

W 200.15, 1937
m 681
±076

Eastland Co

W.P.A. G-W. Survey, Project 6013-5361

Please do not destroy or throw away this publication.
If you have no further use for it, write to the State
Board of Water Engineers, Austin, requesting return
postage.

* * *

TEXAS

* * *

STATE BOARD OF WATER ENGINEERS

C. S. Clark, Chairman
A. H. Dunlap, Member
J. W. Pritchett, Member

* * *

EASTLAND COUNTY, TEXAS

Records of wells, drillers' logs,
water level measurements,
analyses of water from wells, streams,
and lakes, and map showing locations.

* * *

WORKS PROGRESS ADMINISTRATION

GROUND-WATER SURVEY

PROJECT 6013-5361

J. Howard Samuel, Jr.,
Project Superintendent

* * *

Analyses made, map prepared, data
assembled, and report mimeographed by

WORKS PROGRESS ADMINISTRATION
PROJECT 6507-5112

* * *

Sponsored by the State Board of Water Engineers with
the Bureau of Industrial Chemistry of The University
of Texas and the U. S. Geological Survey cooperating.

* * *

Austin, Texas
Dec. 15, 1937

122
BEWILT

EASTLAND COUNTY, TEXAS

* * *

Introduction

by

Samuel F. Turner

Associate Hydraulic Engineer

U. S. Geological Survey

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and to put down test holes where additional information was needed. Since the only water available in some parts of Eastland County is that collected in lakes and streams, water samples for chemical analysis were collected from typical lakes and streams.

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells," sponsored by the State Board of Water Engineers. The Division of Ground Water of the U. S. Geological Survey cooperated in the technical direction of the project and the Bureau of Industrial Chemistry of The University of Texas furnished laboratory space and equipment and supervised the chemical analyses. The city officials of Eastland rendered valuable assistance by furnishing truck transportation and office space.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112 at Austin, Texas, sponsored by the State Board of Water Engineers. This release was typed and assembled by typists and draftsmen employed on this project.

The field work in Eastland County was started on March 21, 1937, and was completed July 9, 1937. This work was done as Project 6013-5361 and the first part was under the direction of District 13 of the Works Progress Administration, Abilene, Texas, but due to revision of the districts, the remaining work was completed under the direction of District 7, Fort Worth, Texas. J. Howard Samuel, a geologist, was project superintendent. Mr. Samuel should be given credit for his great interest in the work and for the many extra hours he spent on the project. The office of the Works Progress Administration in both the Abilene and Fort Worth Districts made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendent, logs of the test holes drilled by the W. P. A. labor, water level measurements, descriptions of lakes and streams that were sampled, and the chemical analyses of water from privately owned wells, springs, test holes, lakes, and streams. Locations of all wells, springs, test holes, lakes, and the places where the streams were sampled are shown on the map in the back of the release.

The test wells were drilled by W.P.A. labor using a soil auger, drop auger, churn drill, and a sand bucket. Samples were collected at one foot intervals by the well driller in charge of the party. The project superintendent studied these samples and compiled the logs.

Records of wells and springs in Eastland County, Texas
 (All wells are drilled unless otherwise noted in "Remarks" column.)
 (See "Logs of W. P. A. test wells" for all records of test wells.)

No.	Distance from Cisco	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
f/ 2	9 miles north	386, con. S $\frac{1}{2}$	S.P.R.R. Co.	Elliott & Bacon	Black Diamond Oil Co.	--	--	--
3	5 $\frac{1}{2}$ miles northwest	489, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Edgar Harris	Harry Wyatt	1929	200 196-m	5- 3/16
6	4 miles northeast	65, NW $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 4	C. N. Fee	O. N. Ramsower	1935	150 95-m	5
8	1 $\frac{3}{4}$ miles northeast	80, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	C. H. Fee	do.	1926	150 100-m	5
f/ 9	1 $\frac{1}{2}$ miles north	84, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	M. V. Hoyt	Anna Belle Oil Co.	--	3,818	--
13	3 miles east	82, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Dr. C. C. Jones	--	1915	-- 155-m	5
14	4 $\frac{1}{2}$ miles east	61, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Carl Kimbrough	Harvey Ramsower	1926	24 24-m	36
15	3 $\frac{1}{2}$ miles east	25, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Jess Noble	Aubry Ramsower	1920	150 152-m	5 $\frac{1}{2}$
16	1 $\frac{1}{2}$ miles east	45, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	W. F. Smith	--	--	170 149-m	5 $\frac{1}{2}$
f/ 21	7 miles west	Labor 3170 NE $\frac{1}{4}$	T. E. & L. Co.	W. P. Pippen	--	--	4,097	--
23	4 $\frac{3}{4}$ miles west	7, NW $\frac{1}{4}$ NW $\frac{1}{4}$	B. B. B. & C. Co.	G. M. Waters	-- Fagan	1900	29 24-m	42
24	2 $\frac{1}{2}$ miles west	--	do.	G. Riddle	--	1910	30 20-m	42
26	1 $\frac{1}{4}$ miles southeast	66, NW $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 3	R. T. Porter	--	1919	50 48-m	6
27	1 $\frac{3}{4}$ miles southeast	65, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	R. H. Walker	Aubry Ramsower	1931	65 62-m	5
28	2 miles southeast	65, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	E. C. Duncan	do.	1930	209 170-m	5
32	4 miles southeast	48, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Frank Swan	--	1911	22 23-m	36
f/ 34	7 $\frac{1}{2}$ miles southwest	129, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	D. M. Anglin	J. Elmer Thomas	--	606	--
35	8 $\frac{1}{2}$ miles southwest	128, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	A. J. Olsen	--	1895	30 19-m	42
36	9 miles southwest	127, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	W. T. Rutherford	--	1910	35 27-m	42
37	9 $\frac{1}{2}$ miles southwest	9, --	Van Winkle	John Delaney	John Delaney	1895	35 29-m	60
38	9 miles southwest	126, SW $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 3	Ingram heirs	--	1935	18-20 20-m	36
39	9 $\frac{1}{2}$ miles southwest	4, --	A. T. Burnley	S. N. Keith	Joe Coleman	1932	14 14-m	48
40	10 $\frac{1}{2}$ miles southwest	9, N $\frac{1}{2}$	do.	D. B. Pardue	L. C. Evans	1935	15 18-m	36
41	do.	9, S $\frac{1}{2}$	do.	J. R. Poplin	Press Bryant	1887	85 69-m	42

a/ Measured depths indicated by "-m"; otherwise depths are reported.

b/ Measuring point was usually top of casing, top of pipe clamp, top of pump base or top of well curb.

c/ B, bucket; C, cylinder; E, electric; G, gasoline, A, air lift, H, hand; W, wind-mill; number indicated horsepower.

Records obtained by J. Howard Samuel, Project Superintendent
(Chemical analyses of water from these wells and springs are in the table of analyses.)

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
2	--	--	--	None	N	--	--	Oil test. See log.
3	1.3	160.2	May 3, 1937	C,W	D,S	S	Hilltop	Steel casing. Water reported in sand.
6	0.3	90.4	April 9, 1937	C,W	S	F	Hillside	Galvanized casing. Water reported in sand.
8	0.6	89	do.	C,W	D,S	S	Level	Do.
9	--	--	--	None	N	--	--	Oil test. See log.
13	1	135	April 9, 1937	C,W	S	F	Hilltop	Galvanized casing.
14	2	10.3	May 5, 1937	B,H	D,S	S	Level	Dug well. Concrete curb; brick casing.
15	0	96.1	do.	C,W	D,S	S	Hillside	Galvanized casing. Water reported in sand.
16	2	31.2	do.	None	N	S	do.	Do.
21	--	--	--	None	N	--	--	Oil test. See log.
23	2.5	8.8	May 17, 1937	B,H	D,S	S	Level	Dug well. Rock curb and casing.
24	3.8	8.8	do.	B,H	D,S	S	Hilltop	Dug well. Concrete curb; rock casing. Water reported in sand.
26	0.5	7	May 10, 1937	C,W	D,S	S	Level	Steel casing. Water reported in sand.
27	0.3	16	do.	C,W	D,S,I	S	do.	Concrete block curb; galvanized casing.
28	0.3	29	do.	C,W	D,S	S	Hilltop	Galvanized casing.
32	1.7	15.6	do.	B,H	D,S	S	Level	Dug well. Rock curb and casing. Water reported in sand.
34	--	--	--	None	N	--	--	Oil test. See log.
35	2.6	9.8	May 17, 1937	B,H	D,S	S	Level	Dug well. Wood curb; rock casing.
36	2.6	12.6	do.	B,H	D,S	S	do.	Dug well. Brick curb; rock casing.
37	3.2	25.2	do.	B,H	D,S	S	do.	Dug well. Wood curb; 6 feet brick casing at top.
38	2	13.4	do.	B,H	D,S	S	do.	Dug well. Concrete curb; rock casing. Water reported in sand.
39	2	9.8	May 18, 1937	B,H	D,S	S	Hillside	Dug well. Wood curb; no casing.
40	3	15.2	do.	B,H	D,S	S	Creek bank	Dug well. Wood curb; galvanized casing, top to bottom.
41	3	65.5	do.	B,H	D,S	S	Hilltop	Dug well. Wood curb; rock casing, 30 to 69 feet.

d/ D, domestic; I, irrigation; P, public; S, stock; N, not used.

e/ Reported supply; S, strong; F, fair; W, weak; N, no supply.

f/ No water sample collected for analysis.

g/ Water level reported.

Records of wells and springs in Eastland County--Continued

No.	Distance from Cisco	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
42	8½ miles southwest	116, NE¼NE¼	H. & T.C.R.R.Co., blk. 3	W. N. Compton	Paul Philley	1936	20 19-m	42
43	8 miles southwest	112, NE¼NE¼	do.	A. N. Simpson	A. N. Simpson	1929	112 90-m	5
44	7½ miles south	99, NW¼NE¼	do.	C. B. Cochran	Adam Merkitt	1910	21 22-m	42
45	do.	100, SE¼SE¼	do.	W. N. Hall	--	1887	-- 45-m	48
46	do.	94, NW¼NE¼	do.	E. P. Shaefer	--	1890	50 41-m	48
47	7 miles south	80, SE¼SE¼	do.	Frank Hagerman	Sam Hitt	1897	187 163-m	5
48	5½ miles south	51, NE¼NE¼	do.	O. G. Reich	--	1926	50 50-m	5
49	6½ miles south	50, NE¼NE¼	do.	Howard Stephenson	--	1916	95 94-m	5
51	7 miles south	51, SW¼SW¼	do.	T. L. Lasater	J. R. McKinnery	1927	30 31-m	36
52	7½ miles southeast	31, SE¼NW¼	do.	Chas. Gilbert	--	1918	20 7-m	12
53	8 miles southeast	31, SE¼NE¼	do.	E. L. Sims	John Clark	1923	111 112-m	5½
54	8½ miles south	58, NE¼NE¼	do.	A. Rich	A. Rich	1935	25 28-m	60
55	9 miles south	57, NE¼NE¼	do.	J. B. Webb	J. B. Webb	1932	9 8-m	48
57	10 miles south	54, NW¼SW¼	do.	Chas. Walker	--	1900	-- 10-m	36
58	10½ miles south	34, SW¼SW¼	do.	S. P. Collins	Ghormley Bros.	1934	8 8-m	48
f/ 59	11½ miles south	2, SW¼SE¼	Antonio Miller	H. Massaman	--	--	-- 12-m	24
61	11 miles south	29, SW¼SW¼	Mary Ann Clark, blk. 29	W. L. Curtis	W. L. Curtis	1932	16 17-m	36
62	12 miles south	--	Mary Ann Clark, blk. 6	A. M. Townsend	--	1912	57 58-m	5
63	11½ miles south	--	Mary Ann Clark, blk. 7	Joel Reed	Joel Reed	1927	25 18-m	42
64	12½ miles south	--	Moses Allen	N. E. Mitchell	D. P. Mitchell	1910	15 15-m	60
65	11½ miles southwest	--	Abraham Winfrey, blk. 6	E. L. Laminack	E. L. Laminack	1906	40 37-m	42
66	12½ miles southwest	--	Abraham Winfrey, blk. 4	J. M. McCann	--	1895	30 34-m	42
67	13 miles southwest	--	Abraham Winfrey, blk. 1	First Nat'l Bank, Cross Plains, Texas	--	--	-- 22-m	48
68	13½ miles southwest	--	Wyatt Hickman	W. E. Lusk	Bob Black	1890	44 30-m	42
69	14 miles southwest	18, NW¼NW¼	James Lahee	F. M. Hill	P. E. Bush	1936	18 18-m	48
70	14½ miles southwest	--	V. Sayers	R. A. Seal	George Erwin	1910	41 42-m	48
71	do.	--	Murphy Burgess	H. Harris	Bill Murdock	1916	112 107-m	5

J. Howard Samuell, Project Superintendent

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
42	2.8	14.8	May 17, 1937	B,H	S	S	Level	Dug well. Wood curb; no casing.
43	0	15.6	do.	C,W	D,S	S	do.	Galvanized casing, top to bottom.
44	2.4	9.4	do.	B,H	D,S	S	do.	Dug well. Wood curb; rock casing.
45	2.6	9.5	do.	B,H	--	S	do.	Dug well. Concrete curb; rock casing.
46	0.5	25.1	do.	C,W	D,S	S	Hilltop	Dug well. Wood curb; 12 feet rock casing at top.
47	1.2	8.5	do.	B,H	S	S	do.	Tile curb; galvanized casing, top to bottom. Water reported
48	0.5	30.7	May 10, 1937	C,W	D,S	S	Level	Galvanized casing. in sand.
49	3	37.6	do.	B,H	D,S	--	Hilltop	Do.
51	2	21.6	do.	C,W	P	S	do.	Dug well. Brick curb; brick casing, 0 to 3 feet.
52	--	4.0	Apr. 27, 1937	C,W	N	S	do.	
53	3.6	74	do.	B,H	D,S	S	Level	Galvanized casing. Water reported in sand.
54	2	25.2	May 10, 1937	B,H	D,S	W	do.	Dug well. Concrete block curb; brick casing, 0 to 14 feet.
55	1.2	3.9	do.	B,H	D,S	S	Near dry creek	Dug well. Rock curb and casing.
57	2	6.4	do.	B,H	D,S	S	Level	Do.
58	3	4.9	May 14, 1937	B,H	D,S	S	Creek bank	Dug well. Wood curb; no casing.
59	2	7.2	May 11, 1937	None	N	W	Hillside	Dug well. Wood curb; rock casing, top to bottom.
61	0.5	7.1	May 19, 1937	None	N	S	Near dry creek	Dug well. Rock curb and casing.
62	0.2	26.8	do.	C,H	S	S	Hilltop	Galvanized casing. Water reported in sand.
63	2.5	9.8	do.	B,H	D,S	S	Level	Dug well. Galvanized curb; rock casing.
64	2.5	7.6	May 18, 1937	B,H	D,S	W	do.	Do.
65	2	33.8	do.	C,W	D,S	S	do.	Dug well. Wood curb; no casing.
66	2.5	31.6	do.	B,H	D,S	S	Hilltop	Dug well. Wood curb; rock casing.
67	0.5	16.6	do.	C,W	D,S	S	Level	Dug well. Wood curb; no casing. Water reported in sand.
68	0.8	28.2	do.	C,W	D,S	S	do.	Dug well. Rock curb; no casing.
69	2	12.8	do.	B,H	D,S	S	do.	Dug well. Galvanized curb; rock casing.
70	2.8	40.6	do.	B,H	D,S	S	do.	Dug well. Wood curb; no casing.
71	1.6	51	May 19, 1937	C,W	D,S	S	Hilltop	Galvanized casing, top to bottom. Water reported in sand.

Records of wells and springs in Eastland County--Continued

No.	Distance from Cisco	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
72	15½ miles southwest	971, NW cor.	George Click	Mrs. S. B. Webb	--	1910	75 97-m	5
73	16 miles southwest	971, NW¼	do.	do.	--	1916	85 69-m	5
74	16 miles south	--	do.	H. L. Vestal	--	1920	60 55-m	48
75	16½ miles south	--	do.	Mrs. Mattie Webb	--	1910	90 58-m	42
77	18 miles southwest	774, NW¼SW¼	T. Benson	T. S. Parker	--	1900	30 24-m	36
78	17½ miles south	--	W. Thompson	D. V. Armstrong	--	1935	-- 28-m	5
79	18½ miles south	774, SW¼SE¼	T. Benson	Marion Harvey	John Gooch	1897	48 34-m	60
80	20 miles south	798, blk. 7	John M. McGloin	Higginbotham Bros.	--	--	-- 10-m	42
81	18½ miles south	--	Pioneer Townsite	Pioneer School	W. P. A. Dist. 13	1936	24 26-m	48
83	do.	--	do.	Miss C. B. Covert	Leffert Covert	1935	28 25-m	42
84	19 miles south	--	do.	L. L. Mead	S. B. DuPriest	1930	35 25-m	48
85	do.	--	L. Pamplin	J. W. Foster	M. B. Nix	1895	50 49-m	48
86	do.	20, SW¼SW¼	E. T. R. R. Co.	Doss Alexander	Jack Stagner	1890	35 36-m	42
87	do.	--	L. Pamplin	A. L. Dillard	A. L. Dillard	--	-- 30-m	42
88	18½ miles south	20, SW¼SE¼	E. T. R. R. Co.	J. W. Foster	George Speckles	1917	18 18-m	42
89	do.	--	J. Holley	M. B. Nix	M. B. Nix	1905	42 35-m	42
90	do.	18, SW¼SW¼	E. T. R. R. Co.	E. Pinard	E. Pinard	1935	25 28-m	42
91	do.	18, SE¼SW¼	do.	C. A. Barker	W. M. Gardner	1900	90 91-m	48
92	19½ miles south	--	R. M. Crume	R. Crane	--	--	-- 41-m	42
94	18½ miles south	1, NW¼NW¼	I. & G.N.R.R.Co.	J. T. Woodruff	--	--	-- 100-m	42
95	18 miles south	15, SW¼SW¼	E. T. R. R. Co.	H. L. King	--	--	150 141-m	5
96	18½ miles south	13, SW¼NW¼	E. T. R. R. Co., blk. 2	Mrs. B. F. Tune	Lee Clark	1920	100 100-m	5
97	do.	13, NE¼NE¼	do.	Mrs. George Barnes	--	1920	40 39-m	36
f/100	19½ miles south	27, NE¼SE¼	do.	J. M. Erby	J. M. Erby	1925	30 30-m	60
101	19 miles south	28, NW¼SE¼	do.	N. E. Trantham	--	--	30 22-m	42
102	18½ miles south	28, SW¼NE¼	do.	City of Rising Star	City of Rising Star	1933	56 56-m	60
103	do.	do.	do.	do.	do.	1929	40 43-m	48

J. Howard Samuel, Project Superintendent

No.	Height of measuring point above ground (ft.) h/	Water Level		Pump and power c/	Use of water d/	Sup- ply	Topo- graphic situation	Remarks
		Depth below measur- ing point (ft.)	Date of measure- ment					
72	0.5	77.4	May 19, 1937	C,W	D,S	S	Level	Galvanized casing, top to bottom. Water reported in sand.
73	0.5	62.4	do.	B,H	S	S	Hillside	Do.
74	2.6	46.4	do.	C,W	D,S	S	do.	Dug well. Wood curb; no casing.
75	2.5	54.7	do.	C,W	D,S	S	Hilltop	Dug well. Brick curb; brick casing, 12 to 15½ feet.
77	1	19.5	May 13, 1937	C,W	D,S	S	Level	Dug well. Brick curb; 3 feet brick casing at top.
78	1	14.8	May 19, 1937	B,H	D,S	S	do.	Steel curb; galvanized casing.
79	3	8.3	May 13, 1937	C,-	D,S	S	do.	Dug well. Wood curb; no casing.
80	3.2	6.6	May 19, 1937	B,H	D,S	S	Creek bank	Dug well. Wood curb and casing.
81	2	25.5	May 13, 1937	C,W	P	S	Level	Dug well. Wood curb; steel casing, 0 to 18 feet; brick
83	2.5	23.8	do.	B,H	D,S	S	do.	Dug well. Wood curb; no casing.
84	2	20.7	do.	C,W	D,S	F	Hilltop	Dug well. Wood curb; 6½ feet galvanized casing at top. Water
85	2	24.8	do.	B,H	D,S	S	do.	Dug well. reported in sand. Wood curb; no casing.
86	2	26.3	do.	C,W	D,S	S	Level	Dug well. Brick curb; rock casing.
87	2	27.1	do.	B,H	D,S	S	do.	Dug well. Wood curb; 13 feet wood casing at top.
88	2.5	17.2	do.	None	N	S	do.	Dug well. Wood curb; no casing.
89	1.5	28.8	do.	C,W	D,S	S	Hilltop	Dug well. Wood curb and casing.
90	2	25.8	do.	B,H	D,S	S	do.	Dug well. Wood curb; no casing.
91	1	60.7	May 12, 1937	C,W	D,S	S	do.	Dug well. Concrete curb; rock casing.
92	2.5	21	do.	None	N	S	Hillside	Do.
94	0	75.4	do.	C,W	D,S	S	Hilltop	Dug well. Wood curb; no casing.
95	0.5	120	do.	C,H	D,S	S	do.	Galvanized casing, top to bottom. Water reported in sand.
96	0.7	63.3	do.	C,W	D,S	S	Level	Concrete block curb; galvanized casing, top to bottom.
97	0.3	34.9	do.	C,W	D,S	S	Hilltop	Dug well. Concrete block curb; 8 feet rock casing at top.
100	1.6	25.5	do.	B,H	D,S	S	Level	Dug well. Wood curb; no casing. Located in Brown County.
101	2.5	12.3	do.	B,H	D,S	S	do.	Dug well. Brick curb and casing.
102	0.5	22.4	do.	C,E, 15	P	S	do.	Dug well. Concrete block curb; 47 feet steel casing at top.
103	--	17.3	do.	C,E,5	P	S	do.	Dug well. Concrete curb; no casing.

Records of wells and springs in Eastland County--Continued

No.	Distance from Cisco	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
105	18½ miles south	13, NE¼NE¼	B.B.B.&C.R.R.Co.	W. L. Boggs	W. L. Boggs	1916	42 25-m	8
106	do.	29, NW¼NW¼	do.	W. T. Nunnally	--	1910	-- 20-m	36
108	17½ miles south	11, SE¼NE¼	E. T. R. R. Co, blk. 2	J. T. McBeth	T. R. Cox	1923	85 73-m	5
109	17 miles south	27, SE¼SW¼	do.	Dr. W. S. Carter	Tom Cox	1928	76 77-m	--
111	do.	27, SW¼SE¼	do.	W. Armstrong	--	--	-- 51-m	42
112	16½ miles south	27, SW¼NE¼	do.	Mrs. B. Watkins	--	1933	35 31-m	36
113	do.	38, SE¼SW¼	do.	W. G. Wadkins	--	1907	-- 31-m	48
114	15½ miles south	12, SW¼SW¼	James Jett	C. G. Shultz, Jr.	Bob Carter	1936	59 58-m	6
116	14½ miles south	10, SW¼SW¼	do.	Mrs. J. H. Graham	--	1906	-- 29-m	36
117	14 miles south	10, NW¼NW¼	do.	R. N. Haddon	--	1910	-- 27-m	36
118	do.	16, SE¼SE¼	do.	R. O. Jackson	--	--	20 12-m	48
f/119	do.	16, --	do.	do.	Rainbow's End Oil Co.	--	3,010	--

No.	Distance from Eastland	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
f/201	8 miles northwest	456, SE¼NE¼	S. P. R. R. Co.	L. E. Turner	O. N. Ramsower	1925	180 180-m	6
204	6½ miles northwest	38, NW¼NE¼	H. & T. C. R. R. Co.	Mrs. L. A. Ramsower	do.	1928	275	6
205	6 miles northwest	38, SW¼SW¼	do.	Dan Childress	do.	1926	165 114-m	5
206	do.	52, SE¼SE¼	do.	Reagan School	do.	1927	-- 70-m	5
208	5½ miles northwest	35, NE¼SW¼	do.	T. E. Castleberry	O. N. Ramsower	1933	220	6
211	5 miles north	21, NW¼NE¼	do.	Carl Kimbrough	--	--	240 200+-m	5
213	4¾ miles north	16, NW¼NW¼	do.	T. C. Harbin	-- McFarland	1930	216	5
214	do.	9, NW¼SW¼	do.	Morton Valley School	--	--	160	6
215	4 miles north	10, NW¼NW¼	do.	E. D. Houston	Joe Tow	1929	160 88-m	5

a/ Measured depths indicated by "-m"; otherwise depths are reported.

b/ Measuring point was usually top of casing, top of pipe clamp, top of pump base or top of well curb.

c/ B, bucket; C, cylinder; E, electric; G, gasoline, A, air lift; H, hand; W, wind-mill; number indicated horsepower.

J. Howard Samuell, Project Superintendent

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
105	1.5	18.6	May 20, 1937	C,W	D,S,I	S	Level	Galvanized casing. Water reported in sand.
106	2.5	14	do.	B,H	D,S	S	Hilltop	Dug well. Wood curb; rock casing.
108	0.6	58	May 11, 1937	C,W	D,S	S	Hillside	Galvanized casing.
109	0	53.3	do.	C,W	D,S,I	S	Hilltop	Concrete block curb.
111	1.5	17.8	do.	C,W	D,S,I	S	Level	Dug well. Wood curb; rock casing.
112	3	21.7	do.	B,H	D,S	S	do.	Do.
113	2.5	11.6	do.	B,H	D,S	S	do.	Do.
114	0.3	55.6	do.	C,W	D,S	S	Hilltop	Concrete curb; steel casing, top to bottom.
116	2	18.9	do.	C,W	D,S,I	S	Level	Dug well. Rock curb and casing.
117	2.4	20.8	do.	B,H	D,S	S	Hilltop	Do.
118	2.6	11.8	do.	B,H	D,S	F	Hilltop near creek.	Dug well. Wood curb; steel casing, 10 to 20 feet.
119	--	--	--	None	N	N	--	Oil test. See log.

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
201	--	35	Feb. 8, 1937	C,W	D,S,I	S	Level	Galvanized casing. Water reported in sand.
204	0.5	150	Mar. 7, 1937	C,W	D,S	S	do.	Do.
205	0.1	76	Mar. 9, 1937	C,W	D,S	S	Hilltop	Do.
206	1	66	do.	C,W	P	S	Hillside	Do.
208	0.2	106	Apr. 7, 1937	C,W	D,S	S	Level	Galvanized casing, top to bottom. Water reported in sand.
211	0.6	177	do.	B,H	D,S	S	Hilltop	Steel casing.
213	0.1	29.6	do.	C,W	D,S	S	Level	Galvanized casing.
214	0	128	do.	C,W	P	S	do.	Steel casing, 0 to 40 feet.
215	0.6	37.4	do.	C,W	D,S	W	do.	Galvanized casing, top to bottom. Adjacent oil test reported fresh water at 300 feet.

d/ D, domestic; I, irrigation; P, public; S, stock; N, not used.

e/ Reported supply: S, strong; F, fair; W, weak; N, no supply.

f/ No water sample collected for analysis.

g/ Water level reported.

Records of wells and springs in Eastland County--Continued

No.	Distance from Eastland	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
220	3 miles north	10, SW $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co.	J. W. Jones	O. N. Ramsower	1933	200	5- 3/16
f/222	5 $\frac{1}{2}$ miles north	5, SW $\frac{1}{4}$	do.	W. L. Dolley	State Oil Corp. & Duquesne Oil Corp.	--	3,583	--
223	5 miles northeast	--	J. C. Littleton	John Littleton heirs	--	--	200	6
225	5 $\frac{1}{2}$ miles northeast	--	S. M. Hale	O. M. England	Andy Madding	1906	40 35-m	36
226	6 miles northeast	2, NW $\frac{1}{4}$ NW $\frac{1}{4}$	W. H. Harenbeck	J. Maynard	--	--	-- 26-m	36
227	6 $\frac{1}{2}$ miles northeast	--	T. & N.O.R.R.Co.	Colony School	--	1926	13 12-m	8
228	7 $\frac{1}{2}$ miles northeast	--	B. H. Epperson	Homer Danley	Beck & Sides	1930	80 71-m	6
229	8 miles northeast	--	do.	Mrs. F. Christmas	John Lester	1919	-- 22-m	42
230	9 miles northeast	--	A. J. Beck	Claude Erhler	A. J. Beck	--	65 49-m	42
231	do.	--	J. P. Rohus	L. Kirkpatrick	Frank Dupree	--	55 52-m	6
233	4 miles northeast	--	John York	B. C. Whitling	E. A. Norton	1926	36 35-m	5
234	4 $\frac{1}{2}$ miles northeast	--	do.	J. F. Mosely	--	--	30 34-m	5
235	4 miles east	--	Olden Townsite	C. L. Langston	E. A. Norton	--	35 34-m	5
237	do.	--	do.	A. A. Norton	do.	1922	38 36-m	5
238	3 $\frac{3}{4}$ miles east	--	do.	Olden School	--	1921	85 85-m	6
239	do.	--	do.	do.	--	--	-- 50-m	5
240	do.	--	do.	J. H. Munn	E. A. Norton	1932	30 25-m	5
241	3 miles east	5, NE $\frac{1}{4}$ NW $\frac{1}{4}$	E. T. R. R. Co., blk. 6	J. D. Yielding	-- McFarland	1928	80 70-m	6
245	3 $\frac{1}{2}$ miles east	--	R. H. Hancock	Mrs. L. E. Bourland	-- Waggoner	1906	38 42-m	5
246	3 $\frac{3}{4}$ miles east	--	McClennan Co. School Leagues 3 & 4, blk. 66	P. O. Wood	--	1909	40 41-m	5
248	1 mile south	14, NW $\frac{1}{4}$ SW $\frac{1}{4}$	E. T. R. R. Co., blk. 6	Jack Tannel	--	1901	-- 15-m	48
254	$\frac{1}{4}$ mile north	--	--	R. F. Jones	R. F. Jones	1926	14 18-m	7
262	5 miles west	46, NW $\frac{1}{4}$ NW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 3	John Hart	--	1926	-- 198-m	5
263	4 miles west	45, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	C. C. Street	C. C. Street	1927	25 13-m	48
267	4 miles southwest	45, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Mrs. C. Owen	--	1920	100 75-m	5 $\frac{1}{2}$
268	4 $\frac{1}{2}$ miles southwest	5, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	B. O. Robinson	--	1896	30 23-m	48
271	5 miles southwest	7, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Mrs. A. L. Mayhew	E. J. Harrison	1937	10 12-m	--

J. Howard Samuell, Project Superintendent

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
220	0.7	42.	Apr. 7, 1937	C,W	D,S	S	Level	Steel casing. Water reported in sand.
222	--	--	--	None	N	--	--	Oil test. See log.
223	0	74.4	Apr. 15, 1937	C,H	N	S	Level	Brick curb; galvanized casing.
225	1	30.7	do.	C,W	--	S	Hillside	Dug well. Rock curb and casing.
226	2	12.3	do.	B,H	D,S	S	Level	Dug well. Wood curb; rock casing.
227	0	6.6	do.	C,W	P	S	do.	Concrete block curb; galvanized casing.
228	2	20.9	June 3, 1937	B,H	D,S	S	do.	Wood curb; galvanized casing, top to bottom.
229	2	20.6	do.	B,H	D,S	S	do.	Dug well. Rock curb; 6 feet iron casing at top.
230	1.8	28.2	do.	B,H	D,S	S	do.	Dug well. Rock curb and casing.
231	1.5	14	do.	C,W	D,S	W	do.	Wood curb; galvanized casing, top to bottom.
233	0	30.8	Apr. 15, 1937	C,W	D,S	S	do.	Galvanized casing.
234	1	13.2	do.	B,H	D,S	W	do.	Galvanized casing, top to bottom. Water reported in sand.
235	0.7	26.6	Apr. 16, 1937	B,H	N	W	do.	Galvanized casing.
237	2.5	30	do.	B,H	D	S	do.	Wood curb; galvanized casing, top to bottom.
238	0.7	--	Apr. 15, 1937	C,E, ³ / ₄	P	S	do.	Concrete block curb; steel casing, top to bottom.
239	0	14.6	do.	C,H	P	S	do.	Concrete block curb; galvanized casing.
240	1.7	18.9	do.	B,H	D	S	do.	Wood curb; galvanized casing.
241	2.2	40.9	do.	C,W,& B,H	D,S	S	do.	Wood curb; steel casing, top to bottom.
245	2	15.8	Apr. 14, 1937	C,W	D,S	S	Hilltop	Wood curb; galvanized casing.
246	0.6	33.8	do.	C,W	D,S	S	Level	Galvanized casing, top to bottom.
248	3	10.6	May 6, 1937	None	N	S	Leon Creek valley	Dug well. Concrete curb; rock casing.
254	0.7	8.8	Apr. 7, 1937	C,H	D	S	Level	Galvanized casing.
262	0.3	102.2	Apr. 9, 1937	C,W	D,S	S	Hilltop	Do.
263	0	12.8	May 6, 1937	None	S	W	Level near dry creek	Dug well. Rock curb and casing.
267	0.4	60.7	May 5, 1937	C,W	D,S	S	Hilltop	Galvanized casing, top to bottom.
268	0	9.1	do.	None	N	S	Creek bottom	Dug well. Rock curb and casing.
271	2.5	11.1	do.	B,H	D,S,I	W	--	Steel casing, 0 to 7 feet.

Records of wells and springs in Eastland County--Continued

No.	Distance from Eastland	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
273	2 $\frac{1}{2}$ miles south	20, NW $\frac{1}{4}$ SW $\frac{1}{4}$	Nancy Ussury	Mrs. C. U. Connelle	--	--	-- 30-m	12 $\frac{1}{2}$
274	3 miles southeast	14, SE $\frac{1}{4}$ NE $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	R. L. Jones	--	1920	40 41-m	5
275	3 $\frac{1}{2}$ miles southeast	14, cen. W line	do.	do.	W. S. Barber	1917	40 40-m	36
276	3 $\frac{3}{4}$ miles southeast	--	do.	Mrs. W. C. McGough	--	--	Spring	--
277	7 miles southeast	--	McClennan Co. School Land, Leagues 3 & 4, blk. 13	Kizziar Estate	Early Hall	1908	64 58-m	5
278	6 $\frac{1}{2}$ miles southeast	21, NE $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 1	R. McNeeley	R. McNeeley	--	-- 25-m	--
279	9 miles southeast	20, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	D. P. Holliday	--	1915	35 25-m	48
280	7 $\frac{1}{2}$ miles southeast	--	McClennan Co. School Land, Leagues 3 & 4, blk. 4	Dr. W. E. Kimbal	W. H. Lay	1926	-- 16-m	48
281	6 miles southeast	--	D. H. Harbin	B. H. Harbin	B. H. Harbin	1927	25 27-m	48
282	5 $\frac{1}{2}$ miles southeast	10, SW $\frac{1}{4}$ SE $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	Homer White	O. G. Reese	1932	20 18-m	--
283	4 $\frac{1}{2}$ miles southeast	11, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	J. A. Hallmark	J. A. Hallmark	1906	40 39-m	36
284	4 $\frac{3}{4}$ miles southeast	15, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Mrs. C. L. Yancy	--	1914	-- 43-m	48
285	4 $\frac{1}{2}$ miles south	--	do.	J. B. Caudle	J. B. Caudle	1935	-- 19-m	36
286	5 $\frac{1}{2}$ miles south	16, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	P. F. Turner	--	--	-- 35-m	5 $\frac{1}{2}$
287	4 $\frac{1}{4}$ miles south	--	W. Mitchell	Finis Johnson	H. A. Collins	--	-- 29-m	36
288	4 $\frac{3}{4}$ miles south	15, SW $\frac{1}{4}$ NW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	Flatwood School	H. Harbin	1926	35 37-m	36
289	5 miles south	25, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	S. V. Lyerla	S. V. Lyerla	1890	-- 35-m	48
290	3 $\frac{3}{4}$ miles south	27, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	J. V. Harbin	-- McFarland	1931	52 51-m	6
291	4 miles south	do.	do.	do.	Arkansas Fuel Oil Co.	1920	37 31-m	36
292	do.	27, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Sam Coon	--	--	-- 34-m	36
293	4 $\frac{1}{4}$ miles south	29, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	M. W. Grieger	Gus Harbin	1890	45 31-m	--
294	do.	28, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	A. C. Justice	J. S. Butler	1906	-- 37-m	36
295	do.	28, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Mrs. W. B. Samford	--	1896	-- 9-m	60
296	4 $\frac{1}{2}$ miles south	29, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	L. A. Hightower	--	--	-- 28-m	48
f/298	5 miles south	26, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	M. K. Gates	--	1,321	--
299	do.	29, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Lon Palmer	Lon Palmer	--	-- 27-m	36
300	do.	30, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	M. D. Evans	--	--	-- 28-m	36

J. Howard Samuell, Project Superintendent

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
273	2.1	12.8	May 7, 1937	C,W	S	S	Hillside	Steel casing, 0 to 8 feet.
274	0.2	13.9	do.	B,H	D,S	S	Level	Concrete block curb; galvanized casing.
275	2.2	38.5	do.	C,W	S	W	do.	Dug well. Brick curb and casing.
276	--	Flows	do.	None	D,S	S	Creek bottom	Estimated flow, 20 gallons a minute from 3 openings in sand.
277	0.7	7	Apr. 29, 1937	C,W	S	W	Level	Wood curb; galvanized casing.
278	3	12.8	do.	C,W	D,S	S	Hillside	Dug well. Wood curb and casing.
279	2.6	17.8	do.	C,W	D,S	S	Level	Dug well. Wood curb; 6 feet rock casing.
280	3	7.2	do.	B,H	D,S	S	do.	Dug well. Rock curb and casing.
281	2.6	22.2	do.	B,H	S	--	do.	Dug well. Brick curb; 12 feet brick casing at top.
282	2.5	15.6	do.	B,H	D,S	S	do.	Dug well. Wood curb; no casing.
283	3	24.8	May 7, 1937	B,H	D,S	S	do.	Dug well. Concrete curb; no casing.
284	2.9	24	do.	B,H	D,S	S	Hilltop	Dug well. Wood curb; no casing.
285	3	12.4	do.	B,H	D,S	S	Level	Dug well. Concrete curb; rock casing.
286	0.3	14.8	Apr. 29, 1937	C,W	D,S	S	do.	Cast iron curbing; galvanized casing. Water reported in sand.
287	2.4	14.2	Apr. 28, 1937	B,H	D,S	S	do.	Dug well. Brick curb; brick casing.
288	--	17.9	do.	B,H	P	S	do.	Dug well. Concrete block curb; brick casing, 0 to 12 feet.
289	1.2	16	do.	C,W	D,S	S	do.	Dug well. Wood curb; rock casing.
290	0.2	24.8	May 7, 1937	C,W	D,S	S	Hilltop	Galvanized casing, top to bottom.
291	1.5	5.5	do.	B,H	S	S	Near dry branch	Dug well. Concrete curb and casing.
292	3	24.4	Apr. 28, 1937	B,H	S	S	Level	Dug well. Concrete curb; brick casing, top to bottom. Water
293	0.2	14.5	do.	C,H,& G,A	D,S,I	S	do.	Dug well. <u>reported in sand.</u> Wood curb; rock casing.
294	3	27.5	do.	B,H	D,S	S	do.	Dug well. Brick curb and casing.
295	4	5.6	do.	B,H	D,S	S	Near dry creek	Dug well. Wood curb; no casing.
296	2.7	22.1	Apr. 27, 1937	B,H	D,S	S	Level	Dug well. Wood curb; rock casing, 0 to 6 feet.
298	--	--	--	None	N	N	--	Oil test. See log.
299	3	15	Apr. 29, 1937	None	N	S	Hillside	Dug well. Wood curb; rock casing.
300	3.4	15.6	do.	B,H	S	S	Hilltop	Dug well. Brick curb and casing.

Records of wells and springs in Eastland County--Continued

No.	Distance from Eastland	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
301	5½ miles south	25, SW¼NW¼	H. & T.C.R.R.Co., blk. 2	Ernest La Foon	Jacob Lyerla	1896	20 18-m	48
302	6 miles south	25, SW¼SW¼	do.	Jacob Lyerla	do.	--	-- 35-m	48
303	do.	30, SE¼SE¼	do.	T. A. Byrd	--	1900	50 52-m	36
304	7 miles south	25, SW¼SW¼	do.	D. N. Taylor	Weldon Fenter	1936	35 39-m	5½
305	do.	32, NE¼NW¼	do.	J. L. James	J. L. James	1935	53 45-m	36
307	6½ miles south	31, SE¼NW¼	do.	M. Farm Hurst	--	1906	-- 53-m	36
308	6 miles south	30, NE¼SW¼	do.	Pat McNeil	--	1929	15 17-m	24
309	5 miles south	30, NE¼NW¼	do.	J. S. Turner	--	1886	-- 49-m	48
310	do.	29, SE¼SW¼	do.	T. F. Murrell	--	--	-- 43-m	36
311	do.	--	W. B. Samford	W. F. Reagan	M. H. Byrd	1926	28 29-m	36
312	do.	--	do.	W. H. Boon	Bud Wood	1924	21 21-m	36
313	5 miles southwest	24, NE¼SW¼	B. Ridens	J. H. Haynes	--	--	-- 28-m	36
315	5½ miles southwest	26, SE¼SE¼	Mangum Townsite	Mrs. P. L. Mangum	--	--	-- 56-m	36
317	7 miles south	43, NE¼SW¼	H. & T.C.R.R.Co., blk. 2	Elmer Gilbert	--	--	90 83-m	5
318	7½ miles south	44, NE¼NW¼	do.	Alvin Thurman	--	--	20 20-m	--

No.	Distance from Gorman	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
401	13 miles west	11, NW¼NW¼	H. & T.C.R.R.Co., blk. 3	J. T. Hale	Turkmeat & Witherspoon	1920	100	5
402	13½ miles west	18, NE¼NE¼	do.	J. S. Turner	--	1935	-- 28-m	48
403	do.	18, SW¼NW¼	do.	R. L. Tucker	-- McFarland	1928	92 88-m	6
404	13 miles west	18, SE¼NE¼	do.	W. A. Hale	-- Adams	1918	96 80-m	5
405	12 miles west	45, NW¼NW¼	H. & T.C.R.R.Co., blk. 2	D. S. Campbell	D. C. Campbell	1918	16 19-m	36
406	10 miles northwest	32, SE¼SW¼	do.	Henry Collins	--	1906	90 47-m	36
408	9½ miles west	33, SE¼NW¼	do.	City of Carbon	P. W. A.	1933	-- 13-m	36

a/ Measured depths indicated by "-m"; otherwise depths are reported.

b/ Measuring point was usually top of casing, top of pipe clamp, top of pump base or top of well curb.

c/ B, bucket; C, cylinder; E, electric; G, gasoline; A, air lift; H, hand; W, wind-mill; number indicated horsepower.

J. Howard Samuell, Project Superintendent

No.	Height of measuring point above ground (ft.)	Water Level		Pump and power <u>c/</u>	Use of water <u>d/</u>	Supply <u>e/</u>	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
301	2.5	12	May 6, 1937	B,H	D,S	S	Level	Dug well. Concrete curb; rock casing.
302	4	23.2	do.	B,H	D,S	S	Hillside	Dug well. Wood curb; rock casing. Water reported in sand.
303	3	33.2	do.	B,H	D,S	S	Hilltop	Do.
304	1.3	34.3	do.	B,H	D,S	S	Level	Galvanized casing.
305	2	44	Apr. 13, 1937	None	D	S	do.	Dug well. Concrete and rock curb; no casing.
307	3	21.8	Apr. 12, 1937	B,H	D,S	S	do.	Dug well. Rock curb; no casing.
308	1.9	14.2	do.	B,H	D,S	S	do.	Dug well. Wood curb; rock casing.
309	3	37.9	do.	C,W	D,S	S	Hilltop	Dug well. Brick curb; 10 feet rock casing at top.
310	2.7	28.2	Apr. 26, 1937	C,W	D,S	S	Level	Dug well. Rock casing, 0 to 10 feet. Water reported in sand.
311	3.2	26.5	do.	B,H	D	S	Hilltop	Dug well. Wood curb; rock casing, 0 to 16 feet.
312	--	16.9	do.	B,H	D,S	S	Level	Dug well. Concrete curb; brick casing.
313	0.2	13.8	do.	C,W	D,S	S	do.	Dug well. Rock casing, top to bottom.
315	2.7	37	do.	B,H	N	--	Hillside	Dug well. Wood curb; rock casing.
317	--	57.2	Apr. 27, 1937	B,H	D	W	Hilltop	Galvanized casing, top to bottom.
318	--	7.6	do.	B,H	N	S	Creek bank	Dug well. Water reported in sand.

No.	Height of measuring point above ground (ft.)	Water Level		Pump and power <u>c/</u>	Use of water <u>d/</u>	Supply <u>e/</u>	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
401	1.5	28.5	May 5, 1937	C,W	S,I	S	Level	Galvanized casing. Water reported in sand.
402	2.6	27.3	do.	B,H	D,S	W	do.	Dug well. Wood curb; no casing.
403	1.5	65.6	Apr. 27, 1937	C,W	S	S	do.	Galvanized casing, top to bottom.
404	0.5	--	do.	C,W	D,S	S	Hillside	Do.
405	2.2	11.8	do.	B,H	D,S	S	Hilltop	Dug well. Rock curb and casing.
406	3.2	34.7	Apr. 12, 1937	B,H	D,S	S	Hillside	Dug well. Wood curb; brick casing.
408	2.3	7.2	do.	B,H	P	S	Level	Dug well. Concrete curb; brick casing.

d/ D, domestic; I, irrigation; P, public; S, stock; N, not used.

e/ Reported supply: S, strong; F, fair; W, weak; N, no supply.

f/ No water sample collected for analysis.

g/ Water level reported.

Records of wells and springs in Eastland County--Continued

No.	Distance from Gorman	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
409	9 miles west	33, SW $\frac{1}{4}$ SE $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	Mrs. J. A. Hearn	John Adam	1908	60 53-m	6
410	9 $\frac{1}{2}$ miles west	34, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	W. H. Gilbert	Skinner & Moore	1934	20 18-m	36
412	10 miles west	37, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	I. A. Dingler heirs	--	1917	30 19-m	42
413	do.	37, NE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	W. S. Maxwell	Walter Puett	1913	50 41-m	42
414	do.	36, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Buck Flowers	--	1895	40 37-m	42
415	do.	36, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	W. W. Martin	--	1900	75 69-m	5
417	do.	36, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Babe Lanier	--	1927	75 69-m	5
418	11 miles west	48, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	M. B. Martin	--	--	-- 9-m	42
419	12 $\frac{1}{2}$ miles west	15, SE $\frac{1}{4}$ SE $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 3	J. T. Poe	J. T. Poe	1912	14 9-m	42
420	13 miles west	--	J. M. Grigsby	Ed Sherrill	-- Soan	1933	70 67-m	5
423	7 $\frac{1}{2}$ miles west	20, SW $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	C. G. Stubblefield	C. G. Stubblefield	1915	40 37-m	36
424	6 $\frac{1}{2}$ miles west	--	Luke Bryan	W. T. Duncan	--	1917	-- 14-m	36
f/426	4 $\frac{1}{4}$ miles west	1, SW $\frac{1}{4}$ NE $\frac{1}{4}$	Deaf & Dumb Asylum Lands	W. Boon	--	--	-- 80-m	5
429	1 $\frac{1}{2}$ miles west	27, SE $\frac{1}{4}$ NE $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 1	J. C. Caraway	W. J. Overton	1910	40 39-m	42
430	1 mile west	--	do.	D. Jobe	--	--	-- 14-m	36
431	1 $\frac{1}{2}$ miles south	46, NW $\frac{1}{4}$ NW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	A. F. McMullen	--	--	60 44-m	6
433	$\frac{1}{4}$ mile southwest	65, SW $\frac{1}{4}$ SW $\frac{1}{4}$	Deaf & Dumb Asylum Lands	City of Gorman	--	1910	-- 81-m	--
434	At Gorman	--	Gorman Townsite	do.	W. H. Bradford	1911	120 93-m	8 $\frac{1}{2}$
435	$\frac{1}{2}$ miles northeast	63, SW $\frac{1}{4}$ NE $\frac{1}{4}$	Deaf & Dumb Asylum Lands	Mrs. Adelene Moats	--	--	-- 51-m	6
436	1 mile northeast	2, SW $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 1	Mrs. J. M. Moats	H. W. Seay	1910	60 48-m	5
437	1 $\frac{1}{2}$ miles northeast	2, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	P. Thomas	--	1917	-- 30-m	36
439	2 miles northeast	--	Deaf & Dumb Asylum Lands	R. D. Parker	--	1900	-- 45-m	--
440	2 $\frac{3}{4}$ miles northeast	66, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Oral Browning	--	--	Spring	--
441	2 miles north	--	H. & T.C.R.R.Co., blk. 1	Albert Taylor	--	1912	-- 56-m	5
442	2 $\frac{1}{4}$ miles north	1, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	H. O. Files	--	1910	50 42-m	5
443	2 miles northeast	--	D. J. Andrus	M. Jones	--	1902	-- 38-m	5
444	3 miles northeast	--	Theresa Tyler	George Snyder	--	1902	60 34-m	5

J. Howard Samuell, Project Superintendent

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
409	0.7	36	Apr. 12, 1937	C,W	D,S	S	Hillside	Galvanized casing.
410	2.5	14.2	May 14, 1937	B,H	S	S	Level	Dug well. Brick curb and casing, top to bottom.
412	2.3	11.9	do.	C,W	D,S	S	do.	Dug well. Wood curb; brick casing.
413	2.5	12.6	do.	B,H	D,S	S	do.	Do.
414	3	17.5	do.	C,H	D,S,I	S	do.	Do.
415	0.8	27	do.	C,W	S	S	do.	Galvanized casing. Water reported in sand.
417	3	28.5	do.	B,H	D,S	W	Hillside	Do.
418	1.6	3.9	do.	None	N	S	Edge of dry branch	Dug well. Rock curb and casing.
419	1.7	4.9	do.	C,W	D,S	S	Level	Dug well. Wood curb and casing.
420	0.9	19.8	do.	B,H	D,S	S	Hilltop	Galvanized casing.
423	1.5	32.5	Apr. 12, 1937	C,W	D,S	S	do.	Dug well. Wood curb; brick casing.
424	2.5	6.5	Apr. 13, 1937	B,H	D,S	S	Hillside	Dug well. Rock curb and casing.
426	0.3	52	Apr. 12, 1937	C,W	N	F	Level	Galvanized casing.
429	0.9	20.9	do.	C,W	D,S	S	do.	Dug well. Wood curb; no casing.
430	1.5	6.5	do.	C,W	D,S	S	Hillside	Do.
431	0.5	25	May 27, 1937	C,W	D,S	S	do.	Wood curb; galvanized casing. Located in Comanche County.
433	0	60.7	Apr. 13, 1937	C,E,5	P	S	--	Dug well. Concrete curb; brick casing.
434	0	56.8	Apr. 12, 1937	C,G,-	P	S	Level	100 feet steel casing at top.
435	1	43.2	Apr. 19, 1937	B,H	--	S	do.	Galvanized casing.
436	0.8	39.6	Apr. 13, 1937	B,H	D,S	S	Hilltop	50 feet galvanized casing at top.
437	2.3	25.8	do.	B,H	D,S	S	do.	Dug well. Wood curb; rock casing, top to bottom.
439	1	40.2	Apr. 19, 1937	C,W	D,S	S	do.	Dug well. Steel curb.
440	--	Flows	do.	None	N	S	Near creek bottom	Concrete curb. Measured flow, 33 gallons a minute from 1
441	0.3	34.1	do.	C,W	D,S	S	Hilltop	Concrete opening in limestone curb; galvanized casing, top to
442	1	29.6	do.	C,H	D,S,I	S	Hillside	Galvanized casing, top to bottom.
443	0.2	27.2	do.	C,H	D,S	S	do.	Galvanized casing, top to bottom.
444	0.2	13.4	do.	C,W	D,S,I	S	do.	Wood curb; galvanized casing.

Records of wells and springs in Eastland County--Continued

No.	Distance from Gorman	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
445	3 miles northeast	--	Theresa Tyler	Grandview School	--	1927	-- 47-m	5
446	3 $\frac{1}{4}$ miles northeast	--	do.	C. M. Prestidge	--	1902	60 44-m	5
447	3 $\frac{1}{2}$ miles northeast	--	do.	Mrs. Tom Brightwell	James Arnold	1902	45 38-m	36
448	4 miles northeast	--	do.	J. M. Westmoreland	J. M. Westmoreland	1902	-- 21-m	42
449	do.	--	do.	T. M. Goodwin	W. C. Thomas	1907	27 21-m	42
450	4 $\frac{3}{4}$ miles northeast	--	do.	W. F. Rogers	Malstead Moop	1922	-- 21-m	36
451	4 $\frac{3}{4}$ miles north	--	do.	W. P. Westmoreland	--	1902	-- 23-m	48
452	3 $\frac{1}{2}$ miles northeast	--	W. De Moss	E. W. Townsend	--	1917	90 90-m	5
454	4 miles northeast	--	do.	Pat Peak	Pat Peak	1925	-- 24-m	36
457	6 miles northeast	--	J. Salinas	Almon Bearden Estate	--	1910	-- 34-m	36
458	6 $\frac{1}{2}$ miles northeast	--	J. Curbella	J. T. Jones	--	1900	-- 43-m	36
f/460	8 miles northeast	--	Desdemona Townsite	City of Desdemona	J. H. Jackson	1937	76	5- 3/16
461	do.	--	do.	do.	--	1935	76	6- 5/8
462	7 $\frac{1}{2}$ miles northeast	--	N. H. Kuykendall	Mrs. Bobbie J. Terry	Gallagher & Lawson	1937	128	24
463	6 $\frac{1}{2}$ miles east	5, NW $\frac{1}{2}$ NE $\frac{1}{4}$	H. & B. B. R. R. Co.	Mrs. S. Snodgrass	--	1918	-- 38-m	42
464	do.	54, SW $\frac{1}{2}$ SW $\frac{1}{4}$	L. Birdsall	W. N. Koonce	-- Bradford	1937	30 35-m	5
465	6 miles east	56, SW $\frac{1}{4}$	E. Houston	G. J. Perry	--	--	Spring	--
466	do.	do.	do.	do.	-- Bradford	1927	30 30-m	5
467	7 miles southeast	--	J. P. Stephenson	J. J. Holleman	--	--	25 18-m	42
468	7 $\frac{1}{2}$ miles southeast	--	William Ship	W. F. Duke	--	--	-- 36-m	6
469	8 $\frac{1}{2}$ miles southeast	--	do.	W. L. F. Boyd	--	--	80 59-m	6
470	10 miles southeast	--	--	City of DeLeon	-- Bradford	1920	105	8
471	9 miles southeast	14, SE $\frac{1}{4}$ SE $\frac{1}{4}$	H. & T. C. R. R. Co., blk. 2	J. W. Tate	do.	1926	-- 11-m	6
472	8 $\frac{1}{2}$ miles southeast	16, cen. S line	H. & T. C. R. R. Co., blk. 1	Mrs. M. J. Cuner Estate	--	1900	60 69-m	42
473	7 miles southeast	9, SE $\frac{1}{4}$ NW $\frac{1}{4}$	Nathaniel Green	J. T. Quinn	-- Bradford	--	30 31-m	6

J. Howard Samuel, Project Superintendent

No.	Height of measuring point above ground (ft.)	Water Level		Pump and power c/	Use of water d/	Sup- ply e/	Topo- graphic situation	Remarks
		Depth below measuring point (ft.)	Date of measure- ment					
445	1.5	27.4	Apr. 19, 1937	C,H	P	S	Hillside	Steel curb; galvanized casing.
446	2	30.8	do.	C,W,H	D,S	S	Hilltop	Galvanized casing, top to bot- tom.
447	3	21.5	do.	C,W	D,S,I	S	do.	Dug well. Brick curb; 3 feet brick casing at top.
448	2.5	11.4	do.	B,H	D,S	S	Level	Do.
449	4	7.8	do.	B,H	D,S	S	do.	Dug well. Wood curb; rock cas- ing, top to bottom.
450	2.5	17.8	do.	B,H	D,S	S	do.	Dug well. Wood curb; brick cas- ing, top to bottom.
451	3.4	17.5	do.	B,H	--	S	Hilltop	Dug well. Wood curb; no casing.
452	1.5	17	Apr. 13, 1937	B,H	D,S	W	Level	Galvanized casing, top to bot- tom.
454	1.5	18.4	do.	C,W	D,S	S	Hilltop	Dug well. Concrete curb; rock casing, top to bottom.
457	3.5	29.4	do.	B,H	D,S	S	Level	Dug well. Wood curb; no casing.
458	2.5	30.6	Apr. 14, 1937	C,W	D,S	S	do.	Dug well. Rock curb; no casing.
460	1.4	33.3	Apr. 13, 1937	C,G,5	P	S	do.	Steel casing, top to bottom.
461	1.2	33.3	do.	C,E,3	P	S	do.	Do.
462	--	23	May 28, 1937	None	N	S	Hillside	Incomplete oil test. See log. Located in Comanche County.
463	3.5	26	do.	B,H	D,S	S	Level	Dug well. Wood curb; rock cas- ing. Water reported in sand. Located in Comanche County.
464	0.5	16	do.	C,H	D,S	S	Hillside	Galvanized casing, top to bot- tom. Located in Comanche County.
465	--	Flows	do.	None	S	S	Creek bank	Estimated flow, 20 gallons a minute from 1 opening in sand. Located in Comanche County.
466	1.2	17.8	do.	None	N	S	Hillside	Galvanized casing, top to bot- tom. Located in Comanche County.
467	2.4	7.8	do.	B,H	D,S	S	Level	Dug well. Brick curb; 10 feet brick casing at top. Located
468	0.5	14.8	do.	C,W	D,S	S	Hillside	Galvanized in Comanche County. casing, top to bottom. Water reported in sand. Located in
469	0.5	50	do.	C,W	D,S	S	Hilltop	Comanche County. Do.
470	1	40	May 21, 1937	C,E, 15	P	S	do.	Concrete block curb; steel cas- ing. Located in Comanche County.
471	0.5	7	May 27, 1937	C,W	D,S	S	do.	Wood curb; cast iron casing. Located in Comanche County.
472	1	65	May 21, 1937	C,W	D,S	S	Hillside	Dug well. Wood curb; 30 feet rock casing at top. Located in
473	0.5	24	May 27, 1937	C,W	D,S	S	Hilltop	Wood curb; Comanche County. galvanized casing, top to bot- tom. Located in Comanche County.

Records of wells and springs in Eastland County--Continued

No.	Distance from Gorman	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
474	7 $\frac{1}{2}$ miles south	15, NE $\frac{1}{4}$ NE $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	Mrs. Joe Patterson	--	--	120 116-m	6
475	6 $\frac{1}{2}$ miles southeast	54, SE $\frac{1}{4}$ NE $\frac{1}{4}$	William Ship	J. S. Singleton	--	1925	100 57-m	5
476	5 miles southeast	41, SE $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	J. L. Lightfoot	--	--	60 37-m	42
477	4 $\frac{1}{2}$ miles southeast	42, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	R. M. Higginbotham	--	1925	80 60-m	5
478	3 miles southeast	50, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	L. Woods	--	1910	30 29-m	42
479	3 $\frac{1}{4}$ miles south	34, NE $\frac{1}{4}$ NE $\frac{1}{4}$	Deaf & Dumb Asylum Lands	C. C. McMullen	--	1917	7 10-m	42
480	4 miles south	35, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Mrs. G. T. Sloan	--	--	40 38-m	42
481	5 miles south	33, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Mrs. B. L. Woody	--	1906	-- 101-m	5
482	7 miles south	13, NW $\frac{1}{4}$ NW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	E. Pounds	--	--	-- 62-m	5
483	6 miles south	9, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	City of Dunster	--	1906	82 41-m	5
484	6 $\frac{1}{2}$ miles south	9, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Dunster School	--	--	-- 53-m	5
485	8 $\frac{1}{2}$ miles southwest	52, NW $\frac{1}{4}$ NW $\frac{1}{4}$	Deaf & Dumb Asylum Lands	S. H. Gray	-- Bradford	1934	108 101-m	5
486	10 $\frac{1}{2}$ miles southwest	49, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	City of Sipe Spring	--	1895	20 18-m	42
f/487	9 $\frac{1}{2}$ miles southwest	--	Joseph Rubarth	M. F. Greenwood	Sun Oil Co.	--	2,450	--
488	11 miles west	53, NE $\frac{1}{4}$ SW $\frac{1}{4}$	P. A. Barnhill	Mrs. R. S. Maxwell	--	1895	290	5
490	12 miles west	--	J. Carr	W. R. Laird	R. Hayse	1923	48 45-m	5
492	13 miles southwest	33, SE $\frac{1}{4}$ SW $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	Bob Edwards	-- Killon	1912	22 18-m	48
494	13 $\frac{1}{2}$ miles southwest	32, NE $\frac{1}{4}$ SW $\frac{1}{4}$	E. T. & R. R.Co.	R. W. Higginbotham	-- Abel	1910	40 39-m	42
495	do.	31, NE $\frac{1}{4}$ SE $\frac{1}{4}$	H. & T.C.R.R.Co., blk. 2	J. M. Higginbotham	--	1910	45 43-m	5
496	14 miles southwest	7, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Dr. T. B. Busbee	--	--	-- 93-m	5
498	do.	7, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	H. V. Hill	J. D. Boggs	1912	60 66-m	5
499	14 $\frac{1}{2}$ miles southwest	7, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	J. T. Harris	J. T. Harris	1934	12 13-m	42

a/ Measured depths indicated by "-m"; otherwise depths are reported.

b/ Measuring point was usually top of casing, top of pipe clamp, top of pump base or top of well curb.

c/ B, bucket; C, cylinder; E, electric; G, gasoline, A, air lift; H, hand; W, windmill; number indicated horsepower.

J. Howard Samuell, Project Superintendent

No.	Height of measuring point above ground (ft.)	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
474	--	88.5	May 27, 1937	C,W	D,S	S	Hilltop	Galvanized casing, top to bottom. Water reported in sand. Located in Comanche County.
475	0.2	41	May 21, 1937	C,W	D,S	S	do.	Concrete block curb; galvanized casing. Located in Comanche County.
476	3	28	do.	C,W	D,S	S	Level	Dug well. Rock curb and casing. Located in Comanche County.
477	0.5	34.8	do.	C,W	D,S	S	Hillside	Galvanized casing, top to bottom. Located in Comanche County.
478	2.2	14.6	do.	B,H	D,S	S	Level	Dug well. Brick curb and casing. Located in Comanche County.
479	1.5	5.6	May 27, 1937	B,H	D,S	W	Hillside	Dug well. Concrete curb; rock casing, top to bottom. Located in Comanche County.
480	1.6	28.8	do.	B,H	D,S	S	Level	Dug well. Rock curb and casing. Located in Comanche County.
481	1.4	59.1	May 26, 1937	C,W	D,S	S	Hilltop	Galvanized casing. Water reported in sand. Located in Comanche County.
482	0.5	30	May 27, 1937	C,W	D,S	S	do.	Do. Located in Comanche County.
483	2.2	25.6	May 26, 1937	C,H	P	S	Level	Do.
484	0	44.6	do.	C,W	F	S	Hilltop	Concrete block curb; galvanized casing. Located in Comanche County.
485	0.5	56	do.	C,W	D,S	S	do.	Concrete block curb; steel casing. Located in Comanche County.
486	3.2	10	do.	C,-,-	P	S	Level	Dug well. Concrete curb; no casing. Located in Comanche County.
487	--	--	--	None	N	--	--	Oil test. Located in Comanche County. See log.
488	0.8	23	May 20, 1937	--	N	S	Hillside	Galvanized casing, top to bottom.
490	0.4	14	do.	--	S	W	Flat	Do.
492	1	12	do.	C,W	D,S	S	do.	Dug well. Wood curb; no casing.
494	1.2	19.4	do.	C,W	D,S	S	do.	Dug well. Concrete curb; rock casing.
495	0.5	29.5	do.	C,W	D,S	S	do.	Galvanized casing, top to bottom.
496	0.2	52.1	do.	C,W	D,S	S	do.	Do.
498	0.8	13.2	do.	C,H	S	S	do.	Do.
499	2	9	do.	C,W	S	S	do.	Dug well. Brick curb; rock casing.

d/ D, domestic; I, irrigation; P, public; S, stock; N, not used.

e/ Reported supply: S, strong; F, fair; W, weak; N, no supply.

f/ No water sample collected for analysis.

g/ Water level reported.

Records of wells and springs in Eastland County--Continued

No.	Distance from Ranger	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
601	3 miles northwest	--	A. J. Beck	Willie Langford	Ross Barnes	1906	150 91-m	6
603	2½ miles north	--	-- Stubblefield	Mrs. H. James	T. M. Cook	1917	10 10-m	42
605	2¼ miles north	--	Guadalupe College	Rocky Point Pen-tecostal Church	L. A. Sides	--	-- 172-m	6
606	2 miles north	--	E. Estes	E. B. Hill	C. C. Putnam	--	32 29-m	42
f/608	1¾ miles north	--	E. Estes, abstract 1128	E. C. Ward	L. A. Sides	1931	200	5
610	1¼ miles northwest	--	S. Standifer	G. W. Rose	do.	1935	205 167-m	6
611	2 miles west	--	Mark Haley	J. F. Dreinhofer	--	1920	33 29-m	5½
612	1¾ miles west	--	do.	Mrs. N. E. Works	Mrs. N. E. Works	1935	20 25-m	--
613	1½ miles west	--	do.	Mrs. S. A. Sawyer	Mrs. S. A. Sawyer	1935	25 24-m	36
616	2¾ miles southwest	--	Eliz. Finley	B. E. Rigby	J. A. Pritchard	1931	20	--
f/617	3½ miles south	--	do.	L. A. Galloway	Texas Pacific Coal & Oil Co.	--	3,374	--
618	2¼ miles south	--	do.	Mrs. G. W. Terry	--	1915	180	5- 3/16
621	¼ mile southwest	--	F. Blundell	W. M. Myers	-- Smith	1918	213 174-m	5
623	1 mile east	--	James Leahea	R. H. Sheppard	--	1917	180 162-m	6
624	1½ miles east	--	Jessie Bledsoe, abstract 19	Haden Neal	--	--	40 29-m	42
625	2¼ miles east	--	James Leahea	J. M. Winsett	--	--	Spring	--
626	2 miles east	--	do.	D. Barton	--	--	60 56-m	5
628	2¼ miles east	--	N. A. Moore	J. R. Erwin	--	1935	-- 137-m	6
f/634	8½ miles southeast	--	Jno. Foster	C. E. Allen	Texas Pacific Coal & Oil Co.	--	3,095	--
635	5 miles southeast	--	Frederick Scranton	J. J. Daffern	J. J. Daffern	1933	20 22-m	42
636	6 miles southeast	--	E. L. Weeks	Willis Barton	--	--	50 32-m	42
637	7 miles southeast	--	Thos. A. Howell	A. H. Dean	Tom Week	--	45 30-m	42
638	8 miles southeast	--	do.	Geo. Barton	--	--	20 16-m	42
639	10 miles southeast	--	David S. Richardson	A. E. Martin	--	--	-- 57-m	42
640	11 miles southeast	--	do.	Mrs. E. E. Williams	Ervin Ryan	1906	37 36-m	42
641	12 miles southeast	--	B. Davidson	Bob Killinghamst	--	--	60 61-m	42
642	12 miles south	--	David S. Richardson	Dr. G. T. Blackwell	A. D. Lewis	1929	35 32-m	36

J. Howard Samuel, Project Superintendent

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
601	1.5	21.2	June 3, 1937	B,H	D,S	W	Hilltop	Wood curb; galvanized casing.
603	2.8	4.6	June 2, 1937	B,H	D,S	S	do.	Dug well. Wood curb; no casing.
605	1.2	21	do.	B,H	P	S	Creek bank	Wood curb; galvanized casing.
606	0.2	8.2	do.	B,H	D,S	W	do.	Dug well. Wood curb; no casing.
608	0.5	137	g/	C,W	D,S	W	Flat	Concrete block curb; galvanized casing.
610	1.5	134	June 2, 1937	B,H	D,S	W	Hillside	Wood curb; galvanized casing, 0 to 132 feet.
611	0.3	27	May 4, 1937	C,W	D,S,I	S	Flat	Concrete block curb; galvanized casing, top to bottom.
612	1.4	23.4	do.	C,W	D,S	F	do.	Dug well. Concrete curb; no casing.
613	--	21.8	do.	B,H	D	S	do.	Dug well. Wood curb; no casing.
616	0	12.3	do.	C,W	D,S	S	do.	Do.
617	--	--	--	None	N	--	--	Oil test. See log.
618	0.7	122	Apr. 16, 1937	C,H	D,S	W	Hillside	Steel casing.
621	0.6	150	do.	C,W	D,S	S	--	Wood block curb; galvanized casing.
623	1.5	90	June 2, 1937	C,W	S	W	Flat	Wood block curb; steel casing.
624	1.5	13.5	June 17, 1937	C,W	D,S	S	Hilltop	Dug well. Brick curb and casing.
625	--	Flows	do.	None	D,S	S	Creek bank	Estimated flow, 45 gallons a minute from 1 fissure in limestone.
626	1.2	35.8	June 2, 1937	C,W	D,S	S	Flat	Wood curb; galvanized casing.
628	0.2	114	do.	C,W	S,I	W	Hilltop	Steel casing, top to bottom. Water reported in sand.
634	--	--	--	None	N	--	--	Oil test. See log.
635	2.2	19.8	June 17, 1937	B,H	S	W	Flat	Dug well. Rock curb and casing.
636	2.5	22.8	do.	C,W	D,S	S	do.	Dug well. Concrete curb; 10 feet brick casing at top.
637	2.5	17.4	do.	B,H	D,S	S	Slope	Dug well. Brick curb; 10 feet rock casing at top.
638	3	7.8	do.	B,H	S	S	Flat	Dug well. Wood curb; no casing. Water reported in sand.
639	2.8	10.5	do.	--	N	S	do.	Do.
640	2.8	26.2	do.	C,W	D,S	S	Hilltop	Dug well. Brick curb; 10 feet brick casing at top.
641	--	43.1	do.	B,H	D,S	S	do.	Dug well. Wood curb; 6 feet rock casing at top.
642	1.8	29.6	Apr. 14, 1937	--	--	S	do.	Dug well. Brick curb and casing.

Records of wells and springs in Eastland County--Continued

No.	Distance from Ranger	Section	Survey and block	Owner	Driller	Date completed	Depth of well (ft.) a/	Diameter of well (in.)
644	11 miles south	--	McLennan Co. School Land, league 1	Jack Blackwell	--	--	-- 30-m	5
645	10 $\frac{1}{2}$ miles south	--	do.	A. H. Lane	Scrap Jackson	1933	68 54-m	6
f/646	10 miles south	--	do.	Jno. Alvis	--	1927	-- 48-m	5- 3/16
647	do.	--	do.	J. A. Hart	J. A. Hart	1932	-- 23-m	36
649	8 $\frac{1}{2}$ miles south	--	McLennan Co. School Land, league 1, blk. 1.	Alameda School	Frank Mahari	1912	-- 23-m	36
650	do.	--	McLennan Co. School Land, league 2, blk. 1.	R. H. Myrick	R. H. Myrick	1930	20 21-m	36
651	7 miles south	--	McLennan Co. School Land, league 2, blk. 16	Jess Blackwell	--	1930	100 92-m	5
653	11 $\frac{1}{2}$ miles south	9, NW $\frac{1}{4}$ NW $\frac{1}{4}$	H. & T. C. R. R. Co.	M. J. Timmon	--	--	-- 16-m	48
657	9 miles south	--	Harvey Kendrick	Triumph School	--	1923	20 19-m	36
658	8 $\frac{1}{2}$ miles south	--	Harvey Kendrick, blk. 8	W. T. Duncan	Red McFarland	1930	278	8
660	9 miles south	--	Harvey Kendrick	Mrs. B. Crawley	--	--	-- 48-m	5
661	8 miles south	--	Harvey Kendrick, blk. 11	O. T. Hazard	--	1900	65	5

a/ Measured depths indicated by "-m"; otherwise depths are reported.

b/ Measuring point was usually top of casing, top of pipe clamp, top of pump base or top of well curb.

c/ B, bucket; C, cylinder; E, electric; G, gasoline; A, air lift; H, hand; W, wind-mill; number indicated horsepower.

J. Howard Samuel, Project Superintendent

No.	Height of measuring point above ground (ft.) b/	Water Level		Pump and power c/	Use of water d/	Supply e/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement					
644	1.5	20.8	Apr. 19, 1937	B,H	D,S	S	Hillside	Galvanized casing, top to bottom.
645	0.8	48	do.	B,H	D,S	S	Hilltop	Steel casing. Water reported in sand.
646	0.8	45.1	do.	C,W	S	W	do.	Do.
647	2.3	20.2	Apr. 14, 1937	C,G,6	S	F	Flat	Dug well. Concrete curb; brick casing.
649	0.5	13.1	Apr. 16, 1937	C,W	P	S	do.	Do.
650	2	13.1	do.	C,W	D,S	S	Hilltop	Dug well. Brick curb and casing.
651	2.2	40.8	do.	B,H	D	W	Flat	Galvanized casing.
653	3	9.6	Apr. 29, 1937	B,H	D,S	S	Hillside	Dug well. Wood curb; no casing.
657	2.5	11	Apr. 14, 1937	B,H	P	F	Flat	Dug well. Concrete curb and casing.
658	0	65	g/	C,G,5	S	S	do.	Galvanized casing. Water reported in sand.
660	0.4	43.8	Apr. 14, 1937	C,W	--	W	do.	Do.
661	2	35	g/	C,W	D,S	F	do.	Do.

d/ D, domestic; I, irrigation; P, public; S, stock; N, not used.

e/ Reported supply: S, strong; F, fair; W, weak; N, no supply.

f/ No water sample collected for analysis.

g/ Water level reported.

Water level measurements of observation wells in Eastland County, Texas
(Table of well records herewith gives full descriptions of these wells.)

Date of measurements 1937 a/	Time	Depth to water (feet)	Date of measurements 1937 a/	Time	Depth to water (feet)	Date of measurements 1937 a/	Time	Depth to water (feet)
<u>Well 102</u>			<u>Well 103 -- Continued</u>			<u>Well 433 -- Continued</u>		
City of Rising Star. Library well, 18 $\frac{1}{2}$ miles south of Cisco. Measuring point is top of concrete slab, 6 inches above ground. Nearest pumping well is about 500 feet east.			May 15 10:20 a.m. 31.4			Apr. 20 12:05 p.m. 59.5		
			16 10:00 a.m. 32.3			21 6:00 a.m. 49.6		
			17 9:00 a.m. 16.3			21 5:15 p.m. 62.4		
			18 9:00 a.m. 32.2			22 6:00 a.m. 49.1		
			19 9:10 a.m. 33.7			22 9:30 a.m. 59.1		
			20 9:10 a.m. 33.1			23 5:30 a.m. 48.7		
			21 9:00 a.m. 33.4			23 4:30 p.m. 58.1		
May 12 10:00 a.m. 22.4			22 9:10 a.m. 32.1			24 5:30 a.m. 50.5		
13 10:05 a.m. 37.8			23 9:10 a.m. 33.8			24 5:20 p.m. 60.8		
14 10:10 a.m. 38.4			24 9:10 a.m. 32.6			25 6:00 a.m. 50.7		
15 10:00 a.m. 38.2			25 9:10 a.m. 33.7			25 10:00 a.m. 60.8		
16 9:20 a.m. 37.2			26 9:00 a.m. 32.8			26 6:00 a.m. 49.7		
17 10:00 a.m. 38			27 9:10 a.m. 30.6			26 4:00 p.m. 58.9		
18 9:30 a.m. 37.4			28 9:10 a.m. 33.6			27 6:00 a.m. 49.9		
19 9:10 a.m. 37.3			29 9:10 a.m. 16.4			27 1:00 p.m. 59.1		
20 9:00 a.m. 37.1			30 9:00 a.m. 15.6			28 6:00 a.m. 49.1		
21 9:10 a.m. 36.1			31 9:10 a.m. 15.4			28 2:15 p.m. 61.8		
22 9:00 a.m. 45.1			June 1 9:00 a.m. 32.2			29 6:00 a.m. 50		
23 9:00 a.m. 46			2 9:00 a.m. 33.4			29 3:00 p.m. 61.1		
24 9:10 a.m. 46.1			3 9:00 a.m. 33.7			30 6:00 a.m. 48.7		
25 9:00 a.m. 38			4 9:00 a.m. 16.2			30 1:30 p.m. 50.1		
26 9:10 a.m. 37.1			5 9:00 a.m. 16.1			May 1 6:00 a.m. 50.2		
27 9:00 a.m. 38.2			6 9:10 a.m. 32.2			1 9:00 p.m. 62.5		
28 9:00 a.m. 45.6			7 9:20 a.m. 14.7			2 6:30 a.m. 51.0		
29 9:00 a.m. 45.5			8 9:10 a.m. 14.2			2 10:15 a.m. 59.7		
30 6:20 p.m. 31.5			9 9:30 a.m. 13.1			3 6:00 a.m. 50.7		
31 6:20 p.m. 30.6			10 9:00 a.m. 14.7			3 3:00 p.m. 62.7		
June 1 6:20 p.m. 16.4			11 10:00 a.m. 14			4 6:00 a.m. 50.7		
2 6:20 p.m. 30.4			<u>Well 433</u>			4 7:00 p.m. 62.1		
3 6:20 p.m. 15.4			City of Gorman. City well. Measuring point is level with ground, at elevation of 1,193 feet. Nearest pumping well is about 500 feet northwest.			5 5:30 a.m. 50.1		
4 6:20 p.m. 31.8						5 7:00 p.m. 63.1		
5 6:20 p.m. 30.2						6 5:00 a.m. 50.1		
6 6:20 p.m. 17.4						6 7:00 p.m. 62.1		
7 6:20 p.m. 30.2						7 5:30 a.m. 50.3		
8 6:10 p.m. 29.1						7 9:40 p.m. 61.9		
9 8:10 p.m. 28.6						8 5:30 a.m. 50.7		
10 9:00 p.m. 27.9						8 7:00 a.m. 63.3		
11 6:00 p.m. 29.1			Apr. 13 10:30 a.m. 60.7			9 5:30 a.m. 51.4		
			13 3:00 p.m. 60.7			9 10:00 a.m. 60.7		
			14 6:00 a.m. 50.7			29 6:00 a.m. 51.7		
			14 5:00 p.m. 60.7			29 4:00 p.m. 61.7		
			15 5:00 a.m. 50			30 6:00 a.m. 51.4		
			15 12:20 a.m. 60.1			30 11:00 p.m. 60.3		
			16 5:30 a.m. 49.1			31 5:30 a.m. 50.7		
			16 2:30 p.m. 54.6			31 12:00 a.m. 60.2		
			17 6:00 a.m. 49.1			June 1 5:30 a.m. 51.5		
			17 7:00 p.m. 60.1			1 2:00 p.m. 61.5		
			18 5:30 a.m. 49			2 6:00 a.m. 50.5		
			18 9:00 a.m. 59			2 2:00 p.m. 60.6		
			19 5:30 a.m. 48.8			3 6:00 a.m. 50.6		
			19 2:30 p.m. 52.6			3 7:00 p.m. 60.1		
			20 7:00 a.m. 50.1			4 5:30 a.m. 49.9		
<u>Well 103</u>								
City of Rising Star. City well no. 3, 18 $\frac{1}{2}$ miles south of Cisco. Measuring point is top of curb 4 inches above concrete floor. Nearest pumping well is about 500 feet west.								
May 12 10:20 a.m. 17.3								
13 10:20 a.m. 27.9								
14 10:10 a.m. 30.2								

(Continued on next page)

Water level measurements of observation wells in Eastland County--Continued

Date of measure- ments 1937 a/	Time	Depth to water (feet)	Date of measure- ments 1937 a/	Time	Depth to water (feet)	Date of measure- ments 1937 a/	Time	Depth to water (feet)
<u>Well 433 -- Continued</u>			<u>Well 433 -- Continued</u>			<u>Well 433 -- Continued</u>		
June 4	12:00 a.m.	59.7	June 13	6:00 a.m.	50.7	June 21	6:00 a.m.	50.5
5	5:30 a.m.	50.6	13	3:00 p.m.	60.1	21	7:00 p.m.	60.6
5	3:00 p.m.	61.2	14	6:00 a.m.	50.5	22	6:00 a.m.	50.5
6	5:30 a.m.	49.1	14	7:00 p.m.	59.5	22	3:30 p.m.	60
6	11:00 a.m.	60.1	15	6:00 a.m.	50.3	23	5:30 a.m.	51.2
7	4:30 a.m.	50.5	15	5:00 p.m.	60.8	23	6:00 p.m.	60.1
7	1:00 p.m.	60.7	16	6:00 a.m.	50.5	24	6:00 a.m.	50.7
8	6:00 a.m.	49.7	16	4:00 p.m.	60.8	24	4:00 p.m.	60.9
8	2:00 p.m.	60.1	17	6:00 a.m.	50.6	25	6:00 a.m.	50.8
9	6:00 a.m.	49.4	17	4:25 p.m.	60.8	25	5:40 p.m.	60.9
9	2:00 p.m.	60.7	18	5:45 a.m.	51	26	6:00 a.m.	50.7
10	6:00 a.m.	49.7	18	7:30 p.m.	60.7	26	8:00 p.m.	61.7
10	3:00 p.m.	60.1	19	6:00 a.m.	50.9	27	6:00 a.m.	50.8
11	6:00 a.m.	50.2	19	6:30 p.m.	60.9	27	6:00 p.m.	60.1
11	3:00 p.m.	60.1	20	6:20 a.m.	50.7	28	6:00 a.m.	51.4
12	6:00 a.m.	50.3	20	4:00 p.m.	60.7	28	8:00 p.m.	61.2
12	9:00 p.m.	60.9						

McKee Bond

Table of Drillers' Logs, Eastland County, Texas

	Thickness (feet)	Depth (feet)
Driller's log of well 2		
Black Diamond Oil Company, Elliott and Bacon #1. 9 miles north of Cisco.		
Black surface materials - - -	1	1
Yellow clay - - - - -	9	10
White lime - - - - -	21	31
Black lime - - - - -	17	48
Blue shale - - - - -	12	60
Brown sand and gravel - - -	40	100
Red slate - - - - -	40	140
Red rock - - - - -	35	175
White shale - - - - -	15	190
White lime - - - - -	10	200
Brown shale - - - - -	20	220
White lime - - - - -	80	300
White sand - - - - -	20	320
White shale - - - - -	20	340
White lime - - - - -	20	360
White slate - - - - -	10	370
White lime - - - - -	20	390
Black slate - - - - -	10	400
White lime - - - - -	40	440
Black slate - - - - -	50	490
White lime - - - - -	20	510
Black slate - - - - -	20	530
White lime - - - - -	70	600
White slate - - - - -	10	610
White lime - - - - -	30	640
White slate - - - - -	10	650
White lime - - - - -	130	780
White slate - - - - -	20	800
White lime - - - - -	90	890
White slate - - - - -	20	910
Black slate - - - - -	110	1020
White lime - - - - -	180	1200
White slate - - - - -	10	1210
White lime - - - - -	30	1240
White slate - - - - -	20	1260
White sand - - - - -	35	1295
White lime - - - - -	15	1310
White sand - - - - -	20	1330
Black slate - - - - -	20	1350
White lime - - - - -	80	1430
White slate - - - - -	10	1440
White lime - - - - -	30	1470
White slate - - - - -	10	1480
White lime - - - - -	25	1505
White slate - - - - -	5	1510
White sand - - - - -	10	1520
White slate - - - - -	80	1600
White lime - - - - -	60	1660
Brown slate - - - - -	40	1700
White sand - - - - -	65	1765
White slate - - - - -	15	1780
Red rock - - - - -	437	2217
White slate - - - - -	23	2240
TOTAL DEPTH - - - - -		?

	Thickness (feet)	Depth (feet)
Driller's log of well 9		
Anna Belle Oil Company, M. V. Hoyt #1. 1 1/2 miles north of Cisco.		
Surface materials - - - - -	20	20
Shale - - - - -	6	26
Gray lime - - - - -	10	36
White sand - - - - -	10	46
Blue shale - - - - -	54	100
Gray lime - - - - -	46	146
Gray water sand - - - - -	35	181
Pink shale - - - - -	10	191
Hard gray lime - - - - -	10	201
Soft dark-colored shale - - -	26	227
Soft gray shale - - - - -	14	241
Soft gray lime - - - - -	19	260
Dark-colored shale - - - - -	40	300
Hard gray lime - - - - -	20	320
Blue shale - - - - -	20	340
Soft black shale - - - - -	10	350
Pink shale - - - - -	10	360
Hard gray lime - - - - -	20	380
Soft blue shale - - - - -	20	400
Hard gray lime - - - - -	10	410
Soft pink shale - - - - -	20	430
Soft blue shale - - - - -	10	440
Soft dark-colored shale - - -	20	460
Soft gray lime - - - - -	10	470
Pink shale - - - - -	25	495
Soft gray water sand - - - -	15	510
Hard gray lime - - - - -	20	530
Pink shale - - - - -	15	545
Soft gray water sand - - - -	15	560
Soft pink shale - - - - -	10	570
Soft gray sand - - - - -	10	580
Blue shale - - - - -	20	600
Pink shale - - - - -	50	650
Blue shale - - - - -	5	655
Hard brown lime - - - - -	4	659
Soft red shale - - - - -	11	670
Brown lime - - - - -	15	685
Soft brown shale - - - - -	50	735
Hard brown lime - - - - -	10	745
Soft blue shale - - - - -	10	755
Soft dark-colored shale - - -	15	770
Sandy gray shale - - - - -	20	790
Soft black shale - - - - -	20	810
Sandy gray shale - - - - -	25	835
Soft gray sand - - - - -	15	850
Soft blue shale - - - - -	15	865
Hard pink lime - - - - -	30	895
Moderately hard pink lime - -	25	920
Soft blue shale - - - - -	2	922
Hard brown lime - - - - -	8	930
Soft blue shale - - - - -	55	985
Soft white water sand - - - -	15	1000
Hard lime - - - - -	30	1030

(Continued on next page)

Table of Drillers' Logs, Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Log of well 9--Continued</u>		
Black shale- - - - -	5	1035
Blue shale- - - - -	65	1100
Soft gray water sand - - -	20	1120
Blue shale- - - - -	80	1200
Soft gray sand- - - - -	30	1230
Soft dark-colored shale- -	40	1270
Hard gray lime- - - - -	5	1275
Soft pink shale - - - - -	5	1280
Hard gray lime- - - - -	20	1300
Soft dark-colored shale- -	15	1315
Hard light-colored lime- -	10	1325
Soft dark-colored shale- -	15	1340
Gray lime- - - - -	5	1345
Gray shale- - - - -	10	1355
Soft gray lime- - - - -	5	1360
Gray shale- - - - -	30	1390
Moderately hard gray lime-	20	1410
Soft sand- - - - -	15	1425
Gray shale - - - - -	25	1450
Pink shale- - - - -	10	1460
Sandy gray shale- - - - -	25	1485
Soft gray sand- - - - -	10	1495
Soft dark-colored shale- -	5	1500
Hard light-colored lime- -	20	1520
Soft light-colored shale-	60	1580
Sandy gray shale- - - - -	10	1590
Moderately hard gray lime-	5	1595
Soft gray shale- - - - -	5	1600
Moderately hard gray lime -	25	1625
Sandy blue shale- - - - -	15	1640
Soft light-colored sand - -	20	1660
Soft black shale- - - - -	65	1725
Moderately hard white lime-	30	1755
Soft white shale- - - - -	45	1800
Moderately hard lime- - - -	5	1805
Soft white shale- - - - -	30	1835
Dark-colored shale- - - - -	10	1845
Sandy gray shale- - - - -	55	1900
Gray water sand- - - - -	30	1930
Sandy gray shale- - - - -	4	1934
Hard gray lime- - - - -	5	1939
Gray shale- - - - -	31	1970
Soft light-colored sand - -	45	2015
TOTAL DEPTH- - - - -		3818

Driller's log of well 21

Roxana Petroleum Company, W. C. Pippen #1.
7 miles west of Cisco.

Surface materials- - - - -	3	3
Lime- - - - -	22	25
Blue shale- - - - -	5	30
Brown shale- - - - -	15	45
Hard sand- - - - -	5	50
Blue shale - - - - -	6	56

	Thickness (feet)	Depth (feet)
<u>Log of well 21--Continued</u>		
Brown shale- - - - -	32	88
Hard blue sand- - - - -	7	95
Soft white sand - - - - -	20	115
White sand- - - - -	5	120
Chalk- - - - -	6	126
Pink shale- - - - -	5	131
Hard shell- - - - -	2	133
Blue shale- - - - -	32	165
White shale - - - - -	22	187
White slate - - - - -	18	205
Blue shale- - - - -	4	209
White lime- - - - -	2	211
Black shale- - - - -	4	215
White shale- - - - -	20	235
Brown shale- - - - -	6	241
Blue shale- - - - -	9	250
Brown shale- - - - -	13	263
White sand- - - - -	37	300
Blue shale- - - - -	5	305
White sand- - - - -	10	315
White shale- - - - -	5	320
Blue shale- - - - -	45	365
White sand- - - - -	25	390
White lime- - - - -	8	398
White shale - - - - -	14	412
White sand- - - - -	14	426
Blue shale- - - - -	4	430
White lime- - - - -	6	436
Blue shale- - - - -	7	443
Blue sand- - - - -	14	457
Blue shale- - - - -	13	470
Green shale- - - - -	5	475
White shale- - - - -	5	480
White lime - - - - -	6	486
White shale- - - - -	14	500
Blue shale - - - - -	90	590
Brown shale- - - - -	15	605
Hard sand- - - - -	7	612
Gray shale - - - - -	13	625
Blue shale - - - - -	40	665
Black shale- - - - -	15	680
Hard white lime- - - - -	9	689
Blue shale- - - - -	14	703
Gray lime- - - - -	10	713
Blue shale - - - - -	17	730
Sand- - - - -	23	753
Blue shale- - - - -	9	762
White sand- - - - -	28	790
Blue shale- - - - -	5	795
Blue lime - - - - -	7	802
Blue shale- - - - -	3	805
Blue sand- - - - -	10	815
White lime- - - - -	10	825

(Continued on next page)

Table of Drillers' Logs, Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Log of well 21--Continued</u>		
Blue shale-	55	880
White lime-	4	884
Blue shale-	54	938
Red rock-	6	944
Blue shale-	20	964
White lime-	9	973
Blue shale-	34	1007
Gray sand-	20	1027
Blue shale-	63	1090
Gray lime-	6	1096
Blue shale-	64	1160
Sand-	10	1170
Blue shale-	48	1218
White lime-	122	1340
Blue shale-	40	1380
Blue sand-	25	1405
Blue shale-	40	1445
Hard gray lime and shells-	105	1550
Blue shale-	30	1580
Hard gray lime-	9	1589
Blue shale-	3	1592
White lime-	6	1598
Blue shale-	7	1605
Hard gray lime-	17	1622
Blue shale-	9	1631
Hard gray lime-	10	1641
Blue shale-	4	1645
Hard gray lime-	20	1665
Blue shale-	5	1670
Hard sand-	10	1680
Gray lime-	20	1700
Blue shale-	40	1740
Gray lime-	5	1745
Sandy hard white lime-	30	1775
Blue shale-	145	1920
Broken lime-	10	1930
Blue shale-	15	1945
Hard lime-	20	1965
Blue shale-	95	2060
TOTAL DEPTH-		4097

<u>Driller's log of well 34</u>		
J. Elmer Thomas, D. M. Anglin #1.		7½
miles southwest of Cisco.		
Surface materials-	2	2
Sandy clay-	14	16
Lime-	1	17
Yellow clay-	17	34
Yellow lime-	3	37
Brown shale-	22	59
Lime-	4	63
Blue shale-	27	90
Red materials-	25	115
Lime-	3	118

	Thickness (feet)	Depth (feet)
<u>Log of well 34--Continued</u>		
Blue shale-	6	124
Red materials-	16	140
Blue shale-	42	182
Lime-	13	195
Brown shale-	44	239
Sandy shale-	16	255
Red materials-	7	262
Sandy shale-	13	275
Blue shale-	5	280
Lime-	3	283
Sandy lime-	12	295
Blue shale-	3	298
Lime-	5	303
Sandy shale-	29	332
Red materials-	8	340
White lime-	12	352
Sandy shale-	10	362
Blue shale-	40	402
Sandy shale-	124	526
Brown shale-	8	534
Lime-	6	540
Blue shale-	21	561
Water sand-	6	567
Lime-	6	573
Blue shale-	22	595
Sandy lime-	4	599
Blue shale-	7	606
TOTAL DEPTH-		606

<u>Driller's log of well 119</u>		
Rainbow's End Oil Company, R. O. Jackson #1. 14 miles south of Cisco.		
Sand and clay-	10	10
Blue shale-	10	20
White lime-	10	30
Blue shale-	30	60
White shale-	30	90
Red rock-	10	100
White lime-	30	130
Blue shale-	30	160
White shale-	5	165
Water sand-	10	175
Blue shale-	25	200
White shale-	25	225
White lime-	10	235
White shale-	30	265
Red rock-	10	275
White shale-	20	295
Water sand-	30	325
Blue shale-	100	425
White shale-	16	441
White lime-	47	488
Blue shale-	67	555
White lime-	12	567

(Continued on next page)

Table of Drillers' Logs, Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Log of well 119--Continued</u>		
Blue shale-	8	575
White shale-	2	577
Water sand-	8	585
White lime-	47	632
White shale-	27	659
Brown shale-	14	673
Red rock-	12	685
White lime-	16	701
Blue shale-	5	706
Blue shale and shells-	37	743
Red rock-	9	752
Gray lime-	33	785
White shale-	40	825
Water sand-	8	833
Soft white shale-	4	837
Water sand-	29	866
Shale and shells-	119	985
White lime-	12	997
White shale-	148	1145
White lime-	7	1152
Red shale-	16	1168
Gray sand-	28	1196
Blue shale-	135	1331
White lime-	10	1341
White shale-	16	1357
White lime-	44	1401
Gray shale-	6	1407
Sand and shale-	4	1411
Red rock-	7	1418
Blue shale-	28	1446
White lime-	3	1449
Water sand-	7	1456
Gray shale-	46	1502
Black shale-	15	1517
Gray shale-	31	1548
White lime-	4	1552
White shale-	35	1587
Pink shale-	6	1593
Hard gray lime-	2	1595
White shale-	121	1716
White lime-	6	1722
Water sand-	48	1770
Gray shale-	40	1810
White lime-	3	1813
Brown shale-	20	1833
Sand and shale-	34	1867
Black shale-	13	1880
Gray shale-	76	1956
Water sand-	10	1966
Blue shale-	24	1990
Water sand-	11	2001
Gray lime-	11	2012
Shale and lime shells-	18	2030
Sand and gray shale-		

	Thickness (feet)	Depth (feet)
<u>Log of well 119--Continued</u>		
Gray shale-	23	2086
Gray water sand-	12	2098
Black shale and sand-	26	2124
Black shale-	14	2138
Gray shale-	367	2505
Black shale-	82	2587
Gray lime-	83	2670
Oil and water sand-	9	2679
Black lime-	41	2720
Dark sandy lime-	4	2724
Black lime-	9	2733
Lime and hard black shale-	20	2753
Black lime-	87	2840
Gray lime-	5	2845
Slate and shale-	15	2860
Gray lime-	5	2865
Soft black lime-	35	2900
Black lime-	5	2905
Slate, shale, lime, and shells-	55	2960
Black lime-	50	3010
TOTAL DEPTH-		3010

Driller's log of well 222

States Oil Corporation and Duquesne Oil Corporation, W. L. Dolley #4. 5½ miles north of Eastland.

Clay-	8	8
Shale-	32	40
Shale and shells-	66	106
White lime-	45	151
Shale-	19	170
White water sand-	12	182
Shale-	59	241
Limestone-	89	330
Blue shale-	10	340
Lime-	20	360
Shale-	10	370
Lime-	5	375
Shale-	45	420
Lime-	15	435
Shale-	5	440
Lime-	25	465
Water in shale-	35	500
Lime-	15	515
Shale-	97	612
Sand-	20	632
Shale-	44	676
Sand-	15	691
Shale-	29	720
Lime-	15	735
Shale-	105	840
Lime-	22	862

(Continued on next page)

Table of Drillers' Logs, Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Log of well 222--Continued</u>		
Shale-	4	866
Water sand-	20	886
Lime-	9	895
Shale-	50	945
Lime-	7	952
Red rock-	12	964
Lime-	22	986
Slate and shells-	54	1040
Red rock-	5	1045
White shale-	75	1120
Lime-	40	1160
White shale-	140	1300
Shale and shells-	290	1590
Lime-	5	1595
Slate-	465	2060
Water sand-	62	2122
Shale-	278	2400
Sand-	30	2430
Shale and shells	350	2780
Sandy shale-	32	2812
Black slate-	223	3035
TOTAL DEPTH-		3583

<u>Driller's log of well 298</u>		
M. K. Gates, L. A. Hightower #1. 5		
miles south of Eastland.		
Surface materials-	5	5
Sand-	10	15
Water sand-	5	20
Sand-	10	30
Gravel, water-	2	32
Sand-	18	50
Shale-	30	80
Lime-	25	105
Shale-	5	110
Lime-	25	135
Shale-	60	195
Lime-	65	260
Shale-	65	325
Lime-	7	332
Shale-	38	370
Shale and shells-	40	410
Lime-	32	442
Shale-	85	527
Sandy lime-	3	530
Shale-	45	575
Lime-	15	590
Shale-	25	615
Lime-	5	620
Shale-	10	630
Lime-	15	645
Shale-	8	653
Lime-	14	667
Shale-	13	680

	Thickness (feet)	Depth (feet)
<u>Log of well 298--Continued</u>		
Lime-	5	685
Shale-	12	697
Brown shale-	5	702
Lime-	5	707
Red rock-	13	720
Lime-	5	725
Red rock-	5	730
Shale-	4	734
Sandy lime	4	738
Shale-	9	747
Lime, water-	20	767
Shale-	14	781
Blue shale-	99	880
Lime-	6	886
Sandy lime-	14	900
Sandy shale-	35	935
Shale-	10	945
Gray shale	10	955
Water sand-	17	972
Lime-	15	987
Brown shale-	8	995
Shale-	15	1010
Lime-	6	1016
Sandy shale	19	1035
Lime-	15	1050
Sandy lime, water-	10	1060
Gray shale-	7	1067
Red rock-	8	1075
Lime-	4	1079
Shale-	16	1095
Lime-	5	1100
Shale-	3	1103
Sandy lime-	14	1117
Shale-	10	1127
Lime-	3	1130
Shale-	20	1150
Lime-	5	1155
Shale	5	1160
Red rock-	7	1167
Shale-	3	1170
Lime-	20	1190
Shale-	81	1271
Sand-	10	1281
Shale-	14	1295
Sandy shale-	6	1301
Sand-	5	1306
Oil and water	1	1307
Sand-	3	1310
Sand and water-	11	1321
TOTAL DEPTH-		1321

Table of Drillers' Logs, Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 462</u>		
Gallagher and Lawson, Mrs. Bobbie I. Terry. 7½ miles northeast of Gorman.		
White sand-	30	30
Red rock-	5	35
Water sand and gravel-	20	55
Gravel, water-	2	57
White sand-	9	66
Clay and sand-	18	84
Yellowish-gray clay-	6	90
Sandy clay-	5	95
Red clay and gravel-	4	99
Lime and shells-	3	102
Blue shale-	26	128
TOTAL DEPTH-		128

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 487</u>		
Sun Oil Company, M. F. Greenwood # 1. 9½ miles southwest of Gorman.		
Soil and lime-	20	20
Lime-	20	40
Light-colored slate-	10	50
Lime-	10	60
Slate-	30	90
Shale-	10	100
Slate-	12	112
White lime-	10	122
Light-colored slate-	18	140
Slate-	70	210
White lime-	10	220
Lime-	20	240
Shale-	12	252
Slate-	208	460
Sand-	20	480
Slate-	48	528
Red rock-	55	583
Lime-	32	615
White lime-	15	630
Lime-	15	645
Broken lime-	15	660
Water sand-	15	675
Slate-	20	695
Gray lime-	7	702
Red rock-	23	725
Slate-	115	840
Lime-	15	855
Sandy lime-	42	897
Slate-	83	980
Sand-	20	1000
Slate-	25	1025
Sand-	19	1044
Water sand-	21	1065
Lime-	10	1075
Slate-	399	1474
Sandy lime-	64	1538

	Thickness (feet)	Depth (feet)
<u>Log of well 487--Continued</u>		
Slate-	492	2030
Shells and lime-	3	2033
Slate-	42	2075
Black lime and shells-	5	2080
Shale-	40	2120
Slate-	180	2300
Lime and shells-	2	2302
Black shale-	69	2371
Black lime-	79	2450
TOTAL DEPTH-		2450

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 617</u>		
Texas Pacific Coal and Oil Company, L. A. Galloway #1. 3½ miles south of Ranger.		
Surface materials-	10	10
Blue shale-	30	40
Lime-	36	76
Dry sand-	5	81
Blue shale-	49	130
Lime-	10	140
Blue shale-	24	164
Lime-	11	175
Blue shale-	17	192
Lime-	18	210
Blue shale-	44	254
Lime-	17	271
Blue shale-	41	312
Lime-	12	324
Water sand-	14	338
Blue shale-	14	352
Lime-	8	360
Blue shale-	31	391
Lime-	11	402
Blue shale-	38	440
Lime-	10	450
Blue shale-	103	553
Lime-	10	563
Blue shale-	98	661
Water sand-	11	672
Blue shale-	368	1040
Water sand-	64	1104
Lime-	31	1135
Sandy shale-	25	1160
Blue shale-	44	1204
Water sand-	22	1226
Blue shale-	80	1306
Sandy shale-	94	1400
Dry sand-	42	1442
Blue shale-	58	1500
Water sand-	63	1563
Sandy shale-	22	1585
Sand and lime-	57	1642
Water sand-	21	1663

(Continued on next page)

Table of Drillers' Logs, Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Log of well 617--Continued</u>		
Blue shale-	62	1725
Water sand-	31	1756
Blue shale-	532	2288
Dry sand-	70	2358
Lime and sand-	252	2610
Blue shale-	190	2800
Black lime-	64	2864
Black shale-	81	2945
Brown shale-	55	3000
Brown lime-	21	3021
Black shale-	49	3070
Black lime-	180	3250
White lime-	23	3273
Sand, show of gas-	28	3301
Sandy shale-	13	3314
Lime and shells-	3	3317
Black shale-	57	3374
TOTAL DEPTH-		3374

Driller's log of well 634

Texas Pacific Coal and Oil Company, C. E.
Allen #3. $8\frac{1}{2}$ miles southeast of Ranger.

Yellow materials-	25	25
Shale-	65	90
Pink shale-	10	100
Sandy materials-	20	120
Blue shale-	60	180
Sandy lime-	10	190
Dry sand-	25	215
Sandy shale-	105	320
Gray shale-	10	330
Sandy shale-	40	370
Sandy lime-	5	375
Sand-	5	380
Sandy shells-	45	425
Blue shale-	70	495
Sandy lime-	20	515
Packed water sand-	40	555
Sandy shale-	30	585
Shale-	135	720
Shale and shells-	20	740
Hard lime-	10	750
Shale-	15	765
Sandy lime-	5	770
Water sand-	30	800
Blue shale-	20	820
Broken sand-	10	830
Shale-	70	900
Broken sand-	30	930
Shale-	30	960
Sand-	25	985
Blue shale-	20	1005
Sandy shale-	60	1065
Hard sand-	15	1080

	Thickness (feet)	Depth (feet)
<u>Log of well 634--Continued</u>		
Sandy shale-	25	1105
Blue shale-	345	1450
Sandy shale-	30	1480
Gray shale-	70	1550
Broken sand-	215	1765
Sandy lime-	15	1780
Broken sand-	35	1815
Blue shale-	20	1835
Broken sand-	10	1845
Sandy lime-	10	1855
Hard sand-	45	1900
Sandy shale-	15	1915
Sand-	25	1940
Sandy shale-	35	1975
Black shale-	25	2000
Gray shale-	20	2020
Sandy lime-	10	2030
Gray shale-	115	2145
Sandy lime-	10	2155
Brown shale-	35	2190
Gray shale-	10	2200
Sand, show of oil-	10	2210
Sand-	45	2255
Broken sand-	55	2310
Sand-	30	2340
Shale-	5	2345
Sandy lime-	5	2350
Brown shale-	15	2350
Broken sand-	45	2410
Hard sand-	15	2425
Broken sand-	30	2455
Sandy lime-	25	2480
Black shale-	35	2515
Black lime-	10	2525
Black shale-	105	2630
Brown shale-	95	2725
Blue shale-	10	2735
Black shale-	260	2995
Black lime-	15	3010
Gray lime-	5	3015
Sandy lime-	10	3025
Sand-	35	3060
Broken sand-	12	3072
Sandy lime-	6	3078
Shale and shells-	10	3088
Shale-	7	3095
TOTAL DEPTH-		3095

Logs of test wells drilled by W. P. A. labor in Eastland County, Texas
 Samples examined and classified by J. Howard Samuell,
 Project Superintendent.

	Thickness (feet)	Depth (feet)
<u>Well 1</u>		
Hillside, north side State Highway 23, at Callahan-Eastland County line, 10 $\frac{1}{2}$ miles northwest of Cisco.		
Brown clay- - - - -	3	3
White caliche - - - - -	5	8
Limestone- - - - -		8
Water sample collected. May 3, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 4</u>		
Level land, north side of State Highway 23,, 5 $\frac{1}{2}$ miles northwest of Cisco.		
Red sand- - - - -	3	3
Yellow sandy clay - - - - -	4	7
Blue clay- - - - -	1	8
Red clay- - - - -	5	13
Yellow clay- - - - -	3	16
Limestone- - - - -		16
No water sample collected. May 4, 1937		

	Thickness (feet)	Depth (feet)
<u>Well 5</u>		
Level land, east side State Highway 23, 4 $\frac{3}{4}$ miles north of Cisco.		
Brown clay- - - - -	4	4
Blue shale- - - - -	4	8
Limestone- - - - -		8
No water sample collected. May 3, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 7</u>		
Level land, north side U. S. Highway 80, 4 miles east of Cisco.		
Brown clay- - - - -	6	6
Yellow clay- - - - -	1	7
Limestone- - - - -		7
No water sample collected. May 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 10</u>		
Level land, 1,000 feet north of T. & P. R.R. Co. tracks, east side State Highway 23, 1 mile north of Cisco.		
Yellow clay- - - - -	6	6
Blue shale- - - - -	1	7
Limestone- - - - -		7
No water sample collected. May 3, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 11</u>		
Near creek bank, north side U. S. Highway 80, 2 $\frac{1}{4}$ miles east of Cisco.		
Black clay- - - - -	3	3
Clay and gravel - - - - -	3	6
Red shale- - - - -	1	7
Yellow shale- - - - -	1	8
Limestone- - - - -		8
No water sample collected. Mar. 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 12</u>		
Hillside, north side of U. S. Highway 80, 2 $\frac{1}{4}$ miles east of Cisco.		
Black clay- - - - -	3	3
Sandy clay- - - - -	1	4
Limestone- - - - -		4
No water sample collected. Mar. 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 17</u>		
Level land, Will Pasmer tract, 1 block east of wooden overpass of railway, Cisco.		
Red clay and gravel- - - - -	3	3
Blue clay- - - - -	5	8
Yellow sandy clay- - - - -	2	10
Hard sandstone- - - - -		10
No water sample collected. Mar. 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 18</u>		
Level land, east side of U. S. Highway 80, at Cisco city limits, $\frac{3}{4}$ miles west of Cisco.		
Black clay- - - - -	3	3
Yellow clay- - - - -	2	5
Red clay- - - - -	4	9
Blue clay- - - - -	4	13
Yellow clay- - - - -	3	16
No water sample collected. Mar. 31, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 19</u>		
Near railway crossing of creek, north side U. S. Highway 80, 2 $\frac{3}{4}$ miles west of Cisco.		
Brown materials- - - - -	2	2
Black clay- - - - -	3	5
Light brown clay- - - - -	2	7
Red gravel and sand- - - - -	1	8
Red gravel and clay- - - - -	1	9
Struck water at 6.2 feet.		
Water level 4.4 feet below top of ground 2 hours after hole completed.		
Water sample collected. Mar. 31, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 20</u>		
Level land, north side of U. S. Highway 80, 5 miles west of Cisco.		
Black shale- - - - -	4	4
Sandy clay- - - - -	6	10
Limestone- - - - -		10
No water sample collected. Mar. 31, 1937.		

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 22

Level land, north side of U. S. Highway 80, at Callahan-Eastland County line, 7 miles west of Cisco.
 Black clay- - - - - 3 | 3
 Light-brown clay- - - - - 3 | 6
 Yellow sandy clay- - - - - 2 | 8
 Blue shale- - - - - 1 | 9
 Struck water at 6.3 feet.
 Water level, 4.7 feet below top of ground, 1 hour after hole completed.
 No water sample collected. Mar. 31, 1937.

Well 25

Gently sloping hillside, north side State Highway 23, at south city limits of Cisco, 1 mile southeast of Cisco.
 Yellow clay- - - - - 3 | 3
 Gray shale- - - - - 1 | 4
 Gray sand- - - - - 1 | 5
 Red sandstone- - - - - 4 | 9
 Yellow sandstone - - - - - 2 | 11
 White packed sand- - - - - 1 | 12
 Yellow sand- - - - - 3 | 15
 No water sample collected. Apr. 1, 1937.

Well 29

Bottom of dry creek bed, Mrs. Lillie Baugh tract, SE $\frac{1}{4}$ sec. 26, blk. 3, H. & T. C. R.R. Co., Survey, 4 $\frac{1}{2}$ miles southeast of Cisco.
 Gravel and clay- - - - - 3 | 3
 Gravel and blue clay- - - - - 1 | 4
 Blue shale- - - - - 1 | 5
 Packed sand- - - - - 1 | 6
 Blue shale- - - - - 6 | 12
 No water sample collected. Mar. 5, 1937.

Well 30

Hilltop, Mrs. Lillie Baugh tract, SE $\frac{1}{4}$ sec. 26, blk.3, H. & T. C. R.R. Co., Survey, 4 $\frac{3}{4}$ miles southeast of Cisco.
 Red gravel and clay- - - - - 12 | 12
 Packed sand- - - - - 3 | 15
 Water sand- - - - - 6 | 21
 Red shale- - - - - 1 | 22
 Struck water at 19.6 feet.
 Water level, 18.8 feet below top of ground, 2 hours after hole completed.
 Water sample collected. May 5, 1937.

Well 31

Level land, Mrs. Lillie Baugh tract, SE $\frac{1}{4}$ sec.26, blk.3, H. & T. C. R.R. Co. Survey, 4 $\frac{3}{4}$ miles southeast of Cisco.
 Red sandy clay- - - - - 2 | 2

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 31--Continued

Yellow rocky clay- - - - - 2 | 4
 Blue clay- - - - - 1 | 5
 Yellow sandy gravel- - - - - 1 | 6
 Red sandy gravel- - - - - 1 | 7
 Gravel and sand- - - - - 1 | 8
 Yellow sand- - - - - 2 | 10
 Packed sand- - - - - 1 | 11
 Blue shale- - - - - 2 | 13
 Sandy gravel- - - - - 1 | 14
 Water sand- - - - - 1 | 15
 Yellow sand- - - - - .6 | 21
 Blue shale- - - - - 1 | 22
 Struck water at 14.4 feet.
 Water level, 11.0 feet below top of ground, 4 hours after hole completed.
 Water sample collected. May 5, 1937.

Well 33

Level land, west side State Highway 23, 4 miles south of Cisco.
 Dark-colored clay- - - - - 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$
 Red clay- - - - - 8 | 9 $\frac{1}{2}$
 Blue clay- - - - - 2 $\frac{1}{2}$ | 12
 Hard sandstone - - - - - 1 $\frac{1}{2}$ | 12 $\frac{1}{2}$
 No water sample collected. Apr. 1, 1937.

Well 50

Gently sloping hillside, west side State Highway 23, 6 $\frac{1}{2}$ miles south of Cisco.
 Sandy clay- - - - - 1 $\frac{1}{2}$ | 1 $\frac{1}{2}$
 Red clay- - - - - 11 $\frac{1}{2}$ | 13
 Blue clay- - - - - 1 $\frac{1}{2}$ | 14 $\frac{1}{2}$
 Limestone- - - - - - | 14 $\frac{1}{2}$
 No water sample collected. Apr. 1, 1937.

Well 56

Gently sloping terrace, west side State Highway 23, 9 $\frac{1}{2}$ miles south of Cisco.
 Red clay- - - - - 2 $\frac{1}{2}$ | 2 $\frac{1}{2}$
 Yellow clay- - - - - 1 $\frac{1}{2}$ | 3
 White caliche- - - - - 1 | 4
 Light-brown shale- - - - - 9 | 13
 Red shale- - - - - 5 | 18
 Blue shale- - - - - 11 $\frac{1}{2}$ | 19 $\frac{1}{2}$
 No water sample collected. Apr. 1, 1937.

Well 60

Gently sloping hillside, west side State Highway 23, 11 $\frac{1}{2}$ miles south of Cisco.
 White sand- - - - - 2 | 2
 Yellow clay- - - - - 2 | 4
 Pink sandy clay- - - - - 5 | 9
 Struck water at 6 feet.
 Water level, 5.2 feet below top of ground, 3 hours after hole completed.
 No water sample collected. Apr. 5, 1937.

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 76

Level land near small draw, north side State Highway 206, at Eastland-Callahan County line, 18 miles southwest of Cisco.

Dark-colored sandy materials	2½	2½
Black sand- - - - -	3½	6
White sand- - - - -	9	15

Struck water at 5 feet.
Water level 3 feet below top of ground, 1 hour after hole completed.
Water sample collected. Apr. 5, 1937.

Well 82

Level land, east side State Highway 206, in town of Pioneer across highway from Pioneer brick school building, 18½ miles south of Cisco.

Yellow sandy clay- - - - -	3½	3½
Blue shale- - - - -	2½	7
Yellow sand- - - - -	2	9
Blue shale- - - - -	2½	11½

No water sample collected. Apr. 5, 1937.

Well 93

Level land, north side State Highway 206, half way between Rising Star and Pioneer, 18½ miles south of Cisco.

White sand- - - - -	2	2
Red shale- - - - -	5½	7½
Hard packed sand- - - - -	10½	18

Well 98

Level land near deep ditch, north side State Highway 206, 5 blocks west of center of Rising Star, 18½ miles south of Cisco.

Black sandy materials- - - -	5	5
Blue sandy clay- - - - -	4	9
Water sand and gravel- - - -	1	10

Struck water at 10 feet.
Water level, 7 feet below top of ground, 2 hours after hole completed.
Water sample collected. Apr. 5, 1937.

Well 99

Level land, west side State Highway 23, at Brown-Eastland County line, 1 mile south of Rising Star, 19½ miles south of Cisco.

Light-brown clay- - - - -	3	3
Yellow sandy clay- - - - -	4	7
Blue sandy clay- - - - -	4	11
White packed sandy clay- -	9	20

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 99--Continued

Struck water at 20 feet.
Water level, 19.7 feet below top of ground, 3 hours after hole completed.
Water sample collected. Apr. 2, 1937.

Well 104

Near creek NW¼NW¼ sec. 13, B.B.B. & C. R.R. Co. Survey, north side of road, ¾ mile east of Rising Star, 18½ miles south of Cisco.

Black sandy materials- - - -	3½	3½
Yellow clay- - - - -	1½	5
White clay- - - - -	6	11

Struck water at 5 feet.
Water level, 2 feet below top of ground, 1 hour after completed.
Water sample collected. May 29, 1937.

Well 107

Hilltop, north side of Okra-Rising Star road, SE¼SE¼ sec. 9, blk. 2, H. & T. C. R.R. Co. Survey, 18½ miles south of Cisco.

White sand- - - - -	3	3
Red clay- - - - -	3	6
Yellow clay- - - - -	2	8
White sand- - - - -	5½	13½
Rock- - - - -	-	13½

No water sample collected. May 29, 1937.

Well 110

Level land, west side State Highway 23, 1 mile north of Rising Star, 17 miles south of Cisco.

Red clay- - - - -	4	4
Blue clay- - - - -	1½	5½
Rock- - - - -	-	5½

No water sample collected. Apr. 2, 1937.

Well 115

Level land, west side State Highway 23, about 4 miles north of Rising Star, 14½ miles south of Cisco.

Sand- - - - -	1½	1½
Sandy clay- - - - -	2½	4
Yellow sandy clay- - - - -	3	7
Rock- - - - -	-	7

Struck water at 6 feet.
Water level, 5.5 feet below top of ground, 4 hours after hole completed.
Water sample collected. Apr. 2, 1937.

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 202</u>		
Level land, east side State Highway 67, near Eastland-Stephens County line, 8 miles northwest of Cisco.		
Yellow clay-	3 $\frac{1}{2}$	3 $\frac{1}{2}$
Blue clay-	2 $\frac{1}{2}$	6
Red shale-	1 $\frac{1}{2}$	7 $\frac{1}{2}$
Blue shale-	2 $\frac{3}{8}$	10
Red sandy shale-	4	14
Limestone-		14
No water sample collected. Mar. 27, 1937.		

<u>Well 203</u>		
Gently sloping terrace, east side State Highway 67, 7 $\frac{1}{2}$ miles northwest of Cisco.		
Brown clay-	4	4
Yellow shale-	2	6
Rock-		6
No water sample collected. Mar. 27, 1937.		

<u>Well 207</u>		
Gently sloping hillside, north side State Highway 67, 6 miles northwest of Cisco.		
Red sand-	2	2
Black clay-	1 $\frac{1}{2}$	3 $\frac{1}{2}$
Yellow clay-	3	6 $\frac{1}{2}$
Blue shale-	10 $\frac{1}{2}$	17
No water sample collected. Mar. 27, 1937.		

<u>Well 209</u>		
Level land, C. J. Mansker tract, SE $\frac{1}{2}$ SE $\frac{1}{2}$ sec.33, blk.4, H. & T. C. R.R. Co. Survey, 3 $\frac{3}{4}$ miles northwest of Cisco.		
Yellow clay-	6	6
Yellow sandy clay-	3	9
Sand rock-	6	15
Hard packed sand-	2 $\frac{1}{2}$	17 $\frac{1}{2}$
No water sample collected. May 8, 1937.		

<u>Well 210</u>		
Level land, C. J. Mansker tract, SE $\frac{1}{2}$ SE $\frac{1}{2}$ sec. 33, blk.4, H. & T. C. R.R. Co. Survey, 3 $\frac{3}{4}$ miles northwest of Cisco.		
Yellow clay-	2	2
Gravel-	1	3
Blue clay-	3	6
No water sample collected. May 8, 1937.		

<u>Well 212</u>		
Gently sloping hillside, north side State Highway 67, 4 $\frac{3}{4}$ miles north of Cisco.		
Surface materials-	1	1
Blue sandy shale-	1	2
Blue shale-	2 $\frac{1}{2}$	4 $\frac{1}{2}$
Red sand-	5	9 $\frac{1}{2}$

	Thickness (feet)	Depth (feet)
<u>Well 212--Continued</u>		
Sandy clay-	1 $\frac{1}{2}$	10
Red sand-	1 $\frac{1}{2}$	11 $\frac{1}{2}$
White sand-	3 $\frac{1}{2}$	15
No water sample collected. Mar. 26, 1937.		

<u>Well 216</u>		
Gently sloping hillside, east side State Highway 67, 4 $\frac{3}{4}$ miles north of Eastland.		
Black surface materials-	4	4
Yellow clay-	1	5
Limestone-		5
No water sample collected. Mar. 26, 1937.		

<u>Well 217</u>		
Hillside, east side State Highway 67, 3 $\frac{3}{4}$ miles north of Eastland.		
Black surface materials-	4	4
Yellow clay-	1 $\frac{1}{2}$	4 $\frac{1}{2}$
Limestone-		4 $\frac{1}{2}$
No water sample collected. Mar. 26, 1937.		

<u>Well 218</u>		
Gently sloping hillside, east side State Highway 67, 3 $\frac{3}{4}$ miles north of Eastland.		
Surface materials-	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Black clay-	2 $\frac{1}{2}$	4
Limestone-		4
No water sample collected. Mar. 26, 1937.		

<u>Well 219</u>		
Gently sloping hillside, east side State Highway 67, 3 $\frac{3}{4}$ miles north of Eastland.		
Red clay-	2	2
Yellow clay-	4	6
Red sand-	2	8
Rock-		8
Struck water at 8.7 feet.		
Water level, 6.5 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Mar. 26, 1937.		

<u>Well 221</u>		
Level land, south side State Highway 80, 4 $\frac{1}{2}$ miles north of Eastland.		
Brown sand-	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Red clay-	1	2 $\frac{1}{2}$
Limestone and gravel-	8	10 $\frac{1}{2}$
Yellow sand and gravel-	3 $\frac{1}{2}$	14
Struck water at 6.8 feet.		
Water level, 4.1 feet below top of ground, 5 hours after hole completed.		
Water sample collected. May 4, 1937.		

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 224</u>		
Level land, south side State Highway 80, 5½ miles northeast of Eastland.		
Yellow gravel and clay- - - - -	1½	1½
Sandy gravel- - - - -	7½	8
Gravel- - - - -	3	11
Blue shale - - - - -	1½	12½
Rock- - - - -		12½
No water sample collected. May 4, 1937.		

<u>Well 232</u>		
Level land, south side U. S. Highway 80, 7 miles northeast of Eastland.		
Rocky clay- - - - -	3	3
Yellow sandy clay- - - - -	1	4
Rock- - - - -		4
No water sample collected. May 4, 1937.		

<u>Well 236</u>		
Level land, south side U. S. Highway 80, east part of town of Olden, 4 miles east of Eastland.		
Sand- - - - -	1½	1½
Yellow sandy clay- - - - -	3	4½
Sandy gravel- - - - -	4½	9
Rock- - - - -		9
Struck water at 7 feet.		
Water level 7.9 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Apr. 6, 1937.		

<u>Well 242</u>		
Level land, south side U. S. Highway 80, 3 miles east of Eastland.		
Soil and red gravel- - - - -	2½	2½
Yellow gravel and clay - - - - -	1½	4
Red clay and gravel- - - - -	3	7
Yellow sandy clay- - - - -	3	10
Hard packed sand- - - - -	6	16
No water sample collected. Apr. 6, 1937.		

<u>Well 243</u>		
Level land, at bridge over Leon Creek, south side county road from Eastland to Staff, 2 miles east of Eastland.		
Yellow sand- - - - -	1	1
Black clay- - - - -	1	2
Light-brown clay- - - - -	3	5
Blue shale- - - - -	2	7
Yellow sand- - - - -		7
Struck water at 7½ feet.		
Water level, 5.8 feet below top of ground, 4 hours after hole completed.		
Water sample collected. Apr. 29, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 244</u>		
Level land, south side county road from Eastland to Staff, NE¼ sec. 4, E. T. R.R. Co. Survey, 3½ miles east of Eastland.		
Sand- - - - -	1	1
Red clay- - - - -	1½	2½
Yellow sandy clay- - - - -	3½	6
Red packed sand- - - - -	2	8
Blue shale- - - - -	2	10
No water sample collected. Apr. 29, 1937.		

<u>Well 247</u>		
Level land, south side county road from Eastland to Staff, at Union School near dry creek, 5 miles east of Eastland.		
Sandy gravel- - - - -	3	3
Blue clay- - - - -	2	5
Yellow sandy gravel- - - - -	5	10
Blue clay- - - - -	4	14
Rock- - - - -		14
Struck water at 5 feet.		
Water level, 3 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Apr. 29, 1937.		

<u>Well 249</u>		
Level land, west side State Highway 67, 1¼ miles southwest of Eastland.		
Black surface materials- - - - -	4	4
Dark-colored clay- - - - -	4	8
Yellow sandy clay- - - - -	6	14
Struck water at 14 feet.		
Water level, 11.5 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Apr. 9, 1937.		

<u>Well 250</u>		
Level land, at City Pound, Eastland.		
Surface materials- - - - -	5	5
Yellow sand and gravel- - - - -	10	15
Blue clay- - - - -	2	17
Struck water at 6 feet.		
Water level, 6 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Mar. 25, 1937.		

<u>Well 251</u>		
Level land, at City Pound, Eastland.		
Red sandy clay- - - - -	5	5
Black clay- - - - -	2	7
Yellow clay and gravel - - - - -	5	12
Struck water at 5 feet.		
Water level, 4 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Mar. 25, 1937.		

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 252

Level land, at City Pound, Eastland.

Black materials- - - - -	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Brown clay- - - - -	1 $\frac{1}{2}$	3
Yellow sandy clay- - - - -	2 $\frac{1}{2}$	5 $\frac{1}{2}$
Red sand- - - - -	9 $\frac{1}{2}$	15

Struck water at 9 feet.
Water level, 5 feet below top of ground,
2 hours after hole completed.
Water sample collected. Mar. 25, 1937.

Well 253

Level land, 200 feet west of railway track,
south side U. S. Highway 80, $\frac{1}{4}$ mile east
of Eastland.

Red clay- - - - -	9	9
Gravel and sand- - - - -	5	14

Struck water at 9 feet.
Water level, 6 feet below top of ground,
4 hours after hole completed.
Water sample collected. Apr. 22, 1937.

Well 255

Level land, 100 feet south of T. & P. R.R.
Co., depot at Eastland.

Black sandy clay- - - - -	9	9
White sand and gravel water- - - - -	8	17

Struck water at 9 feet.
Water level, 6 feet below top of ground,
2 hours after hole completed.
Water sample collected. Apr. 20, 1937.

Well 256

Level land, west side State Highway 67,
in front of colored Methodist church,
1,000 feet north of T. & P. R.R. Co.,
depot at Eastland.

Brown sandy materials- - - - -	6	6
Black sandy clay- - - - -	3	9
Brown sand and clay, water - - - - -	2	11

Struck water at 11 feet.
Water level, 9 feet below top of ground,
4 hours after hole completed.
Water sample collected. Apr. 21, 1937.

Well 257

Gently sloping hillside, east side State
Highway 67, 1 $\frac{3}{4}$ miles north of Eastland.

Red clay- - - - -	2	2
Yellow shale- - - - -	1	3
Limestone- - - - -		3

No water sample collected. Mar. 26, 1937.

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 258

Near small draw, east side State Highway
67, 1 $\frac{3}{4}$ miles north of Eastland.

Yellow clay- - - - -	11	11
Limestone- - - - -		11

Well 259

Gently sloping hillside, east side State
Highway 67, 1 $\frac{3}{4}$ miles north of Eastland.

Yellow shale- - - - -	15	15
Rock- - - - -		15

No water sample collected. Mar. 26, 1937.

Well 260

Level land, inside old night club build-
ing, south side U. S. Highway 80, 2 miles
west of Eastland.

Yellow clay- - - - -	3	3
Blue clay- - - - -	9	12
Limestone- - - - -		12

Struck water at 8 feet.
Water level, 6 feet below top of ground,
3 hours after hole completed.
Water sample collected. Mar. 29, 1937.

Well 261

Gently sloping hillside, north side U. S.
Highway 80, 4 miles west of Eastland.

Red sand- - - - -	5	5
Blue shale- - - - -	2	7
Yellow shale- - - - -	3	10
Blue shale- - - - -	4	14
Hard sandstone- - - - -		14

No water sample collected. Mar. 30, 1937.

Well 264

Level land near bank of dry creek, C. C.
Street tract, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 45, blk. 4, H. & T.
C. R.R. Co., Survey, 4 miles west of
Eastland.

Brown sandy clay- - - - -	10	10
Gravel and yellow sand- - - - -	4	14

Struck water at 10.3 feet.
Water level, 8.2 feet below top of ground,
2 hours after hole completed.
Water sample collected. May 6, 1937.

Well 265

Level land near bank of dry creek, C. C.
Street tract, SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 45, blk. 4, H.
& T. C. R.R. Co. Survey, 3 $\frac{3}{4}$ miles west
of Eastland.

Black sandy soil- - - - -	10	10
Sandy gravel- - - - -	1 $\frac{1}{2}$	11 $\frac{1}{2}$
Clay- - - - -	3 $\frac{1}{2}$	15

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 265--Continued</u>		
Struck water at 9.9 feet.		
Water level, 8.5 feet below top of ground, 1 hour after hole completed.		
Water sample collected. May 6, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 266</u>		
Level land near bank of dry creek, C. C. Street tract, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 45, blk. 4, H. & T. C. R.R. Co. Survey, 3 $\frac{3}{4}$ miles west of Eastland.		
Brown sandy clay-	7	7
Red sandy clay-	3	10
Gravel and sand-	2 $\frac{1}{2}$	12 $\frac{1}{2}$
Yellow sandy clay-	1 $\frac{1}{2}$	14
Struck water at 12 $\frac{1}{2}$ feet.		
Water level, 11.6 feet below top of ground, 1 hour after hole completed.		
Water sample collected. May 6, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 269</u>		
Level land near dry creek, 1,000 feet north of Grapevine School, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, blk. 3, H. & T. C. R.R. Co. Survey, 4 $\frac{3}{4}$ miles southwest of Eastland.		
Black surface materials-	5	5
Sand and gravel-	5	10
No water sample collected. June 2, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 272</u>		
Level land, west side State Highway 67, 2 $\frac{3}{4}$ miles south of Eastland.		
Light-colored fine-grained sand and yellow clay-		
	1	1
Clay and gravel-	3	4
Light-colored sand-	6 $\frac{1}{2}$	10 $\frac{1}{2}$
Water sand-	3 $\frac{1}{2}$	14
Struck water at 14 feet.		
Water level, 13.6 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Apr. 9, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 297</u>		
Gently sloping hillside, west side State Highway 67, 4 $\frac{3}{4}$ miles south of Eastland.		
White fine-grained sand-	4 $\frac{1}{2}$	4 $\frac{1}{2}$
Red sand-	6 $\frac{1}{2}$	11
White gravel and sand-	8	19
Struck water at 8 feet.		
Water level, 4.6 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Apr. 26, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 306</u>		
Level sandy land, west side State Highway 67, 6 $\frac{1}{2}$ miles south of Eastland.		
White sand-	3	3
Sandy clay-	2	5
Brown packed sand-	4 $\frac{1}{2}$	9 $\frac{1}{2}$
White sand-	6 $\frac{1}{2}$	16
Struck water at 12 feet.		
Water level, 10.9 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Apr. 26, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 314</u>		
Level land near dry creek bed, southeast of M. K. & T. R.R. Co. depot at Mangum, south side of county road, going east from Mangum, 5 $\frac{1}{2}$ miles south of Eastland.		
Black sandy materials-	3	3
Yellow gravel and clay-	1 $\frac{1}{2}$	4 $\frac{1}{2}$
Brown sand-	6	10 $\frac{1}{2}$
Blue shale-	1 $\frac{1}{2}$	12
Struck water at 10 $\frac{1}{2}$ feet.		
Water level, 8.4 feet below top of ground, 1 hour after hole completed.		
Water sample collected. June 2, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 316</u>		
Level land, bank of Leon River, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20, blk. 3, H. & T. C. R.R. Co. Survey, 7 miles southwest of Eastland.		
Black sandy clay-	11	11
Sandy gravel-	1	12
Blue sandy clay-	3 $\frac{1}{2}$	15 $\frac{1}{2}$
Packed sand-	1 $\frac{1}{2}$	17
Sand-	1	18
Struck water at 13 feet.		
Water level, 12.7 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Water sample collected. June 2, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 407</u>		
Level land, west side State Highway 67, north side M. K. & T. R.R. Co. tract at Carbon, 9 $\frac{1}{2}$ miles northwest of Gorman.		
Yellow sand-	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Yellow sandy clay-	3 $\frac{1}{2}$	5
Brown sandy clay-	4 $\frac{1}{2}$	9 $\frac{1}{2}$
White packed sand-	4 $\frac{1}{2}$	14
Blue shale-	5	19
No water sample collected. Apr. 26, 1937.		

Logs of W. P. A. test well in Eastland County--Continued

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 411

Level land, 1.1 mile southwest of Carbon, north side of Okra-Carbon county road, 10 miles west of Gorman.

Yellow sandy clay-	7½	7½
Yellow sand-	2½	10
White sand-	7	17
White sand and gravel-	4	21

Struck water at 17 feet.

Water level, 13.9 feet below top of ground, 1 hour after hole completed.

Water sample collected. May 28, 1937.

Well 416

Level land, west side Okra-Carbon county road, 10 miles west of Gorman.

Red sandy clay-	2	2
Red shale-	2	5
White caliche-	5	10
Gravel and sand, water	1	11
Blue clay-		11

Struck water at 4 feet.

Water level, 3 feet below top of ground 2 hours after hole completed.

Water sample collected. May 28, 1937.

Well 421

Level land, south bank Sabana Creek, west side of Okra-Carbon road, 10½ miles west of Gorman.

Sand-	4½	4½
Gray clay-	2½	7
Rock-		7

No water sample collected. May 27, 1937.

Well 422

Gently sloping hillside, south side State Highway 67, NE¼SE¼ sec. 21, blk. 2, H. & T. C. R.R. Co. Survey, 8 miles west of Gorman.

Yellow sandy clay-	1	1
Red sandy clay-	3	4
White sand rock-	6	10
Hard sandstone-		10

No water sample collected. Apr. 26, 1937.

Well 425

Gently sloping hillside, south side State Highway 67, 6 miles west of Gorman.

Brown clay-	4½	4½
Pink gravel and clay-	3	7½
Rock-		7½

No water sample collected. Apr. 27, 1937.

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 427

Level hilltop, south side State Highway 67, 3¼ miles west of Gorman.

Bluish-red gravel-	4½	4½
Blue shale-	1½	5
Red shale-	5½	10½
Yellow sand rock-	4	14½

No water sample collected. Apr. 27, 1937.

Well 428

Level land, south side State Highway 67, 2¼ miles west of Gorman.

Clay-	1	1
Caliche-	3½	4½
Blue shale-	1	5½
Red shale-	1	6½

No water sample collected. Apr. 27, 1937.

Well 432

Gently sloping hillside, south side State Highway 67, ¼ mile southwest of Gorman.

Red sandy clay-	3	3
Blue sandy clay-	4	7
Rock-	4	11

No water sample collected. Apr. 27, 1937.

Well 438

Hilltop, south side Gorman-Desdemona paved road, 2 miles northeast of Gorman.

Red sandy clay-	4	4
Red sand-	4	8

No water sample collected. Apr. 29, 1937.

Well 453

Level land, south side Gorman-Desdemona paved road, 3¾ miles northeast of Gorman.

Red sandy clay-	6	6
Hard packed sand-	6½	12½

No water sample collected. Apr. 28, 1937.

Well 455

Hilltop, south side Staff-Desdemona road, northeast corner Abraham Smelzer Survey, 6 miles northeast of Gorman.

Blue sandy clay-	2	2
Red clay-	8	10

No water sample collected. Apr. 30, 1937.

Well 456

Steep hillside, south side Gorman-Desdemona road, 5½ miles northeast of Gorman.

Red sandy clay-	1	1
Sand rock-	4	5
Blue sandy shale-	1½	6½
Hard rock-		6½

No water sample collected. Apr. 28, 1937.

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 459

Steep hillside just west of Hogg Creek and near west approach to creek bridge, $7\frac{1}{2}$ miles northeast of Gorman.

Sandy clay-	5	5
Black clay-	2	7
Red sandy clay-	4	11
White sand-	3	14
Sand and gravel, water-	1	15

Struck water at $14\frac{1}{2}$ feet.

Water level, 12.6 feet below top of ground, 2 hours after hole completed.

Water sample collected. Apr. 28, 1937.

Well 489

Level land near south bank of Elm Creek, west side Carbon-Okra road, 12 miles west of Gorman.

Brown clay-	3	3
Gray shale-	2	5
Limestone-		5

No water sample collected. May 28, 1937.

Well 491

Level land, at Okra, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, blk. 2, H. & T. C. R.R. Co. Survey, $12\frac{1}{2}$ miles west of Gorman.

White caliche-	$3\frac{1}{2}$	$3\frac{1}{2}$
Yellow clay-	1	$4\frac{1}{2}$
White caliche-	5	$9\frac{1}{2}$
Limestone-		$9\frac{1}{2}$

No water sample collected. May 29, 1937.

Well 493

Level land, SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, blk. 2, H. & T. C. R.R. Co. Survey, 13 miles southwest of Gorman.

Red sand-	1	1
Red sandy clay-	$2\frac{1}{2}$	$3\frac{1}{2}$
Yellow sandy clay-	$1\frac{1}{2}$	5
Caliche and rock-	$7\frac{1}{2}$	$12\frac{1}{2}$

No water sample collected. May 29, 1937.

Well 497

Gently sloping hillside, SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, blk. 2, H. & T. C. R.R. Co. Survey, 14 miles southwest of Gorman.

Red clay-	$2\frac{1}{2}$	$2\frac{1}{2}$
Red sand-	2	$4\frac{1}{2}$
Blue shale-	$4\frac{1}{2}$	9
Limestone-		9

Water sample collected. May 29, 1937.

	Thickness (feet)	Depth (feet)
--	---------------------	-----------------

Well 500

Gently sloping land, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7 blk. 2 H. & T. C. R.R. Co. Survey, 15 miles southwest of Gorman.

White sandy clay-	5	5
Yellow sand-	1	6
Red shale-	$3\frac{1}{2}$	$9\frac{1}{2}$

Struck limestone rock at $9\frac{1}{2}$ feet.

No water sample collected. May 29, 1937.

Well 602

Hilltop, east side of Caddo-Ranger road, at Stephens-Eastland county line, $2\frac{3}{4}$ miles north of Ranger.

Brown sand and grave-	$3\frac{1}{2}$	$3\frac{1}{2}$
Limestone-		$3\frac{1}{2}$

No water sample collected. May 31, 1937.

Well 604

Gently sloping hillside near dry creek, east side of Caddo-Ranger road, $2\frac{1}{4}$ miles north of Ranger.

Blue shale-	$6\frac{1}{2}$	$6\frac{1}{2}$
White sand and small sand gravel-	1	$7\frac{1}{2}$
Yellow clay and limestone-	$3\frac{1}{2}$	11

No water sample collected. May 31, 1937.

Well 607

Gently sloping hillside, east side of Caddo-Ranger road, $1\frac{3}{4}$ miles north of Ranger.

Black surface materials-	5	5
Yellow clay and gravel-	$\frac{1}{2}$	$5\frac{1}{2}$
Limestone-		$5\frac{1}{2}$

No water sample collected. May 31, 1937.

Well 609

Level land near draw, east side Caddo-Ranger road, $1\frac{1}{2}$ miles north of Ranger.

Black clay-	4	4
Sandy clay and small-sized gravel-	$7\frac{1}{2}$	$11\frac{1}{2}$
Yellow sand, water-		$11\frac{1}{2}$

Struck water at 11 feet.

Water level, 9.3 feet below top of ground, 2 hours after hole completed.

Water sample collected. May 31, 1937.

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 614</u>		
Level land, south side Ranger-Morton Valley road, $1\frac{1}{4}$ miles west of Ranger.		
Red sandy clay- - - - -	4	4
Grayish-red sandy clay- - -	$8\frac{1}{2}$	$12\frac{1}{2}$
Yellow and white packed sand	2	$14\frac{1}{2}$
White gravel and sand- - - -	$5\frac{1}{2}$	20
Struck water at $19\frac{1}{2}$ feet.		
Water level, 18.1 feet below top of ground, 2 hours after hole completed.		
Water sample collected. May 4, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 615</u>		
Gently sloping hillside, south side U. S. Highway 80, 3 miles southwest of Ranger.		
Black clay- - - - -	$3\frac{1}{2}$	$3\frac{1}{2}$
Sandy clay- - - - -	$7\frac{1}{2}$	11
Blue sandy shale- - - - -	$1\frac{1}{2}$	$11\frac{1}{2}$
Gravel, water- - - - -	$3\frac{1}{2}$	15
Struck water at 9 feet.		
Water level, 8.3 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Apr. 6, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 619</u>		
Level land, south side U. S. Highway 80, 1 mile southwest of Ranger.		
Red clay- - - - -	1	1
Yellow clay- - - - -	10	11
Rock- - - - -		11
No water sample collected. Apr. 6, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 620</u>		
Level land, south side U. S. Highway 80, opposite T. & P. R.R. Co. depot at Ranger.		
Blue clay- - - - -	6	6
Blue sandy shale- - - - -	8	14
Struck water at $5\frac{1}{2}$ feet.		
Water level, 3.3 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Apr. 6, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 622</u>		
Level land, east side Caddo-Ranger road, $\frac{1}{2}$ mile northwest of Ranger.		
Brown clay- - - - -	4	4
Yellow clay- - - - -	5	9
Blue shale- - - - -	$\frac{1}{2}$	$9\frac{1}{2}$
Limestone- - - - -		$9\frac{1}{2}$
No water sample collected. May 31, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 627</u>		
Level land, south side U. S. Highway 80, 2 miles east of Ranger.		
Black clay- - - - -	1	1
Yellow clay- - - - -	$2\frac{1}{2}$	$3\frac{1}{2}$
Rock- - - - -		$3\frac{1}{2}$
No water sample collected. Apr. 7, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 630</u>		
Gently sloping hillside, south side U. S. Highway 80, 6 miles east of Ranger.		
Brown clay- - - - -	1	1
Red clay and white shale- -	$3\frac{1}{2}$	$4\frac{1}{2}$
Red shale- - - - -	$4\frac{1}{2}$	9
No water sample collected. Apr. 7, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 631</u>		
Gently sloping land, south side U. S. Highway 80, 8 miles east of Ranger.		
Black soil- - - - -	$3\frac{1}{2}$	$3\frac{1}{2}$
Yellow clay and gravel- - -	$4\frac{1}{2}$	8
Sandy clay- - - - -	$4\frac{1}{2}$	$12\frac{1}{2}$
Limestone- - - - -		$12\frac{1}{2}$
No water sample collected. Apr. 4, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 632</u>		
Level land, east side U. S. Highway 80, at Eastland-Palo Pinto county line, $11\frac{1}{2}$ miles east of Ranger.		
Sandy clay- - - - -	2	2
Blue clay- - - - -	$1\frac{1}{2}$	$3\frac{1}{2}$
Limestone- - - - -		$3\frac{1}{2}$
No water sample collected. Apr. 8, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 633</u>		
Level land, south side U. S. Highway 80, 11 miles east of Ranger.		
Red surface materials- - -	$3\frac{1}{2}$	$3\frac{1}{2}$
Packed sand- - - - -	$7\frac{1}{2}$	11
Yellow clay- - - - -	2	13
No water sample collected. Apr. 8, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 643</u>		
Gently sloping hillside, southwest part of David S. Richardson Survey, south side of Staff-Desdemona road, 11 miles south of Ranger.		
Red clay- - - - -	$2\frac{1}{2}$	$2\frac{1}{2}$
Sandy gravel- - - - -	$4\frac{1}{2}$	7
Blue clay- - - - -	2	9
Sandy clay- - - - -	2	11
Hard red clay- - - - -		11
Struck water at 4 feet.		
Water level, 4 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Apr. 30, 1937.		

Logs of W. P. A. test wells in Eastland County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 648</u>		
Level land, McLennan County School Land, south side Staff-Desdemona road, at Mansco Lake, 10 miles south of Ranger.		
Black sandy clay- - - - -	12 $\frac{1}{2}$	12 $\frac{1}{2}$
Black clay and gravel- - -	6	18 $\frac{1}{2}$
No water sample collected. Apr. 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 652</u>		
Level land, SE $\frac{1}{4}$ Harvey Kendrick Survey, 1 mile east of Triumph School, south side of Staff-Desdemona road, 9 miles south of Ranger.		
Black clay- - - - -	4 $\frac{1}{2}$	4 $\frac{1}{2}$
Blue shale- - - - -	8	12 $\frac{1}{2}$
Rock- - - - -		12 $\frac{1}{2}$
No water sample collected. May 1, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 654</u>		
Level land, Harvey Kendrick Survey, 2 miles southeast of Triumph School, 9 $\frac{1}{2}$ miles south of Ranger.		
Brown sand- - - - -	3	3
Broken sandy clay- - - - -	1	4
Yellow sandy clay- - - - -	5	9
Grayish-yellow shale- - - -	4	13
No water sample collected. May 7, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 655</u>		
Gently sloping land, A. R. Lawrence tract, southwest of Triumph School, Harvey Kendrick Survey, 9 $\frac{1}{2}$ miles south of Ranger.		
Brown sand- - - - -	2	2
White caliche- - - - -	2	4
Red sand- - - - -	2	6
No water sample collected. May 7, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 656</u>		
Level land, Mrs. A. R. Lawrence tract, Harvey Kendrick Survey, southwest of Triumph School, 9 $\frac{1}{2}$ miles south of Ranger.		
Black clay- - - - -	4 $\frac{1}{2}$	4 $\frac{1}{2}$
Caliche- - - - -	2 $\frac{1}{2}$	7
Sandy clay- - - - -	3 $\frac{1}{2}$	10 $\frac{1}{2}$
No water sample collected. May 7, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 659</u>		
Level land, $\frac{1}{2}$ mile south of Staff, west side of county road, 8 $\frac{1}{2}$ miles south of Ranger.		
Brown sand- - - - -	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Red gravel and clay- - - - -	1 $\frac{1}{2}$	3
Yellow clay- - - - -	2 $\frac{1}{2}$	5 $\frac{1}{2}$
Red gravel and sand- - - - -	1 $\frac{1}{2}$	7
No water sample collected. Apr. 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 662</u>		
Gently sloping hillside, northeast part of McLennan County School Land, $\frac{1}{2}$ mile northwest of Staff, west side of county road, 7 $\frac{1}{2}$ miles south of Ranger.		
Blue shale- - - - -	7	7
Limestone- - - - -		7
No water sample collected. Apr. 29, 1937.		

Samples collected from streams in Eastland County, Texas

No.	Name of stream	Distance from Eastland	Location	Estimated flow in second-feet	Depth of stream (feet)
243a	Leon River	1 $\frac{5}{8}$ miles southeast	SE part sec. 14, blk. 6, E. T. R. R. Co. Sur.	5	6
315a	do.	5 $\frac{1}{2}$ miles southwest	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20, H. & T. C. R. R. Co. Sur.	5	4

No.	Name of stream	Distance from Gorman	Location	Estimated flow in second-feet	Depth of stream (feet)
454a	Leon River	4 $\frac{3}{4}$ miles northeast	Highway bridge NE $\frac{1}{4}$ DeMoss Sur.	20	1

Lakes in Eastland County, Texas

No.	Distance from Cisco	Location	Owner	Name of Lake	Catchment area	
					Area in acres	Topographic situation
5a	3 $\frac{5}{8}$ miles north	Part of secs. 495, 498, 499, 500, S.P.R.R.Co.Sur.	City of Cisco	Lake Cisco	25,600	Steep slope
88a	18 miles south	E $\frac{1}{2}$ sec. 20, blk. 2, E.T.R.R.Co.Sur.	Will Foster	Phillips Oil Co. Lake	2,560	Gently sloping hillsides

No.	Distance from Eastland	Location	Owner	Name of Lake	Catchment area	
					Area in acres	Topographic situation
203a	7 miles northeast	NW $\frac{1}{4}$ sec. 37, H.& T.C.R.R.Co.Sur.	A. L. Thorpe	Thorpe Lake	10	Gently sloping hillsides
242a	2 miles east	SE $\frac{1}{4}$ sec. 1, John House Sur.	City of Eastland	Tullos Lake	3,200	Canyon
243b	2 $\frac{1}{2}$ miles southeast	Secs. 3&13, blk. 6, E.T.R.R.Co.Sur.	Texas Electric Service Co.	Leon Lake	160,000	do.
b/256a	1 $\frac{1}{4}$ miles northwest	Part of secs. 24, 25, 26, blk. 4, H.& T.C.R.R.Co.Sur.	City of Eastland	Eastland Lake	3,840	Gently sloping hillsides
623a	2 $\frac{1}{4}$ miles northwest	Secs. 9 & 10, W. Boswell and W. C. Sypert Sur.	City of Ranger	Hagaman Lake	13,440	Canyon

a/ P, public; D, domestic; Ind, industrial; S, stock; N, not used.

Partial chemical analyses

No.	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
243a	May 25, 1937	719	84	22	147	153	156	255	299
315a	May 5, 1937	--	--	--	--	--	831	300	--

No.	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
454a	Apr. 13, 1937	--	--	--	--	--	228	800	--

J. Howard Samuell, Project Superintendent
 (Chemical analyses of water from these lakes are in the table of analyses.)

No.	Dam			Use	Remarks
	Length (feet)	Height (feet)	Material		
5a	1,500	133 $\frac{1}{2}$	Concrete	P	Sandstone, limestone, and shale bottom and sides. Water clear.
88a	1,300	28	Earth	D, Ind	Limestone sides; shale bottom. Reported fed by springs in bottom. Reported never failed since built in 1924.

No.	Dam			Use	Remarks
	Length (feet)	Height (feet)	Material		
203a	600	15	Earth	D,S	Shale bottom and sides. Water clear. Vegetation: mesquite.
242a	2,640	30	do.	N	Limestone and shale bottom and sides. Water clear. Vegetation: willow, cottonwood, and live oak.
243b	584	39	Concrete	P, Ind	Reported altitude, 1,411 feet. Water turbid. Supplies boilers only.
256a	800	40	Earth	P	Sandstone and limestone bottom and sides. Water clear. Vegetation: willow, oak, and mesquite.
623a	1,000	35	do.	P	Limestone and shale bottom and sides. Water clear. Vegetation: post oak.

b/ No water sample collected for analysis.

Partial analyses of water from wells in Eastland County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, D. F. Riddell, H. T. Davidson and Floyd H. Ward, Chemists, and J. A. Harmaza, Martin Wieland, and Jack Ramsey, Assistant Chemists. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
3	Edgar Harris	196	May 3, 1937	-	-	-	-	-	272	112	-
6	C.N. Fee	95	Apr. 9, 1937	-	-	-	-	-	468	31	-
8	C.H. Fee	100	do.	1,314	-	-	-	677	133	365	-
13	Dr. C.C. Jones	155	do.	-	-	-	-	-	89	244	-
14	Carl Kimbrough	24	May 5, 1937	-	-	-	-	-	96	160	-
15	Jess Noble	152	do.	-	-	-	-	-	395	58	-
16	W.F. Smith	149	do.	2,134	-	-	-	390	a/	1,160	-
19	W.P.A. test well	9	Mar. 31, 1937	-	-	-	-	-	1,957	1,680	-
22	do.	9	do.	-	-	-	-	-	116	26	-
23	G.M. Waters	24	May 17, 1937	503	-	-	-	329	74	82	-
24	G. Riddle	20	do.	-	-	-	-	-	67	128	-
26	R.T. Porter	48	May 10, 1937	-	-	-	-	-	79	205	-
27	R.H. Walker	62	do.	-	-	-	-	-	44	54	-
28	E.C. Duncan	170	do.	-	-	-	-	-	47	415	-
30	W.P.A. test well	22	May 5, 1937	395	-	-	-	85	64	150	-
31	do.	22	do.	155	-	-	-	55	40	34	-
32	Frank Swan	23	May 10, 1937	1,810	-	-	-	354	300	700	-
35	A.J. Olsen	19	May 17, 1937	-	-	-	-	-	245	445	-
36	W.T. Rutherford	27	do.	378	-	-	-	244	37	80	-
37	John Delaney	29	do.	-	-	-	-	-	19	37	-
38	Ingram heirs	20	do.	297	-	-	-	250	30	32	-
39	S.N. Keith	14	May 18, 1937	347	-	-	-	372	a/	27	-
40	P.B. Pardue	18	do.	-	-	-	-	-	64	94	-
41	J.R. Poplin	69	do.	-	-	-	-	-	a/	24	-
42	W.N. Compton	19	May 17, 1937	421	-	-	-	207	67	100	-
43	A.N. Simpson	90	do.	-	-	-	-	-	115	185	-
44	C.B. Cochran	22	do.	880	-	-	-	429	82	265	-
45	W.N. Hall	45	do.	-	-	-	-	-	252	265	-
46	E.P. Shaefer	41	do.	642	-	-	-	476	96	74	-
47	Frank Hagerman	163	do.	-	-	-	-	-	771	590	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
48	O.G. Reich	50	May 10, 1937	-	-	-	-	-	249	820	-
49	Howard Stephenson	94	do.	732	-	-	-	506	64	145	-
51	T.L. Lasater	31	do.	2,494	-	-	-	360	481	970	-
52	Chas. Gilbert	7	Apr. 27, 1937	-	-	-	-	-	211	160	-
53	E.L. Simms	112	do.	-	-	-	-	-	63	88	-
54	A. Rich	28	May 10, 1937	-	-	-	-	-	375	910	-
55	J.B. Webb	8	do.	-	-	-	-	-	43	52	-
57	Charles Walker	10	do.	-	-	-	-	-	43	32	-
58	S.P. Collins	8	May 14, 1937	428	-	-	-	348	19	74	-
60	W.P.A. test well	10	Apr. 2, 1937	-	-	-	-	-	136	92	-
61	W.L. Curtis	17	May 19, 1937	-	-	-	-	-	340	2,270	-
62	A.M. Townsend	58	do.	-	-	-	-	-	288	1,240	-
63	Joel Reed	18	do.	408	-	-	-	354	28	50	-
64	N.E. Mitchell	15	May 18, 1937	445	-	-	-	409	40	34	-
65	E.L. Laminack	37	do.	-	-	-	-	-	60	102	-
66	J.M. McCann	34	do.	-	-	-	-	-	43	64	-
67	First National Bank (Cross Plains, Texas)	22	do.	352	-	-	-	305	39	30	-
68	W.E. Lusk	30	do.	589	-	-	-	256	95	156	-
69	F.M. Hill	18	do.	813	99	70	123	732	75	86	533
70	R.A. Seal	42	do.	612	-	-	-	427	79	96	-
71	H. Harris	107	May 19, 1937	629	-	-	-	329	64	172	-
72	Mrs. S.B. Webb	97	do.	475	-	-	-	397	40	60	-
73	do.	69	do.	-	-	-	-	-	44	80	-
74	H.L. Vestal	55	do.	1,201	-	-	-	250	134	515	-
75	Mrs. Mattie Webb	58	do.	501	-	-	-	244	67	132	-
76	W.P.A. test well	15	Apr. 5, 1937	-	-	-	-	-	40	138	-
77	T.S. Parker	24	May 13, 1937	223	-	-	-	207	a/	34	-
78	D.V. Armstrong	28	May 19, 1937	-	-	-	-	-	a/	535	-
79	Marion Harvey	34	May 13, 1937	-	-	-	-	-	a/	156	-
80	Higginbotham Bros.	10	May 19, 1937	4,939	-	-	-	403	328	2,650	-
81	Pioneer School	26	May 13, 1937	678	-	-	-	256	28	274	-
83	Miss C.B. Covert	25	do.	-	-	-	-	-	32	38	-
84	L.L. Mead	25	do.	701	-	-	-	415	56	180	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
85	J.W. Foster	49	May 13, 1937	-	-	-	-	-	32	22	-
86	Doss Alexander	36	do.	-	-	-	-	-	123	220	-
87	A.L. Dillard	30	do.	-	-	-	-	-	39	54	-
88	J.W. Foster	18	do.	-	-	-	-	-	131	150	-
89	M.B. Nix	35	do.	-	-	-	-	-	367	2,170	-
90	E. Pinard	28	do.	166	-	-	-	92	20	40	-
91	C.A. Barker	91	May 12, 1937	-	-	-	-	-	127	210	-
92	R. Crane	41	do.	1,501	-	-	-	244	217	635	-
94	J.T. Woodruff	100	do.	-	-	-	-	-	51	150	-
95	H.L. King	141	do.	-	-	-	-	-	36	86	-
96	Mrs. B.F. Tune	100	do.	-	-	-	-	-	28	108	-
97	Mrs. Geo. Barnes	39	do.	577	-	-	-	232	91	165	-
98	W.P.A. test well	10	Apr. 5, 1937	-	-	-	-	-	a/	3	-
99	do.	26	Apr. 2, 1937	280	-	-	-	244	44	11	-
101	N.E. Frantham	22	May 12, 1937	-	-	-	-	-	16	17	-
102	City of Rising Star	56	do.	-	-	-	-	-	32	90	-
103	do.	43	do.	-	-	-	-	-	82	195	-
104	W.P.A. test well	11	May 29, 1937	-	-	-	-	-	178	650	-
105	W.L. Boggs	25	May 20, 1937	1,899	-	-	-	201	324	815	-
106	W.T. Nunnally	20	do.	-	-	-	-	-	316	470	-
108	J.T. McBeth	73	May 11, 1937	-	-	-	-	-	32	76	-
109	Dr. W.S. Carter	77	do.	767	-	-	-	329	86	240	-
111	W. Armstrong	51	do.	861	-	-	-	336	127	260	-
112	Mrs. B. Watkins	31	do.	-	-	-	-	-	55	188	-
113	W.C. Wadkins	31	do.	173	-	-	-	171	12	10	-
114	C.G. Schutz Jr.	58	do.	-	-	-	-	-	221	665	-
116	Mrs. J.H. Graham	29	do.	-	-	-	-	-	209	665	-
117	R.N. Haddon	27	do.	4,032	-	-	-	281	343	2,120	-
118	R.O. Jackson	12	do.	-	-	-	-	-	43	84	-
204	Mrs. L.A. Ramsower	275	Mar. 7, 1937	-	-	-	-	-	430	155	-
205	Dan Childress	114	Mar. 9	3,825	-	-	-	226	1,465	1,000	-
206	Reagan School	70	Apr. 9, 1937	-	-	-	-	-	649	1,035	-
208	T.E. Castleberry	220	Apr. 7, 1937	552	-	-	-	299	137	72	-
211	Carl Kimbrough	200	do.	-	-	-	-	-	171	62	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
213	T.C. Harbin	216	Apr. 7, 1937	664	-	-	-	226	230	98	-
214	Morton Valley School	160	do.	-	-	-	-	-	208	66	-
215	E.D. Houston	88	do.	965	-	-	-	220	438	105	-
219	W.P.A. test well	8	Mar. 26, 1937	-	-	-	-	-	140	98	-
220	J.W. Jones	200	Apr. 7, 1937	-	-	-	-	-	1,298	310	-
221	W.P.A. test well	14	May 4, 1937	-	-	-	-	-	44	216	-
223	John Littleton heirs	200	Apr. 15, 1937	-	-	-	-	-	a/	5,460	-
225	O.M. England	35	do.	554	-	-	-	140	133	160	-
226	J. Maynard	26	do.	-	-	-	-	-	a/	38	-
227	Colony School	12	do.	-	-	-	-	-	15	40	-
228	Homer Danley	71	June 3, 1937	503	-	-	-	165	43	196	-
229	Mrs. F. Christmas	22	do.	-	-	-	-	-	67	66	-
230	Claude Erhler	49	do.	-	-	-	-	-	32	92	-
231	L. Kirkpatrick	52	do.	-	-	-	-	-	174	890	-
233	B.C. Waitling	35	Apr. 15, 1937	-	-	-	-	-	111	520	-
234	J.F. Moseley	34	do.	-	-	-	-	-	1,297	700	-
235	C.L. Langston	34	Apr. 16, 1937	-	-	-	-	-	230	850	-
236	W.P.A. test well	9	Apr. 6, 1937	182	-	-	-	122	40	16	-
237	A.A. Norton	36	Apr. 16, 1937	468	-	-	-	201	22	174	-
238	Olden School	85	Apr. 15, 1937	-	-	-	-	-	72	650	-
239	do.	50	do.	1,107	-	-	-	171	48	575	-
240	J.H. Munn	25	do.	857	-	-	-	256	76	345	-
241	J.D. Yielding	70	do.	-	-	-	-	-	80	380	-
243	W.P.A. test well	7	Apr. 29, 1937	-	-	-	-	-	36	96	-
245	Mrs. L.E. Bourland	42	Apr. 14, 1937	-	-	-	-	-	40	22	-
246	P.O. Wood	41	do.	-	-	-	-	-	32	58	-
247	W.P.A. test well	14	Apr. 29, 1937	-	-	-	-	-	543	1,820	-
248	Jacob Tennel	15	May 6, 1937	-	-	-	-	-	47	275	-
249	W.P.A. test well	14	Apr. 9, 1937	-	-	-	-	-	48	158	-
250	do.	17	Mar. 25, 1937	-	-	-	-	-	515	192	-
251	do.	12	do.	-	-	-	-	-	4,185	6,000	-
252	do.	15	do.	-	-	-	-	-	204	150	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
253	W.P.A. test well	14	Apr. 22, 1937	-	-	-	-	-	647	930	-
254	R.F. Jones	18	Apr. 7, 1937	-	-	-	-	-	1,206	920	-
255	W.P.A. test well	17	Apr. 20, 1937	-	-	-	-	-	1,629	980	-
256	do.	11	Apr. 21, 1937	-	-	-	-	-	3,918	5,690	-
260	do.	12	Mar. 29, 1937	335	-	-	-	98	156	22	-
262	Jno. Hart	198	Apr. 9, 1937	1,365	-	-	-	146	200	615	-
263	C.C. Street	13	May 6, 1937	529	-	-	-	476	32	60	-
264	W.P.A. test well	14	do.	-	-	-	-	-	a/	83	-
265	do.	15	do.	-	-	-	-	-	116	650	-
266	do.	14	do.	-	-	-	-	-	185	555	-
267	Mrs. C. Owen	75	May 5, 1937	1,076	-	-	-	427	264	225	-
268	B.O. Robinson	23	do.	-	-	-	-	-	20	8	-
271	Mrs. A.L. Mayhew	12	do.	715	-	-	-	207	76	280	-
272	W.P.A. test well	14	Apr. 9, 1937	-	-	-	-	-	120	108	-
273	Mrs. C.U. Connelle	30	May 7, 1937	-	-	-	-	-	197	1,110	-
274	R.L. Jones	41	do.	-	-	-	-	-	76	110	-
275	do.	40	do.	-	-	-	-	-	158	560	-
276	Mrs. W.C. McGough		do.	-	-	-	-	-	80	230	-
	Spring										
277	Kizziar Est.	58	Apr. 29, 1937	2,655	-	-	-	201	466	1,170	-
278	R. McNeeley	25	do.	-	-	-	-	-	80	295	-
279	D.P. Holliday	25	do.	305	-	-	-	220	40	44	-
280	Dr. W.E. Kimbal	16	do.	-	-	-	-	-	63	180	-
281	B.H. Harbin	27	do.	-	-	-	-	-	111	760	-
282	Homer White	18	do.	-	-	-	-	-	91	96	-
283	J.A. Hallmark	39	May 7, 1937	609	-	-	-	189	72	225	-
284	Mrs. C.L. Yancey	43	do.	684	-	-	-	317	83	196	-
285	J.B. Caudle	18	do.	133	-	-	-	98	a/	34	-
286	P.F. Turner	35	Apr. 29, 1937	-	-	-	-	-	79	245	-
287	Finis Johnson	29	Apr. 28, 1937	637	-	-	-	226	71	225	-
288	Flat Wood School	37	do.	-	-	-	-	-	156	1,390	-
289	S.V. Lyerla	35	do.	336	-	-	-	134	60	90	-
290	J.V. Harbin	51	May 7, 1937	418	-	-	-	299	56	60	-
291	do.	31	do.	562	-	-	-	281	91	130	-
292	Sam Coon	34	Apr. 28, 1937	647	-	-	-	329	30	214	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued

Results are in parts per million.

Well No.	Owner	Depth to well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
293	M.W. Grieger	31	Apr. 28, 1937	-	-	-	-	-	89	255	-
294	A.C. Justice	37	do.	-	-	-	-	-	67	210	-
295	Mrs. W.B. Sanford	9	Apr. 12, 1937	-	-	-	-	-	78	300	-
296	L.A. Hightower	28	Apr. 27, 1937	-	-	-	-	-	137	705	-
297	W.P.A. test well	19	Apr. 26, 1937	281	-	-	-	238	40	19	-
299	Lon Palmer	27	Apr. 29, 1937	-	-	-	-	-	148	505	-
300	M.D. Evans	28	do.	-	-	-	-	-	159	700	-
301	Earnest La Foon	18	May 6, 1937	742	-	-	-	281	118	220	-
302	Jacob Lyerla	35	do.	-	-	-	-	-	24	36	-
303	T.A. Byrd	52	do.	1,950	-	-	-	92	60	1,145	-
304	D.N. Taylor	39	do.	429	-	-	-	293	72	56	-
305	J.L. James	45	Apr. 13, 1937	114	-	-	-	116	a/	12	-
306	W.P.A. test well	16	Apr. 26, 1937	408	-	-	-	464	12	7	-
307	M. Farn Hurst	53	Apr. 12, 1937	-	-	-	-	-	a/	36	-
308	Pat McNeil	17	do.	-	-	-	-	-	85	170	-
309	J.S. Turner	49	do.	949	-	-	-	171	74	450	-
310	T.F. Murrell	43	Apr. 26, 1937	-	-	-	-	-	156	370	-
311	W.F. Reagan	29	do.	-	-	-	-	-	141	805	-
312	W.H. Boon	21	do.	-	-	-	-	-	148	980	-
313	J.H. Haynes	28	do.	-	-	-	-	-	482	185	-
314	W.P.A. test well	12	June 2, 1937	-	-	-	-	-	371	300	-
315	Mrs. P.L. Mangum	56	Apr. 26, 1937	-	-	-	-	-	757	590	-
316	W.P.A. test well	18	June 2, 1937	-	-	-	-	-	1,573	625	-
317	Elmer Gilbert	83	Apr. 27, 1937	-	-	-	-	-	34	64	-
318	Alvin Thurman	20	do.	-	-	-	-	-	1,632	225	-
401	J.T. Hale	100	May 5, 1937	1,769	-	-	-	293	367	645	-
402	J.S. Turner	28	do.	892	-	-	-	512	162	165	-
403	R.L. Tucker	88	Apr. 27, 1937	-	-	-	-	-	690	96	-
404	W.A. Hale	80	do.	-	-	-	-	-	56	46	-
405	D.S. Campbell	19	do.	656	-	-	-	360	89	150	-
406	Henry Collins	47	Apr. 12, 1937	-	-	-	-	-	152	565	-
408	City of Carbon	13	do.	-	-	-	-	-	215	765	-
409	Mrs. J.A. Hearn	53	do.	-	-	-	-	-	100	520	-
410	W.H. Gilbert	18	May 14, 1937	-	-	-	-	-	a/	40	-
411	W.P.A. test well	21	May 28, 1937	-	-	-	-	-	158	66	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
412	I.A. Dingler heirs	19	May 14, 1937	834	-	-	-	421	152	175	-
413	W.S. Maxwell	41	do.	-	-	-	-	-	71	220	-
414	Buck Flowers	37	do.	1,102	-	-	-	488	148	315	-
415	W.W. Martin	69	do.	1,114	-	-	-	458	108	375	-
416	W.P.A. test well	11	May 28, 1937	-	-	-	-	-	26	124	-
417	Babe Lanier	69	May 14, 1937	-	-	-	-	-	78	250	-
418	M.B. Martin	9	do.	1,249	-	-	-	543	148	380	-
419	J.T. Poe	9	do.	566	-	-	-	415	67	84	-
420	Ed. Sherrill	67	do.	-	-	-	-	-	63	114	-
423	C.G. Stubblefield	37	Apr. 12, 1937	-	-	-	-	-	189	465	-
424	W.T. Duncan	14	Apr. 13, 1937	120	-	-	-	122	a/	13	-
429	J.C. Caraway	39	Apr. 12, 1937	-	-	-	-	-	37	292	-
430	D. Jobe	14	do.	-	-	-	-	-	48	106	-
431	A.F. McMullen	44	May 27, 1937	-	-	-	-	-	72	280	-
433	City of Gorman	81	Apr. 13, 1937	-	-	-	-	-	108	490	-
434	do.	93	Apr. 12, 1937	675	-	-	-	201	68	265	-
435	Mrs. Adelene Moats	51	Apr. 19, 1937	-	-	-	-	-	22	130	-
436	Mrs. J.M. Moats	48	Apr. 13, 1937	-	-	-	-	-	52	128	-
437	P. Thomas	30	do.	-	-	-	-	-	52	104	-
439	R.D. Parker	45	Apr. 19, 1937	-	-	-	-	-	100	255	-
440	Oral Browning	Spring	do.	-	-	-	-	-	44	120	-
441	Albert Taylor	56	do.	468	-	-	-	-	26	135	-
442	H.O. Files	42	do.	703	-	-	-	268	45	380	-
443	M. Jones	38	do.	971	-	-	-	342	52	395	-
444	George Snyder	34	do.	-	-	-	-	-	84	340	-
445	Grandview School	47	do.	628	-	-	-	311	34	208	-
446	C.M. Prestidge	44	do.	-	-	-	-	-	67	330	-
447	Mrs. Tom Brightwell	38	do.	-	-	-	-	-	45	226	-
448	J.M. Westmoreland	21	do.	189	-	-	-	146	a/	44	-
449	T.M. Goodwin	21	do.	313	-	-	-	140	67	66	-
450	W.F. Rogers	21	do.	-	-	-	-	-	119	650	-
451	W.P. Westmoreland	23	do.	151	-	-	-	146	a/	20	-
452	E.W. Townsend	90	Apr. 13, 1937	-	-	-	-	-	48	196	-
454	Pat Peak	24	do.	-	-	-	-	-	192	310	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
457	Almon Bearden Est.	34	Apr.13,1937	602	-	-	-	232	120	155	-
458	J.T. Jones	43	Apr.14,1937	660	-	-	-	348	84	162	-
459	W.P.A. test well	15	Apr.28,1937	-	-	-	-	-	216	650	-
461	City of Desdemona	76	Apr.13,1937	-	-	-	-	-	44	64	-
462	Mrs. Bobbie I. Terry	May 28,1937		-	-	-	-	-	136	125	-
		128									
463	Mrs. S. Snodgrass	38	do.	-	-	-	-	-	100	220	-
464	W.N. Koonce	35	do.	-	-	-	-	-	84	560	-
465	G.J. Perry	Spring	do.	-	-	-	-	-	104	330	-
466	do.	30	do.	-	-	-	-	-	128	400	-
467	J.J. Holleman	17	do.	248	-	-	-	63	68	64	-
468	W.F. Duke	36	do.	-	-	-	-	-	244	960	-
469	W.L.F. Boyd	59	do.	-	-	-	-	-	116	415	-
470	City of DeLeon	105	May 21,1937	651	-	-	-	336	72	175	-
471	J.W. Tate	11	May 27,1937	-	-	-	-	-	40	80	-
472	Mrs. M.J. Cuner Est.	79	May 21,1937	129	-	-	-	73	32	15	-
473	J.T. Quinn	31	May 27,1937	-	-	-	-	-	56	30	-
474	Mrs. Joe Patterson	116	do.	549	-	-	-	354	68	104	-
475	J.S. Singleton	57	May 21,1937	825	-	-	-	293	176	215	-
476	J.L. Lightfoot	37	do.	630	-	-	-	232	112	180	-
477	R.M. Higginbotham	60	do.	930	-	-	-	293	84	365	-
478	Lenard Woods	28	do.	-	-	-	-	-	144	265	-
479	C.C. McMullen	10	May 27,1937	1,479	-	-	-	482	96	606	-
480	Mrs. G.T. Sloan	38	do.	-	-	-	-	-	819	49	-
481	Mrs. B.L. Woody	101	May 26,1937	-	-	-	-	-	60	52	-
482	E. Pounds	62	May 27,1937	583	-	-	-	384	52	124	-
483	City of Duster	41	May 26,1937	-	-	-	-	-	88	134	-
484	Duster School	53	do.	2,122	-	-	-	378	120	1,050	-
485	S.H. Gray	101	do.	1,689	-	-	-	390	547	380	-
486	City of Sipe Spring	18	do.	-	-	-	-	-	84	48	-
488	Mrs. R.S. Maxwell	290	May 20,1937	-	-	-	-	-	a/	615	-
490	W.R. Laird	45	do.	1,229	126	199	60	671	32	482	1,133
492	Bob Edwards	18	do.	-	-	-	-	-	174	205	-
494	R.W. Higginbotham	39	do.	-	-	-	-	-	71	1,125	-
495	J.M. Higginbotham	43	do.	1,001	-	-	-	317	355	152	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
496	Dr. T.B. Busbee	93	May 20, 1937	-	-	-	-	-	51	160	-
498	H.V. Hill	66	do.	-	-	-	-	-	249	690	-
499	J.T. Harris	13	do.	837	-	-	-	573	87	156	-
601	Willie Langford	91	June 3, 1937	-	-	-	-	-	107	112	-
603	Mrs. H. James	10	June 2, 1937	-	-	-	-	-	47	34	-
605	Rocky Point Pente-172 costal Church	172	do.	-	-	-	-	-	278	56	-
606	E.B. Hill	29	do.	-	-	-	-	-	40	150	-
609	W.P.A. test well	11	May 31, 1937	-	-	-	-	-	115	160	-
610	G.W. Rose	167	June 2, 1937	2,087	-	-	-	604	119	910	-
611	J.F. Dreinhofer	29	May 4, 1937	-	-	-	-	-	511	2,260	-
612	Mrs. N.E. Works	25	do.	-	-	-	-	-	118	405	-
613	Mrs. S.A. Sawyer	24	do.	-	-	-	-	-	126	270	-
614	W.P.A. test well	20	do.	-	-	-	-	-	400	1,580	-
615	do.	15	Apr. 6, 1937	-	-	-	-	-	140	275	-
616	B.E. Rigby	20	Apr. 16, 1937	-	-	-	-	-	34	100	-
618	Mrs. G.W. Terry	180	do.	651	-	-	-	421	108	98	-
620	W.P.A. test well	14	Apr. 6, 1937	-	-	-	-	-	707	240	-
621	W.M. Myers	174	Apr. 16, 1937	1,251	-	-	-	476	78	480	-
623	R.H. Sheppard	162	June 2, 1937	-	-	-	-	-	51	134	-
624	Haden Neal	29	June 11, 1937	-	-	-	-	-	67	60	-
625	J.M. Winsett	Spring	June 17, 1937	-	-	-	-	-	40	70	-
626	D. Barton	56	June 2, 1937	-	-	-	-	-	466	1,135	-
628	J.R. Erwin	137	do.	-	-	-	-	-	122	88	-
635	J.J. Daffin	22	June 17, 1937	-	-	-	-	-	119	230	-
636	Willis Barton	32	do.	585	-	-	-	128	107	210	-
637	A.H. Dean	30	do.	2,197	-	-	-	61	467	950	-
638	George Barton	16	do.	-	-	-	-	-	200	830	-
639	A.E. Martin	57	do.	145	-	-	-	116	a/	32	-
640	Mrs. E.E. Williams	35	do.	-	-	-	-	-	60	415	-
641	Bob Killinghurst	61	do.	386	-	-	-	61	a/	215	-
642	Dr. G.T. Blackwell	32	Apr. 14, 1937	-	-	-	-	-	80	185	-
643	W.P.A. test well	11	Apr. 30, 1937	107	-	-	-	31	40	16	-
644	Jack Blackwell	30	Apr. 19, 1937	1,338	-	-	-	537	297	305	-
645	A.H. Lane	54	do.	-	-	-	-	-	930	710	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Eastland County--Continued
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
647	J.A. Hart	23	Apr.14,1937	-	-	-	-	-	939	138	-
649	Alameda School	23	Apr.16,1937	620	-	-	-	445	63	106	-
650	R.H. Myrick	21	do.	511	-	-	-	482	a/	74	-
651	Jess Blackwell	92	do.	-	-	-	-	-	260	165	-
653	M.J. Timmon	16	Apr.29,1937	-	-	-	-	-	130	850	-
657	Triumph School	19	Apr.14,1937	409	-	-	-	146	96	98	-
658	W.T. Duncan	278	do.	2,873	-	-	-	439	184	1,440	-
660	Mrs. B. Crawley	48	do.	1,705	-	-	-	214	815	240	-
661	O.T. Hazard	65	do.	864	-	-	-	439	124	210	-

Partial analyses of water from lakes in Eastland County, Texas
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
5a	City of Cisco	125	May 3,1937	174	-	-	-	122	40	11	-
88a	Will Foster	26	May 19,1937	370	-	-	-	195	40	98	-
203a	A.L. Thorpe	10	Apr. 7,1937	-	-	-	-	-	40	92	-
242a	City of Eastland	15	Apr.14,1937	-	-	-	-	-	40	20	-
243b	Texas Electric Service Company	35	do.	729	108	24	123	214	159	210	370
623a	City of Ranger	35	Apr.16,1937	199	-	-	-	98	40	40	-

MAP OF EASTLAND COUNTY, TEXAS SHOWING LOCATIONS OF WATER WELLS LISTED

FIELD WORK BY
J. HOWARD SAMUELL
PROJECT SUPERINTENDENT
W.P.A. PROJECT 6003-536

BASE COMPILED FROM
BUREAU OF ECONOMIC GEOLOGY
MAP
AND FIELD NOTES

TEXAS BOARD OF
WATER ENGINEERS
ASSISTED BY
U.S. GEOLOGICAL SURVEY

- EXPLANATION -

- WELL WITH HANDPUMP, BUCKET OR BAILER
- ◊ WELL WITH WINDMILL OR SMALL POWER PUMP
- ⊙ WELL WITH PUMPING PLANT - 5 HORSE POWER OR LARGER
- ⊕ WELL DRILLED TO TEST FOR OIL OR GAS
- ◐ TEST WELL DRILLED BY W.P.A. LABOR
- ◊ UNUSED WELL
- LOCATION WHERE STREAM WAS SAMPLED
- ▭ EARTHEN TANK OR RESERVOIR
- IMPROVED ROAD
- - - UNIMPROVED ROAD

