No. 1	1954	9,470	1,069	E,S
901	Hewit and Dougherty	J. W. Pearson No. 1	1952	9,104	1,080	E
12-406	S. L. Carpenter	S. J. Seward No. 1	1948	2,023	893	E
19-809	Layne Texas Co.	City of Georgetown No. ?	1946	1,698	750	E
22-401	Puma Oil and Gas Co.	Rosie Simcik No. 1	1948	2,145	490	E
27-701	Louis Henna, et al.	Alsa Brook No. 2	1948	2,333	759	E
28-301	M. N. Stafford	Tubbs No. 1	1964	2,919	610	E
29-901	Grubb and Fertitta	Marjorie Rhoades No. 1	1966	1,445	500	E
34-302	I. C. Pearson	Pearson-D-H-A Well	1953	1,400	900	R
35-101	do.	O. H. Parker	1956	6,000	925	R
37-201	W. M. Jarrell	L. V. Coupland No. 1	1950	3,572	545	E
601	Anderson-Pritchard Oil Co.	Theo Schwenke No. 2	—	1,326	522	E

WILLIAMSON COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-10-204			Well ZK-58-13-502—Continued		
Owner: City of Florence Driller: Wright Drilling Co.			Lime	38	1,041
Topsoil	2	2	Lime rock	10	1,051
Caliche	13	15	Lime	31	1,082
Firm, blue limestone	100	115	Lime rock	31	1,113
Blue shale	25	140	Lime	24	1,137
Blue limestone	552	692	Lime rock	10	1,147
Sand and water	33	725	Lime and shale	17	1,164
Hard limestone	7	732	Lime	18	1,182
Shale	4	736	Rock	67	1,249
Hard, gray limestone	40	776	Rock and layers of shale	36	1,285
Hard, sandy limestone	4	780	Lime rock	46	1,331
Sand	67	847	Rock with layers of shale	19	1,350
Red bed	9	856	Lime	36	1,386
Dark shale	1	857	Rock	38	1,424
			Lime	62	1,486
Well ZK-58-13-502			Shale and rock	109	1,595
Owner: City of Bartlett Driller: Layne Texas Co.			Well ZK-58-13-503		
Soil	3	3	Owner: City of Bartlett Driller: J. L. Myers Sons		
Clay and gravel	53	56	Clay and gravel	40	40
Green shale	153	209	Sand and clay	25	65
Hard shale with pyrites of iron	75	284	Shale	100	165
Hard shale or chalk	15	299	Rock	113	278
Rock	29	328	Shale	166	444
Lime rock	107	435	Lime rock	326	770
Rock	72	507	Shale	80	850
Lime rock	81	588	Lime shale	100	950
Rock	52	640	Lime	22	972
Lime with hard layers	125	765	Lime rock	57	1,029
Brown shale	78	843	Shale	46	1,075
Rock	37	880	Lime rock	54	1,129
Shale	65	945	Lime	124	1,253
Rock	26	971	Lime shale	56	1,309
Hard lime	9	980	Lime	331	1,640
Rock	12	992	Broken lime	294	1,934
Lime	6	998	Broken shale	137	2,071
Rock	5	1,003	Shale	29	2,100

Table 3.--Drillers' Logs of Selected Wells in Williamson County--Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-13-503--Continued			Well ZK-58-17-803		
Sand	30	2,130	Owner: Liberty Hill Water Supply Corp. Driller: Wright Drilling Co.		
Broken lime	96	2,226	Black topsoil	1.5	1.5
Shale	69	2,295	Red clay and gravel	4.5	6
Sand	80	2,375	Caliche	22	28
Broken sand	93	2,468	Blue, sandy clay and gravel	9	37
Sand	149	2,617	Soft, blue limestone	103	140
Well ZK-58-17-301			Firm, gray limestone	180	320
Owner: W. B. Collins Driller: Powell Drilling			Dry sand of the Trinity formation	8	328
Soil and rock	12	12	Fine, gray sand - Trinity - dry	8	336
Yellow rock and gravel	2	14	Dark gray sand rock	37	373
Lime rock	10	24	Hard lime shelf	2	375
Blue lime rock	14	38	Sand rock	6	381
White lime rock	64	102	Trinity sand and thin rock ledges with water	61	442
Lime (water - 1 gpm)	6	108	Hard, white limestone	58	500
White, lime rock	12	120	Well ZK-58-18-401		
Dark gray formation	6	126	Owner: Walter Carrington Driller: Sterzing Drilling Co.		
White, lime rock	82	208	(Description of samples by R. L. Bluntzer)		
White, sandy lime	12	225	Not sampled	35	35
White and yellowish lime	55	280	Light brownish gray, coarsely crystalline, dolomitic limestone (40%); dark gray to black, finely crystalline, shaly, asphaltic oolitic limestone (15%); buff, finely to coarsely crystalline, fossiliferous (fragments) limestone (5%); white anhydrite (10%); and shale (30%)	5	40
Hard, cap lime	1	281	Not sampled	15	55
Black shale	4	285	White to light gray, finely crystalline, fossiliferous, asphaltic, oolitic, limestone (35%); brownish gray to dark gray, fine crystalline, silty limestone (10%); white anhydrite (5%); trace of buff limestone as above; and shale (50%)	5	60
Shale layers	7	292	Not sampled	15	75
Dove-color, sharp lime and some sand	31	323	White to dark gray to black, oolitic, finely crystalline, asphaltic, fossiliferous, limestone (30%); dark gray, finely crystalline, silty limestone (10%); white anhydrite (20%); and shale (40%)	5	80
Coarse, dry sand	5	328			
Lime layer	2	330			
Fine sand (water slowly rising 10 to 15 gpm)	4	334			
Layers of coarse sand (no change in water)	7	341			
Coarse sand	5	346			
White, coarse sand	18	364			
Buttermilk lime and sand	14	378			
Loose, medium sand	6	384			
Green shale	1	385			
Medium sand	11	396			
Coarse sand (main water sand)	14	410			
Hard, white, limy sand, running out	10	420			

Table 3.—Drillers' logs of Selected Wells in Williamson County—Continued

Well ZK-58-17-301—Continued			Well ZK-58-17-301—Continued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Not sampled	15	95	White to light tannish gray, hard, highly fossiliferous, pyritic, calcitic (in seams, crystals and fossils) slightly oolitic, limestone (100%)	5	260
White to purple to brownish gray anhydrite (40%); same limestone as above (25%); and shale (35%)	5	100	Not sampled	15	275
Not sampled	15	115	Light tannish gray, finely crystalline, very fossiliferous, slightly oolitic, pyritic, very sandy to silty, slightly shaly carboniferous limestone (100%)	5	280
White to gray anhydrite (30%); limestone above (10%); and shale (60%)	5	120	Not sampled	15	295
Not sampled	15	135	Same limestone as above but very very shaly (80%); and dark brownish gray to light gray, silty to sandy, calcareous shale (20%)	5	300
Light gray, finely crystalline, hard fossiliferous, silty to sandy limestone (75%); anhydrite (10%); and shale (15%)	5	140	Very fine to very coarse, poorly sorted, silty to shaly, angular, loose sand with grains of clear to brown quartz and very fine to coarse, poorly sorted, silty, well carbonate cemented calcareous, slightly shaly, hard, white to dark gray sandstone (65%); and light gray, hard, very calcareous, silty to slightly sandy, slightly fossiliferous shale (35%)	5	305
Not sampled	15	155	Same sand and sandstone as above except very fine to very coarse and pebbly quartz (50%); and same shale as above (50%)	5	310
Light gray to dark gray, very sandy to very silty, shaly, fossiliferous, asphaltic finely to coarsely crystalline, limestone (95%); and shale (5%)	5	160	Light gray silty to slightly sandy, soft, very gummy, shale (100%)	5	315
Not sampled	15	175	Light gray, hard, silty to slightly sandy, fossiliferous, slightly pyritic, slightly carboniferous limestone (85%); and same sand and sandstone as from 300 to 305 ft (15%)	5	320
Cream to dark gray, sandy to silty, fossiliferous, asphaltic, finely to coarsely crystalline, shaly limestone (40%); light brownish gray, coarsely crystalline, shaly limestone (20%); and dark gray, slightly sandy to silty, shale (40%)	5	180	Dark gray, hard to gummy, silty to sandy, calcareous, shale (60%); same limestone as above (40%); and some same sand as above	5	325
Not sampled	15	195	Hard, brownish gray, very sandy, fossiliferous (fragments), calcareous shale—actually siltstone (90%); and same limestone as above from 315 to 320 ft (10%)	5	330
Same cream to dark gray limestone as above but with calcite seams and highly fossiliferous (85%); and shale above (15%)	5	200			
Not sampled	15	215			
Same cream to dark gray limestone as above (30%); and very fine to fine, very very shaly to silty, light gray, bentonitic, lignitic pyritic, calcareous sandstone (70%); first water (as seep) reported by driller; water samples taken	5	220			
Not sampled	15	235			
Light gray, very limy, very shaly to silty very fine to fine, fossiliferous slightly pyritic sandstone (80%); and same cream to dark gray limestone as above (20%)	5	240			
Not sampled	15	255			

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

Well ZK-58-17-301—Continued			Well ZK-58-17-301—Continued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Hard, light gray, sandy to silty, fossiliferous, very calcareous, slightly pyritic shale (90%); and same shale (siltstone) as above (10%)	5	335	Same sandstone as above from 370 to 375 ft (90%); and same limestone as above from 370 to 375 ft (10%)	5	380
Very fine, well-sorted, very very shaly, silty, calcareous sandstone (100%)	5	340	Same sandstone as above from 370 to 375 ft (20%); very fine to coarse, mostly very fine, well sorted, subangular (large grains) to rounded (small grains), very silty to slightly shaly calcareous, calcitic, quartz sandstone (60%); and dark gray, fissil, laminated shale (20%)	5	385
Very fine to very coarse, mostly fine (well-sorted), subrounded to rounded, slightly pebbly, silty to shaly, calcareous, calcitic (possibly in seams as crystals), light to dark brownish gray, quartz sandstone (95%); white to light gray, finely crystalline, limestone (5%); and some white anhydrite	5	345	Same sandstone as above from 380 to 385 ft (55%); same sandstone as above from 370 to 375 ft (40%); and same laminated shale as above from 380 to 385 ft (5%)	5	390
Same sandstone as above from 340 to 345 ft but has pebbles and sand grains of black chert (20%); and light gray, hard to gummy, silty to sandy, fossiliferous, calcareous shale (80%)	5	350	Very fine to pebbly, poorly sorted, subangular to rounded, very very shaly, silty sand and sandstone (80%); and same sandstone (listed 2nd from 380 to 385 ft as above (20%))	5	395
Same shale as above but very gummy (100%)	5	355	Same sandstones as above from 390 to 395 ft and 380 to 385 ft (100%)	5	400
Same shale as above (90%); and same sandstone as above from 340 to 345 ft (10%)	5	360	Same sandstones as above from 395 to 400 ft (100%)	5	405
Dark to light gray, hard to slightly gummy, silty to sandy shale (40%); light gray to white, finely crystalline, brown stained, fossiliferous, limestone (40%); same sandstone as above from 340 to 345 ft (20%)	5	365	Very fine to very coarse, very pebbly, very silty, poorly sorted, rounded (frosted) to angular (unfrosted), very loose to slightly cemented, slightly asphaltic, pyritic, mostly clear quartz sand with some grains of brown, black, and white chert and some limestone (60%); very hard, very fine to coarse, carbonate cemented sandstone with same grain of quartz etc. as above (10%); and gray, laminated, slightly silty shale (30%)	5	410
Same shale as above from 360 to 365 ft (60%); same limestone as above from 360 to 365 ft (10%); and same sandstone as above from 360 to 365 ft (30%)	5	370	Tannish gray, finely crystalline, very pyritic, hard, silty to sandy limestone (35%); and very fine to coarse, silty, pebbly, carbonate cemented, pyritic, light tannish to dark gray, slightly ferruginous sandstone with grains of clear quartz and brown and black chert (65%)	5	415
Very hard, very fine to pebbly, poorly sorted, subangular to rounded, carbonate cemented, very silty, fossiliferous (fragments) calcareous, light to dark gray sandstone with grains of gray, brown, and clear quartz, white to buff to gray limestone, black siltstone and shale that is mostly quartz (60%); and light tannish gray, hard, very silty to very sandy fossiliferous, calcitic (in seams), slightly oolitic, limestone (40%)	5	375	Fine to coarse, reasonably sorted, subangular to well rounded, pyritic, mostly clear quartz, loose sand with some grains of limestone (?) and chert (100%); and some carbonate cemented sandstone; first good water sand	5	420

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-17-301—Continued			Well ZK-58-17-301—Continued		
Same sand as above from 415 to 420 ft (100%)	5	425	Same limestone as above from 470 to 475 ft (50%); and same sand as above from 470 to 475 ft (50%)	5	480
Medium to coarse, pebbly, angular to subrounded, frosted, pyritic, loose sand with grains of clear quartz, dark gray limestone and white, gray and black chert (80%); and very fine to medium, carbonate cemented, light gray to white, pyritic sandstone (20%)	5	430	White to light gray, very fine to fine, medium sorted, hard, carbonaceous, calcareous, slightly silty sandstone (40%); same sand as above from 470 to 475 ft (40%); and white to tannish gray to light gray, slightly oolitic, finely crystalline, slightly silty to sandy, hard limestone (20%)	10	490
Same sand as above from 425 to 430 ft (30%); same sandstone as above from 425 to 430 ft (40%); white to light gray, finely crystalline, pyritic, silty to sand, hard limestone (25%); and light gray, laminated, silty, calcareous, shale (5%)	5	435	Same sandstone as above at 480 to 490 ft (75%); same sand as above at 470 to 475 ft (20%); same limestone as above at 480 to 490 ft (5%)	10	500
Light tannish to dark gray finely crystalline, pyritic, silty to sand, hard limestone (100%)	5	440	Light gray, very fine to medium, slightly pebbly, poorly sorted, hard, calcareous, silty sandstone (80%); same sand as above at 470 to 475 ft (15%); and same limestone as above at 480 to 490 ft (5%)	5	505
Same limestone as above from 435 to 440 ft (60%); same sand and sandstone as above from 425 to 430 ft (40%)	5	445	Medium to pebbly, angular to rounded (frosted) poorly sorted, pyritic, slightly ferruginous, silty, arkosic (gray, feldspar?), clear to white to greenish gray and tan, loose, mainly quartz sand with other grains of feldspar (?), limestone, dolomite, chert, and chlorite (90%); same sandstone as above at 500 to 505 ft (5%); and same limestone as above at 480 to 490 ft (5%); second good water sand - but bad odor from oil	5	510
Not sampled	5	450			
White to dark gray, finely crystalline, pyritic, slightly silty to sandy, hard limestone (90%); and same sand and sandstone as above from 440 to 445 ft (10%)	5	455			
Same limestone as above from 450 to 455 ft (80%); and same loose sand as above from 440 to 445 ft (20%)	5	460			
Same limestone as above from 450 to 455 ft (90%); same sand and sandstone as above from 440 to 445 ft (10%)	5	465			
Same limestone as above from 450 to 455 ft (50%); and same sand as above from 440 to 445 ft (50%)	5	470			
White to buff to brown, finely crystalline, silty to sandy, hard limestone (30%); and fine to pebbly, rounded (frosted) to angular (slightly frosted), poorly sorted, carboniferous, pyritic, ferruginous, very shaly to silty, loose, clear to gray to brown quartz sand with other grains of limestone and chert (70%)	5	475			
			Well ZK-58-19-803		
			Owner: City of Georgetown Driller: Layne Texas Co.		
			Topsoil	5	5
			Clay and limestone	7	12
			Blue shale and limestone	36	48
			Limestone and shale breaks	23	71
			Limestone	13	84
			Limestone, lost returns	16	100
			Hard, no returns	3	103
			Porous - limestone	1.5	104.5

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-19-803—Continued			Well ZK-58-19-809		
No returns	3	107.5	Owner: City of Georgetown Driller: Layne Texas Co.		
Porous limestone	1.5	109	(Description of samples by F. W. Rolshäusen)		
No returns	2	111	No record	37	37
Porous limestone	1	112	Light gray, faintly glauconitic, chalky limestone		
Hard	1.5	113.5	<i>Oolina</i> sp.		
Porous limestone	1.5	115	Ostracods		
Hard	4	119	Oysters		
Porous limestone	3	122	<i>Globigerina wasitaensis</i>		
Hard	2	124	<i>Anomalina plummerae</i>		
Porous limestone	3	127	<i>Lenticulina qualtina</i>		
Hard	2	129	Echinoid spines		
Porous limestone	3	127	<i>Cyroidina</i> sp.		
Hard	2	129	<i>Textularia rioensis</i>		
Porous limestone	10	139	<i>Lagina sulcata</i>	33	70
Hard	10	149	<i>Globigerina cretacea</i>	31	101
Porous limestone	6	155	No record	30	131
Hard	4	159	Like above, some chert	93	224
Porous limestone	27	186	No record	31	255
Well ZK-58-19-804			Granular, cavernous, cherty limestone and some anhydrite		
Owner: City of Georgetown Driller: Layne Texas Co.			<i>Orbitolina walnutensis</i>		
Topsoil	3	3	Round form		
Clay	6	9	Small, thin pelecypod		
Limestone	61	70	Gastropod		
Limestone, lost circulation	57	127	Miliolidae		
Porous limestone	12.67	139.67	Ostracod	31	255
Crack	.33	140	Echinoid spines		
Limestone	18	158	Tan, granular limestone and hard, light gray, chalky limestone	31	286
Porous limestone	7	165	Hard light tannish gray, chalky limestone with thin partings of brownish gray, marly shale	31	317
Hard limestone	10	175	No record	30	347
Soft limestone	35	210	Pale gray, fossiliferous marl and chalk		
Well ZK-58-19-805			<i>Eponides</i> sp.		
Owner: City of Georgetown Driller: Layne Texas Co.			Echinoid spines		
Surface soil and gravel	12	12	Ostracods	30	377
Clay and lime	11	23	Oysters		
Hard lime	107	130	Hard, light tannish gray, chalky limestone and some gray, fossiliferous, chalky marl	31	408
Lime and hard flint	45	175	Like above, more fossils, trace of anhydrite		
			<i>Lituola</i> sp.	31	439
			Gray marl and slightly glauconitic marl; light gray slightly oolitic chalk; light tannish gray limestone; and a trace of anhydrite	32	471
			Like above, also tan, granular, porous limestone	31	502

Table 3.—Drillers' Logs of Selected Wells in Williamson County--Continued

Well ZK-58-19-809--Continued			Well ZK-58-19-809--Continued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Tan, porous, oolitic, milliolid chalk; and tan, granular, chalky limestone <i>Haplophragmoides</i> sp. <i>Lituola</i> sp. <i>Haplosteche</i> sp. Miliolidae Gastropods Oysters Ostracods	29	531	No record	30	930
Pale gray and tan, granular, porous limestone	31	562	Pale tannish gray, granular limestone with anhydrite included	30	960
No record	31	593	Pale gray and tan, chalky to slightly granular, highly oolitic limestone and a trace of anhydrite <i>Rephax</i> sp. <i>Haplophragmoides</i> sp. <i>Orbitolina texana</i> (several) Gastropods Crinoids Echinoids Miliolidae Oysters	31	991
Light tannish gray and some pale gray, highly oolitic, fossiliferous chalk in places slightly recrystallized and trace of anhydrite <i>Orbitolina texana</i> (very scarce) <i>Haplosteche</i> sp. <i>Lituola</i> sp. Miliolidae Crinoid stems Echinoid spines Gastropods	30	623	Like above, trace of chert as well as anhydrite <i>Orbitolina texana</i> (abundant)	32	1,023
No records	31	654	No record	31	1,054
Like above No <i>orbitolina texana</i> observed	31	685	Tan, granular, faintly oolitic limestone; tan and light gray, chalky, oolitic limestone; and a trace of anhydrite <i>Orbitolina texana</i> (scarce) Echinoid spines Miliolidae Crinoid stems Ostracods Oysters	31	1,085
No record	31	716	Tan and brown, granular, faintly oolitic limestone and some light gray, oolitic limestone and oolitic, chalky marl <i>Orbitolina texana</i> (several)	31	1,116
Tan and pale brown, chalky to granular, oolitic limestone and trace of anhydrite Miliolidae	31	747	Tan, granular limestone; light gray, finely granular to chalky limestone; light gray, oolitic limestone; tan, porous, milliolid limestone; light gray, porous to cavernous limestone stained with dead oil; several fragments of anhydrite and an occasional fragment of sandy limestone; and gray, soft sandstone and gray shale <i>Orbitolina texana</i> (very scarce)	30	1,146
Tan brown and brownish gray, lightly chalky to granular, oolitic limestone and quite a few fragments of anhydrite <i>Orbitolina texana</i> (very scarce) Miliolidae Gastropods (casts) Pelecypods (casts) Oysters	30	777	Light tannish gray, oolitic limestone and some anhydrite included and a few fragments of gray, silty sand, gray, sandy shale, and gray shale <i>Orbitolina texana</i> <i>Haplosteche</i> sp. <i>Haplophragmoides</i> sp. Miliolidae Gastropods Pelecypods Ostracods Echinoid spines Crinoid stems Oysters	31	1,177
No record	31	808			
Like above <i>Orbitolina texana</i> (several)	31	839			
Tan and pale gray, highly oolitic, chalky to granular limestone and trace of anhydrite <i>Rephax</i> sp. <i>Haplophragmoides</i> sp. Miliolidae <i>Orbitolina texana</i> (very scarce) Gastropods Pelecypods Oysters	30	869			
Tan and pale gray, slightly chalky to granular, oolitic limestone	31	900			

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-19-809—Continued			Well ZK-58-19-809—Continued		
Gray shale; gray, coarse to fine-grained sand; tan, granular limestone; tan, oolitic limestone; gray, fine-grained, sandy shale; gray, oolitic, sandy limestone; and sandy marl and some anhydrite	31	1,208	Dark gray, slightly carbonaceous shale, shale, and sandy shale; a few green, buff, and pink shale fragments; limestone nodules and boulders; chert; granite; schist; and limestone pebbles; chalky limestone; and some sand	31	1,576
Gray and tan, oolitic, finely granular, slightly sandy, and faintly glauconitic limestone; a few gray, limy, sandstone fragments; and a few fragments of shale and anhydrite <i>Orbitolina texana</i>	31	1,239	No record	90	1,666
No record	31	1,270	Dark gray, faintly carbonaceous and micaceous, indurated shale; and thin horizontal seams of siltstone; this core is dipping at about 78 degrees	4	1,670
Light tan, sandy, slightly glauconitic limestone; gray, slightly oolitic, slightly sandy limestone; light gray, medium to fine-grained sandstone; light gray, finely granular, slightly sandy limestone; and some anhydrite as included areas in the sandy limestone <i>Orbitolina texana</i>	31	1,301	Dark gray, slightly carbonaceous and slightly micaceous shale; gray, slightly carbonaceous, quartzitic sandstone; gravel pebbles; and lime boulders and nodules; some of the dark gray shale and sandstones show vertical quartz veining	28	1,698
			Well ZK-58-21-202		
			Owner: City of Granger Driller: J. L. Myers Sons		
Hard, tannish white, chalky limestone; a few pale greenish gray and light gray, finely granular, slightly sandy limestone; and a trace of shale, sandstone, and anhydrite	31	1,332	Surface soil	7	7
Light tannish gray sand; light tannish gray, slightly sandy limestone; hard, tannish white, faintly sandy limestone; a few oolitic limestone fragments; and a few fragments of gray and green shale and anhydrite	31	1,363	Sand and gravel	8	15
Like above, more light gray and white, finely granular limestone	30	1,393	Clay	87	102
Red, lavender, green, and gray shale and sandy shale; tan, pink, and light gray sandstone; white and pink limestone; and sandy limestone and a few gravel pebbles	31	1,424	Gumbo	38	140
No record	30	1,454	Rock	418	558
Light tannish gray sandstone; green, gray, and pink clay; light tannish gray and pink limestone and sandy limestone nodules and boulders, gravel; and gray, sandy clay	30	1,484	Rock with shale breaks	113	671
Conglomerate as above with more chert gravel; much of this lime and chert gravel is reworked from the Ellenberger section	31	1,515	Rock	62	733
Like above, less chert, gravel, and a few fragments of brown, green, buff, red, and gray, hard shale; a few of the gravel pebbles are made up of packsaddle schist	30	1,545	Shale	57	790
			Rock	30	820
			Shale	60	880
			Lime	110	990
			Shale	10	1,000
			Broken, sandy shale	24	1,024
			Broken sand	15	1,039
			Rock	5	1,044
			Sand	12	1,056
			Hard rock	4	1,060
			Sandy shale	19	1,079
			Hard lime	2	1,081
			Lime	38	1,119
			Rock	27	1,146
			Lime	283	1,429

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-21-202—Continued			Well ZK-58-21-201—Continued		
Lime with shale breaks	176	1,603	Sand	96	2,515
Hard lime	19	1,624	Sand, broken with lime streaks	75	2,590
Rock with shale breaks	79	1,703	Hard lime	16	2,606
Hard lime	14	1,717			
Rock	90	1,807	Well ZK-58-27-801		
Shale	25	1,832	Owner: City of Round Rock Driller: Miles Robertson		
Rock	160	1,992	Del Rio clay	20	20
Sand	20	2,012	Georgetown lime	125	145
Sandy shale	39	2,051	Edwards lime	77	222
Shale	10	2,061			
Lime and shale	41	2,102	Well ZK-58-28-602		
Sandy shale	21	2,123	Owner: City of Hutto Driller: Sterzing Drilling Co.		
Rock	43	2,166	Black surface	4	4
Lime	6	2,172	Hard white caliche	38	42
Shale	40	2,212	Blue, Taylor chalk	28	70
Lime	38	2,250	Austin Chalk	345	415
Sandstone	81	2,331	Eagle Ford clay	65	480
Sand	78	2,409	Buda lime	25	505
Lime	10	2,419	Del Rio Clay	80	585
Rock	81	2,500	Georgetown lime	98	683
Sand	22	2,522	Edwards lime	104	787
Hard rock	16	2,538			
Soft rock	28	2,566	Well ZK-58-29-602		
Hard rock	12	2,578	Owner: City of Taylor Driller: Lanning and Coffield Drilling Co.		
Hard sand	29	2,607	Surface	10	10
Well ZK-58-21-203			Taylor Marl	188	198
Owner: City of Granger Driller: J. L. Myers Sons			Pecan Gap lime	32	230
Surface soil	4	4	Chalky lime	290	520
Clay and sand	56	60	Chalk	380	900
Shale	165	225	Eagle Ford Shale	60	960
Lime and shale	166	391	Buda lime	50	1,010
Broken lime	369	760	Del Rio Clay	50	1,060
Lime	256	1,016	Georgetown lime	176	1,236
Sand and shale	79	1,095	Edwards lime, sulfur water	314	1,550
Lime	795	1,890	Comanche Peak lime	60	1,610
Broken shale	185	2,075	Walnut blue clay	10	1,620
Broken lime	344	2,419	Alternate lime with layers of shale, Glen Rose	830	2,450

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-603—Continued			Well ZK-58-29-604—Continued		
Shale	5	3,177	Sandy lime	17	2,739
Soft shale and lime	10	3,187	Sandy lime and shale	157	2,896
Shale and lime	8	3,195	Sand and shale streaks	14	2,910
Sandy shale	6	3,200	Sandy lime	9	2,919
Shale	9	3,209	Lime	7	2,926
Shale	1	3,210	Sandy lime	27	2,953
Shale and lime	3	3,213	Sandy lime and shale	113	3,066
Sandy lime	29	3,242	Sandy lime (hard)	32	3,098
Shale	12	3,254	Sandy lime	9	3,107
Sand	4	3,258	Sand and shale streaks	23	3,130
Sand	15	3,273	Sandy lime	31	3,161
Sand	17	3,290	Sandy lime and shale	107	3,268
Shale, sandy	8	3,298	Sandy lime	20	3,288
Sand, shale, soft lime	7	3,305	Sandy shale	12	3,300
Soft lime	16	3,321	Lime	6	3,306
Shale and lime	8	3,329	Sandy lime	39	3,345
Shale	6	3,335	Red shale	11	3,356
Well ZK-58-29-604			Well ZK-58-29-605		
Owner: City of Taylor Driller: Layne Texas Co.			Owner: Taylor Bedding Co. Driller: Layne Texas Co.		
Surface	3	3	Surface soil	5	5
Clay and gravel	5	8	Yellow clay	40	45
Clay	26	34	Blue shale	12	57
Gray shale	195	229	Light and blue-gray marl	338	395
Gray shale and gravel	101	330	Gray marl	160	555
Gray shale	204	534	Gray shale and chalk	108	663
Chalk	66	600	Shale and chalk	46	709
Lime and chalk	23	623	Lime and shale	63	772
Chalk	375	998	Chalk and shale	241	1,013
Shale	14	1,012	Shale (black)	51	1,064
Lime and shale	153	1,165	Lime	61	1,125
Lime	721	1,886	Hard lime	4	1,129
Lime and shale	24	1,910	Blue shale	41	1,170
Lime	291	2,201	Lime and shale	37	1,207
Sandy lime	75	2,276	Lime	95	1,302
Lime	267	2,543	Soft, brown lime	69	1,371
Lime and shale	159	2,702	Brown and white lime	44	1,415
Sandy shale	20	2,722	Hard lime	73	1,488

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-605—Continued			Well ZK-58-29-605—Continued		
Lime	775	2,263	Sand, layers shale	15	3,265
Sandy lime	53	2,316	Sand	25	3,290
Lime	14	2,330	Shale	8	3,298
Sandy lime and lime	85	2,415	Layers shale and sand	31	3,329
Lime	89	2,504	Sand, layers red, blue, and green shale	13	3,342
Blue shale and lime	42	2,546	Hard, red, blue, and black shale	11	3,353
Hard lime	30	2,576			
Blue shale and lime	54	2,630			
Fine lime and sand	30	2,660			
Blue shale and lime	60	2,720			
Blue shale	48	2,768	Topsoil	12	12
Sand, layers shale	23	2,791	Fault	42	54
Sand	67	2,858	White lime	26	80
Sand, layers shale	121	2,979			
Sand, hard layers shale and lime	72	3,051			
Hard shale and lime	30	3,081			
Sand	32	3,113	Surface formation	25	25
Hard shale and lime	12	3,125	Del Rio formation	75	100
Sand, hard layers shale	88	3,213	Georgetown formation	140	240
Sand	22	3,235	Edwards formation	100	340
Hard shale and lime	15	3,250	Glen Rose formation	30	370

Well ZK-58-35-103
Owner: Austin White Lime Co.
Driller: Sterzing Drilling Co.

Well ZK-58-35-204

Owner: City of Round Rock
Driller: Smith and Bradshaw

WILLIAMSON COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well ZK-58-10-201		Well ZK-58-12-404		Well ZK-58-12-405—Continued	
Owner: City of Florence		Owner: F. J. Viktorin		May. 15, 1957	275.83
Aug. 30, 1966	297.3	May 12, 1967	260.13	Nov. 27, 1957	269.33
Mar. 13, 1968	294.40	Mar. 19, 1968	243.50	Nov. 18, 1958	270.24
Mar. 5, 1969	297.3	June 14, 1968	253.81	Dec. 18, 1959	269.69
Well ZK-58-10-202		Mar. 5, 1969	252.9	Oct. 19, 1961	262.10
Owner: City of Florence		Well ZK-58-12-405		Oct. 7, 1964	273.07
Mar. 17, 1966	278.15	Owner: Felix Schwertner		Mar. 17, 1966	258.48
Aug. 30, 1966	293.5	Sept. 7, 1949	273.03	Mar. 27, 1967	273.34
Sept. 28, 1966	309.0	Nov. 28, 1949	273.66	Oct. 4, 1967	273.54
Nov. 3, 1966	292.2	Apr. 13, 1950	273.26	Mar. 19, 1968	258.81
Nov. 23, 1966	290.14	Aug. 4, 1950	276.50	Mar. 17, 1969	264.62
Mar. 24, 1967	295.75	Dec. 5, 1950	276.25	Well ZK-58-12-601	
May 4, 1967	303.46	Jan. 5, 1951	281.31	Owner: Adolph Schwertner	
June 8, 1967	306.45	Apr. 9, 1951	278.01	Aug. 7, 1940	200
Nov. 9, 1967	302.2	Aug. 10, 1951	276.88	May 12, 1967	61.12
Dec. 8, 1967	304.09	Jan. 7, 1952	277.71	Mar. 19, 1968	62.61
Feb. 16, 1968	295.29	Apr. 8, 1952	278.85	Mar. 17, 1969	62.70
Mar. 13, 1968	289.96	Aug. 12, 1952	273.64	Well ZK-58-13-503	
May 7, 1968	292.36	Sept. 3, 1952	279.17	Owner: City of Bartlett	
Mar. 5, 1969	293.7	Dec. 18, 1952	278.75	Mar. 15, 1958	50
Well ZK-58-10-702		Aug. 7, 1953	273.10	Feb. 9, 1965	85
Owner: J. D. Morgan		Dec. 15, 1953	272.71	Mar. 22, 1966	90.93
Mar. 17, 1966	167.2	Apr. 20, 1954	273.17	Aug. 31, 1966	89.45
Mar. 27, 1967	179.2	Aug. 10, 1954	275.55	Sept. 28, 1966	89.40
Mar. 3, 1969	180.2	Dec. 28, 1954	278.12	Mar. 19, 1968	93.54
Well ZK-58-11-801		Mar. 14, 1955	276.43	Apr. 2, 1969	101.6
Owner: Hartwin H. Holmstrom		July 18, 1955	276.58	Well ZK-58-17-802	
Nov. 1948	110	Mar. 16, 1956	277.32	Owner: Wilson Parks	
Mar. 20, 1968	181.43	July 19, 1956	278.04	Mar. 17, 1966	196.45
Mar. 5, 1969	181.90	Sept. 4, 1956	283.03	Mar. 23, 1967	202.7
		Nov. 12, 1956	278.37	Mar. 4, 1969	201.4
		Jan. 9, 1957	279.32		
		Mar. 19, 1957	278.55		

Table 4.—Water Levels in Selected Wells in Williamson County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well ZK-58-20-901		Well ZK-58-27-202—Continued		Well ZK-58-27-504—Continued	
Owner: Ansel Holmstrom		Mar. 23, 1967	96.02	Oct. 5, 1965	80.85
1953	Flowed	Apr. 2, 1969	94.92	Mar. 18, 1966	72.9
Mar. 23, 1966	Flowed	Well ZK-58-27-504		Mar. 23, 1967	96.22
May 9, 1966	+ 18.5	Owner: —Hoppy		Oct. 4, 1967	93.17
May 23, 1967	+ 15.0	Aug. 7, 1950	97.40	Oct. 14, 1968	73.30
Mar. 19, 1968	+ 14.36	Dec. 6, 1950	98.98	Apr. 2, 1969	77.18
Mar. 18, 1969	+ 21.29	Jan. 5, 1951	97.76	Well ZK-58-27-801	
Well ZK-58-21-202		Apr. 9, 1951	97.32	Owner: City of Round Rock	
Owner: City of Granger		Aug. 10, 1951	99.32	1957	40
1960	28	Apr. 8, 1952	99.08	Jan. 17, 1961	Flowed
Jan. 7, 1965	69.00	Aug. 12, 1952	99.55	Oct. 24, 1964	32
Mar. 21, 1966	72.4	Dec. 18, 1952	100.97	Mar. 18, 1966	3.0
Mar. 23, 1967	74.60	Apr. 15, 1953	100.90	Mar. 23, 1967	24.5
Mar. 19, 1968	76.10	Aug. 7, 1953	99.43	Apr. 2, 1969	4
Mar. 18, 1969	79.31	Dec. 15, 1953	98.35	Well ZK-58-27-901	
Well ZK-58-26-401		Apr. 20, 1954	99.17	Owner: Frank Anderson	
Owner: Leander School		Dec. 28, 1954	99.49	Jan. 19, 1961	36
May 8, 1954	150	Mar. 14, 1955	92.54	Mar. 22, 1966	48.21
Mar. 24, 1967	220.7	July 18, 1955	105.46	Aug. 31, 1966	51.95
Mar. 20, 1968	225.00	Nov. 10, 1955	99.62	Sept. 27, 1966	53.92
Well ZK-58-26-705		Mar. 16, 1956	99.64	Nov. 3, 1966	59.83
Owner: Texas Quarries		July 19, 1956	100.06	Nov. 23, 1966	64.86
Mar. 21, 1966	383.25	Sept. 4, 1956	100.86	Dec. 29, 1966	77.93
Mar. 23, 1967	390.75	Nov. 12, 1956	99.50	May 4, 1967	73.26
Mar. 4, 1969	416.75	Jan. 9, 1957	99.69	June 9, 1967	73.13
Well ZK-58-27-101		Mar. 19, 1957	99.90	Sept. 15, 1967	73.42
Owner: Doc Weir		May 15, 1957	93.43	Oct. 4, 1967	73.15
May 1965	330	July 18, 1957	84.35	Nov. 9, 1967	73.30
Feb. 1967	200	Nov. 27, 1957	72.75	Dec. 8, 1967	73.16
Mar. 24, 1967	247.19	May 19, 1958	62.86	Jan. 15, 1968	62.60
Apr. 2, 1969	137.5	July 15, 1958	67.09	Feb. 7, 1968	36.94
Well ZK-58-27-202		Nov. 18, 1958	71.05	Mar. 13, 1968	25.59
Owner: Texas Crushed Stone Co.		May 14, 1959	81.06	Apr. 1, 1969	60.66
1959	130	Dec. 18, 1959	83.37		
Mar. 18, 1966	92.38	Jan. 16, 1961	76.89		
		Sept. 25, 1962	88.90		
		Sept. 12, 1963	98.27		

Table 4.—Water Levels in Selected Wells in Williamson County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well ZK-58-27-902		Well ZK-58-29-602—Continued		Well ZK-58-29-603—Continued	
Owner: E. C. Overall		Aug. 31, 1966	65.65	Jan. 8, 1965	37.90
Mar. 1956	52	Sept. 28, 1966	60.51	Mar. 21, 1966	40.57
Mar. 16, 1966	21.4	Nov. 3, 1966	58.37	Aug. 30, 1966	47.03
Mar. 23, 1967	41.31	Dec. 30, 1966	64.7	Sept. 28, 1966	42.10
Apr. 1, 1969	24.89	Mar. 24, 1967	59.5	Nov. 23, 1966	49.27
Well ZK-58-28-601		May 5, 1967	58.6	Dec. 28, 1966	45.3
Owner: City of Hutto		June 9, 1967	64.55	Mar. 24, 1967	42.3
July 10, 1940	66	June 30, 1967	72.62	Mar. 19, 1968	45.95
Mar. 22, 1966	21.58	Oct. 4, 1967	64.53	Mar. 18, 1969	49.49
Mar. 23, 1967	67.11	Nov. 10, 1967	63.80	Well ZK-58-29-604	
Sept. 17, 1968	Flowed	Dec. 13, 1967	64.60	Owner: City of Taylor	
Mar. 17, 1969	42.60	Jan. 12, 1968	66.85	Feb. 19, 1954	Flowed
Well ZK-58-29-602		Feb. 8, 1968	64.02	1960	29
Owner: City of Taylor		Mar. 13, 1968	67.90	Jan. 8, 1965	26.3
Sept. 1934	+ 92	Mar. 18, 1969	67.09	Mar. 21, 1966	25.9
Feb. 1941	+ 56	Well ZK-58-29-603		Mar. 19, 1968	30.39
1960	14	Owner: City of Taylor		Mar. 18, 1969	34.23
Jan. 8, 1965	57.8	Aug. 18, 1946	+ 51		
Mar. 21, 1966	58.13	1959	7		
		Sept. 1964	44		

WILLIAMSON COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells in Central Texas

(Analyses given are in milligrams per liter except percent sodium, specific conductance, pH, and sodium adsorption ratio)

Water-bearing unit: Kwb, Woodbine Group; Kea, Edwards and associated limestones; Kf, Fredericksburg Group; Kp, Paluxy Formation; Kgr, Glen Rose Formation; Ka, Antlers Formation; Ktp, Travis Peak Formation; Klc, Hensell Member of the Travis Peak Formation; Kpe, Pearsall Member of the Travis Peak Formation; Khd, Hensell Member of the Travis Peak Formation; P, Paleozoic rocks undifferentiated.

Dissolved solids : "Reported" - as appeared in respective analysis.
 "Recalculated" - recalculated by Texas Water Development Board personnel using sum of constituents in "reported" analysis. Bicarbonate was converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate for use in the "recalculated" sum.

Analyses by Texas State Department of Health unless indicated by footnote.

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
1/ ZK-58-10-201	685	May 2, 1939	Khe	--	--	34	17	* 164	--	366	111	66	1.4	--	--	573	--	156	70	--	--	5.8
	201	Feb. 25, 1955	do.	10	0.2	30	17	158	--	360	95	67	1.1	< 0.4	--	520	556	145	70	--	7.8	5.7
	202	May 3, 1960	do.	--	.11	30	19	134	--	359	91	63	1.2	< .4	--	558	516	155	66	931	7.6	4.7
	202	June 7, 1966	do.	--	< .02	27	20	126	36	348	87	58	1.2	< .4	--	700	527	152	58	956	7.7	4.5
2/	204	Apr. 30, 1968	do.	--	3.6	12	10	200	--	365	100	74	--	--	--	600	579	71	86	--	7.8	10.4
2/	204	do.	Khc, Khd	--	2.8	10	6	285	--	400	70	187	--	--	--	800	758	48	93	--	7.7	17.5
	702	Sept. 18, 1968	Kgr, Ktp	14	< .02	113	75	95	--	367	397	67	2.2	.5	--	940	--	590	26	1,410	7.4	1.7
1/	12-401	June 11, 1940	Kea	--	--	78	26	* 12	--	342	16	16	.6	8.8	--	326	--	301	8	--	--	.3
1/	401	Mar. 20, 1941	do.	--	--	78	26	* 12	--	342	12	16	.6	8.8	--	330	321	301	8	--	--	.3
	404	June 6, 1966	do.	--	.12	74	23	12	--	312	15	18	.6	14	--	469	310	280	9	594	7.6	.3
1/	601	1,041 Aug. 7, 1940	do.	--	--	38	19	* 228	--	372	163	136	--	--	--	767	--	172	74	--	--	7.5
1/	601	1,041 do.	do.	--	--	34	19	* 292	--	378	202	184	5.4	3.5	--	926	--	162	80	--	--	9.9
	601	1,041 Feb. 28, 1955	do.	27	3.4	30	17	296	--	390	205	181	.1	4	--	968	956	145	82	--	7.8	10.7
1/	13-501	1,320 Feb. 5, 1941	do.	13	.08	17	15	* 632	--	432	542	360	7.2	.0	--	1,806	--	104	93	--	8.5	27.0
	502	1,595 Feb. 13, 1939	do.	16	.45	28	16	* 561	--	494	434	310	3.4	< .4	--	1,665	1,613	136	90	--	8.0	20.9
1/	502	1,595 Feb. 5, 1941	do.	16	.10	19	10	* 562	--	490	449	300	7	.0	--	1,613	--	88	93	--	7.8	26.0
	502	1,595 May 17, 1949	do.	27	.3	37	17	* 607	--	488	549	362	8	< .4	--	1,900	1,848	163	89	--	8.1	20.6
	502	1,595 Feb. 12, 1964	do.	--	.22	10	3	445	--	476	254	266	3.7	< .4	--	1,460	1,217	37	96	2,313	8.1	31.2
	503	2,617 Mar. 18, 1958	Khd	--	.4	9	3	409	--	476	236	255	3	< .4	--	1,347	1,149	37	96	2,245	7.8	30.2
	503	2,617 Feb. 12, 1964	do.	--	.2	9	4	445	--	488	246	266	3.4	< .4	--	1,440	1,204	37	96	2,310	8.0	30.7
1/	503	2,617 Mar. 12, 1965	do.	--	.22	23	8	430	--	467	227	265	3	--	--	1,423	1,186	90	91	--	8.2	19.7
	17-301	108 Dec. 1966	Kgr	11	--	64	72	194	38	366	417	109	5.7	< .4	--	1,090	--	434	46	1,610	8.0	3.9
	301	334 Jan. 1967	Kgr, Kcp	11	--	74	87	209	44	434	473	125	5.5	< .4	--	1,240	--	540	43	1,800	8.4	3.9
	301	420 Feb. 9, 1967	do.	12	.02	65	66	172	35	366	381	102	4.5	< .4	5.3	1,028	--	436	44	1,600	7.5	3.6
	801	450 Mar. 1955	Kgr; Khe	--	.38	56	26	* 97	--	290	55	78	.6	.4	--	500	456	247	46	--	7.7	2.7
	803	450 Feb. 15, 1965	Khe	--	.02	129	67	54	30	336	196	83	1.1	192	--	1,090	917	600	16	1,640	7.7	.9

See footnotes at end of table.

WILLIAMSON COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
1/ ZK-58-17-803	450	Mar. 10, 1965	Khe	--	0.26	59	30	81	--	338	55	75	0.6	< 0.4	--	640	467	272	39	944	7.4	2.1	
	18-401	220	Feb. 9, 1967	Egr	9	--	68	72	155	--	356	329	123	5	< .4	--	940	--	468	42	1,500	7.7	3.1
	401	220	do.	do.	9	--	125	40	161	--	334	355	126	4.6	< .4	--	990	--	475	42	1,500	7.8	3.2
	401	445	Feb. 18, 1967	Egr, Khe	8	--	63	62	163	48	361	347	126	4.8	< .4	--	1,000	--	412	43	1,550	7.9	3.5
	401	450	Mar. 10, 1967	do.	26	--	38	3	127	42	--	151	104	1.6	< .4	--	550	--	106	63	1,079	11.0	5.3
	401	510	Mar. 11, 1967	Rtp	22	--	19	21	121	43	220	122	100	1.4	< .4	--	560	--	134	58	879	8.5	4.5
	401	510	May 17, 1967	do.	26	.16	12	14	153	43	13	224	110	1.6	7	3	620	600	87	70	1,050	9.9	7.1
	401	510	do.	do.	16	.16	47	23	111	22	356	56	92	1	< .4	.9	540	--	210	50	906	7.7	3.3
3/	501	539	July 8, 1940	Egr, Khe	--	--	33	21	* 165	--	354	70	113	1.2	< 20	--	577	--	168	68	--	--	5.5
	501	539	Jan. 27, 1969	do.	13	.04	69	49	186	--	344	260	152	2.5	2.6	3.6	900	--	375	52	1,440	7.8	2.2
2/	19-501	40	Feb. 22, 1951	Kea	9.9	--	81	33	* 7	--	386	6.8	10	--	4	--	357	342	338	4	744	7.4	.2
	501	40	Aug. 16, 1966	do.	--	.04	110	19	9	--	383	13	26	.3	21	--	580	386	353	5	--	7.4	.2
1/	601	100	Jan. 17, 1961	do.	11	.0	99	15	9.8	1.1	326	15	18	.4	29	--	358	--	308	6	623	6.9	.2
4/	803	186	--	do.	--	.04	100	20	10	--	344	17	19	.1	--	--	--	--	335	6	--	7.4	.2
	803	186	Oct. 7, 1959	do.	--	.08	101	20	* 10	--	337	23	27	.1	26	--	411	373	335	6	685	7.4	.2
	803	186	Dec. 14, 1960	do.	--	.03	28	12	17	--	16	46	33	.2	49	--	205	193	122	24	342	8.7	.7
	803	186	Aug. 16, 1966	do.	--	.02	112	20	16	--	353	27	28	.3	36	--	590	413	363	9	--	7.2	.4
	804	210	May 14, 1952	do.	15	.08	97	19	* 16	--	348	27	25	.1	--	--	407	370	320	10	--	8.0	.4
	804	210	Dec. 14, 1960	do.	--	.04	96	22	10	--	351	19	19	.2	22	--	393	361	330	6	655	7.2	.2
	804	210	Aug. 16, 1966	do.	--	.10	107	16	10	--	355	17	18	.4	23	--	550	367	336	6	--	7.3	.2
4/	805	175	June 24, 1946	do.	8	.1	104	16	* 16.2	--	383.1	17	20	--	--	--	592	369	326	9	639	7.18	.4
	805	175	Oct. 9, 1957	do.	--	.4	96	22	* 8	--	354	--	--	--	--	--	397	--	330	5	661	7.1	.2
	805	175	Dec. 14, 1960	do.	--	.76	102	18	8	--	342	16	12	.2	27	--	392	352	330	5	654	7.0	.2
	805	175	Aug. 16, 1966	do.	--	.10	103	19	7	--	357	12	15	.3	21	--	530	353	336	4	--	7.3	.2
4/	809	1,698	June 29, 1946	--	10	.1	56.4	26.2	59.1	--	259.8	89.6	47	--	--	--	584.1	417	248.8	34	--	7.5	1.6
1/	20-101	590	Aug. 2, 1940	Koa	--	--	34	24	* 88	--	305	46	47	3.8	--	--	396	--	173	53	--	--	2.9
	102	603	Jan. 14, 1966	do.	--	.08	38	24	78	--	294	50	38	3.6	< .4	--	530	377	194	47	736	7.9	2.4
1/	401	412	July 30, 1940	do.	--	--	51	25	* 107	--	323	94	64	3.9	--	--	504	--	231	50	--	--	3.1
1/	901	745	May 20, 1956	Kea	--	--	--	--	* 650	--	552	--	475	--	--	2.2	--	--	78	95	2,940	8.0	--
	901	745	Sept. 17, 1968	do.	17	.28	16	17	630	--	560	335	489	5.2	< .4	--	1,780	--	110	93	2,820	8.0	26.1
1/	21-201	2,531	Feb. 5, 1941	Kho	17	.24	18	8.3	* 523	--	452	359	330	2.7	--	--	1,491	--	79	94	--	7.9	25.6
	203	2,606	Sept. 17, 1968	do.	18	.58	23	9	491	--	451	305	335	3	< .4	--	1,410	--	93	92	2,250	7.9	22.0
1/	26-401	780	May 8, 1954	Rtp	17	1.3	66	85	* 86	--	374	297	51	4.4	2.5	--	849	794	514	27	1,240	7.6	1.6
1/	701	1,185	Mar. 26, 1949	do.	10	--	156	61	* 562	--	390	194	950	--	1.2	4.6	2,130	--	640	66	3,910	--	9.7

See footnotes at end of table.

WILLIAMSON COUNTY

Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)	
																REPORTED	RECALCULATED						
2K-58-26-702	700	Sept. 10, 1951	Kgr, Khe	12	--	70	80	* 95	--	454	252	42	5	3	--	791	--	504	29	1,260	8.3	1.8	
703	930	Sept. 19, 1968	Ktp	13	.16	62	55	364	--	416	251	423	4.1	1	--	1,380	--	380	68	2,310	7.5	8.1	
27-101	1,224	Aug. 28, 1964	Kho	--	--	18	45	--	--	--	--	1,640	--	--	--	--	--	232	--	--	--	--	
101	1,224	Sept. 17, 1968	do.	12	2.04	190	121	620	--	426	1,510	329	4.5	< .4	--	3,000	--	970	58	3,840	7.4	8.6	
4	505	June 3, 1966	Kaa	--	--	--	--	--	--	--	--	8.9	--	--	--	--	--	--	--	706	--	--	
801	222	Oct. 19, 1939	do.	9	.02	99	19	* 42	--	436	23	18	< .4	11	--	424	435	--	20	--	7.7	.9	
1	801	Mar. 30, 1941	do.	--	.02	109	23	* 6.7	--	374	40	15	.2	14	--	392	--	367	4	--	--	.2	
802	220	Sept. 12, 1957	do.	--	< .02	102	23	12	--	366	30	23	.3	20	--	443	390	350	7	738	7.2	.3	
1	901	July 25, 1956	do.	--	--	--	--	--	--	313	--	29	--	--	--	--	--	280	--	625	7.6	--	
1	902	do.	do.	--	--	--	--	--	--	299	61	29	--	7.7	--	--	--	265	--	802	7.7	--	
1	28-601	790	July 11, 1940	do.	--	21	12	* 527	--	494	391	302	4.2	--	--	1,500	--	103	92	--	--	22.7	
1	601	790	Oct. 1951	do.	18	.14	17	* 534	--	495	384	308	4.4	.5	--	1,520	--	92	93	2,460	7.7	24.2	
601	790	Sept. 17, 1968	do.	17	.30	16	9	530	--	482	412	310	4.4	> .4	--	1,540	--	77	94	2,380	7.8	26.2	
29-501	1,115	July 30, 1969	do.	5	--	31	4	331	--	276	282	187	4.4	> .4	--	980	--	93	89	1,580	7.9	14.9	
1	602	3,308	Feb. 3, 1941	Kho	21	.27	15	5.2	* 464	--	462	349	225	2.8	.0	--	1,310	--	59	94	--	7.9	26.2
602	3,308	Nov. 17, 1942	do.	27	.72	24	8	* 448	--	453	353	230	2.2	> .4	--	1,307	--	93	91	--	8.0	20.3	
602	3,308	July 28, 1948	do.	25	.88	22	6	* 457	--	454	368	225	2.3	> .4	--	1,300	1,330	80	93	--	7.7	22.3	
602	3,308	Nov. 24, 1953	do.	36	.2	14	9	466	--	458	370	231	1.8	> .4	--	1,420	1,354	72	93	--	7.9	23.8	
602	3,308	Feb. 17, 1960	do.	--	.84	14	6	460	--	442	360	212	2.9	> .4	--	1,344	1,273	60	94	2,240	8.1	26.0	
602	3,308	July 30, 1964	do.	--	.28	15	5	462	--	450	370	208	3.7	> .4	--	1,510	1,287	58	95	2,387	8.0	26.4	
602	3,308	Oct. 19, 1965	do.	--	.04	13	6	471	--	446	345	245	2.1	> .4	--	1,520	1,302	58	95	2,343	8.1	27.3	
3	603	3,335	Sept. 19, 1946	do.	9	.1	17.3	4.4	* 451.5	--	444.1	401.4	180	--	--	--	1,538	1,282	61.3	94	--	7.7	25.2
3	603	3,335	Sept. 20, 1946	do.	6	.5	15.3	3.1	* 458.2	--	450.2	313	236	--	--	--	1,513.2	1,253	51	95	--	8.0	28.1
603	3,335	July 28, 1948	do.	27	.96	22	6	* 436	--	417	330	243	2.1	> .4	--	1,294	1,273	80	92	--	7.1	21.3	
603	3,335	Feb. 17, 1960	do.	--	.4	14	5	470	--	444	310	252	2.8	> .4	--	1,368	1,273	53	94	2,280	8.0	26.2	
603	3,335	July 28, 1964	do.	--	> .02	13	5	473	--	459	334	239	3.7	> .4	--	1,530	1,294	53	95	2,409	8.0	28.2	
3	604	3,356	Feb. 27, 1954	do.	14	.4	18	3	484	--	476	324	260	--	--	--	1,633	1,337	57	95	--	7.95	27.7
3	604	3,356	Mar. 2, 1954	do.	12	.4	17	3	474	--	451	325	252	--	--	--	1,586.6	1,305	55	95	--	8.0	27.9
604	3,356	Feb. 17, 1960	do.	--	.22	14	5	470	--	439	310	250	2.8	> .4	--	1,356	1,269	53	95	2,260	7.7	27.6	
1	604	3,356	Mar. 1, 1960	do.	24	.11	18	1.9	455	5.8	452	341	230	3.2	.0	--	1,300	--	53	94	2,140	8.1	27.1
604	3,356	July 28, 1964	do.	--	.08	13	5	481	--	453	324	253	3.9	< .4	--	1,530	1,303	54	95	2,431	8.0	28.7	

See footnotes at end of table.

WILLIAMSON COUNTY

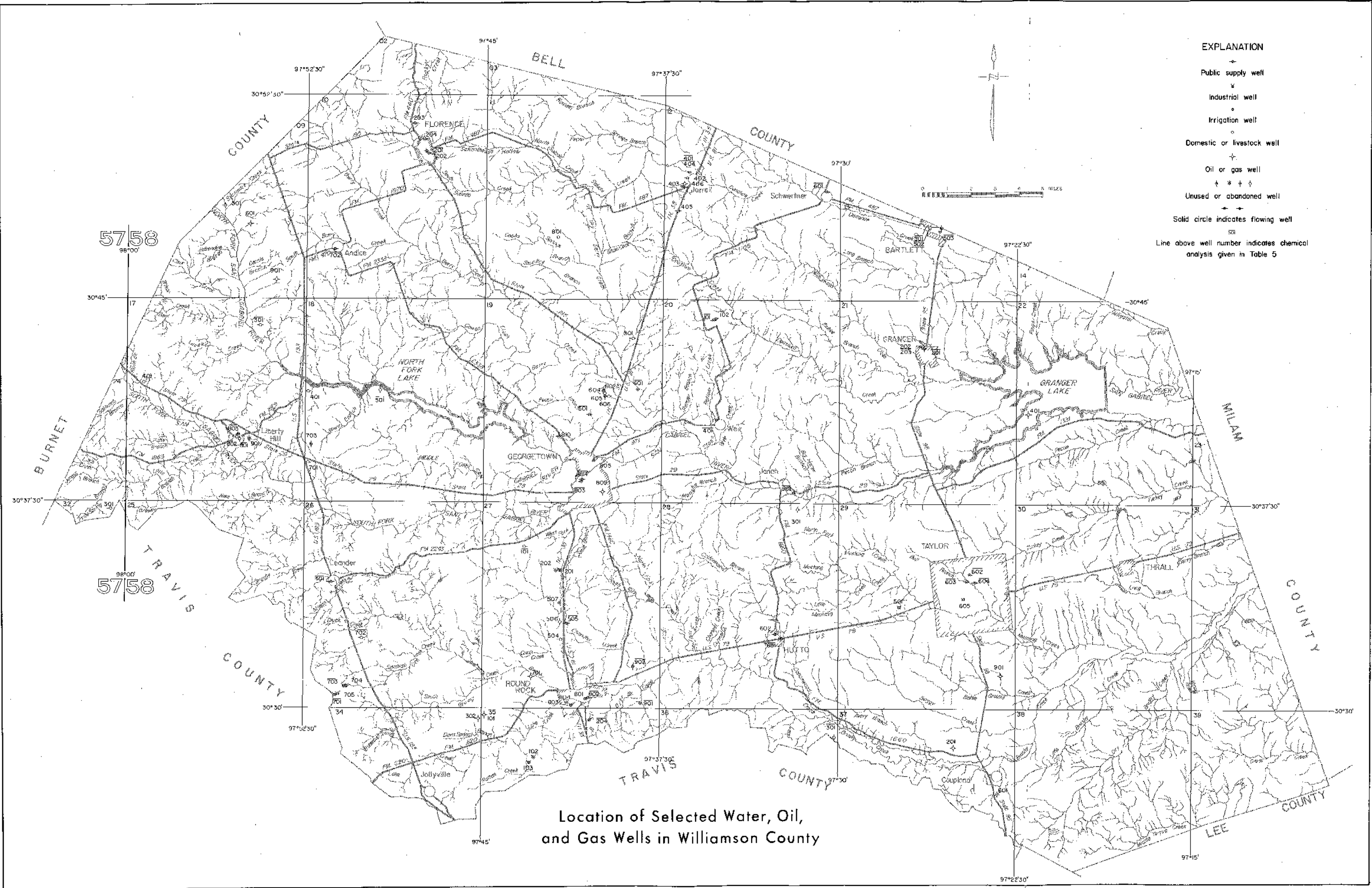
Table 5.--Chemical Analyses of Water From Selected Wells--Continued

WELL	DEPTH OF WELL (ft)	DATE OF COLLECTION	WATER BEARING UNIT	SILICA (SiO ₂)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	POTASSIUM (K)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO ₃)	BORON (B)	DISSOLVED SOLIDS		TOTAL HARDNESS AS CaCO ₃	PERCENT SODIUM	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	pH	SODIUM ADSORPTION RATIO (SAR)
																REPORTED	RECALCULATED					
2K-58-35-204	370	July 14, 1965	Kea	--	< 0.02	96	25	9	--	375	27	16	0.9	5.5	--	560	364	343	5	711	7.3	0.2
^{1/} 36-301	1,050	Aug. 24, 1956	do.	--	--	--	--	--	--	489	--	3,020	--	--	--	--	--	1,360	--	11,500	7.2	--

* Sodium and potassium calculated as sodium (Na)

LABORATORY CONDUCTING ANALYSIS:

- ^{1/} U.S. Geological Survey Laboratory
- ^{2/} Trinity Testing Laboratories
- ^{3/} Curtis Laboratories
- ^{4/} Laboratory Unknown



- EXPLANATION**
- Public supply well
 - Industrial well
 - Irrigation well
 - Domestic or livestock well
 - Oil or gas well
 - Unused or abandoned well
 - Solid circle indicates flowing well
 - Line above well number indicates chemical analysis given in Table 5

Location of Selected Water, Oil, and Gas Wells in Williamson County

5758

5758

97°22'30"

6148