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STATE BOARD OF WATER ENGINEERS

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ECTOR COUNTY, TEXAS

Records of wells, drillers' logs,  
and water analyses  
and map showing location of wells.

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WORKS PROGRESS ADMINISTRATION

GROUND WATER SURVEY

PROJECT 5316

Dan A. Davis

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  
August 5, 1937

ECTOR COUNTY, TEXAS

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Intruduction

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.

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 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 Ector County was started on February 15, 1937, and completed on May 21, 1937. This project was Project 5316 of District 18 of the Works Progress Administration, Big Spring, Texas. Dan A. Davis, a geologist, was project superintendent. Mr. Davis deserves credit for his work and for the many extra hours he spent on the project. The Big Spring office of the Works Progress Administration made this work possible by their constant help and cooperation. The Project is indebted to the officials of Ector County for their assistance in furnishing transportation.

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, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed 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 in Ector County, Texas

(All wells are drilled unless otherwise indicated in "Remarks column.")

(See "Logs of W.P.A. test wells" for all records of test wells.)

No.	Distance from Odessa	Section	Survey or township, block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
* 1	24½ miles northwest	9, SW¼SW¼	T. 2 N. Blk. 44	Corden heirs	--	--	96	6	--
2	26½ miles northwest	12, SE¼NW¼	T. 2 N. Blk. 45	R. B. Cowden	--	--	89	--	0.3
3	27½ miles northwest	10, SW¼SE¼	do.	do.	--	--	110	--	1.3
d/ 4	28 miles northwest	10, NW¼SW¼	do.	do.	Grisham & Hunter	--	4,657	--	--
5	29 miles northwest	9, NW¼NW¼	do.	do.	--	--	104	6	0.5
7	25½ miles west	30, SW¼SW¼	T. 1 N. Blk. 45	H. E. Curmins	--	--	105	--	0.8
8	25 miles west	30, NE¼NE¼	do.	do.	--	--	174	--	1
9	25½ miles northwest	15, NE¼NE¼	do.	do.	--	--	75	--	0.8
d/10	26 miles northwest	10, SE¼SE¼	do.	do.	--	--	69	6	0.8
d/11	25 miles northwest	11, SE¼SE¼	do.	do.	C. F. Wheeler	1937	75	10	0
d/12	do.	13, NW¼NW¼	do.	do.	do.	1937	69	10	0
d/13	24½ miles northwest	13, SE¼NW¼	do.	do.	do.	1937	64	10	0
14	25 miles northwest	12, SW¼NE¼	do.	do.	do.	1937	74	--	0.5
15	do.	do.	do.	do.	--	1892	74	--	1
18	23 miles northwest	9, SE¼SW¼	T. 1 N. Blk. 44	Frank Cowden	--	--	100	--	0.8
19	22 miles northwest	15, NE¼NW¼	do.	W. F. Cowden	--	--	71	--	1.3
d/20	23½ miles northwest	18, SW¼SW¼	do.	Cowden Estate	Landreth Prod. Co.	--	4,470	--	--
d/21	19 miles northwest	28, SW¼NE¼	do.	Clarence Scharbauer	--	--	122	--	2
d/22	23 miles northwest	33, NE¼NE¼	T. 1 N. Blk. 45	H. E. Curmins	Dunning, et al.	--	--	--	--
23	18 miles northwest	26, NW¼SE¼	T. 1 N. Blk. 44	B. H. Plakeney	--	--	126	--	1
d/24	22½ miles northwest	10, NE¼SE¼	T. 1 N. Blk. A	H. E. Curmins	--	--	57	8	0.5
d/25	21 miles northwest	13, SW¼NW¼	do.	C. Scharbauer	Landreth Prod. Co.	--	4,380	--	--
26	22 miles northwest	12, NW¼NE¼	do.	do.	--	--	56	--	1.3
d/27	21½ miles northwest	6, SW¼SE¼	do.	do.	--	--	95-115	--	--

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

b/ B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; T, turbine; W, windmill; number indicates horsepower.

Records obtained by Dan A. Davis, Project Superintendent  
(Chemical analyses of water from these wells are in the table of analyses.)

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
1	--	Apr. 13, 1937	C,W	S	Edge of large sink	Steel casing. Temperature 68° F. Strong supply reported.
2	70.0	do.	C,W	S	Edge of sink	Wood clamp; steel casing. Strong supply reported.
3	95.3	do.	C,W	S	do.	Wood clamp; steel casing. Temperature 68° F. Strong supply reported.
4	--	--	None	N	--	Oil test. See log.
5	94.8	Apr. 13, 1937	None	N	--	20 feet steel casing at top.
7	103.5	Apr. 24, 1937	None	N	Edge of sink	Concrete curb. Sample from 127-foot well 50 feet north.
8	104.5	do.	C,W	S	--	Wood clamp. Measured while pumping.
9	64.4	Apr. 13, 1937	C,W	S	Edge of small draw	Wood clamp; concrete curb. Temperature 66° F.
10	61.1	Apr. 15, 1937	C,G,5	Of	--	Steel casing. Supplies drilling rig.
11	51.6	do.	None	N	--	No casing
12	48.8	do.	None	N	--	Do.
13	46.1	do.	None	N	--	Do.
14	39	Apr. 12, 1937	None	N	Bottom of lake basin	Wood clamp.
15	40.5	do.	C,W	S	Slope of sink	Wood clamp; concrete curb.
18	59.9	Apr. 14, 1937	C,W	S	Edge of sink	Wood clamp; concrete curb. Temperature 67° F.
19	68.6	do.	C,W	S	--	Wood clamp; concrete curb. Temperature 69° F.
20	--	--	None	N	--	Oil test. See log.
21	97	Apr. 23, 1937	C,W	S	Near sink	Wood clamp; concrete curb.
22	--	--	None	N	--	Oil test. See log.
23	105.9	Apr. 17, 1937	C,W	S	--	Wood clamp; concrete curb. Temperature 70° F. Strong supply reported.
24	42.6	Apr. 16, 1937	C,-	N	--	Wood clamp; steel casing. Formerly supplied drilling rigs.
25	--	--	None	N	--	Oil test. See log.
26	42.4	Apr. 16, 1937	C,W	S	--	Wood clamp; concrete curb. Temperature 68° F.
27	55	Apr. 21, 1937	C,G,-& Cf	Of S	--	A group of 17 wells supplying oil field. Total estimated yield, 840,000 gallons a day. Water level measurement is characteristic for the group.

c/ D, domestic; I, irrigation; Ind, industrial; Of, oil field; F, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells in Ector County--Continued

No.	Distance from Odessa	Section	Survey or township, block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
28	20 miles northwest	14, SW $\frac{1}{4}$ SW $\frac{1}{4}$	T. 1 N. Blk. A	B. H. Blakeney	Sims & Webster	1937	70	10	--
29	do.	14, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	65	--	1
30	do.	14, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Sims & Webster	1937	86	10	--
31	do.	3, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	--	--	--
32	18 $\frac{1}{2}$ miles northwest	17, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	--	--	48	--	2
34	15 $\frac{1}{2}$ miles northwest	22, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Mrs. T.B. Roberts	--	--	41	8	1
35	17 $\frac{1}{2}$ miles northwest	20, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	C. B. Holt	--	--	50	6	0.7
d/ 36	do.	20, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Carl Flack	--	115	--	--
37	20 miles northwest	13, NW $\frac{1}{4}$ SW $\frac{1}{4}$	T. 1 N. Blk. 43	C. B. Holt Jr.	--	--	48	--	1
38	do.	12, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	--	--	--	--	--
39	17 $\frac{1}{2}$ miles northwest	22, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	B. H. Blakeney	--	1900	74	--	0.5
40	16 $\frac{1}{2}$ miles northwest	30, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	109	--	--
42	15 $\frac{1}{2}$ miles northwest	35, NW $\frac{1}{4}$ NE $\frac{1}{4}$	T. 1 N. Blk. 42	Midland Farms Co.	--	--	124	6	0.8
43	do.	do.	do.	do.	--	--	134	6	1
46	15 miles north	19, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	105	6	1.5
d/ 47	14 $\frac{1}{2}$ miles north	32, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	76	--	1
48	13 miles north	17, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	--	--	95	6	--
49	13 $\frac{1}{2}$ miles north	1, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	104	6	0.7
52	14 $\frac{1}{2}$ miles north	17, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T. 1 N. Blk. 41	do.	--	--	48	6	0.8
54	13 $\frac{1}{2}$ miles north	12, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	C. Scharbauer	--	--	47	--	0.8
55	12 $\frac{1}{2}$ miles north	5, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	E. J. Neathery	--	--	70	--	1
d/ 56	do.	4, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	--	--	85	--	0.8
57	11 miles north	16, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Mrs. M. C. Whittenburgh	--	--	42	6	2
59	10 $\frac{1}{2}$ miles north	18, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	H. S. Ratliff	--	--	74	--	1

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topo-graphic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
28	--	Apr. 20, 1937	T,G	Of	--	Supplies drilling rigs.
29	49.8	do.	C,W	S	--	Wood clamp; concrete curb. Temperature 67° F. Strong supply reported.
30	39.9	do.	None	N	--	Steel casing. Drilled to supply drilling rigs.
31	--	Apr. 22, 1937	C,W	D,S	--	Wood clamp; concrete curb. Strong supply reported.
32	34.6	Apr. 17, 1937	C,W	S	Near small sink	Do.
34	38.7	Mar. 8, 1937	C,W	D,S	--	Wood clamp; concrete curb; steel casing. Strong supply reported.
35	36.4	do.	C,W	S	Upland	Concrete curb; steel casing.
36	--	Mar. 7, 1937	C,W	D	do.	Strong supply reported.
37	32.8	Apr. 22, 1937	C,W	S	Edge of small draw	Wood clamp; concrete curb. Temperature 68° F.
38	--	do.	C,W	S	--	Do.
39	52.1	Apr. 16, 1937	C,W	S	Edge of small draw	Do.
40	--	do.	C,W	S	--	Do.
42	77.7	Mar. 6, 1937	C,W	S	Upland	Wood clamp; steel casing.
43	79.8	do.	C,W	S	do.	Do.
46	79.2	do.	C,W	S	do.	Do.
47	49.4	do.	C,W	S	do.	Wood clamp and curb.
48	47	do.	C,W	S	do.	Wood clamp; steel casing.
49	91.3	do.	C,W	S	do.	Do.
52	39	Feb. 25, 1937	C,W	S	do.	Wood clamp; concrete curb; galvanized iron casing.
54	40.4	Mar. 8, 1937	C,W	D,S	do.	Wood clamp. Located in Midland County.
55	60.8	do.	C,W	S	do.	Wood clamp; concrete curb.
56	47.6	do.	C,W	D,S	do.	Wood clamp.
57	39.8	Mar. 10, 1937	C,W	S	Bottom of small draw	Wood clamp; steel casing.
59	48.5	do.	C,W	S	Flat Upland	Wood clamp; concrete curb.

## Records of wells in Ector County--Continued

No.	Distance from Odessa	Section	Survey or township, block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
60	8 miles north	30, S7 $\frac{1}{2}$ SW $\frac{1}{4}$	T. 1 S. Blk. 41	H. S. Ratliff	--	--	137	--	1
61	8 $\frac{1}{2}$ miles north	29, S7 $\frac{1}{2}$ S7 $\frac{1}{4}$	do.	do.	--	--	136	--	1.5
62	11 miles north	22, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Mrs. W.C. Whittenburgh	--	--	66	--	1
64	7 miles northeast	40, S7 $\frac{1}{2}$ S7 $\frac{1}{4}$	do.	Roy Parks Jr.	--	--	117	--	0.3
66	12 $\frac{1}{2}$ miles north	2, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T. 1 S. Blk. 42	H. S. Ratliff	--	--	79	6	1.5
67	11 miles north	10, S7 $\frac{1}{2}$ NE $\frac{1}{4}$	do.	do.	--	--	88	--	0.8
68	10 miles north	15, SE $\frac{1}{4}$ N7 $\frac{1}{4}$	do.	H.C. Borrow Estate	--	--	87	8	1.3
69	8 miles north	27, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	89	8	1.5
70	6 miles north	39, N7 $\frac{1}{2}$ SE $\frac{1}{4}$	do.	J.M. Gist	--	--	129	6	--
71	5 miles north	46, N7 $\frac{1}{2}$ SE $\frac{1}{4}$	do.	do.	--	--	86	--	1
72	5 miles northwest	41, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	51	--	1.5
73	6 $\frac{1}{2}$ miles northwest	40, SE $\frac{1}{4}$ N7 $\frac{1}{4}$	do.	do.	--	--	99	--	--
74	10 $\frac{1}{2}$ miles northwest	17, S7 $\frac{1}{2}$ NE $\frac{1}{4}$	do.	H.C. Barrow Estate	--	--	118	--	1.5
75	11 $\frac{1}{2}$ miles northwest	8, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	H. S. Ratliff	--	--	66	--	0.8
d/ 76	11 miles northwest	18, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	R. W. Smith	--	--	92	--	0.6
d/ 77	7 $\frac{1}{2}$ miles northwest	42, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. L. Johnson	--	--	145	--	0
78	6 $\frac{1}{2}$ miles northwest	43, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	--	--	100	--	0.8
79	9 miles northwest	35, NW $\frac{1}{4}$ SW $\frac{1}{4}$	T. 1 S. Blk. 43	do.	--	--	109	--	1
80	8 $\frac{1}{2}$ miles northwest	38, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	--	--	73	--	0.5
83	13 miles northwest	17, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Mrs. A.W. Wight	--	--	105	--	1.5
84	do.	17, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	--	--	119	6	2
85	9 $\frac{1}{2}$ miles west	44, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	J. L. Johnson	--	--	109	6	1
d/86	11 miles west	42, Gen. NE $\frac{1}{4}$	do.	do.	Zwifel, et al.	--	3,605	--	--
87	do.	43, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	--	--	115	--	0.5

## Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of Water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
60	110.1	Apr. 6, 1937	C,W	S	--	Wood clamp.
61	106.7	do.	C,W	S	Sink	Do.
62	50.3	Mar. 11, 1937	C,W	S	Upland	Wood clamp; concrete curb.
64	84	do.	C,W	S	do.	Wood clamp.
66	49	Mar. 8, 1937	C,W	D,S	do.	Wood clamp; concrete curb.
67	62.4	Apr. 6, 1937	C,W	S	Edge of sink	Wood clamp.
68	82.8	Mar. 5, 1937	None	N	Edge of dry lake basin	Concrete curb; galvanized iron casing.
69	70.5	Mar. 12, 1937	C,W	S	do.	Wood clamp; galvanized iron casing.
70	--	May 14, 1937	C,W	S	--	Wood clamp; steel casing.
71	63.9	Mar. 12, 1937	C,W	S	Upland	Wood clamp; concrete curb.
72	46.4	Mar. 18, 1937	C,W	S	do.	Do.
73	--	May 14, 1937	C,W	S	Near sink	Wood clamp.
74	77.9	Mar. 9, 1937	C,W	S	Upland	Wood clamp; concrete curb.
75	54.3	do.	C,W	S	Near sink	Do.
76	61.2	do.	C,W	N	Upland	Do.
77	71.7	Mar. 12, 1937	None	N	--	Formerly supplied drilling rig.
78	59.4	do.	C,W	S	Upland	Wood clamp; concrete curb.
79	73.8	Mar. 13, 1937	C,W	S	do.	Do.
80	61.3	do.	C,W	S	do.	Do.
83	79.7	Apr. 23, 1937	C,W	S	--	Wood clamp; concrete curb. Temperature 63° F.
84	86.5	do.	C,W	S	Top of hill	Wood clamp; steel casing.
85	85.7	Mar. 11, 1937	C,W	S	--	Wood clamp; concrete curb. Measured while pumping.
86	--	--	None	N	--	Oil test. See log.
87	80.6	Mar. 17, 1937	C,W	S	Upland	Wood clamp; concrete curb.



## Records of wells in Ector County--Continued

No.	Distance from Odessa	Section	Survey or township, block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>
d/ 89	15 miles northwest	1, SE $\frac{1}{4}$ SE $\frac{1}{4}$	T. 1 S. Blk. 44	Clyde Cowden	--	--	104	--	0
d/ 90	16 miles northwest	1, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	120	--	0
91	15 miles northwest	12, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	--	--	85	6	2
92	16 miles northwest	11, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	G. Scharbauer	--	--	91	--	--
d/ 93	do.	do.	do.	do.	--	--	--	--	--
94	16 $\frac{1}{2}$ miles northwest	16, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	172	6	3
95	18 miles northwest	8, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	69	--	1.5
96	19 miles northwest	6, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	89	6	2.5
97	18 miles west	17, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	--	--	100	--	0.8
99	15 $\frac{1}{2}$ miles west	28, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	--	--	182	--	--
100	17 miles west	30, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	64	6	2
101	15 $\frac{1}{2}$ miles west	44, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	H.C. Barrow Estate	--	--	182	--	--
d/102	18 $\frac{1}{2}$ miles west	47, SW $\frac{1}{4}$ NW $\frac{1}{4}$	T. 1 S. Blk. 45	J.E. Parker	--	--	190	6	1
d/103	19 miles west	33, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	T. & P. R.R. Co.	Exploration Co.	--	4,325	--	--
104	20 miles west	34, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. E. Parker	--	--	168	6	0.8
105	19 $\frac{1}{2}$ miles west	26, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Paul Slator	--	--	174	6	0.8
d/107	21 $\frac{1}{2}$ miles west	10, Gen. SW $\frac{1}{4}$	do.	J. D. Slator Jr.	Exploration Co.	--	4,437	--	--
108	22 miles west	10, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Paul Slator	--	1890	170	6	--
109	24 miles west	6, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	E.R. Thomas Estate	--	--	127	6	0.8
114	16 $\frac{1}{2}$ miles west	11, NW $\frac{1}{4}$ SE $\frac{1}{4}$	T. 2 S. Blk. 45	Paul Slator	--	--	68	--	1
d/115	do.	20, Gen. NW $\frac{1}{4}$	do.	J. W. Buchanan	Skinner, et al.	--	3,523	--	--
117	16 $\frac{1}{2}$ miles southwest	28, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	B. 7. McKinzey	--	--	--	--	--
119	15 miles west	7, SE $\frac{1}{4}$ NE $\frac{1}{4}$	T. 2 S. Blk. 44	J. E. Parker	--	--	189	6	0.8

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

b/ B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; T, turbine; W, windmill; number indicates horsepower.

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
89	82.3	Apr. 23, 1937	None	N	--	No casing.
90	104.1	do.	None	N	--	Do.
91	75.4	do.	C,W	S	--	Wood clamp; steel casing. Temperature 68° F.
92	--	Apr. 21, 1937	C,W	S	Edge of sink	Wood clamp. Temperature 66° F.
93	--	do.	C,-	Of	do.	One of 10 wells that supply oil lease.
94	149.5	Apr. 12, 1937	C,W	S	do.	Wood clamp; steel casing. Temperature 67° F.
95	56.1	Apr. 10, 1937	C,W	S	--	Wood clamp; steel casing. Temperature 66° F.
96	71.2	do.	C,W	S	Edge of sink	Wood clamp; steel casing. Temperature 68° F.
97	72.2	do.	C,W	S	do.	Wood clamp; steel curb.
99	--	Apr. 9, 1937	C,W	S	do.	Wood clamp; concrete curb. Temperature 68° F.
100	42.5	Apr. 10, 1937	C,W	S	Broad dry like basin	Wood clamp; steel casing. Temperature 66° F.
101	--	Apr. 26, 1937	C,W	D,S	--	Wood clamp; concrete curb.
102	170.8	do.	C,G,-	N	--	Concrete curb; steel casing. Formerly supplied pump station.
103	--	--	None	N	--	Oil test. See log.
104	158.5	Apr. 26, 1937	C,W	D,S	--	Wood clamp; concrete curb; steel casing.
105	162.5	Apr. 9, 1937	None	N	--	20 feet steel casing at top. Formerly supplied drilling rig.
107	--	--	None	N	--	Oil test. See log.
108	--	Apr. 26, 1937	C,W	S	--	Wood clamp; steel casing. Temperature 68° F.
109	105.2	Apr. 24, 1937	None	N	--	Steel casing.
114	53.1	Apr. 27, 1937	None	N	Bottom of wide draw	Concrete curb; steel casing. Water reported in loose gravel.
115	--	--	None	N	--	Oil test. See log.
117	--	May 8, 1937	C,E,7½	Ind	--	Supplies oil test.
119	180.5	Apr. 27, 1937	C,W	S	--	Wood clamp; steel casing. Temperature 70° F.

c/ D, domestic; I, Irrigation; Ind, industrial; Of, oil field; P, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

## Records of wells in Ector County--Continued

No.	Distance from Odessa	Section	Survey or township, block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
120	14 miles west	4, NW $\frac{1}{4}$ NE $\frac{1}{4}$	T. 2 S. Blk. 44	J. E. Parker	--	--	181	--	1
122	13 $\frac{1}{2}$ miles west	9, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	--	--	181	--	1.5
d/123	13 miles west	33, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Alphonse Klch	Honolulu Oil Co.	--	4,359	--	--
124	11 $\frac{1}{2}$ miles west	38, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. F. Bates Estate	--	--	--	--	--
d/126	10 miles west	25, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Eliot Cowden	--	--	161	--	0.5
127	do.	25, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	126	--	0.6
128	do.	13, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	95	--	--
129	10 $\frac{1}{2}$ miles west	12, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	99	--	0.8
130	9 miles west	5, SW $\frac{1}{4}$ SE $\frac{1}{4}$	T. 2 S. Blk. 43	do.	--	--	87	--	0.8
131	8 $\frac{1}{2}$ miles west	20, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	--	--	197	8	0.8
d/132	7 $\frac{1}{2}$ miles west	33, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Weekly, et al.	--	4,375	--	--
d/134	5 $\frac{1}{2}$ miles west	35, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	F. V. Addis	L. C. Harrison, et al.	--	4,061	--	--
135	4 $\frac{3}{4}$ miles southwest	48, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	T. G. Hendrick	--	--	100	--	1
136	4 miles southwest	36, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	May Witcher	--	--	66	--	1
138	4 miles west	25, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	54	6	1
139	5 $\frac{1}{2}$ miles west	23, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Eliot Cowden	--	--	48	10	2
140	4 $\frac{3}{4}$ miles west	24, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Wanda Hinkle	--	--	--	--	--
141	6 $\frac{1}{2}$ miles west	10, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Eliot Cowden	--	--	72	--	0.5
142	4 $\frac{3}{4}$ miles west	6, SE $\frac{1}{4}$ SE $\frac{1}{4}$	T. 2 S. Blk. 42	J. L. Johnson	--	--	75	--	0.5
d/143	3 $\frac{3}{4}$ miles northwest	8, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	H. C. Foster	--	--	71	--	0.5
144	3 miles northwest	17, NE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	J. E. Bagley	--	--	72	--	1
d/145	2 $\frac{1}{2}$ miles southwest	32, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	T. & P. R. R. Co.	T. & P. R. R. Co.	--	26	--	0
d/146	3 $\frac{1}{4}$ miles south	46, Cen. SW $\frac{1}{4}$	do.	T. G. Hendricks	C. F. Davis	--	4,860	--	--
d/148	$\frac{1}{2}$ mile south	34, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	--	H. H. Emmons	1937	87	--	--

## Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
	Depth below measur- ing point (fcet)	Date of measure- ment				
120	164.9	Apr. 9, 1937	C, W	S	--	Wood clamp; concrete curb. Temperature 68° F.
122	175.9	do.	C, W	S	--	Wood clamp; concrete curb. Temperature 66° F.
123	--	--	None	N	--	Oil test. See log.
124	--	Apr. 30, 1937	C, W	S	--	Wood clamp; concrete curb.
126	126.8	Mar. 26, 1937	C, W	--	--	Wood clamp.
127	124.4	Mar. 29, 1937	C, W	S	--	Wood clamp; concrete curb. Measured while pumping. Temperature 68° F.
128	--	do.	C, W	S	--	Wood clamp; concrete curb. Temperature 68° F.
129	96.7	Apr. 30, 1937	C, W	S	--	Wood clamp. Measured while pumping. Temperature 68° F.
130	67.7	Mar. 17, 1937	C, W	S	Upland	Wood clamp; concrete curb.
131	87.3	Mar. 18, 1937	C, W	S	Upland near lake	Wood clamp.
132	--	--	None	N	--	Oil test. See log.
134	--	--	None	N	--	Do.
135	70.4	Mar. 29, 1937	C, W	S	--	Wood clamp; concrete curb.
136	55.5	May 7, 1937	C, W	S	--	Wood clamp; concrete curb. Temperature 68° F.
138	38.9	do.	C, W	S	Near draw	Wood clamp; steel casing. Temperature 69° F.
139	25.9	Mar. 18, 1937	C, W	S	Bottom of draw	Wood clamp; steel casing.
140	--	May 7, 1937	C, W	S	--	Wood clamp; concrete curb.
141	58.4	Apr. 17, 1937	C, W	D, S, I	--	Wood clamp; concrete curb. Temperature 69° F. Measured while pumping.
142	53.7	May 19, 1937	C, W	S	--	Wood clamp. Measured while pumping.
143	63.6	Mar. 18, 1937	C, W	N	--	Wood clamp; concrete curb.
144	51.9	May 14, 1937	C, W	D, S	--	Wood clamp; concrete curb. Temperature 68° F. Measured while pumping.
145	24.9	Mar. 26, 1937	None	N	Edge of small draw	Dug well. Formerly supplied railroad.
146	--	--	None	N	--	Oil test. See log.
148	40	Apr. 30, e/1937	C, W	D	--	See log.

## Records of wells in Ector County--Continued

No.	Distance from Odessa	Section	Survey or township, block	Owner	Driller	Date Completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
149	$\frac{1}{2}$ mile southeast	27, SE $\frac{1}{4}$ SE $\frac{1}{4}$	T. 2 S. Blk. 42	City of Odessa	--	--	87	6	0.7
d/150	In Odessa	27, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	--	--	130	--	--
151	$\frac{3}{4}$ mile northwest	28, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Carl Flack	1937	140	12	2.5
152	do.	do.	do.	do.	--	1927	135	--	--
d/153	do.	do.	do.	do.	--	1927	130	4 $\frac{1}{2}$	0
d/154	do.	do.	do.	do.	--	--	130	--	--
155	do.	do.	do.	do.	--	--	130	--	--
d/156	do.	do.	do.	do.	--	--	135	--	--
d/157	do.	do.	do.	do.	W. A. Guinn	--	139	--	--
d/158	do.	do.	do.	do.	--	--	130	--	--
d/159	do.	21, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Carl Flack	1937	130	12	2
d/160	do.	28, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	A. H. Dennison	--	1937	102	8	0
d/161	2 $\frac{3}{4}$ miles northwest	10, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	J. M. Gist	--	--	118	6	0
162	3 $\frac{3}{4}$ miles northwest	4, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Marcus Gist	--	--	--	--	--
163	4 $\frac{1}{4}$ miles northwest	4, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. P. Bageley	--	--	97	--	1
d/164	4 $\frac{1}{4}$ miles north	3, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. M. Gist	--	--	84	--	1.5
d/165	4 $\frac{1}{2}$ miles north	2, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	105	8	3
166	4 miles north	12, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	69	6	1
167	2 $\frac{3}{4}$ miles north	14, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	88	--	--
d/169	1 $\frac{1}{4}$ mile northeast	23, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Andy Newnham	Farmers Oil Co.	--	1,096	--	--
171	3 $\frac{1}{4}$ miles southeast	47, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	T. G. Hendricks	--	--	48	--	1.3
172	3 $\frac{1}{2}$ miles southeast	42, SW $\frac{1}{4}$ SE $\frac{1}{4}$	T. 2 S. Blk. 41	W. C. Sublett	--	--	94	--	0.8
173	5 $\frac{1}{2}$ miles northeast	9, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Roy Parks	--	--	110	--	1.3
176	5 $\frac{1}{2}$ miles southeast	8, NW $\frac{1}{4}$ NW $\frac{1}{4}$	T. 3 S. Blk. 41	Hammit Estate	--	--	38	--	0.2

## Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
149	46.1	Feb. 16, 1937	C,W	D	--	Wood clamp; concrete curb; iron casing. Located in <u>graveyard</u> .
150	--	--	--	--	--	See log. Located at high school.
151	77.9	Mar. 3, 1937	T,E,5	P	--	Concrete curb; steel casing. Estimated yield, 90 gallons a minute. City well #8.
152	--	Feb. 17, 1937	T,E,5	P	Level	City well #1. <u>See log.</u>
153	64	do.	T,E,-	P	do.	Steel casing. City well #2.
154	--	do.	C,E,5	P	--	City well #3
155	--	do.	T,E,10	P	--	City well #4.
156	--	do.	T,E,5	P	--	City well #5
157	--	do.	T,E,5	P	--	City well #6. See log.
158	--	do.	T,E,5	P	--	City well #7. See log.
159	72.5	Mar. 22, 1937	T,E,5	P	--	City well #9. See log.
160	69.2	Feb. 17, 1937	None	N	--	Concrete floor; steel casing. See log.
161	62.5	Mar. 19, 1937	C,W	N	--	Wood clamp; galvanized iron casing.
162	--	May 19, 1937	C,W	D,S	--	Wood clamp. Strong supply reported.
163	62	May 14, 1937	C,W	D,S	--	Wood clamp; concrete curb.
164	44	Mar. 20, 1937	C,W	S	--	Do.
165	98.1	Mar. 19, 1937	None	N	Upland	Concrete curb; steel casing. Formerly supplied pump station.
166	64.4	do.	C,G,1 $\frac{1}{2}$	S	--	Wood clamp; concrete curb. Measured while pumping.
167	--	Apr. 17, 1937	C,W	S	--	Wood clamp; concrete curb. Temperature 68° F.
169	--	--	None	N	--	Oil test. See log.
171	22.9	Mar. 23, 1937	C,W	S	Near shallow lake	Wood clamp; concrete curb.
172	38.3	Mar. 22, 1937	C,W	S,I	--	Wood clamp. Reported 2 $\frac{1}{2}$ acres irrigated.
173	41.4	Mar. 20, 1937	C,W	S	--	Wood clamp; concrete curb.
176	23.9	Apr. 8, 1937	C,W	S	Edge of draw	Wood clamp. Temperature 66° F. Located in Midland County.

Records of wells in Ector County--Continued

No.	Distance from Odessa	Section	Survey or township, block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
177	5 miles southeast	6, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T. 3 S. Blk. 41	Dora Roberts	--	--	52	--	0.6
178	do.	6, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do	--	--	31	6	1
180	7 $\frac{1}{2}$ miles southeast	24, NW $\frac{1}{4}$ SE $\frac{1}{4}$	T. 3 S. Blk. 42	do.	--	--	108	--	1
181	8 miles southeast	25, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Alphonse Kloh, et al.	--	--	119	--	0.8
182	8 miles south	27, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	125	--	1.3
<u>d/183</u>	5 $\frac{1}{2}$ miles south	14, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	T. G. Hendricks	--	--	51	12	1
184	4 $\frac{1}{2}$ miles southeast	11, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	E. V. Graham & Co.	--	1930	64	6	--
<u>d/185</u>	5 $\frac{1}{2}$ miles south	16, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	-- Davis	V. R. Shoup	--	1,755	--	--
186	7 miles south	21, NE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	McElroy Ranch Co.	--	--	93	--	1.3
<u>d/188</u>	5 miles south	8, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	J. H. Emmons	H. H. Emmons	1930	96	--	0.5
189	5 $\frac{1}{2}$ miles south	7, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	G. T. Sandridge	--	--	79	6	3.5
191	10 miles south	31, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Alphonse Kloh, et al.	--	--	--	--	--
193	12 $\frac{1}{2}$ miles south	2, SW $\frac{1}{4}$ SW $\frac{1}{4}$	T. 4 S. Blk. 42	Josie Fay Peck	--	--	--	--	--
<u>d/195</u>	12 miles south	6, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Pauline Slater	--	--	158	6	0.5
<u>d/196</u>	12 $\frac{1}{2}$ miles south	46, NE $\frac{1}{4}$ SE $\frac{1}{4}$	T. 3 S. Blk. 43	W. P. Edwards	--	--	119	--	1.5
<u>d/197</u>	11 $\frac{1}{2}$ miles south	38, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	D.D. Thomas, et al.	--	3,227	--	--
198	6 $\frac{1}{2}$ miles southwest	11, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	H. R. Henderson	--	--	138	--	1.3
199	do.	2, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	T. G. Hendricks	--	--	108	7	1
<u>d/200</u>	7 $\frac{1}{2}$ miles southwest	3, Cen. SE $\frac{1}{4}$	do.	H. R. Henderson	Wentz Oil Corp.	--	3,408	--	--
202	9 miles southwest	8, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	200	--	--
205	10 $\frac{1}{2}$ miles southwest	18, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	R. L. York	--	--	157	6	2
206	12 $\frac{1}{2}$ miles southwest	32, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	W. P. Edwards	--	--	137	--	--
<u>d/208</u>	14 miles southwest	44, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Simms Oil Co.	--	3,732	--	--

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

b/ B, bucket; C, cylinder; Cf, centrifugal; E, electric; G, gasoline engine; H, hand; T, turbine; W, windmill; number indicates horsepower.

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
177	35.9	Apr. 8, 1937	C,W	S	--	Wood clamp; concrete curb. Temperature 70° F.
178	13.9	do.	None	N	Bottom of draw	
180	78.9	Apr. 7, 1937	C,W	S	--	Wood clamp; concrete curb.
181	103.8	do.	C,W	S	--	Do.
182	91.5	do.	C,W	S	--	Wood clamp.
183	43.3	Mar. 23, 1937	C,W	S	--	Wood clamp and casing.
184	27.1	do.	None	N	--	Concrete curb; tin casing.
185	--	--	None	N	--	Oil test. See log.
186	73.3	Apr. 3, 1937	C,W	S	--	Wood clamp; concrete curb.
188	56.3	Mar. 27, 1937	C,W	S	--	Wood clamp; no casing. First water sand reported at 58 feet.
189	71.7	Mar. 29, 1937	C,W	S	Edge of dry lake basin	Wood clamp; steel casing.
191	--	Apr. 8, 1937	C,W	S	--	Wood clamp; concrete curb. Temperature 68° F.
193	--	Apr. 8, 1937	C,W	S	Edge of sink	Wood clamp.
195	146.2	Apr. 2, 1937	None	N	--	Concrete curb; tin casing. Formerly supplied stock.
196	108.5	Apr. 7, 1937	C,W	S	Bottom of draw	Wood clamp; concrete curb.
197	--	--	None	N	--	Oil test. See log.
198	103	Mar. 27, 1937	C,W	S	--	Wood clamp; concrete curb.
199	99	Mar. 24, 1937	None	N	--	Wood curb; no casing.
200	--	--	None	N	--	Oil test. See log.
202	--	May 11, 1937	C,W	S	--	Wood clamp; concrete curb.
205	135.9	Apr. 1, 1937	C,W	S	Edge of dry lake basin	Wood clamp; concrete curb; steel casing.
206	131.9	do.	C,W	S	Bottom of draw	Wood clamp; concrete curb.
208	--	--	None	N	--	Oil test. See log.

c/ D, domestic; I, irrigation; Ind, industrial; Of, oil field; P, public supply; S, stock; N, not used.  
d/ No water sample collected for analysis.  
e/ Water level reported.



## Records of wells in Ector County--Continued

No.	Distance from Odessa	Section	Survey or township, block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
209	14 miles southwest	23, SW $\frac{1}{4}$ SW $\frac{1}{4}$	T. 3 S. Blk. 44	W. P. Edwards	--	--	75	--	1
211	13 $\frac{1}{2}$ miles southwest	19, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Alphonse Kloh, et al.	--	--	150	6	2.5
212	13 miles southwest	13, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	R. L. York	--	--	192	6	1
213	11 $\frac{1}{2}$ miles southwest	10, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	192	12	1
214	13 $\frac{1}{2}$ miles southwest	4, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Alphonse Kloh	--	--	168	--	--
<u>d/</u> 215	13 miles southwest	do.	do.	do.	--	--	190	3	--
216	14 miles southwest	8, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	R. L. York	--	--	--	10	1
<u>d/</u> 217	do.	do.	do.	do.	--	--	--	10	--
<u>d/</u> 218	do.	do.	do.	do.	--	--	188	10	1
<u>d/</u> 219	do.	do.	do.	do.	--	--	--	10	1
<u>d/</u> 220	15 miles southwest	7, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Alphonse Kloh	Penn Oil Co.	--	3,744	--	--
<u>d/</u> 221	do.	16, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Mary E. & Ted Wallace	--	--	--	10	--
<u>d/</u> 223	16 $\frac{1}{2}$ miles southwest	3, NE $\frac{1}{4}$ NW $\frac{1}{4}$	Univ. Blk. 35	The Univ. of Texas	Landreth Prod. Co.	--	3,612	--	--
224	16 miles southwest	6, SW $\frac{1}{4}$ NW $\frac{1}{4}$	T. 3 S. Blk. 44	Sharbauer & Eidson	--	Old	77	--	1
<u>d/</u> 225	18 $\frac{1}{2}$ miles southwest	13, Cen. NE $\frac{1}{4}$	P.S.L. Blk. B16	W. E. Connell	J. S. Cosden	--	4,002	--	--
<u>d/</u> 226	19 $\frac{1}{2}$ miles southwest	24, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	The Tex. Co., et al.	--	4,013	--	--
<u>d/</u> 227	18 $\frac{1}{2}$ miles southwest	10, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	The Tex. Co. Cosden	--	3,860	--	--
228	do.	4, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	Old	77	--	1
229	do.	27, NE $\frac{1}{4}$ NE $\frac{1}{4}$	P.S.L. Blk. B15	Scharbauer & Eidson	--	--	80	--	--
<u>d/</u> 230	21 miles west	4, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	J. Scharbauer	Gibson & Johnson	--	4,012	--	--
237	23 miles southwest	21, SW $\frac{1}{4}$ SW $\frac{1}{4}$	P.S.L. Blk. B16	W. E. Connell	--	--	58	6	1
<u>d/</u> 238	24 $\frac{1}{2}$ miles southwest	16, NE $\frac{1}{4}$ NW $\frac{1}{4}$	G. & M. Blk. 46	E. A. Ibbetson	F. H. Wurtz	--	3,810	--	--
<u>d/</u> 239	27 miles west	5, SW $\frac{1}{4}$ NW $\frac{1}{4}$	F.S.L. Blk. B14	--Cowden	Llano Oil Co.	--	4,008	--	--
<u>d/</u> 240	26 miles west	7, SW $\frac{1}{4}$ SW $\frac{1}{4}$	P.S.L. Blk. B8	Earl Vest	--	1903	110	--	--

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

b/ B, bucket; C, cylinder; Of, centrifugal; E, electric; G, gasoline engine; H, hand; T, turbine; W, windmill; number indicates horsepower.

## Dan A. Davis, Project Superintendent

No.	Water Level		Pump and Power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
209	67.4	Mar. 31, 1937	C,W	S	Valley slope	Wood clamp; concrete curb.
211	149.1	do.	C,W	S	Draw	Wood clamp. Oil test, plugged back to 150 feet. See log.
212	184.8	May 12, 1937	C,G,-	Ind	Edge of Concho Bluff	Wood clamp; steel casing. Supplies Larkin Torpedo Co. plant.
213	179.6	Apr. 29, 1937	C,W	S	Bottom of sink	Wood clamp; steel casing. Measured while pumping. Oil test, plugged back to 192 feet.
214	--	Apr. 30, 1937	C,W	D,S,I	Bottom of draw	Wood clamp and curb. Reported garden irrigated.
215	--	do.	B,H	D	Edge of Concho Bluff	Concrete curb; steel casing.
216	183.6	May 1, 1937	C,G,-	Of	do.	Wood clamp. Measured while pumping. Supplies oil lease.
217	--	do.	C,G,-	Ind	do.	
218	183.9	do.	C,G,-	Of	do.	Measured while pumping. Supplies oil lease.
219	183.7	do.	C,G,-	Ind	do.	Do.
220	--	--	None	N	--	Oil test. See log.
221	--	May 8, 1937	C,G,-	Of	--	Steel casing. Supplies oil lease. Reported unfit for domestic use.
223	--	--	None	N	--	Oil test. See log.
224	73	Apr. 30, 1937	C,W	S	Slope	Dug well. Concrete and brick curb. Measured while pumping.
225	--	--	None	N	--	Oil test. See log.
226	--	--	None	N	--	Do.
227	--	--	None	N	--	Do.
228	70	Apr. 28, 1937	C,W	S	--	Driven well. Wood clamp; concrete curb. Temperature 68° F.
229	--	do.	C,W	S	--	Wood clamp.
230	--	--	None	N	--	Oil test. See log.
237	43.9	Apr. 29, 1937	C,W	S	--	Wood clamp; steel casing. Located in Crane County.
238	--	--	None	N	--	Oil test. See log.
239	--	--	None	N	--	Do.
240	74	<u>e/</u>	C,W	S	--	Former owner reported strong supply of hard water.

c/ D, domestic; I, irrigation; Ind, industrial; Of, oil field; F, public supply; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Table of Drillers' Logs, Ector County, Texas

Driller's log of well 4  
Grisham & Hunter, R. B. Cowden #1. 28  
miles northwest of Odessa.

	Thickness (feet)	Depth (feet)
Caliche- - - - -	35	35
Sand- - - - -	111	146
Red clay- - - - -	514	660
TOTAL DEPTH- - - - -		4657

Driller's log of well 20  
Landreth Production Co., Cowden Estate #1.  
23½ miles northwest of Odessa.

Caliche- - - - -	50	50
Sand- - - - -	20	70
Sand and gravel- - - - -	5	75
Red clay- - - - -	665	740
TOTAL DEPTH- - - - -		4470

Driller's log of well 22  
Dunning et al., Cummins #1-B. 23 miles  
northwest of Odessa.

Caliche- - - - -	50	50
Sand and gravel- - - - -	50	100
Red gravel- - - - -	700	800
TOTAL DEPTH - - - - -		--

Driller's log of well 25  
Landreth Production Co., Scharbauer #1-A.  
21 miles northwest of Odessa.

Caliche- - - - -	40	40
Yellow clay- - - - -	25	65
Sand- - - - -	10	75
Red clay- - - - -	735	810
TOTAL DEPTH- - - - -		4380

Driller's log of well 86  
Zweifel, J. L. Johnson #1. 11 miles west  
of Odessa.

Gypsum- - - - -	10	10
Sand- - - - -	65	75
Sand, hole full of water- -	30	105
Red sand- - - - -	10	115
White sand- - - - -	25	140
Red rock- - - - -	345	485
Lime- - - - -	15	500
Red rock- - - - -	80	580
Caving red rock- - - - -	200	780
Red rock- - - - -	160	940
Water sand- - - - -	135	1075
Red rock- - - - -	10	1085
Red rock, hole full of water	5	1090
Red sand, hole full of water	15	1105
Red rock- - - - -	50	1155
Sand- - - - -	5	1160
Water sand- - - - -	45	1205
Red mud- - - - -	10	1215
Sand, hole full of water -	70	1285

Driller's log of well 86--Continued  
Thickness Depth  
(feet) (feet)

Red mud- - - - -	15	1300
TOTAL DEPTH- - - - -		3605

Driller's log of well 103  
Exploration Co., T. & P. R.R. Co. #1. 19  
miles west of Odessa.

Limestone- - - - -	75	75
Sand- - - - -	110	185
Gravel- - - - -	2	187
Red shale - - - - -	278	465
Green shale- - - - -	15	480
Red shale- - - - -	160	640
"Red bed"- - - - -	260	900
TOTAL DEPTH- - - - -		4325

Driller's log of well 107  
Exploration Co., Slator #1. 21½ miles  
west of Odessa.

White lime- - - - -	40	40
Blue lime- - - - -	15	75
Blue shale- - - - -	20	55
Yellow sand- - - - -	25	100
Sand- - - - -	65	165
Lime- - - - -	5	170
Gravel and water- - - - -	10	180
Lime- - - - -	5	185
Red shale - - - - -	95	280
Shale- - - - -	50	330
Red shale- - - - -	260	590
Caving red rock- - - - -	70	660
"Red bed"- - - - -	40	700
Red shale- - - - -	75	775
Red sand- - - - -	30	805
Red rock- - - - -	15	820
Water sand- - - - -	5	825
Sandy shale - - - - -	75	900
Red sandy shale- - - - -	40	940
Red mud- - - - -	35	975
Red sandy shale- - - - -	75	1050
Sandy shale- - - - -	25	1075
Water sand- - - - -	30	1105
Sandy shale - - - - -	75	1180
Water sand- - - - -	15	1195
Red shale- - - - -	20	1215
Sandy shale- - - - -	10	1225
Red rock- - - - -	40	1265
TOTAL DEPTH- - - - -		4437

Driller's log of well 115  
Skinner et al., J. W. Buchanan #1. 16½  
miles west of Odessa.

"Cap rock"- - - - -	40	40
Red rock- - - - -	710	750
Sand, hole full of water- -	320	1070
Red sand- - - - -	40	1110

(Continued on next page)

Table of Drillers' Logs, Ector County--Continued

Driller's log of well 115--Continued

	Thickness (feet)	Depth (feet)
Sandy "red bed" - - - - -	75	1185
Red sand - - - - -	15	1200
TOTAL DEPTH - - - - -		3523

Driller's log of well 123

Honolulu Oil Co., Kloh #1. 13 miles west of Odessa.

Caliche - - - - -	5	5
Lime - - - - -	5	10
Shale - - - - -	40	50
Lime - - - - -	40	90
Shale - - - - -	10	100
Sand - - - - -	20	120
Yellow sand - - - - -	60	180
Sand and gravel - - - - -	25	205
"Red bed" - - - - -	535	740
Sand - - - - -	10	750
Red sandy shale - - - - -	100	850
"Red bed" - - - - -	80	930
Red sandy shale - - - - -	55	985
Sand, hole full of water - -	10	995
Red sandy shale - - - - -	95	1090
"Red bed" - - - - -	10	1100
Red sandy shale - - - - -	50	1150
"Red bed" - - - - -	95	1245
Water sand - - - - -	5	1250
"Red bed" - - - - -	50	1300
TOTAL DEPTH - - - - -		4259

Driller's log of well 132

Weekly et al., Cowden #1. 7 1/2 miles west of Odessa.

Caliche - - - - -	40	40
Sand - - - - -	45	85
Water sand - - - - -	18	103
Blue mud - - - - -	7	110
"Red bed" - - - - -	630	740
Water sand - - - - -	50	790
"Red bed" - - - - -	40	830
Water sand - - - - -	40	870
"Red bed" - - - - -	115	985
Sand, hole full of water - -	40	1025
Sandy red clay - - - - -	90	1115
TOTAL DEPTH - - - - -		4375

Driller's log of well 134

L. C. Harrison, et al., Addis #1. 5 1/2 miles west of Odessa.

Caliche - - - - -	40	40
Sandy lime - - - - -	20	60
Sand, hole full of water - -	20	80
"Red bed" - - - - -	700	780
Lime - - - - -	5	785
Water sand - - - - -	10	795
Brown and blue shale - - -	40	835

Driller's log of well 134--Continued

	Thickness (feet)	Depth (feet)
Red bed - - - - -	175	1010
Sand, hole full of water - -	15	1025
Lime - - - - -	5	1030
Water sand - - - - -	30	1060
Red sandy clay - - - - -	30	1090
Red shale - - - - -	30	1120
Water sand - - - - -	15	1135
"Red bed" - - - - -	45	1180
Water sand - - - - -	10	1190
Shale - - - - -	25	1215
Sand - - - - -	25	1240
Sandy shale - - - - -	6	1246
TOTAL DEPTH - - - - -		4061

Driller's log of well 146

C. P. Davis, Hendricks #1. 3-1/4 miles south of Odessa.

Caliche - - - - -	20	20
Yellow sandstone - - - - -	40	60
Sand, hole full of water - -	70	130
White clay - - - - -	3	133
"Red bed" - - - - -	307	440
Pink rock - - - - -	60	500
Red rock - - - - -	305	805
Sand, hole full of water - -	20	825
Sandstone - - - - -	30	855
Red rock - - - - -	45	900
Sand, increase in water - -	10	910
Blue clay and red rock - -	20	930
Red rock - - - - -	85	1015
TOTAL DEPTH - - - - -		4860

Driller's log of well 148

-----, H. H. Emmons. 1/2 mile south of Odessa.

Dark soil - - - - -	2	2
Sand and caliche - - - - -	1	3
Yellow caliche - - - - -	15	18
Hard yellow lime - - - - -	17	35
Pebbles and soft lime or gumbo - - - - -	7	42
White sand and silt, water -	5	47
Water sand - - - - -	10	57
Soft red and blue sandstone -	8	65
Water sand and gravel - - -	22	87
TOTAL DEPTH - - - - -		87

Driller's log of well 150

Odessa High School. Odessa.

Soft brown sandy loam - - -	4	4
Hard caliche - - - - -	11	15
Caliche and white clay - -	5	20
Sandy lime and sand - - -	4	24
Hard fossiliferous sand - -	5	29
Hard sandy limestone - - -	5	34

Table of Drillers' Logs, Ector County--Continued

Driller's log of well 150--Continued

	Thickness (feet)	Depth (feet)
Fossiliferous limestone, sand- - - - -	3	37
Soft blue marl, sandy lime, and shells- - - - -	3	40
Hard lime, shale, and sand- -	3	43
Hard gray lime and sand- - -	3	46
Hard white lime and sand- - -	4	50
Hard fine white sand, ochre- colored clay and siderite- -	5	55
Soft fine white and ochre- colored sand, water- - - -	5	60
Soft fine yellow water sand -	5	70
Hard fine yellow sand- - - -	10	80
Hard light gray sand and black chert- - - - -	9	89
Soft light gray sand and chert, water- - - - -	8	97
Soft gray sand and chert- - -	7	104
Hard coarse sand and chert- -	13	117
Hard coarse gray and yellow sand, siderite and chert- -	5	122
Hard sand and pyrite, water -	3	125
Gummy silty pale green clay -	3	128
Gummy dark red and green clay	2	130
TOTAL DEPTH- - - - -		130

Driller's log of well 151  
----- City of Odessa #8. Odessa.

Red sandy soil- - - - -	3	3
Yellow clay and caliche- - -	10	13
Yellow sandy clay- - - - -	11	24
Hard sandy caliche- - - - -	4	28
Hard lime- - - - -	4	32
Yellow clay- - - - -	18	50
Hard lime- - - - -	5	55
Yellow clay- - - - -	15	70
Water sand- - - - -	8	78
Hard sand- - - - -	12	90
Water sand- - - - -	43	133
Green clay- - - - -	4	137
Red clay- - - - -	3	140
TOTAL DEPTH- - - - -		140

Driller's log of well 157  
----- City of Odessa #6. Odessa.

Soil- - - - -	5	5
Clay- - - - -	13	18
Lime and boulders- - - - -	7	25
Clay- - - - -	10	35
Lime and boulders- - - - -	15	50
Hard lime- - - - -	10	60
Hard water sand- - - - -	40	100
Soft water sand- - - - -	5	105
Soft lime- - - - -	10	115
Soft white water sand- - - -	11	126

Driller's log of well 157--Continued

	Thickness (feet)	Depth (feet)
White clay- - - - -	8	134
Red clay- - - - -	5	139
TOTAL DEPTH- - - - -		139

Driller's log of well 158  
----- City of Odessa #7. Odessa.

Soil- - - - -	6	6
Caliche- - - - -	14	20
Clay- - - - -	30	50
Sandy shale- - - - -	15	65
Water sand- - - - -	5	70
Sandy clay- - - - -	35	105
Water sand- - - - -	20	125
Blue clay- - - - -	5	130
TOTAL DEPTH- - - - -		130

CASING RECORD: 12 feet of 8-1/4 inch casing.

Driller's log of well 159  
----- City of Odessa #9. Odessa.

Sandy soil- - - - -	3	3
Sandy yellow clay, caliche- -	23	26
Hard lime and shells- - - -	6	32
Hard lime and yellow clay - -	3	35
Hard lime, clay and sand- - -	3	38
Lime, yellow clay, and sand -	2	40
Yellow clay- - - - -	3	43
Yellow clay and lime- - - - -	6	49
Hard sandy lime- - - - -	6	55
Yellow clay and sand- - - - -	10	65
Fine yellow water sand- - - -	15	80
Hard yellow sand- - - - -	10	90
Gray water sand- - - - -	35	125
Gray water sand and gravel- -	5	130
Coarse gray water sand and gravel- - - - -	8	138
Pale green clay- - - - -	5	143
Red clay- - - - -	1	144
TOTAL DEPTH- - - - -		144

Driller's log of well 160  
----- A. H. Dennison. 3/4 mile north-  
west of Odessa.

Topsoil- - - - -	2	2
Caliche- - - - -	25	27
No record- - - - -	56	63
Water sand- - - - -	12	75
No water- - - - -	8	83
Water sand- - - - -	7	90
Fine water sand- - - - -	10	100
Sand- - - - -	4	104
TOTAL DEPTH- - - - -		104

Table of drillers' Logs, Ector County--Continued

Driller's log of well 169  
Farmers Oil Co., Newnham #1. 1-1/4 miles  
northeast of Odessa.

	Thickness (feet)	Depth (feet)
Lime- - - - -	17	17
Sand, water at 93 feet- - -	117	134
Sand and white clay- - - -	17	151
Ferruginous red clay- - - -	122	273
Red clay- - - - -	48	321
Ferruginous red clay- - - -	7	328
Red clay- - - - -	285	613
Red clay, sand- - - - -	69	682
Red clay and sandy shale- -	27	709
Red clay and sandstone- - -	56	765
Limy red clay- - - - -	23	788
Red clay and sandstone- - -	44	832
Red clay and shale- - - -	61	893
Red clay, shale, and sand -	48	941
Sandstone- - - - -	27	968
TOTAL DEPTH- - - - -		1096

Driller's log of well 185  
V. R. Shoup, Davis #1. 5 1/2 miles south of  
Odessa.

	Thickness (feet)	Depth (feet)
Surface materials- - - - -	7	7
Lime- - - - -	6	13
Water sand- - - - -	10	23
Red sand- - - - -	17	40
Sand- - - - -	8	48
Water sand- - - - -	75	123
Blue clay- - - - -	3	126
Red clay- - - - -	199	325
Red sand- - - - -	2	327
Red clay- - - - -	31	358
Sandy shale - - - - -	2	360
Brown shale- - - - -	25	385
Red and brown sand- - - - -	3	388
Shale- - - - -	2	390
Brown shale- - - - -	65	455
Sand- - - - -	35	490
Red clay- - - - -	60	550
Brown sandy lime- - - - -	193	743
TOTAL DEPTH- - - - -		1765

Driller's log of well 197  
D. D. Thomas, et al., Edwards #1. 11 1/2  
miles south of Odessa.

	Thickness (feet)	Depth (feet)
Caliche- - - - -	55	55
Limestone- - - - -	15	70
Yellow clay- - - - -	5	75
Yellow sand- - - - -	10	85
Sand- - - - -	11	96
Blue mud, water- - - - -	69	165
Sand, water- - - - -	45	210
White mud- - - - -	5	215
Sand, hole full of water- -	15	230
Red clay- - - - -	647	877
Sand, hole full of water- -	13	890
TOTAL DEPTH- - - - -		3227

Driller's log of well 200  
Wentz Oil Corp., Henderson #1. 7 1/2 miles  
southwest of Odessa.

	Thickness (feet)	Depth (feet)
Lime- - - - -	50	50
Sand- - - - -	10	60
Lime- - - - -	15	75
Sand- - - - -	65	140
Lime- - - - -	10	150
Gumbo- - - - -	5	155
Red bed- - - - -	45	200
Red rock- - - - -	30	230
Blue shale- - - - -	110	340
Red rock- - - - -	350	690
Red sand, hole full of water	90	780
Sand- - - - -	20	800
"Red bed"- - - - -	10	810
White sand- - - - -	8	818
"Red bed"- - - - -	27	845
Broken sand- - - - -	20	865
Sandy shale- - - - -	20	885
Sand- - - - -	10	895
Sandy shale- - - - -	80	975
"Red bed"- - - - -	65	1040
Sand, hole full of water- -	20	1060
Hard sand- - - - -	5	1065
"Red bed"- - - - -	5	1070
Hard sand- - - - -	15	1085
Red rock- - - - -	20	1105
Sand- - - - -	20	1125
Hard sand- - - - -	5	1130
Red rock- - - - -	40	1170
Sand, hole full of water- -	10	1180
Sand- - - - -	40	1220
"Red bed" and shells- - - -	15	1235
Sand, hole full of water- -	47	1282
"Red bed"- - - - -	28	1310
TOTAL DEPTH- - - - -		3408

Driller's log of well 208  
Simms Oil Co., Edwards #1. 1.4 miles  
southwest of Odessa.

	Thickness (feet)	Depth (feet)
Chalk- - - - -	25	25
Pink chalk- - - - -	5	30
Red rock- - - - -	90	120
Dry sand- - - - -	20	140
Red rock- - - - -	30	170
Sand- - - - -	120	290
Red rock- - - - -	5	295
Caving red sand - - - - -	155	450
Dry sand- - - - -	240	690
Red rock- - - - -	80	770
Gray water sand- - - - -	15	785
Red rock- - - - -	1	786
Gray sand- - - - -	24	810
Sandy shale- - - - -	5	815
Shale and sand- - - - -	7	822
Red rock- - - - -	48	870
Red sand- - - - -	20	890

Table of Drillers' Logs, Ector County--Continued

Driller's log of well 208--Continued

	Thickness (Feet)	Depth (feet)
Red sand-	20	890
Sand and red rock-	10	900
Gray sand-	31	931
White rock-	14	945
Red sand-	20	965
Red rock-	45	1010
Lime and shells	2	1012
Red rock-	15	1027
Red sand, hole full of water-	38	1065
Gray lime-	3	1068
Red rock-	7	1075
Water sand-	15	1090
Hard sand-	12	1102
TOTAL DEPTH-		3732

Driller's log of well 211  
Sun Oil Co., et al., Kloh #1. 13½ miles southwest of Odessa.

	Thickness (Feet)	Depth (feet)
Rock-	5	5
Sand-	95	100
Sand, water	60	160
Red rock-	525	685
Sand-	10	695
"Red bed", water-	70	765
Sand-	25	790
Red rock-	5	795
Sandy red rock-	50	845
Red rock-	40	885
Gypsum-	35	920
Red rock-	150	1070
Sand, hole full of water-	5	1075
Sand-	72	1147
Broken sand, red rock-	13	1160
White sand, water-	45	1205
Red rock-	20	1225
Brown sand-	15	1240
Water sand-	60	1300
Red mud-	50	1350
TOTAL DEPTH-		2575

Hole plugged back to 150 feet; well now used as water well.

Driller's log of well 220  
Penn Oil Co., Kloh #1. 15 miles southwest of Odessa.

	Thickness (Feet)	Depth (feet)
Surface materials-	50	50
Yellow shale-	10	60
Yellow shale and sand-	40	100
Red rock-	50	150
Red sandy shale-	400	550
Hard red sandy shale	50	600
Hard gray sandy shale-	10	610
Red sandy shale-	30	640
Gray sand-	15	655
Red rock-	95	750
Red sandy shale-	20	770

Driller's log of well 220--Continued

	Thickness (feet)	Depth (feet)
Brown and gray sand and gravel-	15	785
Brown and gray sand, hole full of water-	20	805
Red shale-	20	825
Red sandy shale-	15	840
Red sand, water-	25	865
Red rock-	25	890
TOTAL DEPTH -		3744

Driller's log of well 223  
Landreth Production Co., University #5-T. 16½ miles southwest of Odessa,

	Thickness (Feet)	Depth (feet)
Gypsum and sand-	45	45
Sand and red rock-	40	85
Red rock-	285	370
"Red bed"-	95	465
Red rock-	15	480
Broken lime, water-	15	495
Red shale-	35	530
"Red bed"-	345	875
Gypsum and lime-	20	895
Salt-	95	990
TOTAL DEPTH-		3612

Driller's log of well 225  
J. S. Cosden, Connell #1-A. 18½ miles southwest of Odessa.

	Thickness (Feet)	Depth (feet)
Red sand-	5	5
White sand-	25	30
Red sand-	80	110
Caving red rock-	175	285
Gray shale-	10	295
Red rock-	125	420
Gray lime-	10	430
Sand, hole full of water	25	455
Red rock-	5	460
Red sand-	15	475
Red rock-	370	845
TOTAL DEPTH-		4002

Driller's log of well 226  
The Texas Co., et al., Connell #1. 19½ miles southwest of Odessa.

	Thickness (Feet)	Depth (feet)
Surface materials-	10	10
Sand-	28	38
Red rock-	287	325
Brown shale-	20	345
Red rock-	107	452
Sand, water-	18	470
Red rock-	25	495
Red sand-	20	515
Red shale-	20	535
Red rock-	10	545
Red sandy shale-	140	685

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Table of Drillers' Logs, Ector County--Continued

Driller's log of well 226--Continued

	Thickness (feet)	Depth (feet)
Red sand- - - - -	15	700
Red shale - - - - -	30	730
Red sandy shale - - - - -	125	855
Red sand and shells - - - - -	55	910
Hard white anhydrite- - - - -	40	950
Salt- - - - -	35	985
TOTAL SEPTH - - - - -		4013

Driller's log of well 227

The Texas Co.--Cosden, Connell #1. 18 $\frac{1}{2}$  miles southwest of Odessa.

Soft caliche- - - - -	45	45
Red sand- - - - -	40	85
Red rock- - - - -	190	275
Red bed- - - - -	208	483
Water sand - - - - -	18	501
Red rock- - - - -	44	545
Red mud - - - - -	210	755
TOTAL DEPTH - - - - -		3860

Driller's log of well 230

Gibson & Johnson, Scharbauer #1. 21 miles west of Odessa.

Sand- - - - -	4	4
Caliche- - - - -	6	10
Red shale- - - - -	25	35
Sandy shale - - - - -	20	55
Red shale- - - - -	355	410
Sandy shale, water- - - - -	20	430
Red sandy shale- - - - -	30	460
Water sand- - - - -	25	485
Red shale- - - - -	140	625
Sandy shale- - - - -	40	665
Red sand, water- - - - -	50	715
Red sandy shale- - - - -	10	725
Sandy shale, hole full of water	20	745
Red shale- - - - -	5	750
Red sand- - - - -	65	815
Red shale- - - - -	5	820
Red sand- - - - -	25	845
Red shale- - - - -	5	850
Red sand- - - - -	30	880
TOTAL DEPTH- - - - -		4012

Driller's log of well 238

Wurtz, Ibbetson #1. 24 $\frac{1}{2}$  miles southwest of Odessa.

Caliche- - - - -	8	8
Sand and clay, water - - - - -	112	120
"Red bed"- - - - -	245	365
Gray lime- - - - -	10	375
"Red bed", water at 485- - - - -	136	511
Sandy anhydrite- - - - -	5	516
Sand and "red bed"- - - - -	24	540
Sandy shale and red rock- - - - -	20	560
Red rock- - - - -	15	575
TOTAL DEPTH - - - - -		3610

Driller's log of well 239

Llano Oil Co., Cowden #1. 27 miles west of Odessa.

	Thickness (feet)	Depth (Feet)
Surface materials- - - - -	40	40
Gypsum- - - - -	10	50
Sand, water at 95 feet- - - - -	63	113
Red sand- - - - -	6	119
Red shale- - - - -	31	150
Red rock- - - - -	65	215
Sand, water- - - - -	305	520
Red rock- - - - -	15	535
Water sand- - - - -	5	540
Red rock- - - - -	15	555
Water sand- - - - -	20	575
Red rock- - - - -	5	580
Sand- - - - -	20	600
Red rock- - - - -	10	610
Sand- - - - -	80	690
Red rock- - - - -	170	860
TOTAL DEPTH- - - - -		4008



Logs of test wells drilled by W. P. A. labor in Ector County, Texas  
(Samples examined and classified by Dan A. Davis, Project Superintendent)

Well 6

Near edge of Concho Bluff, E. R. Thomas Estate, SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 42, blk. 46, T. 1 N., T. & P. R.R. Co., Survey, 26 miles west of Odessa.

	Thickness (feet)	Depth (feet)
Brown sandy soil- - - - -	$\frac{1}{2}$	$\frac{1}{2}$
Yellow sandy clay and caliche	4	4 $\frac{1}{2}$
Caliche- - - - -	1	5 $\frac{1}{2}$
No water sample collected. Apr. 9, 1937.		

Well 16

R. B. Cowden tract, NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 2, blk. 45, T. 1 N., T. & P. R.R. Co. Survey, 26 $\frac{1}{2}$  miles northwest of Odessa.

Brown sandy soil- - - - -	1	1
Soil and caliche pebbles- -	1	2
Caliche- - - - -	2	4
No water sample collected. Apr. 13, 1937.		

Well 17

Bottom of sink, Frank Cowden tract, SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 8, blk. 44, T. 1 N., T. & P. R.R. Co. Survey, 24 miles northwest of Odessa.

Brown sandy soil- - - - -	4	4
Yellow sandy clay- - - - -	1	5
Hard caliche- - - - -	$\frac{1}{2}$	5 $\frac{1}{2}$
White sandy clay- - - - -	2	7 $\frac{1}{2}$
Yellow sandy clay- - - - -	2 $\frac{1}{2}$	10
Caliche- - - - -	3	13
Pink sandstone- - - - -	3	16
No water sample collected. Apr. 14, 1937.		

Well 33

Bottom of narrow draw, O. B. Holt Jr., tract, NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 1, blk. A, Public School Land, T. 1 N., 19 miles northwest of Odessa.

Brown sandy soil- - - - -	1	1
Brown sandy clay- - - - -	2	3
Yellow sandy clay- - - - -	1 $\frac{1}{2}$	4 $\frac{1}{2}$
Hard yellow clay- - - - -	2 $\frac{1}{2}$	7
Caliche- - - - -	1	8
No water sample collected. Mar. 5, 1937.		

Well 41

Bottom of narrow draw, Midland Farms Co. tract, NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 45, blk. 42, T. 1 N., T. & P. R.R. Co. Survey, 17 miles northwest of Odessa.

Red sandy clay- - - - -	1	1
Yellow sandy clay- - - - -	1	2
Caliche- - - - -	4	6
No water sample collected. Mar. 9, 1937.		

Well 44

Upland, Midland Farms Co. tract, SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 28, blk. 42, T. 1 N., T. & P. R.R. Co. Survey, 16 $\frac{1}{2}$  miles north of Odessa.

	Thickness (feet)	Depth (feet)
Soil- - - - -	2 $\frac{1}{2}$	2 $\frac{1}{2}$
Yellow sandy clay- - - - -	11 $\frac{1}{2}$	14
Caliche- - - - -	2	16
No water sample collected. Mar. 3, 1937.		

Well 45

Upland, Midland Farms Co. tract, NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 30, blk. 42, T. 1 N., T. & P. R.R. Co. Survey, 15 miles north of Odessa.

Brown sandy soil- - - - -	1	1
Red sandy silt- - - - -	5	6
Yellow sandy clay- - - - -	1 $\frac{1}{2}$	7 $\frac{1}{2}$
Red sandy clay- - - - -	1	8 $\frac{1}{2}$
Yellow sandy clay- - - - -	2	10 $\frac{1}{2}$
Red sandy clay and gravel- -	$\frac{1}{2}$	11
Yellow limy sand- - - - -	1	12
Caliche- - - - -	2	14
No water sample collected. Mar. 6, 1937.		

Well 50

Upland, Midland Farms Co. tract, NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 4, blk. 42, T. 1 N., T. & P. R.R. Co. Survey, 16 miles north of Odessa.

Brown sandy loam- - - - -	4 $\frac{1}{2}$	4 $\frac{1}{2}$
Yellow sandy clay- - - - -	4 $\frac{1}{2}$	9
Caliche- - - - -	4	13
No water sample collected. Mar. 1, 1937.		

Well 51

Edge of shallow dry lake basin, Midland Farms Co. tract, NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 45, blk. 41, T. 1 N., T. & P. R.R. Co. Survey, 16 $\frac{1}{2}$  miles north of Odessa, located in Andrews County.

Brown sandy soil- - - - -	1	1
Light brown sandy clay- - - -	4	5
Yellow sandy clay- - - - -	2 $\frac{1}{2}$	7 $\frac{1}{2}$
Hard caliche- - - - -	1 $\frac{1}{2}$	8
Yellow sandy clay- - - - -	5	13
No water sample collected. Feb. 25, 1937.		

Well 53

Bottom of long, wide depression, Midland Farms Co. tract, SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 15, blk. 41, T. 1 N., T. & P. R.R. Co. Survey, 15 $\frac{1}{2}$  miles north of Odessa.

Brown soil- - - - -	$\frac{1}{2}$	$\frac{1}{2}$
Light brown sandy clay- - - -	10	10 $\frac{1}{2}$
Hard caliche- - - - -	1	11 $\frac{1}{2}$
Yellow sandy clay- - - - -	2	13 $\frac{1}{2}$
Rock- - - - -	-	13 $\frac{1}{2}$
No water sample collected. Feb. 25, 1937.		

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

Well 58

Bottom of small dry lake basin, H. S. Ratliff tract, NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 17, blk. 41, T. 1 S., T. & P. R.R. Co. Survey, 10 $\frac{1}{2}$  miles north of Odessa.

	Thickness (feet)	Depth (feet)
Black soil- - - - -	4	4
Fine brown silt - - - - -	1 $\frac{1}{2}$	5 $\frac{1}{2}$
Fine light brown silt - - - - -	1 $\frac{1}{2}$	6
Yellow sandy clay- - - - -	3	9
Brown sandy clay- - - - -	1 $\frac{1}{2}$	10 $\frac{1}{2}$
Dark brown sandy clay and gravel- - - - -	1 $\frac{1}{2}$	12
Light brown sandy clay- - - - -	1	13
Yellow sandy clay- - - - -	1 $\frac{1}{2}$	14 $\frac{1}{2}$
Yellow limy sand- - - - -	3 $\frac{1}{2}$	18
No water sample collected. Mar. 11, 1937.		

Well 63

J. M. Radford tract, NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 34, blk. 41, T. 1 S., T. & P. R.R. Co. Survey, 9 $\frac{1}{2}$  miles northeast of Odessa.

Brown soil- - - - -	1	1
Gray sandy clay- - - - -	2	3
Caliche- - - - -	-	3
No water sample collected. Mar. 22, 1937.		

Well 65

Bottom of large dry lake basin, H. L. Ratliff tract, NE $\frac{1}{4}$ SW $\frac{1}{2}$  sec. 48, blk. 42, T. 1 S., T. & P. R.R. Co. Survey, 5 miles north of Odessa.

Black soil- - - - -	1	1
Brown silt- - - - -	3	4
Gray silt- - - - -	1 $\frac{1}{2}$	4 $\frac{1}{2}$
Light gray silt- - - - -	2	6 $\frac{1}{2}$
White clay- - - - -	1 $\frac{1}{2}$	7
Yellow sandy clay- - - - -	6	13
Rock- - - - -	-	13
No water sample collected. Mar. 22, 1937.		

Well 81

Upland, J. L. Johnson tract, SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 46, blk. 43, T. 1 S., T. & P. R.R. Co. Survey, 8 $\frac{1}{2}$  miles northwest of Odessa.

Brown sandy soil- - - - -	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Light brown sandy silt- - - - -	3	3 $\frac{1}{2}$
Light brown sandy clay- - - - -	1 $\frac{1}{2}$	5
Yellow sandy clay- - - - -	3	8
Pink sandy clay- - - - -	3	11
Yellow sandy clay- - - - -	1 $\frac{1}{2}$	12 $\frac{1}{2}$
Yellow sandy clay and gravel- - - - -	2	14 $\frac{1}{2}$
Hard sandy yellow clay- - - - -	-	14 $\frac{1}{2}$
No water sample collected. Mar. 15, 1937.		

Well 82

Bottom of shallow draw, Mrs. A. W. Wight tract, NE $\frac{1}{4}$ SW $\frac{1}{2}$  sec. 9, blk. 43, T. 1 S., T. & P. R.R. Co. Survey, 13 miles northwest of Odessa.

	Thickness (feet)	Depth (feet)
Dark brown sandy soil- - - - -	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Red sandy clay- - - - -	3 $\frac{1}{2}$	5
Hard yellow sandy clay- - - - -	7	12
No water sample collected. Mar. 10, 1937.		

Well 88

Bottom of small dry lake basin, J. L. Johnson tract, SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 37, blk. 44, T. 1 S., T. & P. R.R. Co. Survey, 12 miles west of Odessa.

Brown sandy soil- - - - -	3	3
Brown sandy silt- - - - -	1	4
Brown sandy clay- - - - -	1	5
Yellow sandy clay- - - - -	3 $\frac{1}{2}$	8 $\frac{1}{2}$
Brown sandy clay- - - - -	1	9 $\frac{1}{2}$
Yellow sandy clay- - - - -	1 $\frac{1}{2}$	10
White sandy clay- - - - -	4	14
Yellow sand- - - - -	2	16
White sand- - - - -	3	19
Yellow sand- - - - -	1	20
Coarse white sand and gravel	2	22
Yellow sand- - - - -	5	27
Hard yellow sandy clay - - -	3	30
No water sample collected. Mar. 17, 1937.		

Well 98

Bottom of small draw, Clarence Scharbauer tract, SW $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 20, blk. 44, T. 1 S., T. & P. R.R. Co. Survey, 17 miles west of Odessa.

Brown sandy soil- - - - -	1 $\frac{1}{2}$	1 $\frac{1}{2}$
Red sandy clay- - - - -	1	1 $\frac{1}{2}$
Yellow sandy clay- - - - -	1	2 $\frac{1}{2}$
White sandy clay- - - - -	4 $\frac{1}{2}$	7
Yellow sandy clay- - - - -	1 $\frac{1}{2}$	8 $\frac{1}{2}$
Rock- - - - -	-	8 $\frac{1}{2}$
No water sample collected. Apr. 10, 1937.		

Well 106

Flat upland, tract of Alphonse Kloh, et al., NW $\frac{1}{2}$ SE $\frac{1}{2}$  sec. 23, blk. 45, T. 1 S., T. & P. R.R. Co. Survey, 19 $\frac{1}{2}$  miles west of Odessa.

Black soil- - - - -	2	2
Red sandy clay- - - - -	4	6
Caliche- - - - -	-	6
No water sample collected. Apr. 12, 1937.		

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

Well 110

Bottom of draw, tract of Alphonse Kloh, et al., NE $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 45, blk. 45, T. 1 S., T. & P. R.R. Co. Survey, 20 miles west of Odessa.

	Thickness (feet)	Depth (feet)
Brown sandy soil- - - - -	1	1
Yellow silt- - - - -	9	10
Limy gravel and clay- - - - -	6	16
No water sample collected. Apr. 29, 1937.		

Well 111

Slope west of Concho Bluff, E. R. Thomas Estate, NE $\frac{1}{2}$ NE $\frac{1}{2}$  sec. 43, blk. 45, T. 1 S., T. & P. R.R. Co. Survey, 21 $\frac{1}{2}$  miles west of Odessa.

	Thickness (feet)	Depth (feet)
Red sandy soil- - - - -	$\frac{1}{2}$	$\frac{1}{2}$
Red clay- - - - -	10	10 $\frac{1}{2}$
No water sample collected. Apr. 28, 1937.		

Well 113

Bottom of broad draw, Paul Slator tract, SE $\frac{1}{2}$ NW $\frac{1}{2}$  sec. 11, blk. 45, T. 2 S., T. & P. R.R. Co. Survey, 17 miles west of Odessa.

	Thickness (feet)	Depth (feet)
Brown soil- - - - -	1	1
Yellow clay and limy gravel -	23	24
No water sample collected. May 5, 1937.		

Well 116

Slope west of Concho Bluff, J. Scharbauer tract, NW $\frac{1}{2}$ NE $\frac{1}{2}$  sec. 22, blk. 45, T. 2 S., T. & P. R.R. Co., Survey, 17 miles west of Odessa.

	Thickness (feet)	Depth (feet)
Brown sandy soil- - - - -	2	2
Yellow clay and caliche - - -	5	7
Caliche- - - - -		7
No water sample collected. Apr. 29, 1937.		

Well 118

Tract of Alphonse Kloh, et al., NW $\frac{1}{2}$ NE $\frac{1}{2}$  sec. 29, blk. 44, T. 2 S., T. & P. R.R. Survey, 14 miles west of Odessa.

	Thickness (feet)	Depth (feet)
Brown soil- - - - -	2 $\frac{1}{2}$	2 $\frac{1}{2}$
Yellow clay- - - - -	1	3 $\frac{1}{2}$
White clay- - - - -	2 $\frac{1}{2}$	6
Yellow clay- - - - -	1	7
Rock- - - - -		7
No water sample collected. Apr. 27, 1937.		

Well 121

Bottom of draw, tract of Alphonse Kloh, et al., NE $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 3, blk. 44, T. 2 S., T. & P. R.R. Co. Survey, 13 miles west of Odessa.

	Thickness (feet)	Depth (feet)
Brown sandy soil- - - - -	$\frac{1}{2}$	$\frac{1}{2}$
White clay and limy gravel- -	5 $\frac{1}{2}$	6
Caliche- - - - -		6
No water sample collected. Apr. 24, 1937.		

Well 125

Bottom of small sink, W. F. Bates Estate, NW $\frac{1}{2}$ SE $\frac{1}{2}$  sec. 38, blk. 44, T. 2 S., T. & P. R.R. Co. Survey, 11 $\frac{1}{2}$  miles southwest of Odessa.

	Thickness (feet)	Depth (feet)
Brown soil- - - - -	1	1
Gray sandy clay - - - - -	5	6
Caliche- - - - -		6
No water sample collected. May 9, 1937.		

Well 133

Eliot Cowden tract, NW $\frac{1}{2}$ SE $\frac{1}{2}$  sec. 41, blk. 43, T. 2 S., T. & P. R. R. Co. Survey, 8 $\frac{1}{2}$  miles southwest of Odessa.

	Thickness (feet)	Depth (feet)
Brown soil- - - - -	3	3
Yellow sandy clay and caliche	9	11
No water sample collected. Mar. 27, 1937.		

Well 137

Bottom of draw, May Witcher tract, SE $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 25, blk. 43, T. 2 S., T. & P. R.R. Co. Survey, 4 miles west of Odessa.

	Thickness (feet)	Depth (feet)
Sandy brown soil- - - - -	1	1
Yellow clay and sand- - - - -	6	7
Sand, gravel and clay - - - -	4	11
Rock- - - - -		11
No water sample collected. May 18, 1937.		

Well 147

Edge of draw, tract of Mollie Graham, et al., SE $\frac{1}{2}$ NW $\frac{1}{2}$  sec. 33, blk. 42, T. 2 S., T. & P. R.R. Co. Survey, 1 $\frac{3}{4}$  miles south of Odessa.

	Thickness (feet)	Depth (feet)
Caliche- - - - -	2	2
Yellow sandy clay- - - - -	10	12
Fine yellow sand and clay- -	8	20
Struck water at 18 feet.		

Water level, 18.1 feet below top of ground, 1 hour after hole completed. No water sample collected. Feb. 22, 1937.

Well 168

Bottom of small dry lake basin, J. M. Gist tract, SW $\frac{1}{2}$ SE $\frac{1}{2}$  sec. 14, blk. 42, T. 2 S., T. & P. R.R. Survey, 1 $\frac{3}{4}$  miles north of Odessa.

	Thickness (feet)	Depth (feet)
Black silt- - - - -	5	5
Brown silt- - - - -	2	7
Light brown silt- - - - -	3	10
Yellow iron-stained sand- -	3 $\frac{1}{2}$	13 $\frac{1}{2}$
Gray limy sand- - - - -	2	15 $\frac{1}{2}$
Gray sandy clay- - - - -	1	16 $\frac{1}{2}$
Hard red sanstone- - - - -	1	17 $\frac{1}{2}$
Hard gray sand- - - - -	1	18 $\frac{1}{2}$
No water sample collected. Mar. 24, 1937.		

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

Well 170

Bottom of draw, Julia Kone Martin, NE<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>2</sub> sec. 38, blk. 42, T. 2 S., T. & P. R.R. Co. Survey, 2<sup>1</sup>/<sub>2</sub> miles southeast of Odessa.

	Thickness (feet)	Depth (feet)
Brown sandy soil- - - - -	1	1
Light brown sandy silt- - - - -	4	5
Yellow sandy clay- - - - -	3	8
White sand and gravel- - - - -	1	9
Rock- - - - -		9
No water sample collected. Mar. 23, 1937.		

Well 174

Bottom of small draw, SW<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>2</sub> sec. 44, blk. 41, T. 2 S., T. & P. R.R. Co. Survey, 5 miles southeast of Odessa, located in Midland County.

Brown sandy soil- - - - -	3	3
Light brown silt- - - - -	2	5
Gray sandy clay- - - - -	2	7
White clay- - - - -	2	9
Yellow sandy clay- - - - -	5	14
Yellow sandy clay, water- - - - -	2	16
Fine yellow sand- - - - -	1	17
Struck water at 14 feet.		
Water level, 12.9 feet below top of ground, <sup>1</sup> / <sub>2</sub> hour after hole completed.		
No water sample collected. Mar. 23, 1937.		

Well 175

Bottom of draw, SW<sup>1</sup>/<sub>2</sub>NW<sup>1</sup>/<sub>2</sub> sec. 8, blk. 41, T. 3 S., T. & P. R.R. Co. Survey, 6 miles southeast of Odessa, located in Midland County.

Brown sandy soil- - - - -	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>
Yellow sandy clay- - - - -	1	3 <sup>1</sup> / <sub>2</sub>
White limy sand- - - - -	4 <sup>1</sup> / <sub>2</sub>	8
White sandy clay- - - - -	3	11
White sand- - - - -	2 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub>
Struck water at 12 <sup>1</sup> / <sub>2</sub> feet.		
Water level, 12.3 feet below top of ground, 12 hours after hole completed.		
Water sample collected. Apr. 7, 1937.		

Well 179

Bottom of broad shallow sink, Dora Roberts tract, NE<sup>1</sup>/<sub>2</sub>NW<sup>1</sup>/<sub>2</sub> sec. 24, blk. 42, T. 3 S., T. & P. R.R. Co. Survey, 7 miles southeast of Odessa.

Brown sandy soil- - - - -	<sup>1</sup> / <sub>2</sub>	<sup>1</sup> / <sub>2</sub>
Yellow sandy clay- - - - -	15	15 <sup>1</sup> / <sub>2</sub>
White sand- - - - -		16
White sandy clay- - - - -	1 <sup>1</sup> / <sub>2</sub>	17 <sup>1</sup> / <sub>2</sub>
Buff-colored sandy clay- - - - -	1 <sup>1</sup> / <sub>2</sub>	19
Yellow sandy clay- - - - -	4 <sup>1</sup> / <sub>2</sub>	23 <sup>1</sup> / <sub>2</sub>
Yellow limy sand- - - - -	1	24 <sup>1</sup> / <sub>2</sub>
Rock- - - - -		24 <sup>1</sup> / <sub>2</sub>
No water sample collected. Apr. 8, 1937.		

Well 187

Bottom of small sink, J. H. Emmons tract, SE<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub> sec. 8, blk. 42, T. 3 S., T. & P. R.R. Co. Survey, 5 miles south of Odessa.

	Thickness (feet)	Depth (feet)
Black soil- - - - -	4	4
Yellow sandy clay- - - - -	4	8
Rock- - - - -		8
No water sample collected. May 19, 1937.		

Well 190

Daisy Kelly tract, SW<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub> sec. 18, blk. 42, T. 3 S., T. & P. R.R. Co. Survey, 6<sup>1</sup>/<sub>2</sub> miles south of Odessa.

Black soil- - - - -	4	4
Hard yellow sandy clay and caliche- - - - -	10	14
No water sample collected. Mar. 29, 1937.		

Well 194

Large dry lake basin, county road, NW<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub> sec. 4, blk. 42, T. 4 S., T. & P. R.R. Co. Survey, 11<sup>1</sup>/<sub>2</sub> miles south of Odessa.

Brown soil- - - - -	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>
Hard yellow clay- - - - -	<sup>1</sup> / <sub>2</sub>	2
Rock- - - - -		2
No water sample collected. Apr. 3, 1937.		

Well 201

R. H. Henderson tract, NW<sup>1</sup>/<sub>2</sub>NW<sup>1</sup>/<sub>2</sub> sec. 10, blk. 43, T. 3 S., T. & P. R.R. Co. Survey, 8 miles southwest of Odessa.

Black soil- - - - -	1	1
Brown sandy clay- - - - -	1	2
Light brown sandy clay- - - - -	1	3
White clay- - - - -	4	7
Yellow clay- - - - -	2	9
No water sample collected. Mar. 24, 1937.		

Well 203

"Meteorite" crater, H. K. Henderson tract, NE<sup>1</sup>/<sub>2</sub>NE<sup>1</sup>/<sub>2</sub> sec. 8, blk. 43, T. 3 S., T. & P. R.R. Co. Survey, 9 miles southwest of Odessa.

Black soil- - - - -	<sup>1</sup> / <sub>2</sub>	<sup>1</sup> / <sub>2</sub>
Brown silt- - - - -	2 <sup>1</sup> / <sub>2</sub>	3
Red sandy clay- - - - -	11	14
No water sample collected. Mar. 25, 1937.		

Well 204

Bottom of small sink, tract of Alphonse Kloh, et al., NW<sup>1</sup>/<sub>2</sub>SE<sup>1</sup>/<sub>2</sub> sec. 7, blk. 43, T. 3 S., T. & P. R.R. Co. Survey, 10<sup>1</sup>/<sub>2</sub> miles southwest of Odessa.

Black soil- - - - -	1	1
Brown clay- - - - -	8	9
Rock- - - - -		9
No water sample collected. May 17, 1937.		

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

Well 207

Slope near foot of Concho Bluff, W. P. Edward tract, NW $\frac{1}{2}$ SE $\frac{1}{2}$  sec. 31, blk. 43, T. 3 S., T. & P. R.R. Co. Survey, 12 $\frac{1}{2}$  miles southwest of Odessa.

	Thickness (feet)	Depth (feet)
Gray sandy soil- - - - -	2	2
Yellow clay and lime gravel-	15	17
Red clay and lime gravel - -	4	21
Caliche- - - - -	-	21

No water sample collected. Apr. 1, 1937.

Well 210

Edge of Concho Bluff, R. L. York tract, SW $\frac{1}{2}$ SE $\frac{1}{2}$  sec. 21, blk. 44, T. 3 S., T. & P. R.R. Co. Survey, 12 $\frac{1}{2}$  miles southwest of Odessa.

Yellow clay and soil- - - -	1	1
Yellow clay and caliche boulders- - - - -	5	6

No water sample collected. Apr. 2, 1937.

Well 222

Slope west of Concho Bluff, W. E. Connell tract, SW $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 25, blk. 44, T. 3 S., T. & P. R.R. Co. Survey, 16 miles southwest of Odessa.

Red sandy soil- - - - -	1	1
Red sand and clay- - - - -	12	13
Yellow sandy clay- - - - -	1	14
Yellow sandy clay and caliche gravel- - - - -	2	16
Hard yellow sandy clay - - -	3	19

No water sample collected. May 12, 1937.

Well 231

Slope of sink, J. Scharbauer tract, SW $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 9, blk. B-15, Public School Land, 20 $\frac{1}{2}$  miles west of Odessa.

Red sandy soil- - - - -	4 $\frac{1}{2}$	4 $\frac{1}{2}$
Red sandy clay- - - - -	2	6 $\frac{1}{2}$
Yellow sandy clay- - - - -	1 $\frac{1}{2}$	8
Yellow clay- - - - -	1 $\frac{1}{2}$	9 $\frac{1}{2}$
Red clay- - - - -	2 $\frac{1}{2}$	12

Struck water at 6 $\frac{1}{2}$  feet.  
Water level, 6.2 feet below top of ground, 3 hours after hole completed.  
Water sample collected. May 10, 1937.

Well 232

Slope of sink, J. Scharbauer tract, SW $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 9, blk. B-15, Public School Land, 20 $\frac{1}{2}$  miles west of Odessa.

Red sandy soil- - - - -	3 $\frac{1}{2}$	3 $\frac{1}{2}$
Red sand and clay- - - - -	2	5 $\frac{1}{2}$
Yellow clay- - - - -	1 $\frac{1}{2}$	7
Red clay- - - - -	1	8

No water sample collected. May 10, 1937.

Well 233

Slope of sink, J. Scharbauer tract, SW $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 9, blk. B-15, Public School Land, 20 $\frac{1}{2}$  miles west of Odessa.

	Thickness (feet)	Depth (feet)
Red sandy soil- - - - -	2	2
Red sand and clay- - - - -	3	5
Yellow clay- - - - -	1	6

Struck water at 5 $\frac{1}{2}$  feet.  
Water level, 5.1 feet below top of ground, 1 hour after hole completed.  
No water sample collected. May 10, 1937.

Well 234

Slope of sink, J. Scharbauer tract, SW $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 9, blk. B-15, Public School Land, 20 $\frac{1}{2}$  miles west of Odessa.

Red sandy soil- - - - -	1	1
Red sand and clay- - - - -	4	5
Blue and yellow clay- - - -	1	6

Water level, 4.8 feet below top of ground, 1 hour after hole completed.  
No water sample collected. May 10, 1937.

Well 235

Slope of sink, J. Scharbauer tract, SW $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 9, blk. B-15, Public School Land, 20 $\frac{1}{2}$  miles west of Odessa.

Red sandy soil- - - - -	3	3
Red sand and clay- - - - -	4	7

Struck water at 7 feet.  
No water sample collected. May 10, 1937.

Well 236

Shallow draw, W. E. Connell tract, SE $\frac{1}{2}$ SW $\frac{1}{2}$  sec. 21, blk. B-15, Public School Land, 23 miles southwest of Odessa, located in Crane County.

Gray soil- - - - -	3	3
White sandy clay- - - - -	14	17

No water sample collected. May 11, 1937.

Partial analyses of water from wells in Ector 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. Stulliken, D. F. Riddell, and Alfred J. Kelly, 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 <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
1	Cowden heirs	96	Apr.14,1937	259	-	-	-	128	65	40	-
2	R.B. Cowden	89	Apr.13,1937	389	-	-	-	177	114	53	-
3	do.	110	do.	368	-	-	-	122	152	34	-
5	do.	104	do.	366	-	-	-	189	76	66	-
7	H.E. Cummins	105	Apr.24,1937	170	-	-	-	73	38	36	-
8	do.	174	do.	765	-	-	-	159	375	66	-
9	do.	75	Apr.13,1937	377	-	-	-	128	118	67	-
14	do.	74	Apr.12,1937	314	-	-	-	153	61	66	-
15	do.	74	do.	502	-	-	-	268	91	98	-
18	Frank Cowden	100	Apr.14,1937	370	-	-	-	220	72	56	-
19	W.F. Cowden	71	do.	325	-	-	-	171	83	43	-
23	B.H. Blakeney	128	Apr.17,1937	699	-	-	-	195	292	80	-
26	C. Scharbauer	56	Apr.16,1937	1,025	-	-	-	250	334	222	-
28	B.H. Blakeney	70	Apr.20,1937	1,220	-	-	-	153	656	106	-
29	do.	65	do.	634	124	19	70	256	239	56	387
30	do.	86	do.	206	-	-	-	73	68	32	-
31	do.	-	Apr.22,1937	1,006	-	-	-	250	273	265	-
32	do.	48	Apr.17,1937	501	-	-	-	299	110	64	-
34	Mrs. T.B. Roberts	41	Mar. 8,1937	2,360	295	77	366	153	1,247	300	1,052
35	O.B. Holt	50	do.	950	111	61	141	317	281	200	528
37	O.B. Holt Jr.	48	Apr.22,1937	416	-	-	-	268	80	53	-
38	do.	-	do.	1,065	94	49	245	439	231	260	435
39	H.B. Blakeney	74	Apr.16,1937	460	-	-	-	275	102	58	-
40	do.	109	do.	301	-	-	-	110	87	56	-
42	Midland Farms Co.	124	Mar. 6,1937	578	69	38	95	360	113	86	328
43	do.	134	do.	575	72	47	74	323	121	102	374
46	do.	105	do.	638	73	51	80	201	195	140	392
48	do.	95	do.	1,799	343	69	117	146	1,118	80	1,143
49	do.	104	do.	414	42	39	59	268	74	68	264
52	do.	48	Feb.25,1937	916	101	44	162	316	312	142	432
54	C. Scharbauer	47	Mar. 8,1937	687	80	47	92	220	254	106	394

Partial analyses of water from wells in Ector 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 <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
55	E.J. Neathery	70	Mar. 8, 1937	2,783	312	162	375	171	1,325	525	1,445
57	Mrs. M.C. Whittenburg	42	Mar. 10, 1937	946	144	40	136	277	265	225	525
59	H.S. Ratliff	74	do.	856	126	17	152	250	288	150	386
60	do.	137	Apr. 6, 1937	375	-	-	-	232	73	52	-
61	do.	136	do.	413	-	-	-	262	85	50	-
62	Mrs. M.C. Whittenburg	66	Mar. 11, 1937	425	71	21	58	240	77	80	263
64	Roy Parks Jr.	117	do.	320	75	11	31	244	46	37	232
66	H.S. Ratliff	79	Mar. 8, 1937	2,203	317	148	155	116	1,380	146	1,402
67	do.	88	Apr. 6, 1937	340	-	-	-	116	100	66	-
68	H.C. Barrow Estate	87	Mar. 9, 1937	488	150	10	17	403	55	54	426
69	do.	89	Mar. 12, 1937	333	68	14	38	250	54	36	229
70	J.M. Gist	129	May 14, 1937	378	-	-	-	226	83	48	-
71	do.	88	Mar. 12, 1937	342	68	15	41	220	46	64	229
72	do.	51	Mar. 18, 1937	612	95	10	113	234	169	110	277
73	do.	99	May 14, 1937	321	-	-	-	244	46	36	-
74	H.C. Barrow Estate	118	Mar. 9, 1937	392	77	19	43	269	70	50	272
75	H.S. Ratliff	66	do.	378	86	17	29	234	78	53	285
78	J.L. Johnson	100	Mar. 12, 1937	974	165	38	113	244	392	146	568
79	do.	109	Mar. 13, 1937	365	-	-	-	195	92	48	-
80	do.	73	do.	959	126	67	119	372	296	168	591
83	Mrs. A.V. Wight	105	Apr. 23, 1937	612	-	-	-	201	243	66	-
84	do.	119	do.	299	-	-	-	195	61	34	-
85	J.L. Johnson	109	Mar. 17, 1937	555	112	24	53	301	161	57	381
87	do.	115	do.	341	54	17	39	116	131	43	206
91	Clyde Cowden	85	Apr. 23, 1937	610	96	15	94	195	239	70	304
92	C. Scharbauer	91	Apr. 21, 1937	480	-	-	-	317	80	68	-
94	do.	172	Apr. 12, 1937	372	-	-	-	250	87	28	-
95	do.	69	Apr. 10, 1937	594	-	-	-	122	258	82	-
96	do.	89	do.	485	-	-	-	201	182	40	-
97	do.	100	do.	388	-	-	-	244	102	28	-
99	do.	162	Apr. 9, 1937	424	-	-	-	232	121	40	-
100	do.	64	Apr. 10, 1937	1,424	-	-	-	61	948	20	-
101	H.C. Barrow Estate	182	Apr. 26, 1937	506	-	-	-	268	140	56	-
104	J.E. Parker	168	do.	589	-	-	-	85	285	74	-
105	Paul Slator	174	Apr. 9, 1937	363	-	-	-	159	125	36	-

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

Results are in parts per million.

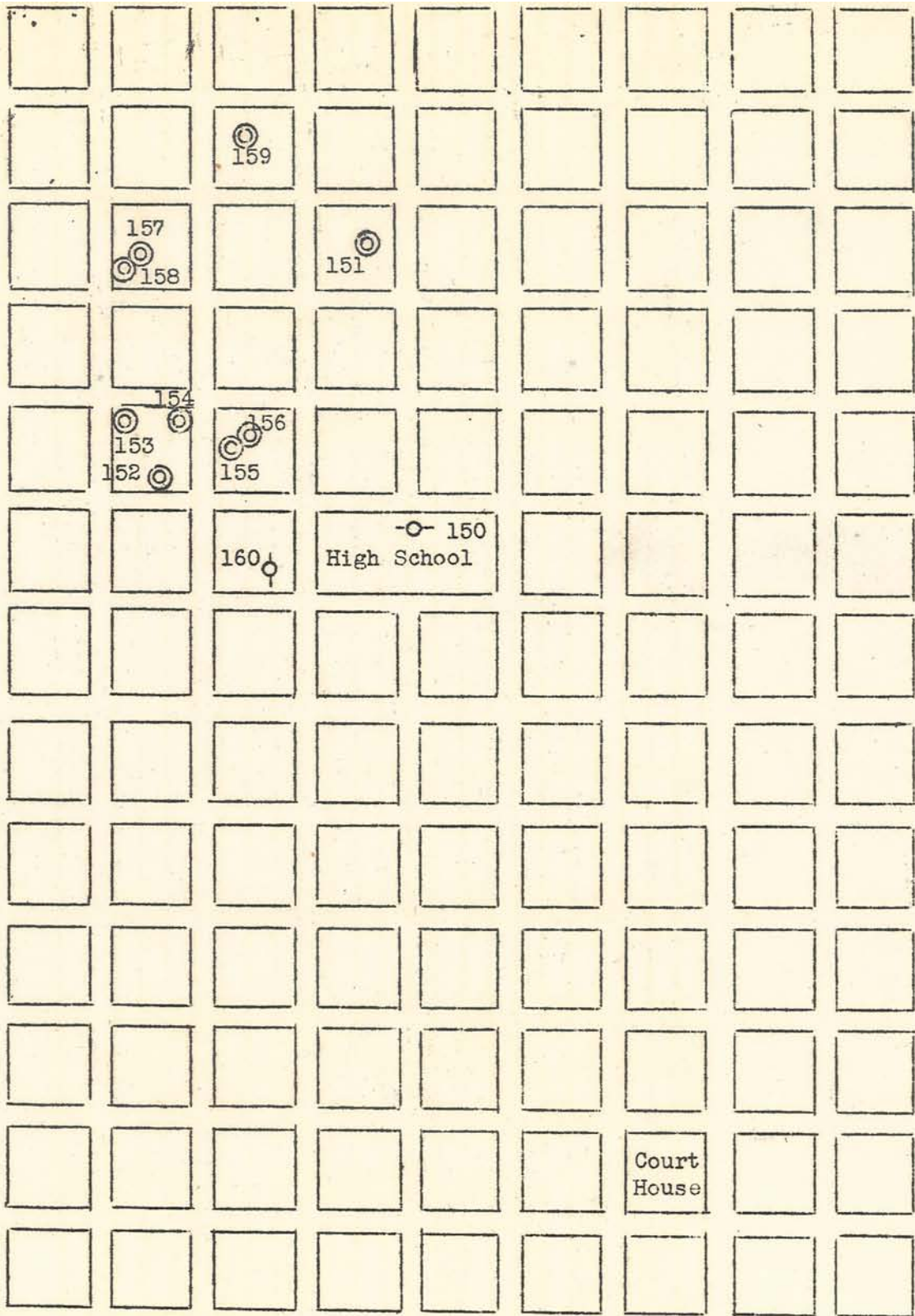
Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
108	Paul Slator	170	Apr.26,1937	272	-	-	-	116	83	38	-
109	E.R. Thomas Estate	127	Apr.24,1937	513	-	-	-	195	190	54	-
114	Paul Slator	68	Apr.27,1937	1,183	-	-	-	189	646	72	-
117	B.W. McKinzey	-	May 8, 1937	1,929	-	-	-	647	683	276	-
119	J.E. Parker	189	Apr.27,1937	1,052	185	38	106	189	526	104	618
120	do.	181	Apr. 9,1937	504	-	-	-	226	163	56	-
122	do.	181	do.	422	-	-	-	214	121	48	-
124	W.F. Bates Estate	-	Apr.30,1937	933	-	-	-	220	443	80	-
127	Eliot Cowden	126	Apr.29,1937	482	-	-	-	201	162	56	-
128	do.	95	do.	736	-	-	-	275	270	82	-
129	do.	99	Apr.30,1937	851	-	-	-	159	357	138	-
130	do.	87	Mar.17,1937	398	70	16	51	195	115	50	240
131	do.	107	Mar.18,1937	482	88	16	58	195	173	51	285
135	T.G. Hendrick	100	Mar.29,1937	1,112	-	-	-	98	576	138	-
136	May Witcher	68	May 7, 1937	1,554	-	-	-	201	760	200	-
138	do.	54	do.	816	-	-	-	195	357	96	-
139	Eliot Cowden	48	Mar.18,1937	1,360	222	55	133	122	776	114	779
140	Wanda Hinkle	-	May 7, 1937	1,411	-	-	-	159	595	280	-
141	Eliot Cowden	72	May 17,1937	839	-	-	-	268	296	128	-
142	J.L. Johnson	75	May 19,1937	856	-	-	-	275	280	150	-
144	J.E. Bagley	72	May 14,1937	714	-	-	-	268	269	72	-
149	City of Odessa	87	Feb.16,1937	429	-	-	-	128	127	92	-
151	do.	140	Mar. 3,1937	405	77	18	47	245	88	54	267
152	do.	135	Feb.27,1937	463	-	-	-	207	134	66	-
155	do.	130	Feb.17,1937	363	-	-	-	146	108	58	-
162	Marcus Gist	-	May 19,1937	541	-	-	-	183	161	104	-
163	J.B. Bageley	97	May 14,1937	600	-	-	-	110	212	134	-
166	J.M. Gist	69	Mar.19,1937	461	109	13	43	268	84	80	328
167	do.	88	Apr.17,1937	430	80	15	57	232	92	72	264
171	T.G. Hendricks	48	Mar.23,1937	1,294	206	56	132	189	707	100	745
172	W.C. Sublett	94	Mar.22,1937	793	140	32	87	262	315	90	480
173	Roy Parks	110	Mar.20,1937	407	118	14	11	262	77	58	354
176	Hammitt Estate	38	Apr. 8,1937	3,771	-	-	-	207	2,008	484	-
177	Dora Roberts	52	do.	559	-	-	-	244	165	80	-
178	do.	31	do.	6,691	-	-	-	293	3,494	960	-



Partial analyses of water from wells in Ector 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 <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
180	Dora Roberts	108	Apr. 7, 1937	460	-	-	-	110	204	52	-
181	Alphonse Kloh et al.	119	do.	488	-	-	-	159	204	44	-
182	do.	125	do.	927	-	-	-	67	518	88	-
184	E.V. Graham & Co.	64	Mar. 23, 1937	1,464	-	-	-	73	810	164	-
185	McElroy Ranch Co.	93	Apr. 3, 1937	612	-	-	-	232	181	106	-
189	G.T. Sanbridge	79	Mar. 29, 1937	441	128	7	25	293	77	60	350
191	Alphonse Kloh et al.	-	Apr. 8, 1937	309	-	-	-	134	104	33	-
193	Josie Fay Peck	-	do.	1,390	-	-	-	110	1,018	37	-
198	H.R. Henderson	138	Mar. 27, 1937	519	-	-	-	220	169	64	-
199	T.G. Hendricks	108	Mar. 24, 1937	2,422	-	-	-	195	968	570	-
202	H.R. Henderson	200	May 11, 1937	282	-	-	-	159	81	24	-
205	R.L. York	157	Apr. 1, 1937	190	-	-	-	128	27	30	-
206	W.P. Edwards	137	do.	543	-	-	-	140	240	56	-
209	do.	75	Mar. 31, 1937	1,331	-	-	-	214	657	144	-
211	Alphonse Kloh et al.	150	do.	53	-	-	-	110	252	58	-
212	R.L. York	192	May 12, 1937	753	-	-	-	195	252	50	-
213	do.	192	Apr. 29, 1937	809	-	-	-	195	405	48	-
214	Alphonse Kloh et al.	168	Apr. 30, 1937	651	-	-	-	226	263	60	-
216	R.L. York	-	May 1, 1937	302	-	-	-	79	128	36	-
224	Scharbauer & Eidson	77	Apr. 30, 1937	1,890	-	-	-	110	1,182	80	-
228	W.E. Connell	77	Apr. 28, 1937	3,295	-	-	-	79	1,971	260	-
229	Scharbauer & Eidson	80	do.	3,437	629	107	304	110	1,971	376	2,011
231	W.P.A. test well	12	May 10, 1937	16,760	-	-	-	238	6,374	4,820	-
237	W.E. Connell	58	Apr. 29, 1937	2,550	576	68	107	172	1,652	62	1,717



Insert Map  
City of Odessa, Texas



# MAP OF ECTOR COUNTY, TEXAS

## SHOWING LOCATIONS OF WATER WELLS LISTED

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

FIELD WORK BY  
DAN A. DAVIS  
PROJECT SUPERINTENDENT  
W.P.A. PROJECT 6504-5316

BASE COMPILED FROM  
LAND OWNERSHIP MAP  
AND FIELD NOTES

N



SCALE

0 1/4 1 2 3 4 5 6 7 8 MILES

— EXPLANATION —

- WELL WITH HAND PUMP, BUCKET OR BALER
- ◊ UNUSED WELL
- ◊ WELL WITH WINDMILL OR SMALL POWER PUMP
- ◊ TEST WELL DRILLED BY W.P.A. LABOR
- ⊗ WELL WITH PUMPING PLANT—5 HORSE POWER OR LARGER
- ⊗ ESCARPMENT
- ◊ WELL DRILLED TO TEST FOR OIL OR GAS
- ⊗ SINK, WITH NUMBER INDICATING DEPTH BELOW GENERAL GROUND LEVEL
- IMPROVED ROAD
- UNIMPROVED ROAD
- ⊗ HILL, WITH NUMBER INDICATING ELEVATION ABOVE GENERAL GROUND LEVEL

