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STATE BOARD OF WATER ENGINEERS

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MIDLAND 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
Jan. 31, 1938

MIDLAND 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 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 Midland County was started May 31, 1937, and completed August 6, 1937. This work was done as Project 5316 of Administrative Field Office 19 of the Works Progress Administration, San Angelo, Texas. Dan A. Davis, a geologist, was project superintendent. Mr. Davis 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 at San Angelo made this work possible by their constant help and cooperation. The Midland County Commissioners' Court and the Midland Chamber of Commerce both cooperated by furnishing transportation for the workers during the project.

This release contains the well 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. Locations of all wells 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 Midland 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 Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
1	12 miles west	38, SW $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.1 N.	A. G. Bohannan	Rolling	--	41	8 $\frac{1}{4}$	0.5
2	9 miles northwest	10, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.1 S.	R. W. Aycock	Gentle slope	--	114	6	--
3	9 $\frac{1}{2}$ miles west	9, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Midland Farms Co.	Rolling	--	112	15	1.5
4	10 miles west	9, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Slope	--	50	6	0.5
6	10 $\frac{1}{2}$ miles west	18, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	R. W. Aycock	Gentle slope	--	65	6	1
7	11 $\frac{1}{2}$ miles west	25, NW $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.41, T.1 S.	A. Kloch, et al.	Rolling	--	75	10	0.5
8	10 $\frac{1}{2}$ miles west	30, SE $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.1 S.	C. Scharbauer	do.	--	90	8	1.5
9	11 $\frac{1}{2}$ miles west	47, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.41, T.1 S.	A. Kloch, et al.	Gentle slope	--	89	6	1
10	8 $\frac{1}{2}$ miles west	44, SE $\frac{1}{4}$ SE $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.1 S.	C. Scharbauer	Edge of sink	--	61	6	1
11	5 $\frac{1}{2}$ miles west	38, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Rolling	--	75	6	0.5
12	7 $\frac{1}{2}$ miles west	34, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Gentle slope	--	62	3	0.5
13	9 miles west	21, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Midland Farms Co.	do.	--	60	6	0.5
16	7 miles west	27, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	C. Scharbauer	Ridge-top	--	76	6	0.5
d/ 17	5 $\frac{1}{2}$ miles west	25, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Pleasant Valley School	Gentle slope	--	67	6	0.8
19	6 $\frac{1}{2}$ miles northwest	7, SW $\frac{1}{4}$ NW $\frac{1}{4}$	H.P.Hilliard, blk. x.	Mrs. M. J. Dawson	do.	--	62	6	1
d/ 20	5 $\frac{1}{2}$ miles northwest	7, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Rolling	--	59	6	1.2
21	5 miles northwest	5, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	B. L. Moss	Ridge-top	--	61	--	0.5
24	2 $\frac{1}{2}$ miles northwest	15, SW $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P Ry.Co., blk.39, T.1 S.	-- Whilmar	Gentle slope	--	62	6	1.5
d/ 25	3 $\frac{1}{2}$ miles northwest	17, cen. SE $\frac{1}{4}$	do.	-- Morelan	--	--	4,377	--	--
26	3 $\frac{3}{4}$ miles west	20, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	-- Basham	Gentle slope	--	59	8 $\frac{1}{4}$	0.5
d/ 27	3 $\frac{1}{4}$ miles west	20, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	E. Smith	do.	--	69	6	1
28	do.	32, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Midland Farms Co.	--	--	74	6	0.5
29	2 $\frac{1}{2}$ miles west	29, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	G. Bowman	--	--	74	--	1
d/ 30	2 $\frac{3}{4}$ miles southwest	5, NW $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.39, T.2 S.	E. Cowden	--	--	36	8	0.5

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

b/ C, cylinder; E, electric; G, gasoline engine; H, hand; W, windmill; number indicates horsepower.

Records obtained by Dan A. Lavis, Project Superintendent

(Chemical analyses of water from these wells are in the table of analyses.)

Altitudes of many wells obtained through courtesy of Mr. M. E. Roberts, Odessa, Texas.

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
1	27.9	June 23, 1937	C, "	I	Concrete curb; 10 feet steel casing at top. Measured while pumping slowly.
2	--	--	C, "	S	Concrete curb; 10 feet steel casing at top. Wet walls; unable to measure.
3	34.9	June 23, 1937	C, "	D, S	Dug well, 0 to 30 feet; drilled well 30 to 112 feet. Formerly used for irrigation.
4	31.8	do.	C, "	S	Measured yield, 2 gallons a minute. Water level measured while pumping.
6	39.6	do.	C, "	D, S	
7	53.5	July 22, 1937	C, "	S	8 feet steel casing at top.
8	52.6	do.	C, "	S	Concrete curb. Measured yield, 3 gallons a minute. Measured while pumping.
9	74	do.	C, "	S	Concrete curb. Wet walls. water level not accurate.
10	32.9	do.	C, "	S	Concrete curb.
11	64	June 24, 1937	C, "	S	8 feet steel casing at top. Wet walls, water level not accurate. Measured yield, 8 gallons a minute.
12	35.6	July 23, 1937	C, "	S	Concrete curb.
13	45.9	do.	C, "	D, S	Do.
16	47.2	June 24, 1937	C, "	S	10 feet steel casing at top. Measured while pumping. Measured yield, 3.5 gallons a minute.
17	36.6	do.	C, "	P	Concrete curb. 3 feet galvanized iron casing at top.
19	56.6	July 2, 1937	C, "	D, S	Concrete curb. Reported strong supply.
20	43.8	June 24, 1937	None	N	Concrete curb.
21	51.1	July 23, 1937	C, "	D, S	Measured yield, 3 gallons a minute. Measured while pumping.
24	33.7	July 24, 1937	C, "	S	10 feet steel casing at top.
25	--	--	None	N	Oil test. Drilled by Orbit Oil Co. Altitude, 2,818 feet. See log.
26	36.8	July 23, 1937	C, H	D, S	10 feet steel casing at top.
27	51.3	June 24, 1937	C, "	N	8 feet steel casing at top.
28	58.8	July 27, 1937	C, "	S	Reported drawdown, 1.9 feet after pumping 30 minutes.
29	62.3	July 23, 1937	C, "	N	Concrete curb.
30	40.8	June 7, 1937	C, "	D	

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) _{s/}
d/ 31	2 $\frac{1}{2}$ miles southwest	4, SW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.39, T.2 S.	I. W. Powers	Gentle slope	--	53	--	0.3
d/ 32	1 $\frac{1}{4}$ miles southwest	3, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. King	--	--	71	--	1
33	1 $\frac{1}{2}$ miles south	3, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Midland Fair ground	Gentle slope	--	79	--	0.3
d/ 34	$\frac{3}{4}$ mile south	34, SE $\frac{1}{4}$	T.&P. Ry.Co., blk.39, T.1 S.	City of Midland	--	1927	95	--	--
d/ 35	1 mile southwest	34, cen.	do.	-- Smith	--	1927	90	--	--
d/ 36	In Midland	35, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	--	Level	--	76	6	0
d/ 37	do.	35, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Elmer Lamp	Gentle slope	Old	84	6	1.5
d/ 38	1 $\frac{1}{2}$ miles east	36, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	H. A. Jesse	do.	--	43	--	2
d/ 39	In Midland	35, NE $\frac{1}{4}$	do.	--	--	1927	160	--	--
d/ 40	do.	35, NW $\frac{1}{4}$	do.	City of Midland	--	1927	153	--	--
41	1 mile north	26, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Midland Cemetery	Gentle slope	--	62	--	1
42	3 miles northwest	15, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Mrs. Frank Haag	--	--	109	6	1
44	3 $\frac{1}{2}$ miles north	1, SE $\frac{1}{4}$ SE $\frac{1}{4}$	H.P. Hilliard, blk. x.	S. B. Wimberly	Rolling	--	114	10	1.5
45	5 $\frac{1}{2}$ miles north	12, SW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.39, T.1 S.	J. E. Mabee	Gentle slope	--	79	--	--
47	4 $\frac{3}{4}$ miles northeast	20, SW $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.1 S.	Carstairs & Madden	Level	--	72	6	0.2
48	5 $\frac{1}{2}$ miles northeast	21, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. F. Tucker	do.	--	72	--	0.5
d/ 50	4 miles northeast	29, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	H. A. Jesse	Gentle slope	--	54	--	1.2
53	2 $\frac{1}{4}$ miles northeast	42, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Joe Youngblood	Near draw	--	36	--	1.3
54	2 $\frac{1}{2}$ miles northeast	42, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	T. & F. Ry. Co.	Bottom of draw	Old	20	--	1.2
d/ 55	do.	42, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Joe Youngblood	Level	--	76	8 $\frac{1}{4}$	3.3
56	3 miles northeast	41, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	E. Bailey	Gentle slope	--	40	--	0.8
d/ 57	3 $\frac{1}{2}$ miles northeast	41, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Terry Elkin	do.	--	88	10	0.5
d/ 58	3 $\frac{3}{4}$ miles northeast	33, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	do.	--	144	--	0.5
d/ 60	3 miles east	5, SE $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.2 S.	J. Gault	--	1927	139	--	--
d/ 61	3 $\frac{3}{4}$ miles east	4, NW cor.	do.	City of Midland	Near draw	1927	140	--	--
d/ 63	4 miles east	4, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	do.	1937	116	14	1
d/ 64	do.	do.	do.	do.	do.	1936	116	15 $\frac{1}{2}$	--

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
31	44	June 26, 1937	C, 7	D, S	
32	45.1	do.	C, 7	N	Concrete curb.
33	47.2	July 2, 1937	C, 7	N	
34	--	--	None	N	City of Midland test well 8. Drilled by Airmade Well Co. See log. Altitude, 2,790 feet.
35	--	--	None	N	City of Midland test well 7. Drilled by Airmade Well Co. See log. Altitude, 2,790 feet.
36	32.9	June 28, 1937	None	N	4 feet wood casing at top.
37	44.2	do.	None	I	Concrete curb.
38	33.8	June 22, 1937	C, 7	N	Wood curb.
39	--	--	None	N	City of Midland test well 4. Drilled by Airmade Well Co. See log. Altitude, 2,780 feet.
40	--	--	None	N	City of Midland test well 1. Drilled by Airmade Well Co. See log. Altitude, 2,779 feet.
41	40.6	July 2, 1937	C, G, 8 1/2	I	Concrete curb.
42	26.9	June 24, 1937	C, 7	D, S	Do.
44	59	July 24, 1937	C, 7, & G, 1 1/2	D, S	4 feet wood casing.
45	--	--	C, 7	S	Wood curb. Wet wells. unable to measure.
47	39.3	July 2, 1937	None	N	3 feet galvanized iron casing at top.
48	39.9	July 24, 1937	C, 7	D, S	Wood curb. Measured yield, 4 gallons a minute. Measured while pumping.
50	43	do.	C, 7	N	Concrete curb.
53	26.5	June 1, 1937	C, 7	D, S	Concrete curb. Temperature, 68° F.
54	18.1	June 5, 1937	None	N	Dug well. Formerly supplied railroad.
55	30.4	June 1, 1937	None	N	Steel casing, top to bottom. Formerly used for irrigation.
56	30.9	do.	C, 7	D, S	
57	33.9	do.	T, -	N	Steel casing. Belt drive turbine pump. Formerly used for irrigation.
58	70.8	do.	C, 7	D, S, I	Concrete curb. Irrigates garden.
60	--	--	None	N	City of Midland test well 5. Drilled by Airmade Well Co. See log. Altitude, 2,738 feet.
61	--	--	None	N	City of Midland test well 6. Drilled by Airmade Well Co. See log. Altitude, 2,742 feet.
63	49.5	July 9, 1937	--	F	City of Midland well 4. Drilled by Carl Flack. See log. Installation of pumping equipment not complete.
64	63	e/	T, 7, 15	P	City of Midland well 3. Drilled by Carl Flack. See log. 108 feet of 15" inch steel casing.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
65	4 miles east	4, SW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.2 S.	City of Midland	Near draw	1937	122	15 $\frac{1}{2}$	1
d/ 66	4 $\frac{1}{2}$ miles east	4, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	do.	--	79	6	0.3
d/ 67	4 miles east	4, NE cor.SW $\frac{1}{4}$	do.	do.	do.	1927	130	--	--
d/ 68	do.	4, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	do.	1923	110	20	--
69	do.	do.	do.	do.	do.	1902	107	--	--
d/ 70	4 $\frac{1}{2}$ miles east	4, SE cor.NE $\frac{1}{4}$	do.	I. Snodgrass	do.	1937	108	--	--
75	6 miles east	2, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. W. Andrews	Ridgetop	Old	95	12	1.5
d/ 78	5 miles northeast	34, NW $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.1 S.	C. J. Weathered	Gentle slope	--	69	--	1
80	do.	do.	do.	F. F. Elkin	--	--	85	--	1
81	5 $\frac{1}{2}$ miles northeast	28, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	--	74	--	--
82	do.	27, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Gentle slope	1937	85	--	0.7
83	6 $\frac{1}{2}$ miles northeast	26, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Edm Blusterbaum	--	--	61	--	--
86	6 miles northeast	35, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	J. C. Perryman	Slope	1937	50	--	1.2
88	7 miles northeast	36, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	W. E. Jackson	Flat	--	60	--	0.3
89	7 $\frac{1}{2}$ miles northeast	36, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	do.	--	69	--	0.8
90	7 $\frac{1}{2}$ miles east	37, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	A. M. Klapprath	do.	Old	59	6	1.3
92	8 miles east	12, SE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.2 S.	Ben Colleday	do.	--	64	--	1
94	7 $\frac{1}{2}$ miles east	49, NW $\frac{1}{4}$ NW $\frac{1}{4}$	J. W. King	Prairie Lec School	Gentle slope	1920	59	6	0.5
95	8 miles northeast	31, SW $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.1 S.	Johnson & Glass	--	Old	59	12	1.2
96	do.	31, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	W. E. Jackson	Rolling	--	61	6	0.5
97	9 miles northeast	29, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Jackson & Co.	Level	Old	57	6	0
98	9 $\frac{1}{2}$ miles northeast	29, SE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	State Highway Dept.	Flat	--	58	6	0.8
99	10 miles northeast	29, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	J. R. Gault	Level	--	65	6	1
101	10 miles east	40, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	W. V. Jones	Gentle slope	--	62	6	0.4
102	10 $\frac{1}{2}$ miles east	40, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Ben Whitfield	do.	--	40	8	1.5
103	9 $\frac{1}{2}$ miles east	45, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	J. E. Ley	Edge of lake	--	55	6	0.5

Den A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measur- ing point (ft.)	Date of measure- ment			
65	41.1	July 14, 1937	--	P	City of Midland well 5. Drilled by Carl Flock. See log. Installation of pump not complete. First water
66	27.7	July 10, 1937	None	N	10 feet 6-inch steel casing. <u>cased off at 50 feet.</u>
67	--	--	None	N	City of Midland test well 9. Drilled by Airmade Well Co. See log. Altitude, 2,730 feet.
68	54	e/	T, L, 15	P	City of Midland well 2. Drilled by Dellano Construction Co. 105 feet 20-inch steel casing.
69	51	e/	T, L, 15	P	City of Midland well 1. Dry well.
70	--	--	None	N	City of Midland test well 3. Drilled by Airmade Well Co. See log. Altitude, 2,730 feet.
75	85.2	June 30, 1937	C, W	D, S	10 feet wood casing at top.
78	51.8	July 10, 1937	C, P	N	Concrete curb.
80	61.8	July 24, 1937	C, W	S	Do.
81	--	--	C, W	D, S	Concrete curb. Wet walls; unable to measure water level.
82	60.9	July 24, 1937	C, W	S	Concrete curb. Water level measured while pumping. Measured yield, 3 gallons a minute.
83	--	--	C, W	D, S	Concrete curb. Wet walls; unable to measure water level.
86	40.6	June 5, 1937	C, W	D, S	Concrete curb.
88	48.5	June 1, 1937	C, W	D, S	Temperature, 68° F.
89	51.9	do.	C, W	D, S	Reported strong supply. Temperature, 68° F.
90	43.6	June 30, 1937	C, W	S	Brick curb. 4 feet wood casing at top.
92	49.8	do.	C, H	L	Concrete curb.
94	45.2	Apr. 29, 1937	C, W	P	Concrete curb; 10 feet 6-inch galvanized iron casing at top.
95	45.8	June 30, 1937	C, W	S	6 feet 12-inch wood casing at top.
96	47.3	June 1, 1937	C, W	D, S	
97	44.3	Apr. 30, 1937	C, W	D, S, I	10 feet wood casing at top. Irrigates garden.
98	39.7	June 30, 1937	None	N	Concrete curb. 3 feet steel casing at top.
99	49.1	May 4, 1937	C, W	D, S	Concrete curb. 10 feet galvanized iron casing at top. Reported yield, 2 to 4 gallons a minute.
101	37.2	do.	C, W	D, S, I	Concrete curb. Estimated yield, 3 to 8 gallons a minute. Measured 6.5 feet drawdown after pumping 3 gal-
102	34.8	do.	C, W	D, S	10 feet wood casing at top. <u>ons a minute for 2 hours.</u> Estimated yield, 2 to 5 gallons a minute. Measured 4.5 feet drawdown after pumping 2 to 3 gallons a min-
103	33.9	do.	C, W	D, S, I	Reported yield, 2 to 5 gallons a <u>ute for 2 hours.</u> minute. Measured 4 feet drawdown after pumping 2 gal- lons a minute for 4 hours.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)	a/
104	10 $\frac{1}{2}$ miles east	2, NE $\frac{1}{4}$ NE $\frac{1}{4}$	A. P. Veazy	Prairie Lee Church	Gently rolling	Old	69	6	1.5	
105	11 miles east	56, SW $\frac{1}{4}$ NW $\frac{1}{4}$	J. L. Veazy	Andy Faskin	do.	Old	68	--	1	
d/106	10 $\frac{1}{2}$ miles east	1, S line	C. Moore	Mrs. O. P. Buchanan	do.	--	50	4	0	
107	do.	2, cen.	B. F. Reed	do.	Bottom of draw	--	55	6	0.5	
108	11 $\frac{1}{2}$ miles east	2, SE cor.	S. T. Dawson	do.	Rolling	--	54	4	2.5	
109	12 $\frac{1}{2}$ miles east	11, cen.	E. T. Hopkins	Andy Faskin	Ridge-top	Old	102	--	1.3	
110	do.	47, SW $\frac{1}{4}$ SE $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.1 S.	W. C. Westfall	Gently rolling	--	85	6	0.5	
111	13 $\frac{1}{2}$ miles east	37, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	S. Casper	Side of ridge	Old	70	6	0.5	
112	do.	1, NE $\frac{1}{4}$ SE $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.2 S.	J. C. Brooks	Rolling	1924	67	6	0.5	
d/113	14 miles east	101, NE cor.	S. Beall	J. V. Stokes	--	--	2,669	--	--	
116	15 miles east	20, NW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.36, T.2 S.	do.	Sandy ridge	Old	70	6	0	
118	14 $\frac{1}{2}$ miles east	7, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	S. D. Stokes	Edge of sink	Old	61	6	1	
120	15 $\frac{1}{2}$ miles east	5, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	I. C. Graham	Edge of lake	1931	59	6	1.5	
121	do.	5, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Gently rolling	1924	71	6	1	
123	14 $\frac{1}{2}$ miles east	6, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	E. E. Filand	Ridge-top	Old	65	6	1	
124	14 miles east	6, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Stokes School	Rolling	1920	44	6	0.5	
125	15 miles east	32, SW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.36, T.1 S.	L. I. Chapman	Edge of draw	1923	45	6	0.5	
126	15 $\frac{1}{2}$ miles east	41, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	-- Houston Estate	do.	Old	46	6	0	
127	17 $\frac{1}{2}$ miles east	3, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.36, T.2 S.	W. H. Wise	Bottom of draw	--	26	5	2	
129	do.	15, SW $\frac{1}{4}$	do.	Mrs. H. O. Cain	Level	--	52	6	0	
130	16 $\frac{1}{2}$ miles east	28, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	M. H. Fisher	Gently rolling	Old	66	6	0.5	
131	do.	28, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Small hilltop	Old	64	6	0.5	
132	17 $\frac{1}{2}$ miles east	26, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Milt Yater	do.	Old	81	6	0	
133	do.	33, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	R. D. Blalock	Rolling	1916	63	6	0.5	
134	17 miles east	33, NE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	S. C. Baze	Small hilltop	1931	56	6	0	
135	do.	33, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	M. H. Fisher	Flat	1932	49	6	0.5	

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
104	57	Apr. 29, 1937	C,W	P	10 feet iron casing at top. Estimated yield, 2 to 5 gallons a minute.
105	47	June 29, 1937	C,W	S	Concrete curb.
106	43.2	July 31, 1937	None	N	10 feet steel casing at top.
107	26.3	do.	C,W	S	Concrete curb. 10 feet galvanized iron casing at top. Measured while pumping 6 to 8 gallons a minute.
108	39.6	do.	C,W	D,S	Concrete curb. 10 feet steel casing at top.
109	81.6	June 30, 1937	C,W	S	Concrete curb. Altitude, 2,693 feet.
110	70.1	May 4, 1937	C,W	D,S	10 feet iron casing at top. Estimated yield, 2 to 5 gallons a minute.
111	60.1	Apr. 30, 1937	C,W	D,S	Concrete curb; 10 feet galvanized iron casing at top.
112	48.4	Apr. 29, 1937	C,W	D,S	Concrete curb. Estimated yield, 2 to 5 gallons a minute. Drilled by C. Brothers.
113	--	--	--	--	Oil test. Drilled by Phillips Petroleum Co. See log. Altitude, 2,669 feet.
116	57.8	Apr. 30, 1937	C,W	S	10 feet iron casing at top. Altitude, 2,656 feet.
118	47.9	May 4, 1937	C,W	S	Concrete curb. Altitude, 2,644 feet.
120	47	do.	C,W	D,S	Concrete curb. 25 feet, 5-inch iron casing at top. Measured 1.7 feet drawdown after pumping 2 gallons a minute for 2 hours. Reported water level rises after
121	62.2	do.	None	N	rainy season as water goes down in nearby lake. 6-inch galvanized iron casing at top.
123	52.6	Apr. 30, 1937	C,W	D,S	Concrete curb. 10 feet galvanized iron casing at top.
124	29.2	Apr. 29, 1937	C,W	P	Concrete curb. 10 feet galvanized iron casing at top. Estimated yield, 2 to 3 gallons a minute.
125	37.3	May 4, 1937	C,W	D,S,I	Irrigates garden.
126	36.9	do.	C,W	S	
127	13	Jan. 1, 1937	C,W	D,S	30 feet 5-inch iron casing; bottom 15 feet perforated. Estimated yield, 2 gallons a minute. Reported
129	47.8	Jan. 27, 1937	C,W	D,S	Concrete curb. Estimated yield, "Red beds" at 30 feet. 2 gallons a minute.
130	50.9	Apr. 15, 1937	None	N	10 feet galvanized iron casing at top.
131	55.2	do.	C,W	D,S	Concrete curb; 10 feet galvanized iron casing at top. Reported drilled to "Red Beds."
132	59.6	do.	C,W	D,S	Concrete curb; 15 feet galvanized iron casing at top.
133	52.4	Jan. 28, 1937	C,W	D,S	Reported yield, 25 gallons a minute.
134	44.4	Apr. 15, 1937	C,W	D,S	Concrete curb. Estimated yield, 3 to 5 gallons a minute.
135	37.8	Jan. 28, 1937	C,W	D,S	Concrete curb. 10 feet galvanized iron casing at top. Drilled by C. Brothers. See log.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
137	16½ miles east	32, NE¼NE¼	T.&P. Ry.Co., blk.36, T.2 S.	M. H. Fisher	Gently rolling	1916	57	6	0
138	16 miles east	32, NW¼NW¼	do.	McClintic Brothers	do.	--	48	12	0
140	15½ miles east	30, SE¼SE¼	do.	McClintic School	do.	1930	50	6	0.8
141	14½ miles east	3, NE¼NW¼	S. Wright	U. D. Wulfjen	Edge of draw	Old	45	6	0.5
143	16 miles east	42, NE¼NE¼	T.&P. Ry.Co., blk.36, T.2 S.	K. S. Boone	Bottom of draw	1920	21	6	0.8
145	17 miles east	40, NW¼NW¼	do.	McClintic Brothers	Gently rolling	--	49	6	1
146	16½ miles east	41, NE¼SW¼	do.	Annie S. Boone	Edge of draw	Old	52	6	1
147	do.	do.	do.	do.	Bottom of draw	--	15	6	0
148	17½ miles east	5, NE¼NW¼	T.&P. Ry.Co., blk.36, T.3 S.	do.	do.	Old	29	6	0
149	18 miles east	8, NE¼NW¼	do.	do.	Edge of draw	--	58	6	0.5
150	19½ miles southeast	19, SE¼SE¼	do.	B. W. Floyd	Bottom of draw	--	41	6	1.5
151	16½ miles southeast	21, SE¼SE¼	T.&P. Ry.Co., blk.37, T.3 S.	do.	Rolling	--	51	--	1
152	15½ miles east	2, SW¼NE¼	do.	do.	Gently rolling	Old	41	6	3.5
153	14½ miles southeast	2, NW¼NW¼	do.	do.	Level	Old	45	6	0.5
154	do.	3, NW¼NE¼	do.	Leonard Leech	Gently rolling	--	46	6	1.3
155	12 miles southeast	41, NE¼SE¼	W. T. Holcombe	M. E. Turner	Gentle slope	--	69	--	1
156	12½ miles southeast	5, NW¼NE¼	T.&P. Ry.Co., blk.37, T.3 S.	W. H. Abbot	do.	--	50	6	0
157	14 miles southeast	10, SE¼SE¼	T.&P. Ry.Co., blk.38, T.3 S.	-- Donavan Estate	Rolling	--	85	--	1.3
d/158	12 miles southeast	40, NW¼	W. T. Gray	J. M. Mathens	--	--	4,215	--	--
159	10 miles southeast	32, NE¼NE¼	T.&P. Ry.Co., blk.38, T.2 S.	-- Donavan Estate	--	--	53	6	1.3
161	9½ miles southeast	5, NW¼NW¼	T.&P. Ry.Co., blk.38, T.3 S.	J. W. Allen	Ridge-top	--	68	--	0.5
d/164	8 miles southeast	25, NW¼SE¼	T.&P. Ry.Co., blk.38, T.2 S.	S. R. Preston	Hill-top	--	75	--	1.5
165	7½ miles southeast	26, NW¼NE¼	do.	Midland Nat'l Bank	Near draw	Old	31	--	1.3
d/166	6 miles southeast	--	J. T. Andrews	Valley View School	Flat	--	65	6	1.2

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

b/ C, cylinder; E, electric; G, gasoline engine; H, hand; W, windmill; number indicates horsepower.

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
137	43.2	Apr. 15, 1937	C,W	D,S	Concrete curb. 10 feet galvanized iron casing at top. Estimated yield, 3 to 5 gallons a minute.
138	38	do.	C,W	S	12-inch iron casing.
140	41	do.	C,H	P	Concrete curb. Reported, car pump dry with hand pump.
141	29.4	Apr. 29, 1937	C,W	D,S	Concrete curb. Estimated yield, 2 to 5 gallons a minute.
143	9.3	do.	C,W	S	10 feet galvanized iron casing at top.
145	35.6	Mar. 12, 1937	C,W	S	10 feet iron casing at top. Altitude, 2,617 feet.
146	25.2	Mar. 24, 1937	C,W	D,S	Iron casing at top. 0.8 foot drawdown pumping 3 gallons a minute for 2 hours.
147	3.2	do.	C,W	S	Iron casing at top.
148	23.3	do.	C,W	S	Iron casing at top. Measured 0.5 foot drawdown after pumping 4 gallons a minute for 2 hours. Altitude,
149	28.8	do.	C,W	S	Iron casing at top. Reported "Red Beds" } 2,580 feet. at 48 feet. Altitude, 2,556 feet. Estimated yield,
150	18.5	do.	C,W	S	Estimated yield, 3 gallons a } 3 to 5 gallons a minute, minute. Measured 0.4 foot drawdown after pumping 3 gallons a minute for 4 hours. Altitude, 2,568 feet.
151	48	June 8, 1937	C,W	S	Measured yield, 5 gallons a minute. Measured while pumping.
152	36.4	Apr. 29, 1937	C,W	S	Iron casing. Estimated yield, 2 to 4 gallons a minute. Measured 1.5 foot drawdown after pumping 2 to 4 gal-
153	40.2	do.	C,W	S	Concrete curb. Estimated } lons a minute for 2 hours. yield, 3 to 8 gallons a minute.
154	41.9	do.	C,H	D,S	10 feet iron casing at top. Altitude, 2,648 feet.
155	65.1	June 29, 1937	C,W	S	Altitude, 2,699 feet.
156	47.4	do.	None	N	Reported drilled into "Red Beds." Reported weak supply.
157	40.3	July 14, 1937	C,W	S	Wood curb. Measured 2.8 foot drawdown after pumping 6 gallons a minute for 1/2 hour. Altitude, 2,652 feet.
158	--	--	--	N	Oil test. Drilled by Kerwin, et al. See log. Altitude, 2,718 feet.
159	33.6	June 29, 1937	C,W	S	10 feet steel casing at top.
161	51.5	do.	C,W	S	Wood curb.
164	47.1	June 8, 1937	C,W	S	Concrete curb.
165	34.5	June 29, 1937	C,W	S	Concrete curb. Measured while pumping 4 gallons a minute.
166	57.4	do.	C,W	P	Concrete curb. 10 feet steel casing at top.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
168	4 $\frac{1}{2}$ miles southeast	24, SE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.39,T.2 S.	Ruth Dowlin	Flat	--	91	--	0.7
171	4 $\frac{1}{4}$ miles south	21, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Mrs. A. Rayburn	--	--	87	--	1.2
173	4 $\frac{3}{8}$ miles south	23, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Ruth Dowlin	--	Old	80	--	0.5
175	7 miles south	35, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Mrs. Sally Blanton	Ridge-top	--	65	--	0.5
176	do.	35, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Near draw	1937	31	6	0.7
d/177	8 miles south	39, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Leon Bryant	Ridge-top	--	81	10	2
d/179	10 miles south	9,NE cor.NE $\frac{1}{4}$	T.&P. Ry.Co., blk.39,T.3S.	do.	--	--	4,478	--	--
180	8 $\frac{3}{8}$ miles south	44, SE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.39,T.2 S.	-- Robinson	Gentle slope	--	83	--	1.5
181	8 miles south	42, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	C. Scharbauer	Near draw	Old	35	6	1.6
182	7 $\frac{1}{2}$ miles south	31, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Flat	--	85	--	1.5
183	6 $\frac{1}{2}$ miles south	33, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	-- Parks Estate	Near draw	--	36	--	0
184	do.	33, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	-- Wilson	do.	--	40	--	--
186	6 miles south	28, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Cotton Flat School	Flat	--	43	--	0.5
189	do.	20, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Bob Hill	Rolling	Old	84	6	0
192	3 $\frac{3}{4}$ miles south	16, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Finch Murphy	do.	--	58	8	0.3
194	3 $\frac{1}{4}$ miles south	8, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	C. Phillips	do.	Old	58	72	1
195	4 $\frac{1}{4}$ miles southwest	6, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Harry Tolbert	Flat	--	78	8	1
d/196	4 miles southwest	6, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	-- Floyd Estate	--	--	66	6	1
197	4 $\frac{3}{4}$ miles southwest	1, NE $\frac{1}{4}$ SE $\frac{1}{4}$	T.&P. Ry.Co., blk.40,T.2 S.	T. W. Embry	--	1907	80	12	0.8
198	5 $\frac{1}{2}$ miles southwest	1, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Mrs. T. B. Roberts	Rolling	--	90	--	0.5
199	do.	12, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	C. Scharbauer	Edge of sink	--	94	8	2
200	6 $\frac{1}{2}$ miles southwest	24, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Near sink	--	89	8	1
201	7 $\frac{1}{2}$ miles southwest	26, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Flat	1936	104	6	1.5
202	10 $\frac{1}{2}$ miles southwest	42, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	do.	Old	75	--	0.8
203	11 miles southwest	7, NE $\frac{1}{4}$ NE $\frac{1}{4}$	Matt Daugherty	J. F. Haley	Edge of draw	--	31	--	0.5
205	10 $\frac{1}{2}$ miles southwest	32, NE $\frac{1}{4}$ SE $\frac{1}{4}$	T.&P. Ry.Co., blk.40,T.2 S.	J. C. Loper	Flat	--	74	--	0.5
d/206	do.	32, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	do.	--	64	6	0.5

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
168	71.9	June 30, 1937	C,W	D,S	Concrete curb. Altitude, 2,782 feet.
171	63.5	June 26, 1937	C,W	D,S	Concrete curb.
173	64.5	July 2, 1937	C,W	D,S	Do.
175	47.7	June 28, 1937	C,W	D,S	Wood curb.
176	27.8	do.	C,W	D,S	10 feet steel casing at top.
177	57.2	do.	C,W	N	Steel casing. Altitude, 2,749 feet.
179	--	--	--	--	Oil test. Drilled by West Virginia-Texas Co. See log. Altitude, 2,788 feet.
180	72.3	June 26, 1937	C,W	D,S	Concrete curb.
181	27.4	Aug. 2, 1937	C,W	D,S	10 feet 6-inch steel casing at top.
182	62.3	do.	C,W	S	Concrete curb.
183	33.2	July 31, 1937	C,W	S	Measured while pumping 3 to 4 gallons a minute.
184	--	--	C,W	D,S	Unable to measure water level.
186	31.1	June 26, 1937	C,W	P	Concrete curb. Measured 0.74 foot drawdown after pumping 2 gallons a minute for 18 minutes.
189	76.5	July 2, 1937	C,W	D,S	8 feet steel casing at top.
192	37.4	June 26, 1937	C,W	D,S	Concrete curb; 10 feet 8 $\frac{1}{4}$ -inch steel casing at top.
194	41.2	Aug. 2, 1937	C,W	D,S	Dug well. Brick curb; 20 feet brick casing at top.
195	52.9	June 7, 1937	C,W	D,S	Concrete curb.
196	54.9	do.	C,W	D	Do.
197	50.8	do.	C,W	D,S	6 feet wood casing at top. Reported strong supply.
198	71.4	do.	C,W	D,S	Concrete curb.
199	52.8	June 5, 1937	C,W	S	10 feet steel casing at top.
200	62	July 5, 1937	C,W	D,S	10 feet steel casing at top. Wet walls; water level not accurate.
201	70.5	do.	C,W	S	10 feet steel casing at top.
202	67.4	Aug. 2, 1937	C,W	S	Wood curb.
203	18.6	June 26, 1937	C,H	N	Do.
205	55.9	do.	C,W	D,S	Concrete curb.
206	40.4	do.	C	N	10 feet steel casing at top.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
207	11 miles southwest	32, SW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.2 S.	T. J. Miles	Edge of draw	--	46	6	0
208	do.	30, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	B. M. McKardless	--	--	46	--	0.5
209	10 miles southwest	20, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	C. Scharbauer	--	--	56	6	2.2
210	9 miles southwest	28, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Flat	--	29	6	1.5
211	8 $\frac{1}{2}$ miles southwest	22, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	--	--	44	--	0.2
212	6 $\frac{1}{2}$ miles southwest	10, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	M. T. Walker	Gentle slope	--	89	--	1
213	7 miles southwest	do.	do.	H. O. Prestridge	do.	--	72	--	0.5
214	7 $\frac{1}{2}$ miles southwest	10, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	J. E. Feeler	do.	--	76	10	2
215	10 miles southwest	6, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	C. Scharbauer	Near sink	--	70	--	0.7
216	10 $\frac{1}{2}$ miles southwest	18, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	S. A. Wilmon	Flat	1936	53	6	0.7
217	11 miles southwest	19, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	C. Scharbauer	--	--	40	--	0.8
d/218	do.	13, NW $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.41, T.2 S.	H. S. Foster	Flat	--	62	--	1.3
219	11 $\frac{1}{2}$ miles southwest	13, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	do.	--	59	--	1.5
d/220	12 miles southwest	14, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Near sink	--	61	--	2
221	do.	14, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	--	1937	89	--	0.5
d/222	12 $\frac{1}{2}$ miles southwest	23, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	R. J. Webb	--	Old	39	--	0.5
223	14 miles southwest	21, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	E. Smith	Edge of sink	--	34	--	2
d/224	16 $\frac{1}{2}$ miles southwest	30, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	-- Smith	Gentle slope	--	55	--	0.5
d/225	14 $\frac{1}{2}$ miles southwest	34, cen NW $\frac{1}{4}$	do.	Roy Parks	--	--	4,980	--	--
226	do.	34, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	92	--	1
227	17 miles southwest	5, SE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.41, T.3 S.	Hammitt Estate	Gentle slope	--	41	6	0.3
228	19 $\frac{1}{2}$ miles southwest	20, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Dora Roberts	--	--	89	6	0.5
229	18 $\frac{1}{2}$ miles southwest	17, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Gentle slope	--	84	--	--
d/230	13 $\frac{1}{2}$ miles southwest	1, SE $\frac{1}{4}$ SE $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.3 S.	Roy Parks	Ridge-top	--	128	6	0.8
231	12 miles southwest	7, NW $\frac{1}{4}$ SW $\frac{1}{4}$	Mett Daugherty	Smith & Robinson	Flat	--	58	6	0.8
232	15 miles south	14, SW $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.3 S.	Roy Parks	Gentle slope	Old	145	12	--
233	do.	24, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	John Windham	do.	--	200	6	--
234	14 $\frac{1}{2}$ miles south	22, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	C. Scharbauer	Bottom of draw	--	148	--	--

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
207	26.3	July 7, 1937	C,W	I	Dug well, 0 to 8 feet, drilled well, 8 to 46 feet. 3 feet 6-inch galvanized iron casing. Measuring point
208	26.9	do.	C,W	I	Irrigates garden. at top of drilled portion of well.
209	35.2	do.	C,W	S	Concrete curb; steel casing. Measured 1.6 feet drawdown after pumping 4 gallons a minute for 45 minutes.
210	30.8	July 5, 1937	C,W	S	10 feet steel casing. Measured 0.9 foot drawdown after pumping 4 gallons a minute for 40 minutes.
211	38.5	do.	C,W	S	Concrete curb.
212	82.2	June 4, 1937	C,E,I	D,I	Concrete curb. Reported yield, 50 gallons a minute. Irrigates 4 acres.
213	69.9	do.	C,E,I	D,I	Concrete curb. Irrigates 8 acres.
214	50.6	do.	C,W	D,S	10 feet steel casing.
215	34.2	July 22, 1937	C,W	S	Concrete curb.
216	40.2	June 22, 1937	C,W	D,S	Concrete curb; 8 feet steel casing at top. Drilled by Byron Robinson.
217	38.2	July 9, 1937	C,W	S	Measured while pumping 5 gallons a minute.
218	26.8	July 22, 1937	C,W	N	Concrete curb.
219	32.9	June 5, 1937	C,W	S	Concrete curb. Measured while pumping slowly. Reported yield, 25 to 30 gallons a minute.
220	26	Aug. 3, 1937	C,W	N	Wood casing at top.
221	27.7	do.	C,W	D,S	Concrete curb.
222	26.6	June 5, 1937	C,W	N	Wood casing at top.
223	25.6	do.	C,W	S	Concrete curb.
224	30.8	June 22, 1937	C,W	N	Wood curb. In Ector County near county line.
225	--	--	--	--	Oil test. Drilled by Shoup, et al. See log. Altitude, 4,980 feet.
226	46.4	July 7, 1937	C,W	S	Concrete curb.
227	32.4	do.	C,W	S	Concrete curb; steel casing at top. Measured while pumping 6 to 8 gallons a minute.
228	53.7	July 9, 1937	C,W	D,S	Concrete curb; steel casing at top.
229	--	--	C,W	S	Concrete curb; wet walls; unable to measure water level.
230	88.3	July 9, 1937	C,W	S	Concrete curb; steel casing at top. Measured yield, 4 gallons a minute.
231	44.6	June 26, 1937	C,W	S	Concrete curb; steel casing at top.
232	--	--	C,W	S	Wood casing at top. Wet walls; unable to measure water level.
233	--	--	C,W	S	Steel casing at top. Wet walls; unable to measure water level.
234	--	--	C,W	S	Concrete curb; steel casing at top. Wet walls; unable to measure water level.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
235	12 miles south	10, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.3 S.	C. Scharbauer	Flat	Old	153	--	1
236	11 miles south	14, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.39, T.3 S.	Wilson Bryant	Slope	--	134	--	1.5
237	12 miles south	20, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	do.	Old	40	--	1
240	15 miles south	34, NW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.3 S.	B. Robinson	Flat	--	56	4	0.5
241	15 $\frac{1}{2}$ miles southeast	34, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Edge of draw	--	24	--	1.5
243	15 miles southeast	24, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	D. L. Hutt	Gentle slope	--	92	8	2
244	14 $\frac{1}{2}$ miles southeast	24, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	do.	--	82	--	0
245	16 miles southeast	28, NE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	Slope	--	58	12	1.5
246	18 miles southeast	40, NE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	Bottom of draw	--	104	4	1.3
247	20 $\frac{1}{2}$ miles southeast	14, SE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.4 S.	do.	In sink	--	128	6	--
d/248	do.	do.	do.	do.	do.	--	4,227	--	--
249	do.	8, SW $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.4 S.	do.	Flat	--	174	6	--
250	18 miles southeast	43, NE $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.3 S.	do.	Bottom of draw	--	65	6	1
d/251	17 $\frac{1}{2}$ miles southeast	42, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Edge of Peck's Lake	--	72	6	2
252	16 $\frac{1}{2}$ miles southeast	29, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Gentle slope	--	104	--	0.5
253	17 $\frac{1}{2}$ miles southeast	28, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	do.	--	56	6	0.5
254	21 miles southeast	48, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	A. Judkins	Valley flat	--	45	6	1
255	do.	42, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	W. A. Hutchinson	Side of valley	Old	48	6	0
256	22 $\frac{1}{2}$ miles southeast	12, NE $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.4 S.	do.	Bottom of draw	--	31	6	0.5
257	22 miles southeast	10, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	J. W. Driver	Head of draw	Old	90	6	0.8
258	23 miles southeast	14, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	Ridge-top	Old	84	6	0.5
259	23 $\frac{1}{2}$ miles southeast	13, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	W. M. Shrock	Bottom of draw	Old	37	8	3
260	25 miles southeast	34, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Ridge-top	--	123	6	1
261	27 $\frac{1}{2}$ miles southeast	4, SE $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.5 S.	W. W. Boles	do.	Old	197	6	1
d/262	28 miles southeast	8, cen.NE $\frac{1}{4}$	do.	-- Hill	--	--	3,715	--	--
263	27 $\frac{1}{2}$ miles southeast	12, NW $\frac{1}{4}$ SE $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.5 S.	T. O. Midkiff	Near lake	--	127	--	--
264	26 $\frac{1}{2}$ miles southeast	2, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Flat	--	118	--	0.8

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
235	130	Aug. 2, 1937	C,W	S	Wet walls; water level not accurate.
236	98.6	June 28, 1937	C,W	S	Concrete curb. Wood casing at top.
237	33.5	do.	C,W	D,S	Concrete curb. Measured while pumping slowly. Altitude, 2,715 feet.
240	31.8	July 15, 1937	C,W	S	Concrete curb; galvanized iron casing at top. 2 feet drawdown after pumping 2 gallons a minute for 25 minutes.
241	19.4	June 8, 1937	C,W	S	Concrete curb.
243	61.9	do.	C,W	S	Steel casing at top.
244	66.4	July 13, 1937	C,W	S	Concrete curb. Altitude, 2,693 feet.
245	45.6	July 14, 1937	C,W	S	Cast iron casing at top.
246	85.6	July 13, 1937	C,W	S	Steel casing at top. Altitude, 2,675 feet.
247	--	--	C,W	S	Steel casing at top. Wet walls; unable to measure water level.
248	--	--	None	N	Oil test. Drilled by Pure Oil Co. See log. Altitude, 2,768 feet.
249	--	--	C,W	S	Concrete curb; 10 feet steel casing at top. Altitude, 2,758 feet.
250	55.5	July 13, 1937	C,W	S	8 feet steel casing at top.
251	39.6	July 14, 1937	None	N	Concrete curb; 8 feet steel casing. Altitude, 2,636 feet.
252	92.4	do.	C,W	S	Concrete curb. Measured while pumping 4 gallons a minute. Altitude, 2,638 feet.
253	53.5	do.	C,W	S	Concrete curb; steel casing at top. Measured while pumping 3 gallons a minute.
254	28.8	Mar. 31, 1937	C,W	S	Concrete curb. Measured 2.3 feet drawdown after pumping 5 gallons a minute for 4 hours. Altitude, 2,620 feet.
255	27.4	do.	C,W	S	Concrete curb. Measured 2.5 feet drawdown after pumping 5 gallons a minute for 4 hours. Altitude, 2,627 feet.
256	17.2	Mar. 30, 1937	C,W	D,S	Concrete curb. Altitude, 2,627 feet.
257	68.4	do.	C,W	S	Concrete curb. Reported 80 feet blue limestone, 10 feet coarse water sand. Altitude, 2,675 feet.
258	58.2	do.	C,W	D,S	Concrete curb. Wet walls; water level not accurate. Altitude, 2,676 feet.
259	13.2	do.	C,W	S	15 feet iron casing at top. Estimated yield, 3 to 5 gallons a minute. Altitude, 2,635 feet.
260	101.6	do.	C,W	S	Concrete curb; 10 feet galvanized iron casing at top. Wet walls; water level not accurate.
261	92.7	Apr. 9, 1937	C,W	S	Wood curb. Estimated yield, 3 to 5 gallons a minute. Altitude, 2,732 feet.
262	--	--	None	N	Oil test. Drilled by Everett, et al. See log. Altitude, 2,720 feet.
263	80	e/	C,W	D,S	Concrete curb. Owner reports water hard during rainy season and soft during dry season.
264	108.9	June 8, 1937	C,W	S	Concrete curb. Measured while pumping 4 gallons a minute. Altitude, 2,740 feet.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
265	26 miles southeast	48, SE $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.4 S.	T. O. Midkiff	Near sink	--	122	--	1.5
d/266	25 $\frac{1}{2}$ miles southeast	43, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.4 S.	A. Kloh, et al.	Flat	Old	132	6	0.2
267	24 $\frac{1}{2}$ miles southeast	42, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	S. R. Preston	--	Old	82	6	--
268	24 miles southeast	38, SE $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.4 S.	T. O. Midkiff	--	1936	146	6	1.5
269	23 miles southeast	25, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	Edge of sink	--	36	--	0
270	22 $\frac{1}{2}$ miles southeast	30, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.37, T.4 S.	S. R. Preston	Ridge-top	--	156	--	1.5
271	22 miles southeast	24, NE $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.38, T.4 S.	do.	--	--	142	6	0.5
272	20 miles southeast	16, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	D. L. Futt	--	--	175	--	--
273	24 $\frac{1}{2}$ miles south	48, SW $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.39, T.4 S.	Midkiff Brothers	Near sink	--	168	8	--
274	23 $\frac{1}{2}$ miles south	38, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Flat	--	165	--	0
275	24 miles south	40, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	J. R. Simpson Estate	--	--	139	--	0.5
276	22 $\frac{1}{2}$ miles south	34, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Midkiff Brothers	Level	--	162	8	1.3
277	22 miles south	26, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	Near sink	--	126	8	--
278	20 miles south	23, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	A. Kloh, et al.	Edge of draw	--	54	--	0.8
279	do.	22, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Joe Youngblood	In small draw	--	76	6	2
280	19 miles south	16, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Bill Van Huss	Bottom of draw	--	39	--	1.5
281	do.	8, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	A. C. Francis	Edge of draw	--	55	6	1.5
282	18 $\frac{1}{2}$ miles south	7, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	Bottom of draw	--	69	--	0
283	do.	do.	do.	do.	do.	--	39	--	2.3
284	18 miles south	6, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	do.	--	109	6	1.5
285	17 $\frac{1}{2}$ miles south	6, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Edge of draw	--	122	--	--
286	17 miles south	43, NW $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.39, T.3 S.	A. Kloh, et al.	Bottom of draw	--	70	8	1
287	do.	36, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.3 S.	John Windham	Edge of draw	Old	129	6	0.5
288	19 $\frac{1}{2}$ miles south	11, NE $\frac{1}{4}$ SW $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.4 S.	do.	Bottom of draw	Old	84	--	2.8
d/289	20 miles south	13, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	A. C. Francis	--	--	4,565	--	--
290	22 miles south	26, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	G. L. Dyree, Jr.	Bottom of draw	--	138	6	2
d/291	do.	20, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	John Windham	Gentle slope	--	177	--	--

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
265	102.8	June 11, 1937	C,W	S	Concrete curb. Measured while pumping 5 gallons a minute. Altitude, 2,700 feet.
266	107.8	June 10, 1937	None	N	Concrete curb. Altitude, 2,742 feet.
267	--	--	C,W	S	Concrete curb. Wet walls; unable to measure water level.
268	131	June 11, 1937	C,W	S	Concrete curb. Measured 5.4 foot drawdown after pumping 3 gallons a minute for 30 minutes.
269	33.8	June 15, 1937	None	N	
270	90	June 10, 1937	C,W	S	Concrete curb. Wet walls; water level not accurate.
271	90	do.	C,W	S	Concrete curb. Wet walls, water level not accurate. Pumps dry in 6 hours with small gasoline motor. Altitude, 2,747 feet.
272	--	--	C,W,G	S	Wet walls; unable to measure water level. Altitude, 2,785 feet.
273	--	--	C,W	S	Concrete curb; 45 feet perforated steel casing at bottom. Wet walls; unable to measure water level.
274	130	e/	C,W	D,S	Concrete curb. Reported well will pump dry with strong wind. First water reported at 136 feet.
275	120	June 28, 1937	C,W	S	Wet walls; water level not accurate. Altitude, 2,804 feet.
276	154	June 15, 1937	C,W	S	Concrete curb. Measured while pumping 1 to 2 gallons a minute. Pumps dry pumping 1 to 2 gallons a minute.
277	--	--	C,W	S	Measured yield, 4 gallons a minute. Reported original depth 170 feet in sand. Strong supply.
278	53	June 23, 1937	C,W	S	
279	48	do.	C,W	S	Concrete curb; steel casing at top. Wet walls; water level not accurate. Altitude, 2,711 feet.
280	14	do.	C,W	S	Concrete curb. Measured while pumping 1 gallon a minute. Altitude, 2,683 feet.
281	34.8	July 30, 1937	C,G,2	S,I	Steel casing at top. Altitude, 2,707 feet.
282	22.7	do.	C,W	S	Measured while pumping 3 gallons a minute.
283	27.8	do.	C,W	S	Concrete curb. Measured while pumping 5 gallons a minute.
284	43.4	do.	C,W	S	10 feet steel casing at top.
285	--	--	C,W	D,S	Concrete curb. Wet walls; unable to measure water level.
286	36.3	July 30, 1937	C,W	S	Concrete curb, 10 feet steel casing at top.
287	119.3	July 16, 1937	C,W	S	Galvanized iron casing at top. Measured 5.5 feet drawdown after pumping 4 gallons a minute for 25 minutes.
288	--	--	C,W	S	Concrete curb. Measured yield, 10 gallons a minute.
289	--	--	None	N	Oil test. Drilled by C. P. Sheldon, et al. See log. Altitude, 2,783 feet.
290	79.9	July 29, 1937	C,W	S	Steel casing at top.
291	--	--	C,W	S	Wet walls; unable to measure water level. Measured yield, 5 gallons a minute.

Records of wells in Midland County--Continued

No.	Distance from Midland	Section	Survey, Block, Township	Owner	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
292	21 miles south	17, NW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.4 S.	John Windham	Near sink	--	156	--	--
293	20 miles south	9, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	Bottom of draw	--	106	--	1
294	18 $\frac{1}{4}$ miles south	40, NE $\frac{1}{4}$ NE $\frac{1}{4}$	T.&P. Ry.Co., blk.40, T.3 S.	Roy Parks	Edge of sink	--	144	6	--
295	19 miles south	37, SW $\frac{1}{4}$ NW $\frac{1}{4}$	T.&P. Ry.Co., blk.41, T.3 S.	do.	Near sink	--	166	--	1.5
d/296	21 $\frac{1}{2}$ miles south	2, SE $\frac{1}{4}$ SE $\frac{1}{4}$	T.&P. Ry.Co., blk.41, T.4 S.	do.	Bottom of sink	--	160	--	--
297	22 $\frac{1}{2}$ miles south	9, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	O. P. Jones Estate	Flat	--	156	12	0.7
d/298	23 $\frac{1}{2}$ miles south	9, SW $\frac{1}{4}$	do.	do.	--	--	2,111	--	--
d/299	25 $\frac{1}{2}$ miles south	28, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	John Windham	Flat	--	200 $\frac{1}{2}$	--	--
300	24 $\frac{1}{2}$ miles south	17, NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	O. P. Jones Estate	do.	--	132	6	0
301	25 miles southwest	17, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	do.	do.	--	162	--	0.5
d/302	24 $\frac{1}{2}$ miles southwest	1, SE $\frac{1}{4}$	T.&P. Ry.Co., blk.42, T.4 S.	do.	--	--	2,617	--	--

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

b/ C, cylinder; E, electric; G, gasoline engine; H, hand; W, windmill; number indicates horsepower.

Dan A. Davis, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
292	--	--	C,W	D,S	Wet walls; unable to measure water level.
293	72	July 16, 1937	C,W	S	Concrete curb. Measured yield, 12 gallons a minute.
294	--	--	C,W	S	Steel casing at top. Wet walls; unable to measure water level.
295	127.5	July 16, 1937	C,W	S	Concrete curb. Measured while pumping 2 gallons a minute.
296	--	--	C,W	S	Wet walls; unable to measure water level.
297	132	July 29, 1937	C,W	S	Wood casing at top. Wet walls; water level not accurate.
298	--	--	None	N	Potash test. Drilled by Standard Potash Co. See log. Altitude, 2,888 feet.
299	--	--	C,W	S	Wood casing. Wet walls; unable to measure water level. In Upton County, about $\frac{1}{2}$ mile south county line.
300	118.4	July 29, 1937	None	N	10 feet steel casing. Formerly used for pipe line pump station.
301	129.4	do.	C,W	S	Concrete curb. Measured while pumping slowly.
302	--	--	None	N	Potash test. Drilled by Standard Potash Co. See log. Altitude, 2,896 feet.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Table of Drillers' Logs, Midland County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 25</u>		
Orbit Oil Co., Morelan No. 1. $3\frac{1}{2}$ miles northwest of Midland.		
Red rock-	120	120
Red rock, hole caving-	815	935
Red rock-	175	1110
Sand-	20	1130
Sand, hole full of water-	22	1152
Red rock-	18	1170
Sandy red rock-	50	1220
Red rock-	20	1240
Water sand, hole full of water-	10	1250
Sand-	30	1280
Hard sand-	12	1292
Soft sand-	8	1300
Sand-	40	1340
Sandy red rock	50	1390
Sand-	10	1400
Red rock-	75	1475
Chalk-	5	1480
Red rock-	110	1590
Sandy red rock-	285	1875
Anhydrite-	5	1880
Sandy red rock-	30	1910
Sandy shale-	10	1920
Salt-	50	1970
TOTAL DEPTH-		4377

<u>Driller's log of well 34</u>		
City of Midland test well No. 8.		
Dry sandy soil-	3	3
Rock-	27	30
Dry sandy clay-	10	40
Clay with seep water-	10	50
Yellow clay with fine-grained sand and litte water-	25	75
Yellow clay-	10	85
"Red bed" clay-	10	95
TOTAL DEPTH-		95

<u>Driller's log of well 35</u>		
City of Midland test well No. 7.		
Dry sandy soil-	6	6
Mixed clay and gypsum-	18	24
Rock-	12	36
Mixed sand and clay-	6	42
Water sand, rock-	10	52
Red gumbo-	13	65
Sand rock-	7	72
Red gumbo-	5	77
Sand rock-	5	82
"Red bed" clay-	8	90
TOTAL DEPTH-		90

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 39</u>		
City of Midland test well No. 4.		
Dry sandy soil-	12	12
White rock-	30	42
Mixed clay and gypsum-	7	49
Water sand-	4	53
Light-colored clay-	2	55
"Red bed" clay-	105	160
TOTAL DEPTH-		160

<u>Driller's log of well 40</u>		
City of Midland test well No. 1.		
Dry sandy soil-	$\frac{1}{2}$	$\frac{1}{2}$
White rock-	28.0	29.0
Red gumbo	39.0	60.0
Poor water sand-	4.0	72.0
"Red bed" clay-	86.0	158.0
TOTAL DEPTH-		158.0

<u>Driller's log of well 60</u>		
City of Midland test well No. 5. 3 miles east of Midland.		
Dry sandy soil-	6	6
White mixed clay and gypsum	32	38
Gypsum water sand	2	40
Light-colored clay-	10	50
Water sand and gravel	5	55
Rock-	14	69
Light-colored clay-	6	75
Mixed water sand and clay	50	125
Yellow clay-	12	137
"Red bed" clay-	2	139
TOTAL DEPTH-		139

<u>Driller's log of well 61</u>		
City of Midland test well No. 6. $3\frac{3}{4}$ miles east of Midland.		
Dry sandy soil-	10	10
Mixed clay and gypsum	28	38
Rock-	2	40
Clay-	6	46
Water sand and gravel	4	50
Sand rock, little water	4	54
Light-colored clay-	4	58
"Red bed" clay-	82	140
TOTAL DEPTH-		140

<u>Driller's log of well 63</u>		
City of Midland well No. 4. 4 miles east of Midland.		
Caliche-	35	35
Brown lime-	11	46
Caliche-	14	60
Hard lime-	1	61
Gravel-	7	68

Table of Drillers' Logs, Midland County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 63--Continued</u>		
Hard sand- - - - -	1	69
Soft gravel, hole full of water- - - - -	27	96
Red rock- - - - -	3	99
Gravel- - - - -	13	112
Blue shale- - - - -	12	124
Red rock- - - - -	2	126
TOTAL DEPTH- - - - -		126
The well shot from 75 feet to 106 feet with 200 pounds of 100 per cent blasting gelatin.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 64</u>		
City of Midland well No. 3. 4 miles east of Midland.		
Surface materials- - - - -	10	10
Caliche- - - - -	10	20
Gypsum- - - - -	10	30
Sandy clay- - - - -	15	45
Clay- - - - -	5	50
Water sand- - - - -	5	55
Gypsum- - - - -	10	65
Hard lime- - - - -	6	71
Water sand and gravel- - - -	30	101
Red rock- - - - -	2	103
Water sand and gravel- - - -	12	115
Gray clay- - - - -	15	130
TOTAL DEPTH- - - - -		130
CASING RECORD: 108 feet 6 inches of 15½-inch casing cemented at 69 feet with 27 sacks of cement; 111 feet of suction line. Well was shot between 103 feet and 115 feet with 100 pounds of dynamite.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 65</u>		
City of Midland well No. 5. 4 miles east of Midland.		
Caliche- - - - -	35	35
Hard lime- - - - -	11	46
Water sand- - - - -	4	50
Hard lime- - - - -	10	60
Gravel- - - - -	13	73
Red rock- - - - -	5	78
Gravel- - - - -	7	85
Blue shale- - - - -	8	93
Lime- - - - -	1	94
Hard gravel- - - - -	11	105
Gravel and blue shale- - - -	2	107
Yellow clay- - - - -	10	117
TOTAL DEPTH- - - - -		117

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 67</u>		
City of Midland test well No. 9. 4 miles east of Midland.		
Sandy soil- - - - -	10	10
Mixed clay and gypsum- - - -	27	37
Rock- - - - -	8	45
Clay- - - - -	3	48
Dry pack sand- - - - -	2	50
Mixed sand clay- - - - -	5	55
Rock- - - - -	2	57
Mixed sand and clay with water- - - - -	6	63
Mixed fine-grained sand and clay- - - - -	22	85
Yellow clay- - - - -	17	102
Mixed clay and sand (main water bed)- - - - -	13	115
Yellow clay- - - - -	14	129
"Red bed" clay- - - - -	1	130
TOTAL DEPTH- - - - -		130

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 70</u>		
City of Midland test well No. 3. 4½ miles east of Midland		
Dry sandy soil- - - - -	6	6
Light-colored gumbo- - - - -	6	12
Mixed clay and gypsum- - - -	25	37
Gypsum water rock- - - - -	10	47
Water sand- - - - -	5	52
Light-colored clay- - - - -	8	60
Sand rock, no water- - - - -	10	70
"Red bed" clay- - - - -	90	160
TOTAL DEPTH- - - - -		160

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 113</u>		
Phillips Petroleum Corp., Stokes No. 1. 14 miles east of Midland.		
Surface materials- - - - -	15	15
Caliche- - - - -	25	40
Limestone and sand - - - - -	40	80
Water sand- - - - -	5	85
Sandy shale, 7 bailers of water per hour at 90 feet. 10		95
Red rock- - - - -	105	200
Lime- - - - -	15	215
Red rock- - - - -	765	980
Sand, hole full of water- - - -	19	999
Red rock- - - - -	21	1020
Water sand, hole full of water at 1,025 feet.- - - -	20	1040
Red rock- - - - -	10	1050
Sand- - - - -	5	1055
Red rock- - - - -	25	1080
Water sand, hole full of water- - - - -	10	1090

(Continued on next page)

Table of Drillers' Logs, Midland County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 113--Continued</u>		
Red rock- - - - -	20	1110
Sandy shale- - - - -	40	1150
Red rock- - - - -	20	1170
Sandy shale- - - - -	15	1185
Red rock and gypsum- - - -	10	1195
Red rock- - - - -	95	1290
"Red bed"- - - - -	245	1535
Red bed and gypsum, shells-	40	1575
Lime, top of salt- - - - -	35	1610
Potash and salt- - - - -	20	1630
Salt and gypsum, shells- -	505	2135
TOTAL DEPTH- - - - -		4340

<u>Driller's log of well 135</u>		
M. H. Fisher, 17 miles east of Midland.		
Red and brown sandy surface materials- - - - -	12	12
Lime, gypsum and sandy clay	30	42
Water sand and gravel- - -	7	49
TOTAL DEPTH- - - - -		49

<u>Driller's log of well 158</u>		
Kerwin et al., Mathens No. 1. 12 miles southeast of Midland.		
Surface materials- - - - -	20	20
Broken sand- - - - -	10	30
Sandy lime- - - - -	35	65
Red mud- - - - -	15	80
Sandy red rock- - - - -	10	90
Sand, water- - - - -	15	105
Red mud- - - - -	365	470
Red rock- - - - -	120	590
Red mud- - - - -	185	775
Red rock- - - - -	80	855
Sand, 15 bailers of salt water per hour- - - - -	20	875
Sand- - - - -	10	885
Sandy red rock- - - - -	90	975
Red sand- - - - -	30	1005
Sandy red rock- - - - -	15	1020
Sand- - - - -	15	1035
Sandy red rock- - - - -	55	1090
Hard sand- - - - -	8	1098
Red mud- - - - -	2	1100
Sandy red rock- - - - -	60	1160
Red mud- - - - -	5	1165
Red rock- - - - -	15	1180
Red mud- - - - -	65	1245
Red rock- - - - -	75	1320
Red mud- - - - -	10	1330
Sandy red rock- - - - -	175	1505
Red and gray sand- - - - -	35	1540
Sandy red rock- - - - -	20	1560
Anhydrite and red rock, shells- - - - -	50	1610

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 158--Continued</u>		
Anhydrite and salt- - - - -	100	1710
Salt- - - - -	270	1980
Potash and salt- - - - -	60	2040
TOTAL DEPTH- - - - -		4215

<u>Driller's log of well 179</u>		
West Virginia-Texas, Bryant No. 1. 10 miles south of Midland.		
Yellow sand and clay- - - -	6	6
Shattered lime- - - - -	6	12
Red and yellow sand	60	80
Red and yellow sand, and small amount of water- - - - -	4	84
Red clay and soft yellow sand- - - - -	49	133
Hard red sand and water - -	6	139
Red shale- - - - -	13	152
"Red beds"- - - - -	628	780
Red sand, little water- - -	15	795
"Red beds"- - - - -	20	815
Gray sand- - - - -	20	835
"Red beds"- - - - -	125	960
"Red beds" and barren sand-	20	980
"Red beds", alkali water at 990- - - - -	60	1040
Red sand with streaks of red shale- - - - -	96	1136
"Red beds"- - - - -	5	1141
Gray sand, some water- - - -	55	1196
Gray sand, fresh water - - -	14	1210
Gray sand- - - - -	23	1233
"Red beds"- - - - -	12	1245
Gray sand- - - - -	38	1283
"Red beds"- - - - -	7	1290
Gray sand- - - - -	5	1295
"Red beds"- - - - -	9	1304
Gray sand- - - - -	46	1350
"Red beds"- - - - -	8	1358
Gray sand, first salt water-	40	1398
"Red beds"- - - - -	267	1665
Gray sand, some water- - - -	5	1670
"Red beds"- - - - -	70	1740
Red rock- - - - -	20	1760
Salt rock and shells- - - -	165	1925
TOTAL DEPTH- - - - -		4478

<u>Driller's log of well 225</u>		
Shoup et al., Roy Parks No. 1. 14 1/2 miles southwest of Midland.		
Surface materials- - - - -	5	5
Gypsum and white sand- - - -	50	55
Hard white sand- - - - -	25	80
Red rock- - - - -	10	90
Yellow sand, water- - - - -	30	120
Red mud- - - - -	93	213

(Continued on next page)

Table of Drillers' Logs, Midland County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 225--Continued</u>		
Red rock, hole caving-	357	570
Red rock-	95	665
Red mud-	48	713
Red rock-	187	900
Water sand-	2	902
Red rock-	66	968
Red rock, sand and shells-	7	975
Blue shale-	7	982
Red rock-	97	1079
Red sand-	21	1100
Sand-	25	1125
Red sand-	5	1130
Sand-	20	1150
Red rock-	30	1180
Red rock, sand and shells-	18	1198
Red mud-	17	1215
Red sand-	30	1245
Red rock, sand, shells water-	25	1270
Red mud-	32	1302
Red rock, hole full of water-	28	1330
Red rock-	100	1430
Red shale	240	1670
Anhydrite-	15	1685
Red rock-	15	1700
Salt-	50	1750
TOTAL DEPTH-		4980

<u>Driller's log of well 248</u>		
Pure Oil Co., J. E. Hutt No. 1. 20 $\frac{1}{2}$ miles southeast of Midland.		
Surface materials and lime-		
stones-	65	65
Lime and shale-	10	75
Shale-	10	85
Soft chalk and sand-	30	115
Red rock-	5	120
Brown sand-	8	128
Sand rock-	4	132
Soft sand, fresh water at 141 feet,-	16	148
Red rock-	3	151
Water sand-	11	162
Red rock-	10	172
Coarse water sand-	23	195
Red rock-	22	217
Sand-	3	220
Water sand-	14	234
Red shale-	66	300
Red sand-	21	321
Red shale-	69	390
Red sandstone and red shale-	20	410
Red rock-	28	438

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 248--Continued</u>		
Red sandstone-	3	441
Red shale-	137	578
Sticky "red bed"-	36	614
Sandy shale-	60	674
Shale and shells-	140	814
Sandy "red beds"-	61	875
Red rock and shale-	39	914
Broken lime-	20	934
Shale and shells	24	958
Shale and hard lime, shells-	23	981
Sandy lime-	10	991
Sandy red rock-	7	998
Shale and hard shells-	29	1027
Red rock-	4	1031
Red rock and hard sand-	60	1091
Hard sand and shells-	109	1200
"Red beds"-	5	1205
Red shale and streaks of gypsum-	280	1485
Red shale-	8	1493
Red rock and streaks of sandy lime-	55	1548
Red shale and red rock-	62	1610
Anhydrite and white lime-	10	1620
Red bed and lime shells-	50	1670
Broken anhydrite-	25	1695
Red sandy shale, potash, shell and anhydrite-	85	1780
Potash and shells-	10	1790
Potash, shells and salt-	100	1890
TOTAL DEPTH-		4227

<u>Driller's log of well 262</u>		
Everett et al., Hill No. 1. 12 miles southeast of Midland.		
Yellow clay-	60	60
Red rock-	10	70
Lime-	15	85
Red rock-	35	120
Blue shale-	20	140
Lime-	15	155
Sand-	20	175
Red rock-	35	210
Lime-	10	220
Sand, fresh water-	10	230
Red rock-	15	245
Sand-	5	250
Red rock-	10	260
Sand-	10	270
Sandy lime-	10	280
Red rock-	5	285
Sandy lime-	35	320
Lime-	10	330
Red rock-	110	440

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Table of 'Drillers' Logs, Midland County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 262--Continued</u>		
Lime- - - - -	10	450
Red rock- - - - -	45	495
Sandy lime- - - - -	10	505
Red rock- - - - -	65	570
Lime- - - - -	10	580
Red rock- - - - -	40	620
Blue lime- - - - -	20	640
Red rock- - - - -	40	680
Lime- - - - -	5	685
Sandy lime- - - - -	30	715
Red rock- - - - -	10	725
Pink shale- - - - -	35	760
Red rock - - - - -	10	770
Red sandy shale- - - - -	35	805
Water sand, hole full of water- - - - -	53	858
Red rock- - - - -	72	930
Blue shale- - - - -	5	935
Red water sand, hole full of water- - - - -	95	1030
Red rock- - - - -	5	1035
Red water sand- - - - -	8	1043
Sandy lime- - - - -	7	1050
Red water sand- - - - -	15	1065
Red sandy shale- - - - -	35	1100
Red water sand, hole full of water- - - - -	20	1120
Red shale- - - - -	10	1130
Red sand- - - - -	5	1135
Red shale- - - - -	470	1605
White lime, 4 bailers of salt water- - - - -	10	1615
Salt- - - - -	75	1690
TOTAL DEPTH- - - - -		3715

<u>Driller's log of well 289</u>		
C. P. Sheldon et al., Francis No. 1. 20 miles south of Midland.		
Surface materials- - - - -	35	35
Yellow clay and limestone -	15	50
Sand- - - - -	40	90
Yellow clay and limestone -	33	123
Sand, hole full of water at 150 feet.- - - - -	42	165
Blue slate- - - - -	10	175
Sand and lime- - - - -	25	200
Lime- - - - -	5	205
Red rock- - - - -	565	770
Gray sandy shale - - - - -	20	790
Red rock- - - - -	25	815
Sand, water - - - - -	20	835
Sand and gravel- - - - -	10	845
Red rock- - - - -	10	855
Red shale- - - - -	20	875

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 289--Continued</u>		
Sandy shale- - - - -	10	885
Red rock- - - - -	10	895
Red rock and sandy limestone	20	915
Brown sandy limestone- - - -	25	940
Red rock- - - - -	10	950
Sand, shale and lime- - - -	65	1015
Hard sand- - - - -	25	1040
Sandy shale- - - - -	10	1050
"Red bed"- - - - -	10	1060
Sand, hole full of water at 1,075 feet- - - - -	40	1100
Red rock- - - - -	15	1115
Sand, hole full of water- - -	10	1125
Red rock- - - - -	5	1130
Water sand, hole full of water- - - - -	15	1145
Red rock- - - - -	5	1150
Water sand, hole full of water, 1160-1170 feet- - -	20	1170
Sand- - - - -	15	1185
Red rock- - - - -	5	1190
Hard red sand- - - - -	5	1195
Water sand, hole full of water- - - - -	30	1225
Red sand- - - - -	15	1240
Sandy shale- - - - -	30	1270
Water sand, hole full of water- - - - -	5	1275
Sand- - - - -	10	1285
Red rock- - - - -	10	1295
Sandy shale- - - - -	50	1345
Shale- - - - -	50	1395
Red rock- - - - -	325	1720
Brown sand- - - - -	10	1730
Red rock- - - - -	10	1740
White anhydrite- - - - -	5	1745
Red rock- - - - -	25	1770
Anhydrite- - - - -	10	1780
Red rock and salt- - - - -	30	1810
Sandy shale- - - - -	10	1820
Shale and salt- - - - -	25	1845
TOTAL DEPTH- - - - -		4565

<u>Driller's log of well 298</u>		
Standard Potash Co., O. P. Jones No. 1. 23 1/2 miles south of Midland.		
Surface materials- - - - -	2	2
Lime and shells- - - - -	38	40
Gray limestone- - - - -	24	64
Sandy calcareous rock- - - -	13	77
Gray sandstone- - - - -	161	238
Shale- - - - -	94	332
Red and gray sand- - - - -	6	338
Sandy non-calcareous shale -	39	377

(Continued on next page)

Table of Drillers' Logs, Midland County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 298--Continued</u>		
Red and gray sand- - - - -	158	535
Red sand and clay- - - - -	573	1108
Red sand- - - - -	234	1342
Red sandy clay and gray clay	16	1358
Red sandy clay- - - - -	16	1374
Red and gray sandy clay - -	12	1386
Red sand- - - - -	9	1395
Red and gray sandy clay - -	26	1421
Fine-grained sand- - - - -	19	1440
Red and gray clay- - - - -	25	1465
Sand, clay and gypsum - - -	210	1675
Red and gray sand- - - - -	73	1748
Anhydrite- - - - -	6	1754
Red and gray sand and anhydrite- - - - -	25	1779
Anhydrite- - - - -	6	1785
Red sand and salt- - - - -	115	1900
TOTAL DEPTH- - - - -		2111

<u>Driller's log of well 302</u>		
Standard Potash Co., O. P. Jones No. 2. 24 $\frac{1}{2}$ miles southwest of Midland.		
Lime- - - - -	66	66
Limestone and sand- - - - -	34	100
Yellow sand, some limestone	50	150
Water sand, red mud and lime- stone- - - - -	33	183

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 302--Continued</u>		
Red mud- - - - -	316	499
Red and gray shale - - - - -	201	700
Red shale and gray sand- - -	10	710
Red sand and gray shale- - -	30	740
Red and gray shale and lime- stone- - - - -	20	760
Missing- - - - -	40	800
Sandy red shale- - - - -	75	875
Red and gray shale- - - - -	28	903
Clay and sand- - - - -	11	914
Red shale and sand- - - - -	11	925
Red clay and gray shale and sand- - - - -	75	1000
Red shale and red-gray sand-	52	1052
Red sand and red-gray shale-	42	1094
Red and blue shale and sand-	62	1156
Sand and conglomerate- - - -	37	1193
Sandy shale- - - - -	9	1202
Sandy lime- - - - -	13	1215
Red sandy shale- - - - -	10	1225
Red sand - - - - -	73	1298
TOTAL DEPTH- - - - -		2617

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

	Thickness (feet)	Depth (feet)
<u>Well 5</u>		
Hilltop, north side State Highway No. 158, SE ¹ NE ¹ / ₄ sec. 7, blk. 40, T. 1 S., T. & P. R.R. Co. survey. 11 ¹ / ₂ miles west of Midland.		
Red sandy surface materials-	2	2
Red sand and clay-	7	9
Yellow sandy clay-	10	19
Yellow sand-	4	23
Hard caliche-		23
No water sample collected. June 23, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 14</u>		
Flat, north side State Highway No. 158, S ¹ / ₂ SW ¹ / ₄ sec. 22, blk. 40, T. 1 S., T. & P. R.R. Co. survey.		
Brown sandy surface materials	3	3
Yellow sandy clay-	17	20
Hard caliche-	1	21
No water sample collected. June 23, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 15</u>		
Top of ridge, north side State Highway No. 158, S ¹ / ₂ NE ¹ / ₄ sec. 27, blk. 40, T. 1 S., T. & P. R.R. Co. survey. 7 ¹ / ₂ miles west of Midland.		
Red sandy surface materials-	2	2
Yellow sandy clay-	18	20
Hard caliche-	2	22
No water sample collected. June 23, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 18</u>		
Flat, south side county road, NW ¹ NE ¹ / ₄ sec. 18, blk. 39, T. 1 S., T. & P. R.R. Co. survey. 5 miles west of Midland.		
Red sandy surface materials-	4	4
Yellow sandy clay-	13	17
Yellow sand-	2	19
No water sample collected. June 24, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 22</u>		
Edge of draw, east side county road, NW ¹ SW ¹ / ₄ sec. 5, blk. X, H. P. Hilliard survey. 4 ³ / ₄ miles northwest of Midland.		
Brown sandy surface materials	1	1
Red sand-	3	4
Sandy yellow clay and caliche-gravel-	5	9
Sandy yellow clay-	5	14
Gray sandy clay-	6	20
Hard white sandy clay and limy sand-	3	23
No water sample collected. July 24, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 23</u>		
Flat, north side county road, S ¹ SE ¹ / ₄ sec. 4, blk. X, H. P. Hilliard survey. 3 ¹ / ₂ miles northwest of Midland.		
Red sandy surface materials-	2	2
Yellow sandy clay-	21	23
Yellow clay and caliche-	2	25
Hard caliche-		25
No water sample collected. July 23, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 43</u>		
Top of ridge, north side county road, SE ¹ SE ¹ / ₄ sec. 1, blk. X, H. P. Hilliard survey. 3 ¹ / ₂ miles north of Midland.		
Brown sandy surface materials	1	1
Red sand-	7	8
Yellow sand and white clay-	1	9
Yellow sand-	2	11
Reddish-yellow sand and clay	9	20
White sandy clay and caliche	5	25
No water sample collected. July 22, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 46</u>		
Flat, east side county road, S ¹ NE ¹ / ₄ sec. 16, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 6 miles north of Midland.		
Brown sandy surface materials	2	2
Red sandy clay-	2	4
Hard caliche-	1	5
No water sample collected. July 29, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 49</u>		
Gentle slope, east side county road, SW ¹ SE ¹ / ₄ sec. 28, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 4 ¹ / ₂ miles northeast of Midland.		
Brown sandy surface materials	2	2
Red sand-	3	5
Yellow sandy clay and some caliche gravel-	14	19
White sandy clay-	7	26
Yellow sand, some clay-	3	29
No water sample collected. July 21, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 51</u>		
Gentle slope, west side county road, NE ¹ NE ¹ / ₄ sec. 31, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 3 ¹ / ₂ miles northeast of Midland.		
Brown sandy surface materials	1	1
Red sand and clay-	8	9
Yellow sand with limy streaks	2	11
Light-colored red sand-	4	15
Yellow sand clay with caliche pebbles-	7	22
No water sample collected. July 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 52</u>		
Flat, east side county road, N ¹ / ₄ SW ¹ / ₄ sec. 30, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 3 miles northeast of Midland.		
Brown sandy surface materials	2	2
Yellow sandy clay- - - - -	7	9
Yellow limy sand and clay		
with caliche pebbles- - -	9	18
Buff-colored sand- - - - -	1	19
Yellow sandy clay and		
caliche pebbles- - - - -	8	27
No water sample collected. July 31, 1937		

	Thickness (feet)	Depth (feet)
<u>Well 59</u>		
Top of low hill, west side county road, NE ¹ / ₄ SE ¹ / ₄ sec. 44, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 3 ¹ / ₂ miles east of Midland.		
Brown sandy surface materials	2	2
Yellow sandy clay- - - - -	3	5
Yellow sandy clay and		
caliche- - - - -	5	10
No water sample collected. June 7, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 62</u>		
Bottom of draw, east side county road, NW ¹ / ₄ SW ¹ / ₄ sec. 4, blk. 38, T. 2 S., T. & P. R.R. Co. survey. 4 miles east of Midland.		
Brown sandy surface materials	1	1
Brown clay- - - - -	2	3
Yellow sandy clay- - - - -	1	4
White limy sand and caliche		
gravel- - - - -	4	8
No water sample collected. June 14, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 71</u>		
Bottom of draw, west side county road, SE ¹ / ₄ NE ¹ / ₄ sec. 9, blk. 38, T. 2 S., T. & P. R.R. Co. survey. 5 miles east of Midland.		
Brown sandy surface materials	2	2
Gray limy sand and caliche		
gravel- - - - -	10	12
White sandy clay and caliche		
gravel- - - - -	5	17
No water sample collected. July 12, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 72</u>		
Top of hill, north side county road, SW ¹ / ₄ SE ¹ / ₄ sec. 9, blk. 38, T. 2 S., T. & P. R.R. Co. survey. 5 miles east of Midland.		
Brown sandy surface materials	2	2
Red sand- - - - -	5	7
Gray sandy clay- - - - -	6	13
Red sandy clay- - - - -	7	20
Yellow sandy clay and caliche		
gravel- - - - -	14	34
Hard caliche- - - - -		34
No water sample collected. July 13, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 73</u>		
Top of ridge near draw, east side county road, SE ¹ / ₄ SE ¹ / ₄ sec. 10, blk. 38, T. 2 S., T. & P. R.R. Co. survey. 6 miles east of Midland.		
Brown sandy surface materials	1	1
Red sand- - - - -	2	3
Light-red sand- - - - -	9	12
Yellow sandy clay- - - - -	5	17
No water sample collected. July 15, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 74</u>		
Gentle slope, east side county road, SW ¹ / ₄ NW ¹ / ₄ sec. 2, blk. 38, T. 2 S., T. & P. R.R. Co. survey. 6 miles east of Midland.		
Brown sandy surface materials	4	4
Red sand- - - - -	2	6
Red sandy clay with streaks		
of yellow clay- - - - -	3	9
Hard, yellow, sandy clay - -	5	14
Soft limy sand and caliche		
gravel- - - - -	7	21
Hard caliche- - - - -		21
No water sample collected. July 5, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 76</u>		
Gentle slope, east side county road, SW ¹ / ₄ SW ¹ / ₄ sec. 38, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 5 ¹ / ₂ miles east of Midland.		
Brown sandy surface materials	3	3
Gray sandy clay- - - - -	1	4
Yellow sandy clay- - - - -	8	12
Hard caliche- - - - -	1	13
No water sample collected. June 5, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 77</u>		
Side of hill, west side county road, SE ¹ / ₄ SE ¹ / ₄ sec. 34, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 5 ¹ / ₂ miles northeast of Midland.		
Brown sandy surface materials	1	1
Red sand and clay- - - - -	3	4
Yellow clay- - - - -	3	7
Yellow sandy clay- - - - -	3	10
Red sandy clay- - - - -	14	24
No water sample collected. June 4, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 79</u>		
Flat, east side county road, NW ¹ / ₄ SW ¹ / ₄ sec. 34, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 5 miles northeast of Midland.		
Brown sandy surface materials	1	1
Red sandy clay- - - - -	6	7
Light-red sand and caliche		
pebbles- - - - -	2	9
Yellow sandy clay- - - - -	13	22
No water sample collected. Aug. 2, 1937.		

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

	Thickness (feet)	Depth (feet)
<u>Well 84</u>		
Gentle slope, east side county road, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 26, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 6 miles northeast of Midland.		
Brown sandy surface materials	1	1
Brown clay-	2	3
Yellow sandy clay-	3	6
Brown sandy clay-	9	15
Hard caliche-		15
No water sample collected. June 22, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 85</u>		
Flat, east side county road, N $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 6 miles northeast of Midland.		
Brown sandy surface materials	2	2
Yellow clay and caliche-	9	11
Hard caliche-	2	13
No water sample collected. June 22, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 87</u>		
Flat, east side county road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 37, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 6 $\frac{1}{2}$ miles northeast of Midland.		
Brown sandy surface materials	2	2
Yellow sandy clay-	8	10
Yellow clay and caliche pebbles-	10	20
No water sample collected. June 3, 1937		

	Thickness (feet)	Depth (feet)
<u>Well 91</u>		
Top of ridge, west side county road, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 37, blk. 38, T. 1 S., T. & P. R.R. Co. survey. 7 $\frac{1}{2}$ miles east of Midland.		
Red sandy surface materials-	3	3
Red sandy clay-	5	8
Yellow sandy clay-	8	16
Yellow clay-	5	21
No water sample collected. July 19, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 93</u>		
Gentle slope, east side county road, southwest corner J. M. King survey No. 49, 8 miles east of Midland.		
Red sandy surface materials-	2	2
Light-red sand-	5	7
Yellow sandy clay-	3	10
White sandy clay-	8	18
Yellow sandy clay-	3	21
Hard caliche-		21
No water sample collected. July 14, 1937		

	Thickness (feet)	Depth (feet)
<u>Well 100</u>		
Flat, west side county road, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, blk. 37, T. 1 S., T. & P. R.R. Co. survey. 9 $\frac{1}{2}$ miles east of Midland.		
Sandy surface materials-	3	3
Red sandy clay-	6	9
Yellow clay-	3	12
Hard caliche-		12
No water sample collected. June 1, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 114</u>		
Gentle slope, east side county road, N $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 15 $\frac{1}{2}$ miles east of Midland.		
Red sandy surface materials	6	6
Sandy light-brown clayey loam-	5	11
Sandy, limy, light-colored yellow clay and caliche pebbles-	2	13
White lime with trace of sand and clay-	5	18
Limy, clayey, light-colored brown sand-	16	34
No water sample collected. May 3, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 115</u>		
Top of sandy ridge, east side county road, N $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 15 miles east of Midland.		
Red sandy surface materials	3	3
Light-red sand with trace of clay-	12	15
Light-red sand with trace of lime and caliche pebbles-	7	22
Sandy limy white clay and caliche pebbles-	6	28
No water sample collected. Apr. 24, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 117</u>		
Gently rolling flat, east side county road, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 15 miles east of Midland.		
Brown sandy surface materials	1	1
Sandy red clay-	1	2
Limy gray sand with caliche pebbles-	2	4
Sandy light tan limy clay with caliche gravel and small boulders-	6	10
No water sample collected. Apr. 23, 1937.		

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

	Thickness (feet)	Depth (feet)
<u>Well 119</u>		
Top of sandy hill, east side county road, SW ¹ / ₄ -SW ¹ / ₄ sec. 5, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 15 miles east of Midland.		
Sandy brown surface materials	2	2
Sandy red clay- - - - -	5	7
Limy clayey light-brown sand	11	18
Hard sandy clayey gray lime-	9	27
No water sample collected. Apr. 16, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 122</u>		
Side sandy ridge, south side county road, NW ¹ / ₄ -NW ¹ / ₄ sec. 5, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 14 ¹ / ₂ miles east of Midland.		
Sandy red surface materials-	5	5
Limy white sand- - - - -	2	7
Limy light-gray sand- - - -	20	27
No water sample collect d. May 10, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 128</u>		
Bottom of large draw, east side county road, NW ¹ / ₄ -NW ¹ / ₄ sec. 2, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 17 ¹ / ₂ miles east of Midland.		
Sandy dark-gray clay- - - -	3	3
Sandy, limy gray clay- - - -	6	9
Clayey sandy white lime with gravel and small lime boulders- - - - -	7	16
No water sample collected. Mar. 23, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 136</u>		
Flat, north side county road, SE ¹ / ₄ -SE ¹ / ₄ sec. 29, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 16 ¹ / ₂ miles east of Midland.		
Clayey light-brown sand- - -	4	4
Clayey light-yellow limy sand	1	5
Sandy, limy white clay- - -	5	10
Sandy, limy light-brown clay	9	19
Caliche rock- - - - -	1	20
No water sample collected. Apr. 15, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 139</u>		
Gently rolling, east side county road, SW ¹ / ₄ -SW ¹ / ₄ sec. 29, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 16 miles east of Midland.		
Sandy light-red clay, lower part with considerable clay- - - - -	5	5
Limy, sandy yellow clay- - -	5	10
Limy sandy light-gray clay- -	4	14
Limy light-brown clayey sand-	3	17
Hard caliche- - - - -		17
No water sample collected. May 3, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 142</u>		
Bottom of Midland Draw, north side county road, SE ¹ / ₄ -SE ¹ / ₄ sec. 31, blk. 36, T. 2 S., T. & P. R.R. survey. 16 miles east of Midland.		
Brown sandy clay- - - - -	3	3
Light-brown sandy clay- - -	4	7
Gray, sandy clayey lime with mixed small gravel- - - - -	3	10
Gray limy sand with small gravel- - - - -	-10	20
Hard caliche rock- - - - -	1	21
Struck water at 12 feet.		
Water level, 11.8 feet below top of ground, 24 hours after hole completed.		
Water sample collected. Apr. 26, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 144</u>		
Level, north side county road, SE ¹ / ₄ -SE ¹ / ₄ sec. 32, blk. 36, T. 2 S., T. & P. R.R. Co. survey. 17 miles east of Midland.		
Reddish-brown sandy clay- - -	3	3
Hard white sandy lime with caliche pebbles- - - - -	-14	17
Hard caliche- - - - -		17
No water sample collected. May 4, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 160</u>		
Slope near salt lake, south side county road, NE ¹ / ₄ -NW ¹ / ₄ sec. 8, blk. 38, T. 3 S., T. & P. R.R. Co. survey. 10 ¹ / ₂ miles southeast of Midland.		
Brown sandy surface materials	2	2
Brown sandy clay- - - - -	4	6
Yellow sandy clay- - - - -	2	8
White clay with caliche gravel- - - - -	2	10
Yellow sandy clay- - - - -	3	13
Hard caliche- - - - -	1	14
No water sample collected. June 15, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 162</u>		
Side of hill, east side county road, SW ¹ / ₄ -NW ¹ / ₄ sec. 35, blk. 38, T. 2 S., T. & P. R.R. Co. survey. 8 miles southeast of Midland.		
Brown sandy clay- - - - -	4	4
Yellow sand- - - - -	3	7
Yellow sandy clay- - - - -	-10	17
No water sample collect d. June 9, 1937.		

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

	Thickness (feet)	Depth (feet)
<u>Well 163</u>		
Top of hill, southwest corner sec. 25, blk. 38, T. 2 S., T. & P. R.R. Co. survey. 8 miles southeast of Midland.		
Brown sandy surface materials	1	1
Red sand- - - - -	5	6
Yellow sandy clay- - - - -	7	13
Yellow clay- - - - -	2	15
Yellow sandy clay- - - - -	5	20
No water sample collected: June 8, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 167</u>		
Top of ridge, north side county road, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, blk. 38, T. 2 S., T. & P. R.R. Co. survey. 5 miles southeast of Midland.		
Brown sandy clay- - - - -	1	1
Red sand- - - - -	2	3
Yellow sandy clay- - - - -	11	14
Caliche gravel and yellow sandy clay- - - - -	5	19
Limy sandy clay- - - - -	5	24
No water sample collected. July 2, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 169</u>		
Top of ridge, north side county road, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, blk. 39, T. 2 S., T. & P. R.R. Co. survey. 3 $\frac{3}{4}$ miles southeast of Midland.		
Brown sandy surface materials	2	2
Red sand- - - - -	4	6
Yellow sandy clay and caliche gravel- - - - -	1	7
Red sand and caliche gravel- - - - -	3	10
Yellow sandy clay- - - - -	11	21
Yellow sand and caliche gravel- - - - -	10	31
Yellow sandy clay- - - - -	4	35
No water sample collected. June 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 170</u>		
Side of low hill, north side county road, SE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 14, blk. 39, T. 2S, T. & P. R.R. Co. survey. 3 $\frac{3}{4}$ miles south of Midland.		
Brown sandy surface materials	3	3
Yellow sandy clay and caliche gravel- - - - -	10	13
No water sample collected. June 30, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 172</u>		
Flat, north side county road, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, blk. 39, T. 2 S., T. & P. R.R. Co. survey. 4 $\frac{3}{4}$ miles south of Midland.		
Brown sandy surface materials	2	2
Light-red sand- - - - -	2	4
Yellow sandy clay- - - - -	16	20
No water sample collected. July 16, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 174</u>		
Gentle slope, north side county road, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, blk. 39, T. 2 S., T. & P. R.R. Co. survey. 7 miles southeast of Midland.		
Red sandy clay- - - - -	7	7
Yellow sand- - - - -	7	14
Hard yellow sandy clay and caliche gravel- - - - -	11	25
Hard caliche- - - - -	-	25
No water sample collected. June 29, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 178</u>		
Gentle slope, east side county road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 47, blk. 39, T. 2 S., T. & P. R.R. Co. survey. 8 miles south of Midland.		
Brown sandy surface materials	2	2
Red sandy clay- - - - -	3	5
Yellow sandy clay- - - - -	12	17
Hard caliche- - - - -	-	17
No water sample collected. June 29, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 185</u>		
Top of ridge, south side county road, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, blk. 39, T. 2 S., T. & P. R.R. Co. survey. 6 miles south of Midland.		
Brown sandy clay- - - - -	2	2
Red sand- - - - -	4	6
Red and yellow clay and caliche gravel- - - - -	10	16
Red sandy clay- - - - -	13	29
No water sample collected. June 28, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 187</u>		
Top of ridge, west side county road, NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, blk. 39, T. 2 S., T. & P. R.R. Co. survey. 6 miles south of Midland.		
Brown sandy surface materials	1	1
Red sand- - - - -	7	8
Yellow sandy clay- - - - -	15	23
Limy sand and caliche gravel- - - - -	5	28
No water sample collected. June 28, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 188</u>		
Top of ridge, west side county road, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, blk. 39, T. 2 S., T. & P. R.R. Co. survey. 5 $\frac{1}{2}$ miles south of Midland.		
Red sandy surface materials-	2	2
Red sand, clay- - - - -	10	12
Yellow sandy clay with caliche gravel- - - - -	16	28
No water sample collected. June 26, 1937.		

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

	Thickness (feet)	Depth (feet)
<u>Well 190</u>		
Gentle slope, west side county road, NE $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 17, blk. 39, T. 2 S., T. & P. R. R. Co. survey, 4 $\frac{1}{2}$ miles south of Midland.		
Brown sandy surface materials	1	1
Red sandy clay- - - - -	4	5
Yellow sandy clay - - - - -	17	22
No water sample collected. June 26, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 191</u>		
Gentle slope, east side county road, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, blk. 39, T. 2 S., T. & P. R. R. Co. survey, 4 miles south of Midland.		
Brown sandy surface materials- - - - -	1	1
Fine-grained red sand- - - - -	1	2
Yellow sandy clay- - - - -	11	13
Yellow sandy clay and caliche gravel - - - - -	1	14
Yellow sandy clay, increase in sand- - - - -	10	24
Rock- - - - -		24
No water sample collected. July 10, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 193</u>		
Side of hill, west side county road, SE $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 9, blk. 39, T. 2 S., T. & P. R. R. Co. survey, 2 $\frac{1}{2}$ miles south of Midland.		
Yellow sand- - - - -	1	1
Yellow sandy clay- - - - -	11	12
Hard caliche - - - - -		12
No water sample collected. July 2, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 204</u>		
Gentle slope, west side county road, NE $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 44, blk. 37, 11 $\frac{1}{2}$ miles southwest of Midland.		
Brown sandy surface materials- - - - -	3	3
Light-red sandy clay - - -	3	6
Yellow sandy clay- - - - -	14	20
Limy sand and caliche gravel- - - - -	8	28
Hard caliche- - - - -		28
No water sample collected. July 9, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 239</u>		
Bottom of draw near salt lake, west side county road, SE $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 12, blk. 38, T. 3 S., T. & P. R. R. Co. survey, 11 $\frac{1}{2}$ miles southeast of Midland.		
Gray sandy surface materials- - - - -	3	3
Yellow sandy clay- - - - -	8	11
Red and gray sandy clay- - -	8	19
Hard red sandy clay- - - - -	1	20
No water sample collected. June 10, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 242</u>		
Bottom of draw, west side county road, NE $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 34, blk. 38, T. 3 S., T. & P. R. R. Co. survey, 16 miles southeast of Midland.		
Brown sandy surface materials - - - - -	2	2
Brown sandy clay- - - - -	3	5
Yellow sandy clay - - - - -	9	14
Yellow sand - - - - -	6	20
Gray sandy clay mixed with gravel at bottom- - - - -	4	24
Yellow sand and gravel- - -	1	25
Red clay- - - - -	1	26
Struck water at 8 feet.		
Water level, 8.3 feet below top of ground, 1 hour after hole completed.		
Water sample collected. June 11, 1937.		

Partial analyses of water from wells in Midland 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. Davidsen, 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 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)
1	A.G. Bohanan	41	June 23, 1937	1,324	-	-	-	214	524	260	-
2	R.W. Aycock	114	do.	703	-	-	-	262	203	128	-
3	Midland Farms Co.	112	do.	-	-	-	-	-	740	400	-
4	do.	50	do.	1,690	-	-	-	195	583	450	-
6	R.W. Aycock	65	do.	-	-	-	-	-	756	180	-
7	A. Kloh et al.	75	July 22, 1937	274	-	-	-	238	29	24	-
8	C. Scharbauer	90	do.	311	76	9	31	244	37	38	225
9	A. Kloh et al.	89	do.	343	-	-	-	232	44	58	-
10	C. Scharbauer	61	do.	334	86	9	29	256	44	40	250
11	do.	75	June 24, 1937	-	-	-	-	-	59	64	-
12	do.	62	July 23, 1937	457	-	-	-	317	66	66	-
13	Midland Farms Co.	60	do.	648	-	-	-	232	147	160	-
16	C. Scharbauer	76	June 24, 1937	-	-	-	-	-	209	145	-
19	Mrs. M.J. Dawson	62	July 2, 1937	2,474	230	140	396	85	1,056	580	1,151
21	B.L. Moss	61	July 23, 1937	2,717	254	137	469	207	1,155	600	1,200
24	-- Whilman	62	July 24, 1937	5,885	510	291	1,147	195	1,961	1,860	2,469
26	-- Basham	59	July 23, 1937	-	-	-	-	-	33	40	-
28	Midland Farms Co.	74	July 27, 1937	-	-	-	-	-	63	56	-
29	G. Bowman	74	July 23, 1937	324	-	-	-	232	33	56	-
33	Midland Fairground	79	July 2, 1937	636	-	-	-	195	78	234	-
41	Midland Cemetery	62	do.	789	-	-	-	281	185	190	-
42	Mrs. Frank Haag	109	June 24, 1937	819	-	-	-	214	284	155	-
44	S.B. Wimberly	114	July 24, 1937	743	142	22	93	201	177	210	444
45	J.E. Mabee	79	July 23, 1937	378	95	12	34	317	33	48	288
47	Carstairs & Madden	72	July 2, 1937	602	-	-	-	317	89	138	-
48	J.F. Tucker	72	July 24, 1937	478	86	10	79	256	87	90	256
53	Joe Youngblood	36	June 1, 1937	-	-	-	-	-	834	290	-
54	T. & P. Ry. Co.	20	June 5, 1937	1,676	-	-	-	195	772	270	-
56	E. Bailey	40	June 1, 1937	771	-	-	-	287	185	175	-
65	City of Midland	122	July 14, 1937	-	-	-	-	-	660	340	-
69	do.	107	June 30, 1937	-	-	-	-	-	371	225	-

Partial analyses of water from wells in Midland 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)
75	J.W. Andrews	95	June 30, 1937	-	-	-	-	-	71	80	-
80	F.F. Elkins	85	July 24, 1937	-	-	-	-	-	118	100	-
81	do.	74	do.	725	-	-	-	256	165	180	-
82	do.	85	do.	710	-	-	-	256	165	170	-
83	Emm Bulsterbaum	61	do.	557	113	13	72	262	104	126	338
86	J.C. Perryman	50	June 5, 1937	-	-	-	-	-	342	280	-
88	W.E. Jackson	60	June 1, 1937	698	-	-	-	238	145	190	-
89	do.	69	do.	-	-	-	-	-	98	94	-
90	A.M. Klapproth	59	June 30, 1937	430	-	-	-	244	74	80	-
92	Ben Golladay	64	do.	683	-	-	-	256	130	185	-
94	Prairie Lee School	59	Apr. 29, 1937	537	-	-	-	226	116	120	-
95	Johnson & Glass	59	June 30, 1937	445	-	-	-	165	86	122	-
96	W.E. Jackson	61	June 1, 1937	708	-	-	-	256	138	200	-
97	Jackson & Co.	57	Apr. 30, 1937	1,001	-	-	-	299	203	300	-
98	State Highway Dept.	58	June 30, 1937	1,488	-	-	-	244	93	100	-
99	J.R. Gault	65	May 4, 1937	1,040	-	-	-	232	225	340	-
101	W.V. Jones	62	do.	685	-	-	-	287	128	172	-
102	Ben Whitefield	40	do.	506	-	-	-	268	94	98	-
103	J.H. Lay	55	do.	521	-	-	-	262	86	118	-
104	Prairie Lee Church	69	Apr. 29, 1937	1,150	-	-	-	281	345	276	-
105	Andy Faskin	68	June 29, 1937	-	-	-	-	-	307	200	-
107	Mrs. O.P. Buchanan	35	July 31, 1937	1,182	-	-	-	360	433	175	-
108	do.	54	do.	2,109	-	-	-	250	858	440	-
109	Andy Faskin	103	June 30, 1937	-	-	-	-	-	334	355	-
110	W.C. Westfall	85	May 4, 1937	945	-	-	-	262	175	314	-
111	S. Casper	70	Apr. 30, 1937	951	-	-	-	293	237	240	-
112	J.C. Brooks	67	Apr. 29, 1937	1,161	-	-	-	268	289	340	-
116	J.V. Stokes	70	Apr. 30, 1937	629	-	-	-	311	158	96	-
118	S.D. Stokes	61	May 4, 1937	1,064	-	-	-	311	357	194	-
120	I.C. Graham	59	do.	421	-	-	-	336	41	56	-
121	do.	71	do.	2,057	-	-	-	817	383	540	-
123	E.E. Eiland	65	Apr. 30, 1937	1,691	-	-	-	183	357	662	-
124	Stokes School	44	Apr. 29, 1937	2,715	343	182	351	207	667	1,070	1,608
125	L.L. Chapman	45	May 4, 1937	531	-	-	-	293	113	84	-
126	-- Houston Est.	46	do.	1,244	-	-	-	293	349	326	-

Partial analyses of water from wells in Midland 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)
127	W.H. Wise	26	Jan. 1, 1937	1,386	104	71	290	354	438	310	549
129	Mrs. H.O. Cain	58	Jan. 27, 1937	628	-	-	-	281	137	130	-
130	M.H. Fisher	66	Apr. 15, 1937	808	-	-	-	262	255	148	-
131	do.	64	do.	1,051	-	-	-	299	342	206	-
132	Milt Yater	81	do.	736	-	-	-	281	207	136	-
133	R.D. Blalock	53	Jan. 28, 1937	1,686	137	124	270	281	607	410	852
134	S.C. Baze	56	Apr. 15, 1937	2,409	181	124	473	238	920	594	962
135	M.H. Fisher	49	Jan. 28, 1937	3,092	254	140	614	378	1,198	700	1,211
137	do.	57	Apr. 15, 1937	2,400	-	-	-	342	811	618	-
138	McClintic Bros.	48	do.	5,019	-	-	-	244	1,614	1,620	-
140	McClintic School	50	do.	1,198	-	-	-	275	394	265	-
141	U.D. Vulfjen	45	Apr. 29, 1937	1,694	-	-	-	262	737	300	-
142	W.P.A. test well	21	Apr. 26, 1937	5,989	396	275	1,202	390	3,034	890	2,120
143	K.S. Boone	21	Apr. 29, 1937	5,507	-	-	-	337	2,665	900	-
145	McClintic Bros.	49	Mar. 12, 1937	5,678	-	-	-	262	2,863	900	-
146	Annie S. Boone	52	Mar. 24, 1937	2,711	246	157	431	372	1,344	350	1,260
147	do.	15	do.	4,761	433	328	655	256	2,419	800	2,433
148	do.	29	do.	4,399	-	-	-	494	1,759	960	-
149	do.	58	do.	6,005	417	300	1,267	305	2,461	1,410	2,276
150	B.W. Floyd	41	do.	5,301	-	-	-	451	1,891	1,440	-
151	do.	51	June 8, 1937	509	-	-	-	317	114	56	-
152	do.	41	Apr. 29, 1937	1,157	-	-	-	366	392	205	-
153	do.	45	do.	1,421	-	-	-	403	342	388	-
154	Leonard Leech	46	do.	555	-	-	-	293	116	96	-
155	M.E. Turner	69	June 29, 1937	616	-	-	-	281	138	122	-
156	W.H. Abbot	50	do.	527	-	-	-	342	a/	158	-
157	-- Donovan Est.	85	July 14, 1937	1,107	145	51	178	305	308	275	572
158	do.	53	June 29, 1937	3,639	-	-	-	73	2,057	425	-
161	J.W. Allen	68	do.	767	-	-	-	122	200	245	-
165	Midland National Bank	31	do.	1,883	-	-	-	171	612	560	-
168	Ruth Dowlin	91	June 30, 1937	547	-	-	-	244	130	104	-
171	Mrs. A. Revburn	87	June 26, 1937	-	-	-	-	-	78	90	-
173	Ruth Dowlin	80	July 2, 1937	318	50	24	28	195	60	60	225

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Midland 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)
175	Mrs. Sally Blanton	65	June 28, 1937	-	-	-	-	-	772	535	-
176	do.	31	do.	7,676	-	-	-	214	3,208	1,890	-
180	-- Robinson	83	June 26, 1937	1,398	130	81	396	256	905	260	660
181	C. Scharbauer	35	Aug. 2, 1937	2,838	423	126	282	232	1,555	190	1,578
182	do.	85	do.	489	74	26	68	268	103	72	291
183	-- Parks Estate	36	July 31, 1937	2,870	332	144	487	250	654	1,130	1,419
184	-- Wilson	40	do.	3,528	364	186	605	268	937	1,220	1,675
186	Cotton Flat School	43	June 26, 1937	-	-	-	-	-	590	305	-
189	Bob Hill	84	June 2, 1937	456	-	-	-	305	86	54	-
192	Finch Murphy	58	June 26, 1937	-	-	-	-	-	110	92	-
194	O. Phillips	58	Aug. 2, 1937	653	-	-	-	256	149	143	-
195	Harry Tolbert	78	June 7, 1937	390	-	-	-	232	95	42	-
197	T.W. Embry	80	do.	473	-	-	-	232	118	74	-
198	Mrs. T.B. Roberts	90	do.	858	-	-	-	342	154	230	-
199	C. Scharbauer	94	June 5, 1937	363	-	-	-	250	75	34	-
200	do.	89	July 5, 1937	-	-	-	-	-	74	44	-
201	do.	104	do.	-	-	-	-	-	41	56	-
202	do.	75	Aug. 2, 1937	692	-	-	-	287	201	110	-
203	J.F. Haley	31	June 26, 1937	-	-	-	-	128	964	1,020	-
205	J.C. Loper	74	do.	3,066	-	-	-	-	138	170	-
207	T.J. Miles	46	July 7, 1937	-	-	-	-	-	474	190	-
208	B.M. McKandless	46	do.	1,160	156	49	182	110	319	400	590
209	C. Scharbauer	56	do.	-	-	-	-	-	104	88	-
210	do.	29	July 5, 1937	-	-	-	-	-	45	58	-
211	do.	44	do.	794	-	-	-	317	222	140	-
212	M.T. Walker	99	June 4, 1937	-	-	-	-	-	79	36	-
213	M.O. Prestridge	72	do.	-	-	-	-	-	173	46	-
214	J.E. Feeler	76	do.	664	-	-	-	183	236	115	-
215	C. Scharbauer	70	July 22, 1937	593	-	-	-	305	125	106	-
216	S.A. Wilmon	53	June 22, 1937	-	-	-	-	-	59	28	-
217	C. Scharbauer	40	July 9, 1937	410	-	-	-	220	74	80	-
219	H.S. Foster	59	June 5, 1937	-	-	-	-	-	169	70	-
221	do.	89	Aug. 3, 1937	399	-	-	-	268	71	50	-
223	E. Smith	34	June 5, 1937	-	-	-	-	-	181	88	-
226	Ray Parks	92	July 7, 1937	-	-	-	-	-	133	120	-

Partial analyses of water from wells in Midland 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)
227	Hammitt Est.	41	July 7, 1937	2,481	374	97	274	220	1,482	146	1,335
228	Dora Roberts	89	July 9, 1937	-	-	-	-	-	482	170	-
229	do.	84	do.	-	-	-	-	-	356	100	-
231	Smith & Robinson	58	June 26, 1937	-	-	-	-	-	3,208	2,050	-
232	Ray Parks	145	July 9, 1937	442	-	-	-	250	108	54	-
233	John Windham	200	July 16, 1937	-	-	-	-	-	352	98	-
234	C. Scharbauer	48	Aug. 2, 1937	348	-	-	-	268	59	28	-
235	do.	158	do.	1,531	156	63	280	207	645	295	649
236	Wilson Bryant	134	June 28, 1937	-	-	-	-	-	724	190	-
237	do.	40	do.	-	-	-	-	-	672	240	-
240	Byron Robinson	56	July 15, 1937	854	-	-	-	268	286	146	-
241	do.	24	June 8, 1937	2,884	-	-	-	342	1,319	470	-
242	W.P.A. test well	26	June 11, 1937	7,072	-	-	-	159	3,444	1,300	-
243	D.L. Hutt	92	June 8, 1937	908	-	-	-	323	217	215	-
244	do.	82	July 13, 1937	726	88	22	105	232	197	100	309
245	do.	58	July 14, 1937	-	-	-	-	-	136	66	-
246	do.	104	July 13, 1937	563	-	-	-	232	230	30	-
247	do.	128	do.	383	64	6	80	293	19	70	184
249	do.	174	do.	349	-	-	-	220	93	24	-
250	do.	65	do.	617	-	-	-	195	252	64	-
252	do.	104	July 14, 1937	512	107	21	52	275	99	98	353
253	do.	56	do.	560	-	-	-	256	132	104	-
254	A. Judkins	45	Mar. 31, 1937	802	88	49	125	238	269	154	420
255	W.A. Hutchinson	48	do.	753	103	35	125	323	157	174	402
256	do.	31	Mar. 30, 1937	3,515	498	173	385	378	1,958	315	1,956
257	J.W. Driver	90	do.	862	168	32	71	226	430	50	550
258	do.	84	do.	1,199	222	46	102	226	630	88	744
259	W.M. Shrock	37	do.	1,704	366	55	92	281	983	60	1,139
260	do.	128	do.	506	92	23	62	305	119	60	324
261	W.W. Boles	107	Apr. 9, 1937	905	-	-	-	256	398	84	-
263	T.O. Midkiff	127	June 11, 1937	-	-	-	-	-	138	92	-
264	do.	118	June 8, 1937	398	-	-	-	79	158	70	-
265	do.	122	June 11, 1937	-	-	-	-	-	28	15	-
267	S.R. Preston	82	June 10, 1937	641	-	-	-	281	213	70	-
268	T.O. Midkiff	146	June 11, 1937	-	-	-	-	-	110	26	-

Partial analyses of water from wells in Midland 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)
269	T.O. Midkiff	36	June 15, 1937	-	-	-	-	-	40	28	-
270	S.R. Preston	156	June 10, 1937	741	-	-	-	189	374	36	-
271	do.	142	June do.	312	-	-	-	244	55	22	-
272	D.L. Hutt	175	July 13, 1937	1,131	151	62	115	79	704	60	633
273	Midkiff Bros.	168	June 15, 1937	-	-	-	-	-	449	42	-
274	do.	165	do.	534	100	24	35	73	307	32	350
275	J.R. Simpson Est.	139	June 28, 1937	808	-	-	-	85	472	44	-
276	Midkiff Bros.	162	June 15, 1937	-	-	-	-	-	177	23	-
277	do.	126	do.	-	-	-	-	-	366	142	-
278	A. Kloh et al.	54	June 28, 1937	1,170	-	-	-	61	720	64	-
279	Joe Youngblood	76	do.	1,362	-	-	-	24	870	70	-
280	Bill Van Huss	39	do.	2,834	-	-	-	329	1,633	160	-
281	A.C. Francis	55	July 30, 1937	-	-	-	-	-	268	82	-
282	do.	69	do.	1,030	229	29	62	226	551	48	693
283	A.C. Francis	39	do.	956	-	-	-	214	472	56	-
284	do.	109	do.	586	-	-	-	201	240	52	-
285	do.	122	do.	606	111	21	69	238	240	48	363
286	A. Kloh et al.	70	do.	632	-	-	-	238	260	44	-
287	John Windham	129	July 16, 1937	377	-	-	-	244	92	30	-
288	do.	84	do.	831	-	-	-	342	323	60	-
290	G.L. Dupree	138	July 29, 1937	977	251	21	38	250	480	64	713
292	John Windham	156	July 16, 1937	761	172	24	43	195	374	52	530
293	do.	106	do.	-	-	-	-	-	130	44	-
294	Ray Parks	144	do.	675	-	-	-	214	293	54	-
295	do.	166	do.	697	-	-	-	220	304	56	-
297	O.P. Jones Est.	156	July 29, 1937	457	-	-	-	220	158	34	-
300	do.	122	do.	176	49	2	9	98	64	4	132
301	do.	162	do.	1,582	348	47	80	207	945	60	1,064

Partial analyses of water from wells in Midland County--Continued.

Nitrate determinations by E. W. Lohr, Chemist, U. S. Geological Survey. Limiting nitrate tests by H. T. Davidson. Results are in parts per million. Nitrate not determined on wells not listed here.

Well No.	Nitrate NO ₃	Well No.	Nitrate NO ₃	Well No.	Nitrate NO ₃	Well No.	Nitrate NO ₃	Well No.	Nitrate NO ₃	Well No.	Nitrate NO ₃
1	a/	45	a/	141	a/	205	a/	245	50	281	a/
2	a/	48	a/	151	a/	208	a/	247	a/	282	a/
3	a/	53	a/	152	30	209	a/	252	a/	283	a/
4	a/	54	a/	155	39	212	a/	253	a/	284	a/
6	40	56	a/	157	a/	213	a/	263	128	285	a/
7	a/	65	a/	171	a/	214	a/	264	a/	286	a/
8	a/	75	a/	173	a/	215	a/	265	a/	287	a/
9	a/	80	a/	180	a/	216	a/	267	a/	288	a/
10	a/	81	a/	181	140	219	a/	268	a/	290	a/
11	a/	82	a/	183	21	221	a/	269	a/	292	a/
12	a/	83	a/	184	84	227	a/	270	a/	293	a/
13	a/	86	a/	186	a/	231	50	271	a/	294	a/
16	a/	88	22	189	a/	233	a/	272	a/	295	a/
19	a/	89	a/	192	a/	234	a/	273	a/	297	a/
21	a/	96	a/	194	40	235	a/	274	a/	300	a/
24	60	105	a/	195	a/	236	a/	275	a/	301	a/
26	a/	107	24	197	a/	237	a/	276	a/		
28	a/	108	a/	198	28	240	a/	277	48		
29	a/	110	a/	199	a/	241	a/	278	a/		
42	a/	130	a/	202	a/	242	24	279	a/		
44	a/	137	a/	203	a/	243	a/	280	a/		

a/ Nitrate less than 20 parts per million.

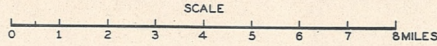
MAP OF MIDLAND COUNTY, TEXAS

SHOWING LOCATIONS OF WATER WELLS LISTED

FIELD WORK BY
 JOE W. LANG
 PROJECT SUPERINTENDENT
 W. P. A. PROJECT 6504-5316

BASE COMPILED FROM
 LAND OWNERSHIP 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
 - SINK
 - IMPROVED ROAD
 - - - UNIMPROVED ROAD

