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OLDHAM COUNTY, TEXAS

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

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Works Progress Administration Project 6017-5674 and Texas Board of Water Engineers in cooperation with Geological Survey, United States Department of the Interior
by C. R. Follett, G. H. Shafer and W. L. Broadhurst

* * *

Analyses made, and report mimeographed by
WORKS PROGRESS ADMINISTRATION
Project 10443

* * *

Prepared in cooperation with the United States Department of the Interior, Geological Survey, and the Bureau of Industrial Chemistry of The University of Texas.

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Austin, Texas
Nov. 20, 1938

Oldham

OLDHAM COUNTY, TEXAS

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Introduction

by
Walter N. White
Senior Hydraulic Engineer
United States Department of the Interior
Geological Survey

This publication contains an assemblage of data, obtained in the course of a survey in Oldham County, Texas, consisting of records of wells and springs, logs of wells and test holes, analyses of water from wells, springs, and test holes, and graphic sections based on logs of the test holes. The locations of all wells, springs and test holes that are listed are shown on the map in the back of the book.

The survey south of the Canadian River, comprising about two-thirds of the County, was made by the Works Progress Administration (project 6017-5674 of district 16, Amarillo, Texas) as part of a State-wide inventory of water wells sponsored by the State Board of Water Engineers. It was started March 9, 1938 and completed June 23, 1938. G. H Shafer, a geologist, was project superintendent until April 9, 1938, after which C. R. Follett, an engineer, took over the work. The office of the Works Progress Administration in the Amarillo district gave valuable aid to the project, and the Oldham County Commissioners' Court cooperated by furnishing transportation for the workers.

The field work included the drilling of a large number of test holes from 15 to 70 feet deep in lines across depressions in the land surface which are partly filled with water after heavy rains. These depressions are of common occurrence in parts of Oldham County as well as in other large areas in the Texas High Plains. Samples of the materials encountered were collected from the test holes at vertical intervals of one foot and logs of the test holes were compiled from them. In this way the character of the sediments underlying the depressions can be determined and conclusions reached as to the opportunities the depressions afford for ground-water recharge.

The survey north of the river was carried out by the State Board of Water Engineers in cooperation with the Geological Survey of the United States Department of the Interior, the field work being done by W. L Broadhurst and C. R. Follett. It was completed July 23, 1938.

The analyses were made by chemists employed on Works Progress Administration project 9864 under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry of The University of Texas, and E. M. Lohr, Chemist of the Quality of Water Division of the Geological Survey; the Bureau of Industrial Chemistry furnished laboratory space and equipment. This release was typed by typists employed on that project.

The records serve as a guide to land owners and well drillers who need information regarding wells, the depth to ground water in different parts of the county, and the quantity and quality of water yielded by wells. They afford a basis for the more intensive investigation that is now being carried on by the State Board of Water Engineers in cooperation with the Geological Survey, the purpose of which is to determine the distribution and extent of the available ground-water supplies and the safe yield of the underground reservoirs.

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

No.	Distance from Adrian	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
d/ 1	30 miles northwest	208, SW¼SW¼	Bravo subdivision	J. M. Shelton	--	Old	25	20
d/ 2	do.	209, NW¼NW¼	do.	--	--	--	Spring	--
3	28½ miles northwest	210, NE¼NE¼	do.	J. M. Shelton	--	Old	--	4
4	26½ miles northwest	213, NW¼SW¼	do.	do.	--	--	Spring	--
5	26 miles northwest	214, NE¼NW¼	do.	do.	--	--	Spring	--
6	23 miles northwest	192 SW¼NE¼	do.	do.	--	Old	124	4
d/ 7	22 miles northwest	165, cen.SW¼	do.	do.	--	--	3,605	--
8	23½ miles northwest	158, NW¼SE¼	do.	do.	--	--	Spring	--
d/ 9	22½ miles northwest	137, cen.SE¼	do.	do.	Big State Oil & Gas Co.	1921	2,580	15½
d/ 10	26 miles northwest	155, SE¼SW¼	do.	do.	--	Old	--	4½
11	26½ miles northwest	171, SE¼NE¼	do.	do.	--	--	185	6
12	25½ miles northwest	127, SW¼SE¼	do.	do.	--	Old	213	6
13	22 miles northwest	76, NW¼NE¼	do.	do.	--	--	--	4½
d/ 14	17½ miles northwest	24, NE¼SW¼	E.L.& R.R.R., blk. 7	Matador Land & Cattle Co.	--	--	750	--
d/ 15	15½ miles northwest	26, NE¼NE¼	do.	do.	--	--	--	--
d/ 16	do.	20, SE¼SE¼	do.	do.	Bay State Oil Co.	--	2,200	--
d/ 17	20 miles northwest	43, NW¼NW¼	Bravo subdivision	J. M. Shelton	Humble Oil & Refining Co.	1920	2,590	20
18	19½ miles northwest	40, NE¼NW¼	do.	do.	--	--	Spring	--
19	19 miles north	15, NE¼SW¼	G.C.& S.F.R.R., blk. J 1	Martha Houghton	--	--	--	--
d/ 20	22½ miles north	7, NE¼NE¼	Bravo subdivision	J. M. Shelton	--	--	Spring	--
d/ 21	do.	7, NW¼NE¼	do.	do.	--	Old	--	--
22	24 miles north	13, SE¼NW¼	do.	Malcom Shelton	--	--	43+	4½
d/ 23	23½ miles north	9, Cen.E side	G.C.& S.F.R.R., blk. J 1	Martha Houghton	--	--	Spring	--

a/ Measuring point was usually top of well curb, top of casing, or top of pipe clamp.
b/ C, cylinder; W, windmill; G, gasoline; T, turbine; Cf, centrifugal; A, air lift; O, oil; Ng, natural gas; B, bucket; D, diesel; H, hand; number indicates horsepower

Records obtained by C. R. Follett and G. H. Shafer, Project Superintendents
(Chemical analyses of water from these wells and springs are in the table of analyses.)

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
1	--	--	--	C,W,H	N	Sandy ridge	Dug well. Rock curb. Dry when visited, July 20, 1938.
2	--	Flows	July 20, 1938	None	D	Side of draw	Reported used considerably in early days. Weak supply when visited.
3	--	--	--	C,W	S	Hilltop	Steel casing.
4	--	Flows	July 20, 1938	None	D,S	Side of draw	Estimated yield, 1 gallon a minute from seeps. Covered by rock shelter. Known as "Ojo Caballo Spring".
5	--	Flows	do.	None	S	Bottom of draw	Estimated yield, 50 to 75 gallons a minute from seeps in sand and gravel. Reported flow increases after rains.
6	--	105	e/	C,W	S	Creek bottoms	Steel casing. Estimated yield, 3 gallons a minute.
7	--	--	--	None	N	--	Oil test.
8	--	Flows	July 21, 1938	None	S	Bottom of draw	Estimated yield, 5 to 10 gallons a minute from 1 opening in limestone.
9	--	--	--	None	N	--	Oil test. Elevation, 3,850 feet. See log.
10	--	--	--	None	N	Gentle slope	Steel casing. Filled to top with dirt.
11	--	--	--	C,W	S	Rolling	Steel casing. Estimated yield, 3 gallons a minute.
12	1	194.7	July 21, 1938	C,W	S	Near draw	Steel casing. Reported drawdown, 0.8 foot pumping 2 gallons a minute.
13	--	--	--	C,W	S	Rolling	Steel casing.
14	--	--	--	None	N	--	Oil test.
15	--	--	--	None	N	--	Do.
16	--	--	--	None	N	--	Do.
17	--	--	--	None	N	--	Oil test. See log.
18	--	--	July 21, 1938	None	D,S	Creek bottoms	Estimated yield, 5 gallons a minute from seeps in sand.
19	--	--	--	C,W	D,S	Near draw	Filled with dirt when visited, July, 1938.
20	--	--	July 21, 1938	None	S	Bottom of draw	Slight yield from seeps in silt.
21	--	--	--	None	N	do.	Filled with dirt.
22	--	--	--	C,W	S	Near draw	
23	--	--	--	None	S	Bottom of draw	Slight yield from seeps in silt.

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

Records of wells and springs in Oldham County--Continued

No.	Distance from Adrian	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
d/ 24	23 miles north	37, cen.W side	E.L.& R.R.R.R., blk. L C 2	Martha Houghton	--	--	Spring	--
d/ 25	22 miles north	26, SW¼SW¼	G.C.& S.F.R.R., blk. J 1	do.	--	--	114	--
26	19½ miles north	SE¼NW¼	League 260	Matador Land & Cattle Co.	--	--	97	6
d/ 27	21 miles north	cen. SE¼	League 243	do.	--	--	--	--
d/ 28	20 miles north	24, SW¼NE¼	G.C.& S.F.R.R., blk. J 1	do.	--	--	--	--
d/ 29	do.	24, NW¼SE¼	do.	do.	--	1920	--	--
d/ 30	do.	do.	do.	do.	--	1920	--	--
d/ 31	do.	24, NE¼SW¼	do.	do.	--	1920	--	24
32	do.	do.	do.	do.	--	--	--	--
d/ 33	18 miles north	25, NE¼NE¼	do.	do.	--	1917	--	--
34	do.	25, NW¼NE¼	do.	do.	--	--	55	6
d/ 35	do.	do.	do.	do.	--	1917	--	24
d/ 36	do.	do.	do.	do.	--	1917	--	24
37	21 miles northeast	SW¼SW¼	League 311	do.	--	--	Spring	--
38	11½ miles north	13, NE¼SW¼	E.L.& R.R.R.R., blk. L. C.	do.	--	--	Spring	--
d/ 39	do.	do.	do.	do.	--	--	Spring	--
40	do.	13, NW¼SE¼	do.	do.	--	--	Spring	--
d/ 41	do.	do.	do.	do.	--	--	Spring	--
42	do.	13, NE¼SW¼	do.	do.	--	Old	10	42
43	do.	do.	do.	do.	--	Old	10	42
44	12 miles north	NE¼NE¼	League 285	do.	-- Mitchell	1930	170	6
45	4½ miles north	NE¼NW¼	League 330	do.	--	--	--	6
46	5 miles northwest	NW¼NE¼	League 335	do.	-- Mitchell	1931	149	5
47	do.	do.	do.	do.	--	--	Spring	--
48	8 miles northwest	NW¼NW¼	League 332	do.	--	--	Spring	--

C. R. Follett and G. H Shafer, Project Superintendents

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
24	--	--	--	None	S	Bottom of draw	Slight yield from seeps in silt.
25	--	--	--	None	N	Ridge-top	Reported formerly watered large herd of stock. Dry when visited, July 22, 1938.
26	1	81.3	July 22, 1938	C,W	S	Edge of sink	Estimated yield, 5 gallons a minute. Located at dipping vat and corral west of dry lake.
27	--	--	--	C,W	S	Ridge-top	
28	1	70.2	July 22, 1938	T,G, 60	N	Gentle slope	Reported formerly used as irrigation well.
29	--	--	--	T,G	N	do.	Do.
30	1	55.2	July 22, 1938	T,G, 50	N	do.	Do.
31	1	54.3	do.	None	N	do.	
32	1	55.7	do.	C,W	I	do.	
33	1	21.7	do.	T,G, 40	N	River bottoms	
34	--	--	--	C,W	D,S	do.	
35	--	26	July 22, 1938	T,G, 40	I	do.	Reported yield, 1,000 gallons a minute. Pump set at 80 feet. Irrigates approximately 80 acres.
36	1	24.1	do.	T,G, 35	I	do.	Reported yield, 1,000 gallons a minute.
37	--	Flows	May 4, 1938	None	S	Side of draw	Estimated yield, 10 gallons a minute from seeps at "Red Beds" - sandstone contact.
38	--	Flows	May 3, 1938	None	S	do.	Estimated yield, 1/8 gallon a minute from seeps.
39	--	Flows	--	None	S	In draw	Estimated yield, 1 gallon a minute from seeps at top of "Red Beds".
40	--	Flows	--	None	S	do.	Estimated yield, 3 gallons a minute from seeps at "Red Beds" - sandstone contact. Located $\frac{1}{4}$ mile west of Alamocitos Creek.
41	--	Flows	--	None	S	do.	Estimated yield, 2 gallons a minute from seeps in "Red Beds". Located at Alamocitos camp.
42	2	7.3	May 3, 1938	C,W	D,S	Creek valley	Dug well. Rock curb. Reported drawdown, 4 feet after pumping about 3 gallons a minute for 8 hours.
43	0.3	8.4	do.	B,H	S	Valley flat	Dug well. Rock curb. Located at Alamocitos camp.
44	--	--	--	C,W	S	Flat	Estimated yield, 4 gallons a minute.
45	--	--	--	C,W	S	do.	Estimated yield, 3 gallons a minute.
46	--	--	--	C,W	S	Valley flat	Steel casing. Estimated yield, 5 gallons a minute. Reported obstruction at 21 feet
47	--	Flows	--	None	S	Draw	Estimated yield, 1/16 gallon a minute from seeps in "Red Beds"
48	--	Flows	--	None	S	do.	Reported waters 100 head of stock.

Records of wells and springs in Oldham County--Continued

No.	Distance from Adrian	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
49	11 miles northwest	SE¼NW¼	League 289	Matador Land & Cattle Co.	--	Old	94	6
50	13½ miles northwest	SE¼SW¼	League 275	do.	--	1937	101	6
51	16 miles northwest	93, SW¼SW¼	E.L.& R.R.R.R., blk. 7	do.	--	-- Spring		--
52	15½ miles west	SW¼NW¼	League 338	do.	--	-- Spring		--
d/ 53	17 miles west	NW¼SE¼	League 339	do.	--	-- Spring		--
d/ 54	18½ miles west	NW¼SW¼	do.	do.	--	-- Spring		--
55	17½ miles west	34, NW¼SE¼	T.8 N., R.1 E.	--	--	Old	184	--
56	16 miles west	1, SW¼NW¼	T.7 N., R.1 E.	--	--	Old	117	4
57	16½ miles west	13, SE¼NW¼	do.	--	--	--	200	5
d/ 58	17 miles west	14, NE¼SE¼	do.	--	--	Old	35	5
d/ 59	do.	do.	do.	--	--	Old	35	5
d/ 60	do.	do.	do.	--	--	Old	35	5
d/ 61	do.	do.	do.	--	--	1938	202	5
d/ 62	do.	do.	do.	--	--	--	35	5
63	17½ miles west	26, SE¼NE¼	do.	Landergin Bros. Co.	--	1916	271	5
64	15½ miles west	19, NE¼NW¼	T.7 N., R.2 E.	--	--	--	200	--
d/ 65	14½ miles west	7, SE¼NE¼	do.	--	--	Old	164	5
66	13½ miles west	3, NE¼NE¼	do.	--	--	Old	--	--
67	13 miles west	4, NW¼NW¼	do.	Landergin Bros. Co.	--	Old	--	4½
68	12½ miles west	21, NW¼NE¼	T.8 N., R.2 E.	do.	--	-- Spring		--
69	do.	21, NE¼NE¼	do.	do.	--	-- Spring		--
d/ 70	11 miles west	14, NW¼SE¼	do.	do.	--	Old	--	--
71	10 miles west	12, NE¼NE¼	do.	do.	--	1938	--	4½
d/ 72	8½ miles west	7, SE¼SE¼	do.	do.	--	--	3,510	--
d/ 73	7½ miles west	9, NW¼NW¼	T.8 N., R.3 E.	do.	--	Old	28	4

C. R. Follett and G. H. Shafer, Project Superintendents

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
49	1	93	May 3, 1938	C,W	D,S	Flat	Water level measured while pumping. Estimated yield, 1 gallon a minute.
50	1	98	May 17, 1938	C,W	S	Small draw	Water level measured while pumping. Estimated yield, 1 gallon a minute. Located at Vat camp.
51	--	Flows	do.	None	S	Draw	Known as "Blue Goose Spring".
52	--	Flows	do.	None	S	Bank of creek	Located in banks of Mojares Creek. Seeps extend $\frac{1}{4}$ mile along creek.
53	--	Flows	Apr. 5, 1938	None	D,S	Hillside	Estimated yield, 2 gallons a minute from openings at contact of red clay and gray sandstone. Located at
54	--	Flows	do.	None	S	Bed of draw	Estimated yield, $\frac{1}{2}$ gallon a minute from gravel. Brown's camp.
55	1	120.2	Apr. 19, 1938	C,W	S	Slope	Estimated yield, 5 gallons a minute.
56	1	104.2	do.	C,W	S	Creek bottoms	Steel casing. Estimated yield, 2 gallons a minute.
57	--	--	--	C,W	S	Ridge-top	Steel casing. Estimated yield, 4 gallons a minute.
58	--	--	--	None	N	Bank of draw	Steel casing. Filled above water level.
59	--	--	--	None	N	do.	Do.
60	--	--	--	None	N	do.	Water reported at 20 to 25 feet.
61	1.9	19.4	Apr. 19, 1938	None	S	do.	Pump not yet installed when visited April 19, 1938. Water reported in coarse-grained bluish-gray sand at 20 to 25 feet and 170 to 175 feet.
62	0	17.6	do.	None	N	Near draw	Weak supply. Seep water reported at 20 to 25 feet.
63	0	266.1	June 7, 1938	C,W	S	Flat	Reported originally oil test drilled to 3,000 feet. Estimated yield, 4
64	--	--	--	C,W	S	Gentle slope	Estimated yield, $3\frac{1}{2}$ gallons a minute. gallons a minute.
65	1	157	Apr. 19, 1938	C,W	S	Edge of draw	Steel casing. Water level questionable.
66	--	--	--	C,W	S	Side of draw	
67	--	--	--	C,W	S	do.	
68	--	Flows	Apr. 20, 1938	None	S	Bed of creek	Reported waters 50 head of stock.
69	--	Flows	do.	None	S	Bottom of draw	Do.
70	--	--	--	None	N	Small draw	
71	--	--	--	C,W	S	Valley flat	Estimated yield, 3 gallons a minute.
72	--	--	--	None	N	--	Oil test.
73	--	--	--	C,W	S	Bank of creek	

Records of wells and springs in Oldham County--Continued

No.	Distance from Adrian	Section	Range township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
74	6 miles west	NE¼SE¼	League 333½	J. N. Ivy	--	--	Spring	--
75	4¾ miles west	cen. SE¼	do.	do.	--	--	Spring	--
76	5½ miles west	SE¼NE¼	League 346	do.	--	--	Spring	--
77	5 miles west	106, NW¼SW¼	G.C.& S.F.R.R., blk. K 11	W. H. Grublekey	"Colonel" Owens	1920	110	4½
d/ 78	do.	do.	do.	do.	do.	1920	125	--
d/ 79	do.	do.	do.	do.	--	1920	--	--
d/ 80	do.	do.	do.	do.	--	1920	--	--
d/ 81	do.	do.	do.	do.	--	1920	--	--
d/ 82	do.	do.	do.	do.	--	1920	--	--
83	4¾ miles west	107, NW¼NE¼	do.	Mary Monohan	--	Old	120	4½
d/ 84	4 miles west	68, SW¼NW¼	do.	--	--	1909	600	--
d/ 85	do.	68, NW¼NW¼	do.	Rock Island R. R.	--	1909	120	--
86	4¾ miles northwest	NE¼SW¼	Capitol Lands, League 335	Matador Land & Cattle Co.	--	--	Spring	--
87	do.	--	do.	do.	--	--	Spring	--
88	4 miles northwest	SE¼SE¼	do.	do.	--	--	Spring	6
89	3 miles northwest	near cen.	Capitol Lands, League 334	do.	--	--	150	6
90	1½ miles northeast	14, NE¼NE¼	G.C.& S.F.R.R., blk. K 11	J. P. Collier	--	Old	120	4½
91	do.	do.	do.	do.	--	--	125	5
d/ 92	1¼ miles northeast	14, SE¼NE¼	do.	do.	--	--	130	--
d/ 93	½ mile northeast	15, NE¼NW¼	do.	do.	--	--	300	--
d/ 94	¼ mile northeast	do.	do.	Dr. C. E. Hawn	Dr. C. E. Hawn	Old	140	--
d/ 95	do.	do.	do.	do.	Ben Turpin	1931	105	--
96	In Adrian	15, SE¼NW¼	do.	T. Chapman	T. Chapman	1930	95	6
97	do.	do.	do.	C. Glasscock	"Colonel" Owens	--	--	4½
d/ 98	1 mile southeast	12, SW¼SW¼	do.	Dr. C. E. Hawn	--	Old	--	--
d/ 99	1½ miles southeast	11, NW¼SW¼	do.	do.	Dr. C. E. Hawn	--	150	--

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
74	--	Flows	Apr. 12, 1938	None	D	Hillside	Estimated yield, 2 gallons a minute.
75	--	Flows	do.	None	S	Bed of creek	Located in bed of Agua Piedra Creek. Water from seeps in bed of creek supplies several hundred head of
76	--	Flows	June 6, 1938	None	D	Bank of draw	Estimated yield, 25 gallons a day from seeps at top of "Red Beds". stock.
77	1.5	101.8	do.	C,W	D,S,I	Gentle slope	Reported pumped 18 gallons a minute with pump jack. Water reported at 99 to 107 feet. Irrigates trees and
78	--	--	--	None	N	do.	Reported supply too weak for use. garden.
79	--	--	--	None	N	do.	Do.
80	--	--	--	None	N	do.	Do.
81	--	--	--	None	N	do.	Do.
82	--	--	--	None	N	do.	Do.
83	1	112.3	May 10, 1938	C,W	D,S	do.	Estimated yield, 2 gallons a minute.
84	--	--	--	None	N	do.	Dry hole.
85	--	--	--	None	N	do.	Reported supply too weak for railroad use.
86	--	Flows	May 20, 1938	None	S	Bottom of draw	Estimated yield, $\frac{1}{4}$ gallon a minute from seeps in sandstone.
87	--	Flows	do.	None	S	do.	Weak supply from seeps in sandstone.
88	--	Flows	do.	None	S	do.	Weak supply from seeps in bluish-gray clay. Reported used in stage-
89	--	--	--	C,W	S	Bank of draw	Estimated yield, 5 gallons a minute. coach days.
90	0.5	91.8	May 27, 1938	C,W	D,S	do.	Estimated yield, $1\frac{1}{2}$ gallons a minute. Water level measured while pumping.
91	--	--	--	C,W,G 2	P	do.	Steel casing, 0 to 125 feet. Reported yield, 3 gallons a minute. Partially supplies city of Adrian.
92	--	--	--	C,W	P	Gentle slope	Estimated yield, $1\frac{1}{2}$ gallons a minute. Partially supplies city of Adrian.
93	--	--	--	None	N	do.	Dry hole.
94	--	--	--	None	N	Flat	Located at post office in Adrian. Water reported from seep in clay at
95	--	--	--	C,W	D,S	do.	Reported seep in clay at 99 feet. 99 feet. Reported yield, 12 gallons
96	0.7	86.1	May 27, 1938	C,W	D,S,I	do.	Reported yield, $\frac{1}{2}$ gallon a minute. Irrigates garden. a day.
97	--	--	--	C,W	D,S	do.	Estimated yield, $\frac{1}{2}$ gallon a minute. Located in rear of Adrian Mercantile
98	--	--	--	None	N	Gentle slope	Reported weak supply. Store.
99	--	--	--	None	N	do.	Reported drilled to "Red Beds". Dry hole.

Records of wells and springs in Oldham County--Continued

No.	Distance from Adrian	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
d/100	1½ miles southeast	11, NW¼SW¼	G.C.& S.F.R.R., blk. K 11	Dr. C. E. Hawn	Dr. C. E. Hawn	--	150	--
d/107	2 miles east	2, north end	blk. B	do.	do.	1911	120	--
d/112	2¼ miles east	7, SW¼SW¼	Gregg C. S. L.	Gist & Gist	--	--	--	--
113	3 miles east	7, SE¼NE¼	do.	P. M. McAdoo	--	1913	220	4
d/114	3½ miles east	5, NW¼NW¼	do.	Gist & Gist	--	--	--	--
d/115	do.	8, NE¼NE¼	do.	do.	--	--	--	--
d/116	4¼ miles east	5, NE¼SE¼	do.	do.	--	--	50+	4
117	4½ miles east	3, SW¼SW¼	do.	do.	--	Old	121	4½
119	5 miles east	1, SE¼S½	blk. B 1	do.	"Colonel" Owens	1918	175	5
d/120	6 miles east	26, NW¼NE¼	G.C.& S.F.R.R., blk. H 1	C. M. Raley	"Doc" Muncey	1937	310	8
121	6½ miles east	24, SW¼SW¼	do.	Chafin Glasscock	--	--	165	4½
d/122	7½ miles east	NE¼SE¼	Capitol Lands, League 328	Matador Land & Cattle Co.	-- Mitchell	1931	166	5
123	7 miles east	24, NE¼SE¼	G.C.& S.F.R.R., blk. H 1	Chafin Glasscock	--	Old	200	4½
d/124	6½ miles east	62, NE¼NE¼	G.B.& C.N.G.R.R., blk. K 6	John Scott	"Colonel" Owens	1910	233	4½
d/125	7½ miles southeast	64, NE¼NE¼	do.	Lester Stone	--	--	207	3½
d/126	6½ miles southeast	77, NW¼NW¼	do.	Henry Marrell	--	--	270	4½
d/127	5½ miles southeast	97, NW¼NE¼	do.	V. Lemke	--	--	230	4½
d/128	4¼ miles southeast	98, NE¼NW¼	do.	H. Klein	--	--	--	--
129	4 miles southeast	81, NW¼SW¼	do.	H. Creitz	-- Burland	1910	110	4
d/130	3½ miles southeast	99, NW¼NW¼	do.	B. E. Witte	"Doc" Reeves	1928	109	4
131	2¾ miles southeast	10, NE¼SE¼	G.C.& S.F.R.R., blk. K 11	Dr. C. E. Hawn	--	1911	110	4
d/132	3 miles southeast	3, NW¼NE¼	blk. B	J. P. Collier	--	Old	124	4
133	3½ miles southeast	3, cen.W side N½	do.	do.	--	Old	135	4

a/ Measuring point was usually top of well curb, top of casing, or top of pipe clamp.
b/ C, cylinder; W, windmill; G, gasoline; T, turbine; Cf, centrifugal; A, air lift; O, oil; Ng, natural gas; B, bucket; D, diesel; H, hand; number indicates horsepower.

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No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
100	--	--	--	None	N	Ridge-top	Reported drilled to "Red Beds". Dry hole.
107	--	--	--	None	N	Gentle slope	Do.
112	--	--	--	None	N	do.	Dry hole. Drilled since 1928.
113	--	180	e/	C,W	D,S,I	Flat	Steel casing, 0 to 220 feet. Irrigates garden.
114	--	--	--	None	N	--	Reported drilled since 1936 to about 600 feet. Supply too weak for use.
115	--	--	--	None	N	Gentle slope	Reported too weak for use.
116	--	--	--	None	N	do.	Reported weak supply. Obstructed at 50 feet.
117	2	118.2	June 14, 1938	C,W	D,S	Slope to lake	Estimated yield, 4 gallons a minute.
119	--	--	--	C,W	D,S,I	Gentle slope	Estimated yield, 4 gallons a minute. Irrigates garden.
120	--	157.3	Mar. 30, 1938	None	N	Flat	Galvanized iron casing, 0 to 200 feet; 6-inch casing, 200 to 310 feet. Reported unused since Oct. 1937.
		157.2	June 17, 1938				
121	--	--	--	C,W	N	do.	
122	1	154.2	May 4, 1938	C,W	S	Side of ridge	
123	--	--	--	C,W	D,S,I	Gentle slope	Estimated yield, 3 gallons a minute. Irrigates garden.
124	0.7	214.9	Mar. 30, 1938	C,W	N	Sink	Wrought iron casing, 0 to 233 feet.
125	0	195.8	Mar. 31, 1938	None	N	Gentle slope	Wrought iron casing, 0 to 207 feet. Reported drilled before 1908.
126	0.8	258.7	Apr. 11, 1938	C,W	N	Flat	Wrought iron casing, 0 to 270 feet.
127	1.4	179.5	do.	C,W	N	do.	
128	--	--	--	None	N	--	Reported abandoned because of quicksand.
129	2	107.2	Apr. 14, 1938	C,W	D,S	Flat	Wrought iron casing, 0 to 110 feet. Cylinder reported within 1 foot of bottom.
130	--	--	--	C,W	N	do.	Reported weak supply when first completed. Dry when visited, April 11, 1938.
131	--	105	e/	C,W	S	Gentle slope	Estimated yield, 3 gallons a minute. Water reported in coarse quicksand, 105 to 110 feet.
132	1	120.1	May 11, 1938	C,H	D	do.	Steel casing.
133	1	124.1	May 25, 1938	C,W	S,I	Flat	Estimated yield, 3 gallons a minute. Irrigates garden.

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

Records of wells and springs in Oldham County--Continued

No.	Distance from Adrian	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
134	4 miles southeast	9, NW¼S½	G.C.& S.F.R.R., blk. K 11	H. Klein	--	Old	120	6
d/135	do.	8, NE¼NE¼	do.	E. N. Jacobson	--	Old	128	4½
d/136	5½ miles south	46, NE¼SE¼	do.	T. J. Waggoner	--	--	--	--
137	4½ miles south	33, NE¼NW¼	do.	B. & R. D. Gist	W. M. Turpin	1928	155	4½
d/138	do.	do.	do.	do.	do.	1928	--	--
d/139	do.	do.	do.	do.	do.	1928	--	--
d/140	do.	do.	do.	do.	do.	1928	--	--
d/141	do.	do.	do.	do.	do.	1928	--	--
d/142	4¼ miles south	34, NW¼SW¼	do.	J. C. Johnson	--	--	155	--
d/143	3½ miles south	35, SW¼SW¼	do.	W. M. Cotton	W. M. Turpin	1933	--	--
d/144	do.	do.	do.	do.	do.	1934	--	--
d/145	3 miles south	35, NW¼SE¼	do.	do.	do.	1934	--	--
d/150	2 miles south	36, NE¼SE¼	do.	W. E. Coffee	--	Old	--	--
d/151	1¼ miles south	16, SE¼SW¼	do.	--	--	Old	700	--
152	1½ miles south	37, SW¼SE¼	do.	C. Glasscock	--	1938	20	48
d/155	1½ miles southwest	42, NE¼NE¼	do.	do.	--	--	2,600	--
d/160	2½ miles southwest	43, SE¼NE¼	do.	P. E. Mahon	--	Old	30	--
161	3 miles southwest	44, NW¼NE¼	do.	C. Glasscock	--	1927	24	42
d/162	4¼ miles southwest	45, NW¼NW¼	do.	A. G. Bell	--	1912	120	4½
163	do.	60, NE¼NE¼	do.	do.	--	1917	114	4½
d/164	4½ miles southwest	60, SW¼NE¼	do.	do.	--	1917	120	--
d/165	5 miles southwest	59, NE¼NE¼	do.	J. L. Fuqua	--	1926	200	--
d/166	5½ miles southwest	71, SE¼SE¼	do.	do.	-- Turpin	1929	300	--

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
134	--	--	--	C,W	D,S	Gentle slope	Estimated yield, 3 gallons a minute.
135	1	126.1	May 25, 1938	None	N	do.	Located at emergency landing field.
136	--	--	--	None	N	--	Reported drilled about 1925 as test well. Dry hole.
137	--	--	--	C,W	D,S	Bed of draw	Reported yield, $\frac{1}{4}$ gallon a minute. Reported drilled to top of "Red Beds"
138	--	--	--	None	N	do.	Reported drilled as test well. Dry hole.
139	--	--	--	None	N	do.	Do.
140	--	--	--	None	N	do.	Do.
141	--	--	--	None	N	do.	Do.
142	0.3	146	Apr. 26, 1938	C,W	N	Gentle slope	Reported drilled before 1911.
143	--	--	--	None	N	do.	Reported test well drilled into "Red Beds". Dry hole.
144	--	--	--	None	N	Side of ridge	Reported drilled as test well. Dry hole.
145	--	--	--	None	N	Gentle slope	Do.
150	--	--	--	None	N	Flat	Dry when visited May 11, 1938.
151	--	--	--	None	N	Ridge-top	Reported drilled as test well for city supply. Weak supply at 200 feet; lost when deepened to 700 feet.
152	0	18.4	May 20, 1938	None	N	Gentle slope	Dug well with test hole in center. Well not completed when visited, May 20, 1938. Hand-pump test made after completion. Measured drawdown, 1 foot after pumping 5 to 12 gallons
155	--	--	--	None	N	Edge of lake	Oil test. a minute for 1 hour
160	--	--	--	None	N	Slope to lake	Reported originally yielded strong supply. Filled to surface with dirt when visited, April 26, 1938.
161	2	23.7	Apr. 26, 1938	C,W	D,S	Bed of draw	Dug well. Galvanized casing. Reported yield, $\frac{1}{2}$ gallon a minute.
162	1.3	112.7	May 10, 1938	C,W	N	Ridge-top	Unused when visited, May 10, 1938.
163	--	--	--	C,W	D,S	Side of draw	Reported yield, 2 gallons a minute.
164	--	--	--	None	N	Gentle slope	Reported supply too weak for use.
165	--	--	--	None	N	--	Reported drilled as test well. Dry hole.
166	--	--	--	None	N	Flat	Reported perforated casing set at wrong place in hole. Hole later dynamited; then abandoned.

Records of wells and springs in Oldham County--Continued

No.	Distance from Adrian	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
167	5½ miles west	71, SE¼SE¼	G.C.& S.F.R.R., blk. K 11	J. L. Fuqua	-- Turpin	1939	220	4
168	4¼ miles southwest	61, SW¼NW¼	do.	Chafin Glasscock	"Colonel" Owens	--	200+	4
169	4 miles southwest	61, NW¼NW¼	do.	do.	-- Turpin	--	60	--
d/170	3¾ miles southwest	62, SW¼SW¼	do.	do.	W. M. Turpin	1933	68	--
d/171	6½ miles southwest	110, NE¼NW¼	do.	--	--	Old	225	4
172	do.	112, SE¼NE¼	do.	L. E. Lyles	McNew & Owens	1930	120	4
d/173	9 miles southwest	28, SE¼NW¼	T.7 N., R.3 E.	F. P. McIntyre, et al	--	Old	186	5
d/174	8 miles southwest	16, NW¼NE¼	do.	R. A. Freeman	-- Turpin	1928	200	--
175	do.	16, NE¼NW¼	do.	do.	do.	1928	152	4
d/176	7 miles west	114, SE¼SW¼	G.C.& S.F.R.R., blk. K 11	J. N. Ivy	--	Old	--	6
d/177	do.	do.	do.	do.	--	Old	--	--
178	do.	do.	do.	do.	--	--	39	6
d/179	7½ miles west	113, NW¼NW¼	do.	L. E. Lyles	--	Old	12+	36
180	do.	116, NE¼NE¼	do.	Landergin Bros. Co.	--	1938	4	--
181	do.	115, cen.SE¼	do.	do.	--	Old	29	3
d/182	9 miles west	31, NE¼SW¼	T.8 N., R.3 E.	do.	--	Old	--	4
d/183	do.	do.	do.	do.	--	Old	--	--
184	do.	do.	do.	do.	--	--	133	4
d/185	9½ miles southwest	20, NW¼NW¼	T.7 N., R. 3 E.	do.	--	--	57	6
d/186	10 miles southwest	19, SE¼SE¼	do.	--	--	Old	--	--
187	10½ miles southwest	30, NW¼NE¼	do.	F. P. McIntyre, et al	--	Old	183	4
d/188	do.	do.	do.	do.	--	Old	--	4
189	11 miles southwest	25, SE¼NE¼	T.7 N., R.2 E.	H. Fortenberry	H. Fortenberry	1928	165	4
d/190	10½ miles southwest	19, NW¼NW¼	T.7 N., R.3 E.	Landergin Bros. Co.	--	Old	--	4

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
167	--	204	e/	C,W	D,S	Bed of draw	Steel casing, 0 to 220 feet. 20 feet of 3-inch screen set at 195 feet. Reported yield, 2 gallons a minute.
168	--	--	--	C,W	S,Ind	do.	Estimated yield, 1 gallon a minute. Reported leak in casing.
169	1	49.9	May 20, 1938	C,W	S	do.	Estimated yield, 2 gallons a minute.
170	--	--	--	None	N	Side of draw	Reported drilled into "Red Beds". Dry hole.
171	0	148.1	Apr. 28, 1938	C,W	N	Gentle slope	Reported weak supply. Unused when visited, April 28, 1938.
172	--	--	--	C,W	D,S	Slope to lake	Estimated yield, 2 gallons a minute. Reported quicksand in well.
173	1.5	165.2	Apr. 28, 1938	C,W	N	Gentle slope	
174	--	--	--	None	D,S	Creek bank	Reported supply too weak for use. Filled with dirt above water level, when visited April 28, 1938.
175	1.3	127.9	Apr. 28, 1938	C,W	D,S	Bank of draw	112 feet steel casing; 20 feet of screen set at 112 to 132 feet. Reported yield, 1 gallon a minute.
176	--	--	--	None	N	Creek bank	Reported first of three wells at this location. Filled with dirt
177	--	--	--	None	N	do.	above water level.
178	0.0	22	Apr. 19, 1938	C,W	S	do.	Estimated yield, 5 gallons a minute.
179	0.0	10.9	do.	None	N	do.	Dug well at surface; 4-inch hole drilled to bottom.
180	--	3.3	do.	None	D	Bed of creek	Dug well. Measuring point is bed of creek.
181	1	23.4	do.	C,W	S	Creek bank	Water level measured while pumping. Estimated yield, 5 gallons a minute.
182	--	--	--	None	N	Side of creek	Filled with dirt above water level.
183	--	--	--	None	N	Creek bank	Reported caved in and column pipe left in hole. Located 100 feet west
184	--	--	--	C,W	S	do.	Estimated yield, 4 gal- of well 184. lons a minute.
185	2.3	23.3	Apr. 20, 1938	None	N	do.	Steel casing.
186	--	--	--	None	N	Gentle slope	Reported strong supply before abandoned. Casing removed.
187	2	170.3	Apr. 28, 1938	C,W	S	Flat	Water level measured while pumping. Estimated yield, 2 gallons a minute. Located $\frac{1}{2}$ mile south of cap rock.
188	--	--	--	None	N	do.	Formerly supplied water for domestic and stock use.
189	0.3	163.7	Apr. 28, 1938	C,W	D,S	Gentle slope	Water level measured while pumping. Estimated yield, 2 gallons a minute.
190	--	--	--	None	N	Creek bank	Filled with dirt above water level.

Records of wells and springs in Oldham County--Continued

No.	Distance from Adrian	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
d/191	10½ miles southwest	10, NW¼NW¼	T.7 N., R.3 E.	Landergin Bros. Co.	--	Old	--	4½
d/192	do.	do.	do.	do.	--	Old	--	4½
d/193	11½ miles southwest	23, NE¼NE¼	do.	do.	--	Old	--	4½
d/194	do.	do.	do.	do.	--	--	--	4½
195	do.	do.	do.	do.	--	--	29	4½
196	11 miles west	14, SE¼NE¼	T.7 N., R.2 E.	Rock Island R. R.	C. H. McVay	--	450	7
197	do.	35, SW¼SE¼	T.8 N., R.2 E	Landergin Bros. Co.	--	Old	150+	4½
d/198	12 miles west	10, SE¼NE¼	T.7 N., R.2 E.	do.	H. C. Wilson	1931	280	--
d/199	12½ miles west	15, NW¼NW¼	do.	do.	do.	1931	310	--
d/200	13 miles west	16, NW¼SE¼	do.	--	do.	1932	354	--
d/201	do.	do.	do.	--	do.	1932	151	--
d/202	do.	do.	do.	Landergin Bros. Co.	do.	1932	352	5
203	14½ miles southwest	28, SW¼NW¼	do.	--	--	1938	450	6

No.	Distance from Tascosa	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
d/301	17 miles west	15, NE¼NE¼	C. S. S., blk. 22	Matador Land & Cattle Co.	--	--	54+	5
d/302	16 miles west	SW¼NW¼	League 241	do.	--	--	73	6
d/303	15 miles west	11, NE¼NE¼	G.C.& S.F.R.R., sur., blk. J	do.	--	--	--	24
d/304	do.	do.	do.	do.	--	--	--	24
d/305	do.	do.	do.	do.	--	--	--	24
306	15½ miles west	11, SE¼NW¼	do.	do.	--	--	63	--
307	14 miles west	NW¼NW¼	League 299	do.	--	--	97	6
d/308	15 miles southwest	23, SW¼SE¼	blk. H 3	Landergin Bros. Co.	--	Old	95	--

a/ Measuring point was usually top of well curb, top of casing, or top of pipe clamp.
b/ C, cylinder; W, windmill; G, gasoline; T, turbine; Cf, centrifugal; A, airlift; O, oil; Ng, natural gas; B, bucket; D, diesel; H, hand; number indicates horsepower.

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No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
191	--	--	--	C,W	D,S	Creek bank	Water pumped to house ¼ mile distant.
192	--	--	--	None	N	do.	Filled with dirt above water level.
193	--	--	--	None	N	do.	Formerly supplied water for stock use.
194	--	--	--	None	N	do.	Filled with dirt above water level.
195	0.3	17.9	Apr. 20, 1938	C,W	S	do.	Water level measured while pumping. Estimated yield, 3 gallons a minute.
196	--	390	e/	C,C, --	Ind	Edge of scarp	Reported yield, 70 gallons a minute. See log.
197	--	--	--	C,W	S	Side of draw	Estimated yield, 5 gallons a minute. Reported cylinder set at 150 feet.
198	--	--	--	None	N	--	Reported drilled 100 feet in "Red Beds". Dry hole.
199	--	--	--	None	N	Side of draw	"Red Beds" reported, top to bottom. Dry hole.
200	--	--	--	None	N	Ridge-top	Reported abandoned because of crooked hole.
201	--	--	--	None	N	do.	Do.
202	2	300	June 7, 1938	C,W	N	do.	352 feet steel casing. Measured yield, 11 gallons a minute. Water reported from 340 to 352 feet. Unused when visited, June 7, 1938.
203	--	--	--	C,W	S	Flat	Estimated yield, 4 gallons a minute.

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power	Use of water	Topographic situation	Remarks
301	--	--	--	C,W	N	Hillside	Steel casing.
302	0.0	71.2	July 24, 1938	C,W	S	do.	
303	2	42.5	do.	None	N	do.	Reported drilled for irrigation use. Unused when visited, July 24, 1938.
304	1.3	39.5	do.	None	N	do.	Do.
305	0	38.3	do.	None	N	Slope	Do.
306	1.5	46.1	do.	C,W	S	Hillside	
307	1	86.6	May 4, 1938	C,W	S	Draw	Estimated yield, 5 gallons a minute.
308	5.5	53	May 6, 1938	C,W	N	Creek bank	Water reported from "Red Beds". Water level questionable.

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

Records of wells and springs in Oldham County--Continued

No.	Distance from Tascosa	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
d/309	14 miles southwest	24, NE¼SW¼	blk. H 3	Landergin Bros. Co.	Prairie Oil & Gas Co.	--	--	--
d/310	13 miles southwest	46, NW¼SE¼	do.	do.	do.	1928	5,645	24
311	7 miles west	88, NE¼SW¼	do.	do.	--	--	15	36
312	4⅝ miles south	NE¼NE¼	League 306	--	--	1929	147	--
313	5½ miles southeast	61, N½N½	G. & M. blk. 5	-- Herring	--	-- Spring		--
d/314	4½ miles southeast	64, S½S½	do.	do.	--	Old	--	--
315	3⅝ miles southeast	65, S½S½	do.	Kirk Munson	--	1925	29	6
d/316	3 miles southeast	66, N½N½	do.	do.	--	Old	14	10
317	do.	67, N½S½	do.	--	--	Old	100	6
318	2¾ miles east	111, S½N½	H.& T.C.R.R., blk. 47	-- Bivins	--	-- Spring		--
319	2¼ miles southeast	67, N½N½	G. & M. blk. 5	--	--	--	--	16
d/320	2 miles southeast	68, SE¼SE¼	do.	--	--	--	--	36
d/321	do.	do.	do.	--	--	--	--	36
d/322	do.	do.	do.	--	--	--	--	36
d/323	do.	do.	do.	--	--	--	--	36
d/324	do.	do.	do.	--	--	Old	--	36
d/325	do.	68, NE¼SE¼	do.	-- Hedgecoat	--	--	--	36
d/326	do.	do.	do.	do.	--	1937	--	--
327	1¼ miles south	68, SW¼NW¼	do.	do.	--	1930	102	4
d/328	do.	do.	do.	do.	--	Old	64	8
d/329	1 mile south	1, SW¼SE¼	E.L.& R.R.R.R., blk. B 5	Texas Sand & Gravel Co.	--	--	--	--
d/330	do.	do.	do.	do.	--	1927	--	--

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
309	--	--	--	None	N	--	Oil test.
310	--	--	--	None	N	--	Oil test. See log.
311	2	12.8	May 6, 1938	C,W	D,S	Creek bank	Dug well. 4-inch casing inside 36-inch casing. Water level measured while pumping. Estimated yield, 1 gallon a minute. Reported water from "Red Beds". Located at "Cow Camp" on west bank of Alamosa Creek.
312	0.8	94.5	May 26, 1938	C,W	S	Valley	Estimated yield, 1½ gallons a minute.
313	--	Flows	do.	None	N	--	Estimated yield, ¼ gallon a minute from seeps in sandstone above yellow
314	--	--	--	None	N	River valley	Reported formerly and gray clay. supplied water for stock use.
315	4	27.7	May 26, 1938	C,W	D,S	Valley flat	Estimated yield, 4 gallons a minute.
316	4	13.3	do.	C,W	S	River bottoms	Steel casing.
317	--	Flows	do.	None	D,S	Ridge-top	Supplies ranch headquarters.
318	--	Flows	July 23, 1938	None	S	Bed of creek	Estimated yield, 100 gallons a minute from seeps in bank and bed of creek.
319	1.5	13.3	May 26, 1938	C,W	D,S	River bottoms	Galvanized casing. Estimated yield, 6 gallons a minute. Reported sands-
320	--	--	--	None	N	River valley	Dug well. Wood curb. up frequently.
321	--	--	--	None	N	do.	Dug for irrigation use. Filled with Do. dirt above water level.
322	--	--	--	None	N	do.	Do.
323	--	13.2	May 26, 1938	None	N	do.	Dug well. Wood curb. Dug for irrigation use. Measuring point top of 4-inch rim around casing.
324	3	15.2	do.	None	N	River bottoms	Dug well. Wood curb. Unused when visited, May 26, 1938.
325	--	--	--	None	N	do.	Reported drilled for irrigation use. Filled with dirt.
326	--	--	--	Cf,G, --	I	River valley	Reported irrigates 10 acres. Pump set at 8 feet.
327	--	12	e/	C,W	D,S	do.	Steel casing. Located ⅓ mile north of railroad station. Estimated yield,
328	1	12.2	May 26, 1938	None	N	do.	Reported sands- 3 gallons a minute up frequently.
329	--	--	--	None	N	River bank	Dug well. Reported supply too weak for industrial use. Water seeps into well from river through sand and gravel. Now filled with dirt to 10
330	--	--	--	None	N	do.	Reported supply feet below surface. too weak for industrial use. Now filled with sand and gravel to above water level.

Records of wells and springs in Oldham County--Continued

No.	Distance from Tascosa	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
332	½ mile east	116, N½S½	H.& T.C.R.R., blk. 47	A. G. Morris	--	--	Spring	--
333	¾ mile east	do.	do.	do.	--	--	Spring	--
334	1½ miles east	114, S½N½	do.	-- Bivins	--	--	Spring	--
335	2¼ miles northeast	28, SE¼SE¼	G. & M. blk. 2	do.	--	Old	46	5
336	½ mile north	3, N½S½	E.L.& R.R.R.R., blk. B 5	do.	--	--	Spring	--
337	In Tascosa	3, SE¼SE¼	do.	County School	--	--	--	--
338	¾ mile southwest	5, NE¼NE¼	do.	--	--	--	--	--
339	1¾ miles southwest	5, SW¼SW¼	do.	Don Manson	--	--	25	12
340	1¾ miles west	W. of Sec. 2	do.	J. L. Bivins	--	--	Spring	--
341	2½ miles northwest	8, NE¼NE¼	do.	A. L. Turner	--	--	Spring	--
342	4 miles west	10, SE¼SE¼	do.	do.	--	--	Spring	--
343	4¼ miles west	10, SE¼NW¼	do.	do.	--	--	--	4
344	5 miles west	SE¼SE¼	League 239	Matador Land & Cattle Co.	--	--	50	6
345	6 miles west	18, NW¼SE¼	E.L.& R.R.R.R., blk. B 5	do.	--	--	--	--
d/346	5½ miles west	SW¼NE¼	League 239	do.	--	--	Spring	--
347	do.	do.	do.	do.	--	--	53	6
d/348	do.	do.	do.	do.	--	1920	--	--
d/349	do.	do.	do.	do.	--	--	--	--
350	8½ miles west	SE¼SW¼	League 217	do.	--	--	42	3
351	10½ miles northwest	33, NE¼SE¼	E.L.& R.R.R.R., blk. B 5	do.	--	--	36	6
352	7½ miles northwest	NE¼SE¼	League 217	do.	--	Old	195	--
353	8 miles northwest	SE¼NE¼	do.	do.	--	--	--	--
d/354	7 miles northwest	17, SW¼NE¼	C. S. S. blk. 20	--	--	--	--	--
d/355	do.	do.	do.	--	--	--	--	--
356	6½ miles northwest	19, SW¼SE¼	do.	J. L. Bivins	--	--	173	6

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
332	--	Flows	May 26, 1938	None	D	Hillside	Reported weak supply from seeps between "Red Beds" and sandstone.
333	--	Flows	do.	None	S,I	Valley flat	Estimated yield, 50 gallons a minute from seeps in bottom and sides of artificial pool. Flow from pool irrigates orchard.
334	--	Flows	July 23, 1938	None	D,S	Creek bank	Estimated yield, 50 to 100 gallons a minute from one opening and few seeps in sandstone.
335	1.3	31.3	do.	C,W	S	Rolling	Steel casing.
336	--	Flows	do.	None	S	Marsh	Estimated yield, 200 gallons a minute from seeps in sand and silt.
337	--	--	--	C,H	P	River valley	Dug well. Estimated yield, 5 gallons a minute. Supplies school.
338	--	--	--	C,W	S	do.	Estimated yield, 1½ gallons a minute.
339	2	12.3	May 26, 1938	C,W	D,S	do.	Estimated yield, 3 gallons a minute.
340	--	Flows	July 23, 1938	None	S	Bed of creek	Estimated yield, 150 gallons a minute from aggregate of springs and seeps up stream. Sample taken from creek.
341	--	Flows	do.	None	D,S,I	Valley	Estimated yield, 100 gallons a minute from seeps in sand, gravel and silt.
342	--	Flows	do.	None	N	River bank	Estimated yield, 25 gallons a minute from seeps in gravel in river bank. Irrigates 60 acres.
343	--	--	--	C,W	D,S	Ridge	Located 100 feet north of ranch house.
344	1	35.3	July 24, 1938	C,W	S	Valley flat	Located 1 mile east of Hollycot camp.
345	--	--	--	C,W	D,S	Foot of bluff	
346	--	Flows	July 24, 1938	None	S	Bank of draw	Estimated yield, 25 to 30 gallons a minute from seeps in sandstone-red clay contact.
347	0.3	12.2	July 22, 1938	C,W	S	Edge of draw	Steel casing.
348	1	13.1	July 24, 1938	T,G, 50	N	do.	Reported formerly supplied water for irrigation use.
349	1	24.6	do.	T,G, 35	N	do.	Do.
350	1.1	35.5	do.	C,W	S	do.	Steel casing.
351	1.2	15	do.	C,W	S	Creek bottoms	Located on east bank of Rita Blanca Creek.
352	--	189	do.	C,W	S	Slope	Measuring point was top of casing.
353	--	--	--	C,W	D,S	do.	Located at Matador ranch headquarters.
354	--	--	--	A,E, --	N	Hillside	Formerly partially supplied water used at gravel pit.
355	--	--	--	A,E, --	N	do.	Do.
356	--	--	--	C,W	S	Edge of draw	Steel casing.

Records of wells and springs in Oldham County--Continued

No.	Distance from Tascosa	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
357	6½ miles north	29, NE¼NW¼	C. S. S., blk. 20	-- Bivins	--	Old	174	6
d/ 358	5 miles north	67, near cen.	G. & M., blk. 2	J. L. Bivins	--	--	Spring	--

No.	Distance from Vega	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
401	8 miles northwest	20, NW¼NW¼	blk. H 2	Landergin Bros. Co.	--	--	Spring	--
402	9½ miles north	45, NW¼NW¼	do.	do.	-- Turbin	--	97	4
403	10½ miles north	8, SE¼SW¼	blk. H 3	do.	--	--	Spring	--
404	6 miles northeast	40, SW¼SW¼	G.C.& S.F.R.R., blk. S	E. Herring	--	--	Spring	--
405	do.	40, SE¼SW¼	do.	do.	--	--	67	4
406	do.	39, NW¼NE¼	do.	--	--	--	Spring	--
407	7 miles northeast	40, NW¼NE¼	do.	E. Herring	--	--	36	4
408	8 miles northeast	36 SW¼NW¼	do.	do.	-- Jackson	1929	29	4½
d/ 409	do.	do.	do.	do.	--	1929	21	4½
410	11 miles northeast	26, NW¼NW¼	do.	do.	--	Old	187+	4½
411	13 miles northeast	96, NW¼NW¼	W. M. D. Lee sur.	W. E. Herring	--	Old	--	4½
412	14 miles northeast	cen. S½	League 317	C. T. & W. E. Herring	--	Old	200+	5
413	do.	do.	do.	do.	--	Old	60	--
414	15 miles northeast	NE¼SE¼	do.	do.	--	1937	316	6
d/ 415	15½ miles northeast	78, NW¼NW¼	W. M. D. Lee sur.	--	--	--	2,510	--
416	13 miles northeast	13, SE¼NW¼	G.C.& S.F.R.R., blk. S	W. E. Herring	--	Old	--	5
417	11½ miles northeast	25, near cen.	do.	do.	--	--	Spring	--
418	12½ miles east	6, NE¼SW¼	do.	W. H. Gray	--	Old	123	4

a/ Measuring point was usually top of well curb, top of casing, or top of pipe clamp.
b/ C, cylinder; W, windmill; G, gasoline; T, turbine; Cf, centrifugal; A, air lift; O, oil; Ng, natural gas; B, bucket; D, diesel; H, hand; number indicates horsepower.

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No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
357	3	148.8	July 23, 1938	C,W	S	Draw	Steel casing. Water level measured while pumping. Located in Hartley County near Oldham County line.
358	--	Flows	do.	None	S	Bottom of draw	Reported weak supply from seeps in bottom of small draw.

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power	Use of water	Topographic situation	Remarks
401	--	Flows	May 4, 1938	None	S	Bottom of draw	Estimated yield, 1 gallon a minute from seeps in gray shale.
402	2.3	23.7	May 6, 1938	C,W	D,S	Creek bank	Steel casing. Estimated yield, 3 gallons a minute. Located at "Cow Camp" on west bank of stream.
403	--	Flows	Mar. 29, 1938	None	D	Hillside	Estimated yield, 1 to 2 gallons a minute from openings in side of gravel hill. Supplies ranch headquarters.
404	--	Flows	Mar. 24, 1938	None	S	Creek bank	Strong supply from seeps and openings in light-gray sand-red shale contact in creek bank.
405	--	64	e/	C,W	D,S	Ridge-top	Reported weak supply.
406	--	Flows	Apr. 25, 1938	None	S	Side of creek	Estimated yield, 10 gallons a minute from seeps in creek bank at top of "Red Beds".
407	3.3	30	Mar. 24, 1938	C,W	S	Stream terrace	Water level measured while pumping. Estimated yield, 1 gallon a minute.
408	3.5	25.4	Apr. 25, 1938	C,W	S	Creek bank	20 feet steel casing. Estimated yield, 4 gallons a minute.
409	--	--	--	None	N	do.	Filled with dirt to above water level.
410	--	137+	e/	C,W	S	do.	Estimated yield, 4 gallons a minute.
411	--	--	--	C,W	S	do.	Estimated yield, 2 gallons a minute. Water reported from "Red Beds".
412	1	27.4	Apr. 25, 1938	C,W	D,S	Flat	Estimated yield, 3 gallons a minute. 190 feet of column pipe.
413	--	--	--	C,W	D,S	do.	Estimated yield, 3 gallons a minute. Located at "Cottonwood Camp".
414	--	--	--	C,W	D,S	--	Estimated yield, 5 gallons a minute. Located at "Eagle Camp". Reported
415	--	--	--	None	N	--	Oil test. no water at 185 feet.
416	--	--	--	C,W	S	Bank of draw	Estimated yield, 5 gallons a minute.
417	--	Flows	Apr. 25, 1938	None	S	Bed of creek	Estimated yield, $\frac{1}{2}$ gallon a minute from seeps at top of "Red Beds".
418	0.5	78.5	do.	C,W	S	Slope	Estimated yield, 3 gallons a minute.

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

Records of wells and springs in Oldham County--Continued

No.	Distance from Vega	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
419	10 miles east	21, SW¼NE¼	G.C.& S.F.R.R., blk. S	-- Binford	--	-- Spring		--
420	9½ miles east	21, NE¼SW¼	do.	G. B. Binford	"Doc" Muncey	--	45	4
d/421	9 miles northeast	near cen. sec. 29	--	Elizabeth Herring	Andrew Chambers	1930	800	15⅝
d/422	8 miles northeast	30, SW¼SW¼	G.C.& S.F.R.R., blk. S	Landergin Bros. Co.	--	-- Spring		--
d/423	7 miles east	51, SW¼SW¼	G. & M., blk. M 19	Mrs. E. Herring	--	--	185+	5
d/424	6 miles northeast	53, SE¼SE¼	do.	J. Taylor	--	--	280	5
425	4½ miles northeast	15, SW¼SW¼	G.C.& S.F.R.R., blk. H 1	B. W. Wiseman	--	--	265	4
426	4 miles east	8, NE¼SW¼	do.	A. F. Linger	--	Old	187+	4
427	4¾ miles east	31, NW¼NW¼	G.B.& C.N.G.R.R., blk. K 5	C. T. Everett	--	Old	226	4½
428	6 miles east	30, NE¼NW¼	do.	T. R. Miller	-- Jackson	1927	263	4½
d/429	do.	29, NW¼NE¼	do.	C. B. Funk	--	--	233	4½
d/430	7 miles east	11, SE¼SW¼	do.	G. B. Binford	--	--	260	4½
d/431	8½ miles east	2, SE¼SE¼	G.C.& S.F.R.R., blk. H 1	Mrs. G. B. Binford	"Colonel" Owens	--	226	4½
d/432	14 miles east	4, SW¼SW¼	--	W. H. Gray	--	Old	187	4½
433	13½ miles east	43, SE¼SE¼	G. & M., blk. M 19	do.	--	--	86	4
434	12½ miles east	42, SW¼SW¼	do.	do.	--	--	--	--
d/435	13½ miles east	14, NW¼NE¼	blk. Z 3	-- Cozart	--	Old	240	5
436	14 miles east	13, SW¼SW¼	do.	C. M. Humphrys	--	1927	195	4½
437	13½ miles east	36, NW¼NW¼	do.	B. Gist	--	--	200	--
438	13 miles east	4, NE¼NE¼	do.	J. R. Gouldy	Leo.McDade	1916	204	4½
439	do.	15, SE¼SE¼	do.	Joe Alred	do.	1917	195	4
440	do.	14, SW¼NW¼	do.	City of Wildorado	--	Old	--	--
441	11 miles east	21, SW¼SW¼	do.	J. M. Beasley	--	1916	210	4
442	do.	39, NE¼NE¼	do.	W. B. Hurley	--	Old	225	4½
d/443	10 miles east	18, SE¼NE¼	do.	Ruth Arney	"Doc" Muncey	1936	200	6

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
419	--	Flows	Mar. 25, 1938	None	S	Draw	Estimated yield, 1½ to 2 gallons a minute from openings in sand and conglomerate.
420	0.7	35.6	do.	C,W	D,S	Slope	45 feet wrought iron casing. 4 joints "sucker rods". Reported casing set at top of "Red Beds".
421	--	--	--	None	N	--	Oil test. Reported altitude, 3,664 feet. See log.
422	--	Flows	Mar. 30, 1938	None	N	Bed of draw	Estimated yield, ½ gallon a minute from seeps at contact between gray sandstone and red clay.
423	--	185+	e/	C,W	S	Slope to lake	Reported yield, 1 gallon a minute.
424	--	--	--	C,W	D,S	Flat	280 feet steel casing. 14 joints 3½-inch pipe.
425	1	229.6	Mar. 24, 1938	C,W	D,S	Slope to sink	265 feet wrought iron casing. Estimated yield, 2 gallons a minute.
426	--	187+	e/	C,W	D,S,I	do.	Estimated yield, 3 gallons a minute. Irrigates garden.
427	--	--	--	C,W	S	Gentle slope	Estimated yield, 2 gallons a minute.
428	0.7	248.3	May 31, 1938	C,W	D,S,I	Flat	280 feet steel casing. Reported yield, 3 gallons a minute. Irrigates garden. Waters 180 head of stock.
429	1.5	255.5	Mar. 15, 1938	C,W	N	Gentle slope	288 feet wrought iron casing. Reported unused since 1929.
430	0.8	235.3	Mar. 16, 1938	C,W	N	do.	260 feet wrought iron casing. Reported unused for several months.
431	0.9	212.2	Mar. 25, 1938	C,W	N	Top of rise	226 feet wrought iron casing. Mill out of order. Reported unused for several months.
432	0	27.5	Apr. 25, 1938	C,W	N	Flat	Steel casing. Located in large flat basin.
433	--	--	--	C,W	D,S	Bed of draw	Reported weak supply. Mill runs continuously. Reported water from "Red Beds".
434	--	--	--	C,W	S	do.	Estimated yield, 2 gallons a minute.
435	2.5	218.1	May 31, 1938	None	N	Flat	240 feet steel casing.
436	1.6	163.3	Mar. 19, 1938	C,W	D,S	Slope to lake	195 feet wrought iron casing. Measured 1 foot drawdown after pumping about 1½ gallons a minute for ½ hour.
437	0.4	178.5	Mar. 21, 1938	C,W	D,S	Flat	
438	--	164	e/	C,W	D,S,I	Gentle slope	204 feet steel casing. Reported yield, 3 gallons a minute. Irrigates garden.
439	--	165	e/	C,W	D,S, P,I	do.	195 feet steel casing. Reported yield, 3 gallons a minute.
440	--	--	--	C,W, G,2	P	do.	Supplies city of Wildorado. Irrigates garden.
441	--	--	--	C,W	D,S	Slope to draw	210 feet wrought iron casing. Reported one of best wells in vicinity.
442	1	185.9	Mar. 21, 1938	C,W, G,3	D,S	Ridge-top	217 feet wrought iron casing. 215 feet column pipe. Lake ¼ mile east
443	0	175.8	July 19, 1938	None	N	Gentle slope	200 feet wrought iron casing. Originally drilled to supply water for highway construction. Located 150 feet south of highway. Was dry.

Records of wells and springs in Oldham County--Continued

No.	Distance from Vega	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
d/444	9½ miles east	18, NW¼SE¼	blk. Z 3	Ruth Arney	--	Old	--	[illegible]
445	do.	do.	do.	do.	--	Old	--	[illegible]
446	9 miles east	3, cen. N½	blk. G	-- Binford	--	--	287	4
447	8½ miles southeast	15, NE¼NE¼	G.B.& C.N.G.R.R., blk. K 5	James Watkins	-- McDade	1908	168	4
448	7½ miles east	14, NE¼NW¼	do.	C. T. Everett	--	--	200+	6
449	6½ miles east	28, NE¼NE¼	do.	Chas. Priess	"Colonel" Owens	--	240	4
451	7 miles southeast	26, NW¼NW¼	do.	A. S. Giles Est.	-- McDade	--	137	[illegible]
d/452	5½ miles east	38, SE¼SE¼	do.	J. L. Everett Est.	--	--	--	--
453	4¼ miles east	49, SW¼NE¼	do.	John Hill	"Colonel" Owens	Old	130	4
d/454	do.	48, SW¼NW¼	do.	W. A. Williams	--	--	200	5
455	5½ miles southeast	34, SW¼SW¼	do.	-- Kyle	--	--	185	4
456	4¾ miles southeast	54, NW¼SE¼	do.	Bill Jones	--	--	163	4
d/457	do.	55, NE¼NW¼	do.	V. L. Ridley	--	Old	175	4
d/458	4 miles southeast	66, NW¼NW¼	do.	H. B. Wood	--	--	186	4
459	3½ miles south	95, NE¼NE¼	do.	W. A. Jinks	"Colonel" Owens	1922	200	[illegible]
460	1½ miles southeast	72, SW¼SW¼	do.	Mrs. Emma McNabb	Albert Wiseman	1918	130	4
461	2¼ miles east	69, SW¼NE¼	do.	C. R. Gault	"Colonel" Owens	Old	200	4
d/462	2 miles east	69, NW¼NW¼	do.	B. W. Wiseman	--	Old	192	4½
d/463	1¾ miles east	70, SW¼NW¼	do.	-- Ivy	--	Old	190	4
464	3 miles east	51, NE¼NW¼	do.	Roddie Horwell	"Doc" Reeves	1934	210	4
d/465	3 miles northeast	13, SE¼SE¼	C.C.& S.F.R.R., blk. H 1	Panhandle Bldg. & Loan Co.	do.	1929	226	4
466	4 miles northeast	11, NW¼S½	blk. H 2	W. N. Miller	"Colonel" Owens	--	--	4
467	4½ miles northeast	11, SW¼N½	do.	Chas. Slutz	--	--	224+	--
d/468	5 miles north	14, SW¼SE¼	do.	C. E. Baker, et al	--	--	155	6
d/470	3½ miles north	8, SW¼SE¼	do.	Henry Steward	"Doc" Reeves	--	173	4

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No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
444	--	--	--	None	N	Gentle slope	Filled with dirt. Reported strong supply originally.
445	--	--	--	C,W, G,E	D,S,I	do.	Steel casing. Irrigates garden.
446	0.5	196.4	Mar. 19, 1938	C,W	S	Flat	227 feet wrought iron casing. Located near center of north ½ Jos. Binford strip about ½ mile north of railway.
447	--	--	--	C,W	D,S	Slope to draw	168 feet wrought iron casing.
448	0.7	178.3	Mar. 15, 1938	C,W	S	do.	Water level measured while pumping. Estimated yield, 1½ gallons a minute.
449	2	226.6	Mar. 16, 1938	C,W	D,S	Flat	240 feet wrought iron casing. Reported weak supply.
451	0.1	152.2	Mar. 15, 1938	C,W	D,S	Slope	Reported weak supply.
452	--	--	--	None	N	Gentle slope	Drilled as test well. Dry hole. Reported several dry tests near.
453	--	--	--	C,W	S	Slope	Reported 9 joints "sucker rods" in hole. Waters 75 head of stock.
454	2.9	179.2	Mar. 17, 1938	C,W	D,S	Flat	200 feet steel casing. Waters 108 head of stock.
455	2.5	168.5	Mar. 15, 1938	C,H	N	Hilltop	Reported only used during planting and harvesting of wheat.
456	0.2	152	Mar. 18, 1938	C,W	D,S	Slope	Wrought iron casing. Water level questionable.
457	2.6	160.9	do.	C,W	D,S	Flat	175 feet wrought iron casing.
458	1.8	172.3	May 19, 1938	C,W	N	Slope to lake	Reported unused for several months.
459	--	165	e/	C,W	D,S	do.	200 feet wrought iron casing. Reported strong supply.
460	1.4	164.8	Mar. 18, 1938	C,W	D,S	do.	165 feet wrought iron casing. Large lake ½ mile east was dry.
461	2	184	Mar. 17, 1938	C,W	D,S	Flat	200 feet wrought iron casing.
462	0.6	184.9	May 31, 1938	C,W	N	do.	Located 125 feet south of highway.
463	1	168.3	Mar. 17, 1938	None	N	Gentle slope	Reported unused for about 10 years.
464	1.3	195.4	do.	C,W	S	do.	210 feet wrought iron casing. Estimated yield, 2 gallons a minute. Waters 400 to 500 head of stock.
465	--	--	--	C,W	D,S	Flat	Reported strong supply.
466	--	--	--	C,W	D,S	do.	No water above 230 feet.
467	2.1	209.3	Mar. 28, 1938	C,W	D,S	do.	
468	2	142.5	Mar. 29, 1938	None	N	Slope	Reported unused for several months.
470	2.1	161.1	Mar. 24, 1938	C,W	N	Gentle slope	Measuring point was below surface.

Records of wells and springs in Oldham County--Continued

No.	Distance from Vega	Section	Range, township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
d/471	3 miles north	53, SE¼SW¼	G.C.& S.F.R.R., blk. H 1	Wimberly & Giles	"Colonel" Owens	--	220	6
472	1⅝ miles northeast	12, SW¼SW¼	do.	T. B. Jones	do.	--	220	4½
d/473	do.	11, NW¼SW¼	do.	Joe Hindman	--	1929	--	--
474	In Vega	--	--	--	--	--	--	4½
475	do.	90, SE¼NW¼	G.B.& C.N.G.R.R., blk. K 5	City of Vega	A. H. Masrin	1931	257	8
d/476	do.	90, NW¼SE¼	do.	Rock Island R. R.	--	1918	296	--
477	do.	90, NE¼SW¼	do.	do.	--	1916	296	--
478	½ mile southwest	92, NE¼NE¼	do.	H. R. Shields Est.	--	Old	200	4½
d/479	do.	91, SE¼SE¼	do.	--	--	Old	--	--
d/480	1 mile northwest	33, NW¼SE¼	G.C.& S.F.R.R., blk. H 1	--	--	Old	--	6½
481	3 miles northwest	19, SW¼NW¼	do.	J. Montgomery	--	--	132	6
d/482	do.	20, NE¼SE¼	do.	Wilbur Eastman	--	Old	132	4
d/483	2½ miles northwest	19, SE¼SW¼	do.	C. Steward	--	Old	147	4
d/484	2 miles west	1, NE¼NW¼	G.B.& C.N.G.R.R., blk. K 6	--	--	--	--	--
d/485	do.	1, SE¼NW¼	do.	--	--	--	118	6
486	do.	do.	do.	A. L. McNabb	--	--	183	4½
487	2½ miles southwest	2, NW¼SW¼	do.	C. M. McNabb	--	Old	111+	4½
488	3¾ miles southwest	18, NW¼SW¼	do.	H. Green	"Colonel" Owens	1910	230	4½
489	4½ miles southwest	16, NW¼NE¼	do.	A. B. Spimhirne	do.	1914	240	
490	5 miles southwest	37, NE¼NE¼	do.	H. J. Walker	do.	1909	280	4½
d/491	7 miles southwest	45, NE¼SW¼	do.	O. O. Slutz	do.	1911	250	5
d/492	3½ miles southwest	22, NE¼NE¼	do.	A. L. McNabb	--	1911	227	--

C. R. Follett and G. H. Shafer, Project Superintendents

No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
471	0.7	190	Mar. 28, 1938	C,W	D,S	Flat	220 feet wrought iron casing. Reported unused for several weeks.
472	0.9	194.8	do.	C,W	D,S	do.	220 feet wrought iron casing. Reported strong supply.
473	--	--	--	None	N	Slope	Casing covered at top by iron barrel. Reported strong supply when drilled
474	--	--	--	C,W	D,S,I	Flat	Steel casing. No water to in 1929. 184 feet. Irrigates vegetables and trees. Located 1 block north of
475	--	200	e/	T,E, 10	P	--	257 feet steel Methodist Church. casing. 40 feet screen at bottom. Pump set at 220 feet. Reported yield, 90 gallons a minute. Water reported at 200 feet. Quicksand, 200 to 250 feet; rock from 250 to 257 feet.
476	--	--	--	C,G, 10	D,Ind	Gentle slope	Located north of track and east of depot.
477	--	--	--	C,G, 10	D,Ind	do.	Reported yield, 60 gallons a minute. Treated for boiler use.
478	--	--	--	C,W	D,S,I	Flat	Steel casing. Irrigates garden.
479	--	--	--	C,W	N	do.	Reported weak supply.
480	--	--	--	C,W	S	do.	Steel casing. Reported strong supply. Obstructed at 60 feet.
481	--	--	--	C,W	S,I	do.	Steel casing. Estimated yield, 4 to 5 gallons a minute. Reported pumped continuously for 2 years. Irrigates
482	0	114.8	Apr. 13, 1938	C,W	N	Edge of scarp	132 feet wrought iron small garden. casing.
483	0	125.6	do.	C,W	N	Flat	147 feet wrought iron casing.
484	--	--	--	None	D,S	do.	Reported weak supply.
485	--	--	--	C,W	D,S	do.	Estimated yield, 2 gallons a minute.
486	--	--	--	C,W	D,S	do.	Estimated yield, 2 gallons a minute. No water at 185 feet.
487	--	--	--	C,W	S	Slope	Estimated yield, $2\frac{1}{2}$ gallons a minute.
488	1.8	218.5	Apr. 11, 1938	C,W, G, $1\frac{1}{2}$	D,S	Flat	230 feet wrought iron casing.
489	0.5	217.4	do.	C,W	D,S	do.	240 feet wrought iron casing.
490	--	240	e/	C,W	D,S	do.	280 feet wrought iron casing. Reported originally drilled to 260 feet and later deepened to 280 feet. Estimated yield, $1\frac{1}{2}$ gallons a minute.
491	0.3	238.4	Mar. 31, 1938	None	N	do.	250 feet wrought iron casing.
492	0.0	208.9	Apr. 11, 1938	C,W	N	Gentle slope	

Records of wells and springs in Oldham County--Continued

No.	Distance from Vega	Section	Range township, block, survey or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
493	3¾ miles west	30, SW¼SE¼	G.C.& S.F.R.R., blk. H 1	S. B. Criswell	-- Wilson	1928	215	4
d/494	4¾ miles west	40, NW¼NE¼	G.B.& C.N.G.R.R., blk. K 6	C. R. Gault	--	Old	181	4½
495	6½ miles west	28, SW¼NW¼	G.C.& S.F.R.R., blk. H 1	W. C. Benefield	--	--	152	4½
d/496	4¾ miles northwest	40, SE¼SW¼	do.	Landergin Bros. Co.	--	--	117	5½
497	5½ miles northwest	NW¼NW¼	blk. L	Chafin Glasscock	--	--	111	4

a/ Measuring point was usually top of well curb, top of casing, or top of pipe clamp.
b/ C, cylinder; W, windmill; G, gasoline; T, turbine; Cf, centrifugal; A, air lift; O, oil; Ng, natural gas; B, bucket; D, diesel; H, hand; number indicates horsepower.

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No.	Height of measuring point above ground (ft.) a/	Water level: Depth below measuring point (ft.)	Water level: Date of measurement	Pump and power b/	Use of water c/	Topographic situation	Remarks
493	--	115	e/	C,W	N	Side of draw	215 feet wrought iron casing. Reported pumps dry in heavy wind after 45 minutes. Pump set 6 feet from bottom.
494	0.5	157.3	May 17, 1938	C,W	N	Gentle slope	Steel casing. Reported weak supply.
495	0.5	139.3	do.	C,W	D,S,I	Slope to lake	Estimated yield, 3 gallons a minute. Irrigates garden.
496	1	110.1	Apr. 13, 1938	None	N	Flat	117 feet wrought iron casing.
497	1	109	May 4, 1938	C,W	D,S,I	Gentle slope	Steel casing. Reported yield, 2 gallons a minute. Irrigates garden.

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

Table of Drillers' Logs, Oldham County, Texas

Driller's log of well 9

Big State Oil & Gas Co., J. M. Shelton ranch, 22½ miles northwest of Adrian.

	Thickness (feet)	Depth (feet)
Lime	16	16
Brown lime	10	26
Soft blue clay	8	34
Red rock	93	127
Gravel	10	137
Red rock	153	290
Sand	40	330
Red rock	5	335
Lime	65	400
Shale	50	450
White lime	180	630
White water sand	5	635
Brown lime	160	795
Red sand	35	830
White sand	15	845
Salt	3	848
Red sand	22	870
Red rock	25	895
Red sand	25	920
Shale	8	928
Sand	652	1580
Gray lime	20	1600
Red rock	50	1650
White rock salt	50	1700
Gray lime	25	1725
Red rock	370	2095
Lime shell	10	2105
Red rock	65	2170
Broken lime	20	2190
Red rock	240	2430
Shell and gravel, water	3	2433
Red rock	22	2455
Caving gravel	7	2462
Red granite	38	2500
Granite sand	25	2525
Red rock	6	2531
Granite shell	1	2532
Granite sand	18	2550
Red granite	30	2580
TOTAL DEPTH		2580

CASING RECORD: 371 feet of 15½-inch; 930 feet of 12½-inch; 1,700 feet of 10-inch; and 2,463 feet of 8¼-inch casing.

Driller's log of well 17

J. M. Shelton ranch, 20 miles northwest at Adrian.

	Thickness (feet)	Depth (feet)
Soft gray sandstone	50	50
Blue clay	1	51
Gray sand	13	64
Hard lime	1	65
Hard gray lime	15	80
Hard red clay	5	85

Driller's log of well 17 --Continued

	Thickness (feet)	Depth (feet)
Red rock	185	270
White gypsum	5	275
Red rock	30	305
Yellow water sand	7	312
Red rock	20	332
Red sand	42	374
Red rock	11	385
Broken gray lime	23	408
Blue shale	7	415
Gray lime	140	555
Blue shale	5	560
Gray lime	87	647
Brown shale	13	660
Gray water sand	7	667
Gray lime	45	712
Brown shale	10	722
Gray lime	25	747
Blue shale	14	761
Gray shale	7	768
Broken lime	2	770
Red rock	3	773
Brown sandy shale	17	790
Gray sand	65	855
Blue shale	12	867
Gray lime	11	878
Yellow sand	2	880
Red rock	7	887
White sand, salt water	10	897
TOTAL DEPTH		2590

CASING RECORD: 320 feet of 20-inch; 1,037 feet of 15½-inch; 1,966 feet of 12½-inch; 2,400 feet of 10-inch casing.

Driller's log of well 196

Rock Island R. R., 11 miles west of Adrian.

	Thickness (feet)	Depth (feet)
Surface soil	10	10
Variegated shale	200	210
Gray shale	65	275
Soft red shale	20	295
Soft white sandstone	82	377
Soft red shale	5	382
White sandstone, water	63	445
Light-colored variegated shale	5	450
TOTAL DEPTH		450

CASING RECORD: 435 feet of 7-inch drop line; 10 feet of blank 10-inch pipe; 10 feet of perforated pipe with ½-inch drain holes.

Table of Drillers' Logs, Oldham County, Texas--Continued

	Thickness (feet)	Depth (feet)
Driller's log of well 310		
Landergin Bros. ranch, 13 miles southwest of Tascosa.		
Formation unknown	14	14
Sand	6	20
Shale	10	30
Sandy lime	8	38
Clay	7	45
Red rock	25	70
Lime	4	74
Shale	46	120
Red rock	40	160
Yellow shale	25	185
Red shale	91	276
Sandy shale	22	298
Shale	92	390
Sandy lime	28	418
Sand	14	432
Shale	32	464
Gypsum	11	475
Lime	4	479
Shale	18	497
Red rock	8	505
Shale	40	545
Red rock	9	554
Shale	31	585
Sandy shale	10	595
Red rock	59	654
Gypsum	14	668
Red rock	4	672
Quicksand	18	690
Red rock	15	705
Sand	45	750
Gypsum	4	754
Quicksand	26	780
Red rock and gypsum	60	840
Salt	110	950
Lime	20	970
Shale	5	975
Gypsum	5	980
Salt	30	1010
Lime	15	1025
Shale	5	1030
Red rock	60	1090
Lime and gypsum	58	1148
Shale	5	1153
Lime	7	1160
Rock and salt	12	1172
Lime	23	1195
Salt	73	1268
Gypsum	7	1275
Lime	15	1290
Shale	5	1295
Lime	55	1350
Salt and gypsum	60	1410

	Thickness (feet)	Depth (feet)
Driller's log of well 310--Continued		
Rock and salt	130	1540
Lime	25	1565
Lime and gypsum	25	1590
Shale	10	1600
Salt	25	1625
Gypsum	75	1700
Lime	25	1725
Sand	2	1727
Gypsum and salt	48	1775
Red rock	105	1880
Gypsum, rock and salt	125	2005
Shale and salt	120	2125
Sand	10	2135
Salt	55	2190
Sandy shale and salt	35	2225
Water sand	15	2240
Shale, salt and gypsum	470	2710
Lime	10	2720
Shale	8	2728
Lime	12	2740
Shale and rock	65	2805
Gypsum	15	2820
Lime	20	2840
Shale	5	2845
Sand	15	2860
Shale, gypsum and rock	115	2975
Salt	5	2980
Shale, gypsum and rock	45	3025
Shale	15	3040
Gypsum	10	3050
Shale	5	3055
Salt	45	3100
Shale	25	3125
Sandy shale	125	3250
Shale, gypsum and rock	520	3770
Shale	10	3780
Shale and lime shells	50	3830
Lime, gypsum and shale	65	3895
Shale	10	3905
Lime	118	4023
Shale	4	4027
Lime	8	4035
Shale	5	4040
Lime	45	4085
Sand	25	4110
TOTAL DEPTH		5645

CASING RECORD: 11 feet of 24-inch; 455 feet of 20-inch; 944 feet of 15½-inch; 1,319 feet of 12⅓-inch; 2,253 feet of 10-inch; 4,020 feet of 8¼-inch; and 4,917 feet of 5 3/16-inch casing.

Table of Drillers' Logs, Oldham County--- continued

	Thickness (feet)	Depth (feet)
Driller's log of well 421		
Elizabeth Herring tract, 9 miles northeast of Vega.		
Pink rock- - - - -	20	20
Red shale- - - - -	85	105
Sandy shale - - - -	50	155
Light-colored sandy shale- - - - -	60	215
Brown mixed shale- - -	75	290
Dolomite - - - - -	10	300
Yellow mixed shale - -	78	378
Gray water sand- - - -	22	400
Red shale- - - - -	95	495
Sandy shale- - - - -	26	521
Shale- - - - - -	4	525
Lime - - - - - -	30	555
Gypsum and lime - - -	20	575

	Thickness (feet)	Depth (feet)
Driller's log of well 421-Continued		
Red sandy shale- - - -	25	600
Dolomite- - - - - -	10	610
Dolomite and shale - - -	10	620
Sandy shale- - - - -	10	630
Red shale- - - - - -	10	640
Sandy shale - - - - -	10	650
Red shale and lime - - -	10	660
Red shale and salt - - -	20	680
Salt- - - - - - -	55	735
Red sandy shale and salt- - - - - - -	25	760
Red shale and dolomite - -	30	790
Dolomite- - - - - -	10	800
TOTAL DEPTH- - - - -		800
CASING RECORD: 607 feet of $15\frac{1}{2}$ inch casing.		

Logs of test wells drilled by W. P. A. labor in Oldham County, Texas
Samples examined and classified by C. R. Follett and G. H. Shafer,
Project Superintendents

	Thickness (feet)	Depth (feet)
Well 101		
Bed of dry lake, NE¼NE¼ sec. 10, blk. K 11, G. C. & S. F. R. R. survey, 2¼ miles southeast of Adrian.		
Brown sandy surface soil -	3	3
Red sand, caliche and clay-	5	8
Rock - - - - -		8
May 28, 1938.		
Well 102		
Bed of dry lake, NE¼NE¼ sec. 10, blk. K 11, G. C. & S. F. R. R. survey, 2¼ miles southeast of Adrian.		
Brown sandy surface soil - -	4	4
Reddish-brown sandy clay - -	8	12
Brown sandy clay and caliche - - - - -	10	22
Light-gray colored clay and caliche - - - - -	10	32
May 28, 1938.		
Well 103		
Bed of dry lake, NE¼NE¼ sec. 10, blk. K 11, G. C. & S. F. R. R. survey, 2¼ miles southeast of Adrian.		
Brown sandy surface soil -	18	18
Gray sandy clay and caliche	9	27
Bluish-gray sandy clay - -	11	38
Struck water at 28 feet, May 28, 1938.		
Well 104		
Bed of dry lake, NE¼NE¼ sec. 10, blk. K 11, G. C. & S. F. R. R. survey, 2¼ miles southeast of Adrian.		
Brown sandy surface soil -	6	6
Reddish-brown silty sand and clay - - - - - -	7	13
Gray silty sand and clay -	11	24
Reddish-brown sandy clay with black streaks - -	3	27
Pink sand - - - - -	5	32
White sand - - - - -	17	49
May 28, 1938.		
Well 105		
Bed of dry lake, NW¼NW¼ sec. 2, blk. B, 2½ miles southeast of Adrian.		
Brown sandy surface soil -	3	3
Pink caliche, caliche pebbles, sand and clay -	22	25
May 28, 1938.		

	Thickness (feet)	Depth (feet)
Well 106		
Bed of small dry lake, NW¼NW¼ sec. 2, blk. B, 2½ miles southeast of Adrian.		
Brown sandy surface soil -	8	8
Red sandy clay - - - -	4	12
Red sand, clay, caliche, and caliche pebbles - - -	5	17
Red sand clay and caliche-	12	29
May 28, 1938.		
Well 108		
Bed of dry lake, NW¼SW¼ sec. 2, blk. B, 2¼ miles east of Adrian.		
Brown sandy surface soil -	11	11
Red sand and clay - - -	22	33
Pink caliche, sand, and clay - - - - - -	7	40
May 25, 1938.		
Well 109		
Bed of dry lake, NW¼SW¼ sec. 8, blk. B, 2¼ miles east of Adrian.		
Brown sandy surface soil -	2	2
Pink caliche and reddish sand with some clay - -	34	36
May 25, 1938.		
Well 110		
Bed of small draw, NE¼SE¼ sec. 1, blk. B, 2¼ miles east of Adrian.		
Brown sandy surface soil -	3	3
Pink caliche, sand, and clay - - - - -	24	27
May 24, 1938.		
Well 111		
Fork of small draw, NE¼SE¼ sec. 1, blk. B, 2¼ miles east of Adrian.		
Brown sandy surface soil -	3	3
Pink caliche, sand, and clay - - - - -	22	25
May 24, 1938.		
Well 118		
Bed of dry lake, S½ sec. 3, Gregg County School Land, 3¾ miles east of Adrian. This log is one of six logs shown graphically on group 118 cross section in back of this report.		
Brown sandy surface soil -	5	5
Gray sandy clay - - -	2	7
Pink sandy clay - - -	1	8
Yellow and gray clay with rust-colored stains - -	19	27

(Continued on next page)

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

	Thickness (feet)	Depth (feet)
Well 118--(Continued)		
White silty sand	11	38
Pink silty sand	15	53
June 14, 1938.		

Well 146

Bed of small draw, NW¼NE¼ sec. 35, blk. K 11, G. C. & S. F. R. R. survey, 2¾ miles south of Adrian.

Brown sandy surface soil and caliche	8	8
Reddish-colored clay and caliche	4	12
Brown sandy surface soil and caliche	3	15
Reddish-colored sandy clay	4	19
May 17, 1938.		

Well 147

Bed of small draw, NW¼NE¼ sec. 35, blk. K 11, G. C. & S. F. R. R. survey, 2¾ miles south of Adrian.

Brown sandy surface soil	2	2
Caliche, with some sand and clay	10	12
Dark-red and bluish-gray sandy clay	5	17
May 17, 1938.		

Well 148

Bed of small draw, NW¼NE¼ sec. 35, blk. K 11, G. C. & S. F. R. R. survey, 2¾ miles south of Adrian.

Reddish-brown sandy surface soil	2	2
Caliche, pink sand and clay	7	9
Fine-grained gray silty sand and clay	1	10
Dark-red sandy clay	2	12
May 17, 1938.		

Well 149

Bed of small draw, NW¼NE¼ sec. 35, blk. K 11, G. C. & S. F. R. R. survey, 2¾ miles south of Adrian.

Brown sandy surface soil	5	5
Red sandy clay and caliche	5	10
Dark-red and bluish-gray sandy clay	8	18
May 17, 1938.		

	Thickness (feet)	Depth (feet)
Well 153		
Bed of dry lake, NE¼SW¼ sec. 37, blk. K 11, G. C. & S. F. R. R. survey, 1¼ miles southwest of Adrian.		
Brown sandy surface soil	4	4
Blue-gray sandy clay	2	6
Pink sand and gray clay	6	12
Pink and gray sand and clay with stains	4	16
May 13, 1938.		

Well 154

Bed of dry lake, NE¼SW¼ sec. 37, blk. K 11, G. C. & S. F. R. R. survey, 1¼ miles southwest of Adrian.

Brown sandy surface soil	2	2
Blue-gray sandy clay	2	4
Yellow sand	1	5
Pink sandy clay	5	10
Pink and gray sandy clay with rust-colored stains	9	19
Fine-grained yellow sand	3	22
Dark-red clay	4	26
Struck water at 19 feet. May 13, 1938.		

Well 156

Edge of dry lake, SE¼NW¼ sec. 42, blk. K 11, G. C. & S. F. R. R. survey, 1¾ miles southwest of Adrian.

Brown sandy surface soil	2	2
Reddish-brown sandy clay	5	7
Grayish-brown sandy clay	2	9
Gray sandy clay	2	11
Blue-gray and pink clay with rust-colored stains	9	20
Dark-red sandy clay	1	21
Struck water at 19 feet. Water level, 18 feet below top of ground, 8 hours after hole completed. May 13, 1938.		

Well 157

Edge of dry lake, SE¼NW¼ sec. 42, blk. K 11, G. C. & S. F. R. R. survey, 2 miles southwest of Adrian.

Brown sandy surface soil	1	1
Reddish-brown sandy clay and gypsum	7	8
Sandy gray clay	2	10
Gray, pink and blue sandy clay, with rust-colored stains	10	20
Gray sandy clay with rust-colored stains	2	22
Water level, 17.7 feet below top of ground, 7 days after hole completed. May 13, 1938.		

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

	Thickness (feet)	Depth (feet)
Well 158		
Bed of dry lake, W½ sec. 37, blk. K 11, G. C. & S. F. R. R. survey, 1¾ miles southwest of Adrian. This log is one of 20 logs shown graphically on group 158 cross section in back of this report.		
Brown surface soil	6	6
Gray clay and sand	3	9
Pinkish-gray clay and sand	3	12
Yellowish-gray sandy clay with rust-colored stains	8	20
Bluish-gray sandy clay	6	26
Grayish-pink sandy clay	9	35
Dark-red sandy clay	6	41
Water level, 21.4 feet below top of ground, ½ hour after hole completed. Apr. 13, 1938.		
Well 159		
Bed of dry lake, SE¼SE¼ sec. 37, blk. K 11, G. C. & S. F. R. R. survey, 1¾ miles southwest of Adrian. This log is one of 14 logs shown graphically on group 159 cross section in back of this report.		
Brown sandy surface soil	3	3
Reddish-brown sandy clay	5	8
Gray sand and clay	1	9
Pink sand	1	10
Gray and pink sandy clay with rust-colored stains	8	18
Bluish-gray sandy clay	4	22
Pink sandy clay	6	28
Red sandy clay	2	30
Dark-red clay	4	34
Water level, 16.8 feet below top of ground, 4 hours after hole completed. May 10, 1938.		
Well 450		
Bed of dry lake, S½ sec. 27, blk. K 5, G. B. & C. N. G. R. R. survey, 7 miles southeast of Vega. This log is one of 8 logs shown graphically on group 450 cross section in back of this report.		
Black waxy surface soil	6	6
Gray clay and sand with pebbles	5	11
Gray and yellow clay and sand	11	22
Red clay, sand and chalk pebbles	24	46
Pink clay, sand, caliche pebbles and rock	1	47
Rock		47
Mar. 18, 1938.		
Well 469		
Bed of dry lake, SE¼ sec. 9, blk. H 2, 4¼ miles north of Vega. This log is one of 8 logs shown graphically on group 469 cross section in back of this report.		
Black waxy surface soil	5	5
Brown sandy clay	12	17
Gray sandy clay	5	22
Gray and yellow clay and sand	5	27
Light-brown sand and clay	10	37
Light-brown sand and pebbles	25	62
Light-buff-colored sand and chalk pebbles	8	70
Apr. 4, 1938.		

Partial analyses of water from wells in Oldham County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, and E. W. Lohr, Chemist, U. S. Department of the Interior, Geological Survey; by D. F. Riddell and H. T. Davidson, Chemists; and J. A. Harmaza, Martin Wieland, and Jack Ramsey, Assistant Chemists. Nitrate determined by E. W. Lohr. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)	Fluoride (F)
3	J. M. Shelton	--	July 20, 1938	-	-	-	-	-	40	25	b/	-	-
4	do.	Spring	do.	288	-	-	-	195	64	24	b/	-	-
5	do.	Spring	do.	303	52	20	33	232	52	24	b/	213	1.0
6	do.	124	do.	262	54	22	10	207	28	14	32	223	-
8	do.	Spring	July 21, 1938	177	-	-	-	183	a/	2	b/	-	-
11	do.	185	do.	226	44	13	21	165	44	14	b/	163	-
12	do.	213	do.	227	44	20	13	195	36	14	b/	193	1.0
13	do.	-	do.	266	-	-	-	183	48	18	b/	-	-
18	do.	Spring	do.	-	-	-	-	-	40	13	b/	-	-
19	Martha Houghton	-	July 22, 1938	225	-	-	-	165	40	12	b/	-	-
22	Malcom Shelton	43	do.	224	-	-	-	220	20	7	b/	-	-
26	Matador Land & Cattle Co.	97	do.	417	58	56	15	317	109	23	b/	374	0.7
32	do.	78	do.	245	-	-	-	207	32	12	b/	-	-
34	do.	55	do.	230	35	36	2	244	28	[illegible]	b/	237	0.5
37	do.	Spring	May 4, 1938	185	50	10	9	195	12	8	b/	166	-
38	do.	Spring	May 3, 1938	225	44	17	20	226	21	9	b/	181	0.8
40	do.	Spring	do.	214	36	20	21	232	15	8	b/	172	-
42	do.	10	do.	264	-	-	-	232	29	21	b/	-	-
43	do.	10	do.	325	63	12	46	293	33	21	b/	208	0.5
44	do.	170	do.	-	-	-	-	-	21	22	b/	-	-
45	do.	-	do.	229	-	-	-	220	15	12	b/	-	-
46	do.	149	do.	508	46	36	105	488	66	15	b/	262	-
47	do.	Spring	do.	599	55	47	113	506	83	52	b/	329	-
48	do.	Spring	May 17, 1938	171	42	7	14	165	12	8	b/	135	-
49	do.	94	May 3, 1938	520	76	32	66	287	152	44	b/	320	0.5
50	do.	101	May 17, 1938	815	72	67	125	476	291	26	b/	457	0.4
51	do.	Spring	do.	455	47	23	95	366	92	18	b/	214	0.7
52	do.	Spring	do.	384	66	35	18	305	104	12	b/	336	-
55	--	184	Apr. 19, 1938	377	56	17	65	311	66	20	b/	211	-

a/ Sulphate less than 10 parts per million.
b/ Nitrate less than 20 parts per million.

Partial analyses of water from wells in Oldham County--(Continued)

Results are in parts per million

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)	Fluoride (F)
56	--	117	Apr. 19, 1938	276	66	10	23	232	58	5	b/	206	0.3
57	--	200	do.	-	-	-	-	-	132	6	b/	-	-
63	Landergin Bros.Co.	271	June 7, 1938	655	104	52	58	433	214	14	b/	472	0.2
64	--	200	Apr. 19, 1938	490	109	29	25	342	152	7	b/	393	-
66	--	-	Apr. 20, 1938	-	-	-	-	-	33	6	b/	-	-
67	Landergin Bros.Co.	-	do.	289	-	-	-	256	45	10	b/	-	-
68	do.	Spring	do.	219	43	14	20	189	29	10	b/	163	-
69	do.	Spring	do.	170	40	10	10	159	12	5	b/	141	0.1
71	do.	-	do.	509	44	61	60	427	123	11	b/	363	-
74	J. N. Ivy	Spring	Apr. 12, 1938	314	64	18	34	317	25	17	b/	236	0.7
75	do.	Spring	do.	224	50	20	11	256	12	5	b/	207	-
76	do.	Spring	June 6, 1938	225	56	17	7	256	12	2	b/	211	0.3
77	W.H. Grublekey	110	do.	326	33	35	40	256	44	38	b/	226	-
83	Mary Monohan	120	May 10, 1938	254	-	-	-	256	21	9	b/	-	-
86	Matador Land & Cattle Co.	Spring	May 20, 1938	281	-	-	-	244	37	18	b/	-	-
87	do.	Spring	do.	313	-	-	-	268	37	26	b/	-	-
88	do.	Spring	do.	243	44	8	47	256	12	4	b/	140	-
89	do.	150	May 2, 1938	347	19	15	100	317	41	16	b/	109	-
90	J. P. Collier	120	May 27, 1938	370	76	27	26	354	28	14	25	302	0.9
91	do.	125	do.	322	33	15	74	305	28	12	b/	144	1.0
96	T. Chapman	95	do.	318	23	15	83	299	26	12	b/	119	-
97	C. Glasscock	-	do.	815	40	52	183	384	222	97	32	312	-
113	P. M. McAdoo	220	May 17, 1938	611	10	11	221	488	115	14	b/	72	4.3
117	Gist & Gist	121	June 14, 1938	313	51	29	30	311	36	14	b/	248	-
119	do.	175	May 17, 1938	-	-	-	-	-	32	5	b/	-	-
121	Chafin Glasscock	165	Apr. 13, 1938	340	37	39	33	232	66	44	b/	254	-
123	C. Glasscock	200	May 17, 1938	338	50	44	13	281	41	34	b/	307	-
129	H. Creitz	110	Apr. 14, 1938	364	34	27	64	232	70	47	b/	197	-
131	Dr. C. E. Hawn	110	May 11, 1938	366	26	27	74	262	70	30	b/	177	-
133	J. P. Collier	135	May 25, 1938	311	30	25	57	262	40	22	b/	175	2.2
134	H. Klein	120	do.	336	38	25	56	256	57	34	b/	195	-
137	B. & R. D. Gist	155	Apr. 26, 1938	296	34	25	46	268	37	16	b/	185	1.2
152	C. Glasscock	20	May 20, 1938	1,208	28	37	390	817	287	54	b/	223	10

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

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

Results are in parts per million.

Well No.	Owner	Depth of well	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)	Fluoride (F)
154	W. P. A. Test	26	May 13, 1938	1,010	16	20	345	665	343	51	b/	122	-
156	do.	21	do.	1,067	-	-	-	1,000	140	31	b/	-	-
157	do.	22	do.	20,061	420	924	4,995	488	9,946	3,460	64	4,850	6.6
158-5	do.	27	Apr. 13, 1938	25,926	728	845	6,491	720	15,938	1,570	b/	5,295	-
158-7	do.	33	Apr. 14, 1938	33,175	931	1,793	7,194	610	20,487	2,470	b/	9,708	-
158-8	do.	37	do.	44,160	-	-	-	573	26,832	3,630	b/	-	-
158-9	do.	31	Apr. 15, 1938	49,971	-	-	-	525	30,620	3,940	-	-	-
158-10	do.	43	Apr. 18, 1938	51,516	998	2,725	11,791	519	31,197	4,550	-	13,705	-
158-11	do.	38	do.	44,933	-	-	-	500	27,078	3,940	-	-	-
158-12	do.	34	Apr. 25, 1938	6,240	127	164	1,713	220	3,500	620	b/	991	4.2
158-13	do.	37	do.	17,269	370	485	4,476	878	10,296	1,210	b/	2,920	-
158-14	do.	29	Apr. 26, 1938	4,872	24	35	1,690	1,670	1,997	300	b/	202	-
158-15	do.	24	do.	2,711	-	-	-	1,489	935	100	b/	-	-
158-16	do.	29	Apr. 27, 1938	2,182	24	37	735	1,148	758	64	b/	213	-
158-17	do.	26	do.	7,648	-	-	-	1,111	4,094	600	b/	-	-
158-18	do.	36	Apr. 28, 1938	13,941	-	-	-	745	8,043	1,240	b/	-	-
158-19	do.	30	do.	27,169	-	-	-	646	15,962	2,560	b/	-	-
158-20	do.	31	Apr. 29, 1938	31,641	-	-	-	549	18,955	2,760	b/	-	-
159-1	do.	26	May 2, 1938	1,193	32	37	380	806	262	64	b/	233	9.7
159-2	do.	22	Apr. 29, 1938	379	-	-	-	378	25	12	b/	-	-
159-3	do.	15	May 9, 1938	275	12	3	98	281	21	3	b/	42	-
159-4	do.	32	do.	676	-	-	-	598	108	21	b/	-	-
159-5	do.	21	do.	1,697	16	18	623	1,232	395	25	b/	116	-
159-6	do.	21	do.	2,370	24	58	842	1,965	436	44	b/	296	-
159-7	do.	24	May 10, 1938	4,031	22	30	1,464	2,280	1,268	114	b/	178	-
159-8	do.	30	do.	5,684	141	108	1,630	604	2,993	515	b/	796	-
159-9	do.	34	do.	26,353	-	-	-	708	15,753	2,210	b/	-	-
159-10	do.	32	do.	30,082	-	-	-	646	18,332	2,290	-	-	-
159-11	do.	26	May 11, 1938	41,196	-	-	-	586	24,402	3,930	-	-	-
159-12	do.	29	do.	38,594	-	-	-	500	21,930	4,520	20	-	-
159-13	do.	26	May 12, 1938	21,141	-	-	-	574	11,634	2,660	22	-	-
159-14	do.	28	do.	11,106	105	240	3,289	904	6,075	930	23	1,248	-
161	C. Glasscock	24	Apr. 26, 1938	-	-	-	-	-	37	20	38	-	-

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

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

Results are in parts per million

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (CO_3)	Total hardness as $CaCO_3$ (calc.)	Fluoride (F)
163	A. G. Bell	114	May 10, 1938	483	72	44	41	311	99	54	20	362	0.6
167	J. L. Fuqua	220	Apr. 26, 1938	-	-	-	-	-	12	6	b/	-	-
168	C. Glasscock	200	Apr. 28, 1938	239	36	25	23	244	25	10	b/	190	-
169	do.	60	May 20, 1938	265	-	-	-	275	10	9	b/	-	-
172	L. E. Lyles	120	May 10, 1938	262	51	15	30	244	29	17	b/	189	-
175	R. A. Freeman	132	Apr. 28, 1938	356	49	22	57	317	37	20	b/	214	1.3
178	J. N. Ivy	29	Apr. 19, 1938	288	-	-	-	250	45	12	b/	-	-
180	Landergin Bros.Co.	4	do.	553	-	-	-	427	107	33	b/	-	-
181	do.	29	do.	436	36	36	79	372	58	13	31	237	1.5
184	do.	183	Apr. 20, 1938	409	30	25	95	342	70	21	b/	175	-
187	F. P. McIntyre, et al	183	Apr. 28, 1938	210	33	21	30	207	21	13	b/	168	-
189	H. Fortenberry	165	do.	343	21	22	81	250	41	47	b/	144	1.3
195	Landergin Bros.Co.	29	Apr. 20, 1938	335	50	18	51	293	29	13	30	201	-
196	Rock Island R.R.	450	Mar. 31, 1938	360	43	22	66	323	61	9	b/	199	0.7
197	Landergin Bros.Co.	150	Apr. 20, 1938	262	19	29	37	195	66	15	b/	168	-
203	-	450	June 10, 1938	508	100	37	33	390	141	5	b/	403	0.2
306	Matador Land & Cattle Co.	63	July 24, 1938	587	48	21	147	348	109	91	b/	208	-
307	do.	97	May 4, 1938	373	-	-	-	262	71	37	b/	-	-
311	Landergin Bros.Co.	15	May 6, 1938	1,299	6	8	494	744	252	174	b/	45	-
312	-	147	May 26, 1938	-	-	-	-	-	32	4	b/	-	-
313	-- Herring	Spring	do.	357	-	-	-	262	65	32	b/	-	-
315	Kirk Munson	29	do.	1,578	15	12	607	1,086	165	245	b/	88	-
317	-	100	do.	1,836	3	5	691	1,025	532	96	b/	28	0.7
318	-- Bivins	Spring	July 23, 1938	218	38	8	36	207	24	10	b/	130	0.6
319	-	-	May 26, 1938	1,325	76	37	356	464	403	225	b/	343	-
327	-- Hedgecoat	102	do.	-	-	-	-	-	181	350	b/	-	-
332	A. G. Morris	Spring	do.	300	56	20	3	305	30	10	b/	222	0.6
333	do.	Spring	do.	174	21	12	38	183	13	6	b/	103	-
334	-- Bivins	Spring	July 23, 1938	233	51	11	25	232	16	10	b/	172	-
335	do.	46	do.	152	46	7	4	165	a/	5	b/	144	0.4
336	do.	Spring	do.	230	64	16	4	262	12	5	b/	225	0.6
337	County School	-	May 26, 1938	593	86	61	62	634	52	20	b/	468	-
338	-	-	May 29, 1938	1,124	62	26	323	543	302	144	b/	261	-

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

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)	Fluoride (F)
339	Don Munson	25	May 26, 1938	844	69	27	194	207	282	170	b/	282	0.3
340	J. L. Bivins	Spring	July 23, 1938	284	48	17	35	226	60	13	b/	190	0.9
341	A. L. Turner	Spring	do.	329	53	18	5?	329	24	13	b/	206	-
342	do.	Spring	do.	383	44	23	63	226	93	34	b/	204	-
343	do.	Spring	do.	513	38	21	128	348	113	42	b/	193	-
344	Matador Land & Cattle Co.	50	July 24, 1938	436	26	21	110	287	101	37	b/	153	0.7
345	do.	-	do.	752	10	4	276	439	161	77	b/	43	-
347	do.	53	July 22, 1938	288	-	-	-	238	48	16	b/	-	-
350	do.	42	July 24, 1938	338	78	13	23	214	24	34	61	248	-
351	do.	36	do.	249	35	18	36	220	40	12	b/	161	1.0
352	do.	195	do.	272	46	20	29	238	40	10	b/	197	-
353	do.	-	do.	185	-	-	-	183	16	8	b/	-	-
356	J. L. Bivins	173	July 23, 1938	236	48	30	14	220	32	14	b/	203	-
357	-- Bivins	174	do.	209	49	18	8	226	15	8	b/	196	0.5
401	Landergin Bros.Co.	Spring	May 4, 1938	556	38	26	146	458	71	50	b/	201	-
402	do.	97	May 6, 1938	1,109	12	-	418	610	265	114	b/	29	-
403	do.	Spring	Mar. 29, 1938	317	46	17	50	232	58	32	b/	186	-
404	E. Herring	Spring	Mar. 24, 1938	268	36	25	38	305	14	5	b/	190	-
405	do.	67	do.	590	60	37	95	317	119	42	81	302	-
406	-	Spring	Apr. 25, 1938	294	36	37	31	342	12	7	b/	243	2.7
407	E. Herring	36	Mar. 24, 1938	737	34	26	213	519	149	42	b/	191	-
408	do.	29	Apr. 25, 1938	759	24	35	216	512	168	40	24	202	-
410	do.	187	do.	1,902	5	3	684	464	698	285	b/	24	-
411	W. E. Herring	-	do.	890	25	29	253	281	348	98	b/	183	-
412	C. T. & W. E. Herring	200	do.	436	32	17	116	378	70	15	b/	151	0.6
413	do.	60	do.	443	-	-	-	415	53	18	b/	-	-
414	do.	316	do.	2,413	30	13	835	354	721	640	b/	128	1.3
416	W. E. Herring	-	do.	-	-	-	-	-	288	58	b/	-	-
417	do.	Spring	do.	487	27	39	118	458	58	26	b/	229	-
418	W. H. Gray	123	do.	-	-	-	-	-	107	53	b/	-	-
419	-- Binford	Spring	Mar. 25, 1938	254	-	-	-	275	14	6	b/	-	-
420	G. B. Binford	45	do.	245	55	21	9	226	29	20	b/	223	-

a/ Sulphate less than 10 parts per million.

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

Results are in parts per million.

Well No.	Owner	Depth of well	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)	Fluoride (F)
425	B. W. Wiseman	265	Mar. 24, 1938	-	-	-	-	-	41	14	b/	-	-
426	A. F. Linger	187	June 1, 1938	258	33	19	39	220	36	16	b/	162	-
427	C. T. Everett	226	do.	412	45	34	57	281	113	13	b/	251	-
428	T. R. Miller	262	May 31, 1938	396	39	35	55	256	113	12	b/	241	2.0
433	W. H. Gray	86	Mar. 21, 1938	246	25	21	43	238	28	12	b/	148	0.6
434	do.	-	Apr. 25, 1938	227	-	-	-	220	20	12	b/	-	-
436	C. M. Humphrys	195	Mar. 19, 1938	299	-	-	-	305	28	6	b/	-	-
437	B. Gist	200	Mar. 21, 1938	281	-	-	-	256	28	10	b/	-	-
438	J. R. Gouldy	204	May 31, 1938	268	41	29	23	287	28	6	b/	223	-
439	Joe Alred	195	do.	280	59	21	22	293	26	6	b/	233	2.2
440	City of Wildorado	-	do.	286	-	-	-	293	28	4	b/	-	-
441	J. M. Beasley	210	Mar. 19, 1938	318	-	-	-	342	20	6	b/	-	-
442	W. B. Hurley	225	Mar. 21, 1938	241	34	20	34	256	20	7	b/	167	-
445	Ruth Arney	-	May 31, 1938	355	-	-	-	262	65	24	b/	-	-
446	-- Binford	227	Mar. 19, 1938	404	50	30	54	268	94	18	26	248	-
447	James Watkins	168	Mar. 16, 1938	320	-	-	-	299	37	14	b/	-	-
448	C. T. Everett	200	Mar. 15, 1938	470	42	59	49	342	70	56	26	346	-
449	Chas. Priess	240	Mar. 16, 1938	381	22	32	79	268	90	16	b/	185	2.4
451	A. S. Giles, Est.	167	Mar. 15, 1938	389	-	-	-	317	74	12	b/	-	2.1
453	John Hill	180	Mar. 17, 1938	301	41	29	35	293	25	17	b/	223	-
455	-- Kyle	185	Mar. 15, 1938	374	42	42	51	439	15	8	b/	276	-
456	Bill Jones	163	Mar. 18, 1938	-	-	-	-	-	32	17	b/	-	-
459	W. A. Jinks	200	do.	305	49	39	16	329	25	11	b/	284	3.0
460	Mrs. Emma McNabb	190	do.	324	48	35	22	256	49	22	22	262	-
461	C. R. Gault	200	Mar. 17, 1938	266	39	21	36	250	32	10	b/	183	-
464	Roddie Harwell	210	do.	297	57	22	28	293	32	14	b/	234	-
466	W. N. Miller	-	Mar. 28, 1938	625	69	56	65	281	279	18	b/	404	-
467	Chas. Slutz	224	do.	235	39	32	8	268	16	8	b/	330	-
472	T. B. Jones	220	do.	565	58	59	49	256	207	24	42	396	-
474	-	-	May 17, 1938	475	44	52	51	287	144	13	28	322	2.3
475	City of Vega	257	June 17, 1938	556	42	52	75	244	202	20	43	317	2.4
477	Rock Island R.R.	296	do.	426	40	40	54	244	121	23	28	264	-
478	H. R. Shields, Est.	200	May 17, 1938	-	-	-	-	-	189	19	38	-	-
481	J. Montgomery	132	Apr. 13, 1938	-	-	-	-	-	25	9	b/	-	-

a/ Sulphate less than 10 parts per million.

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

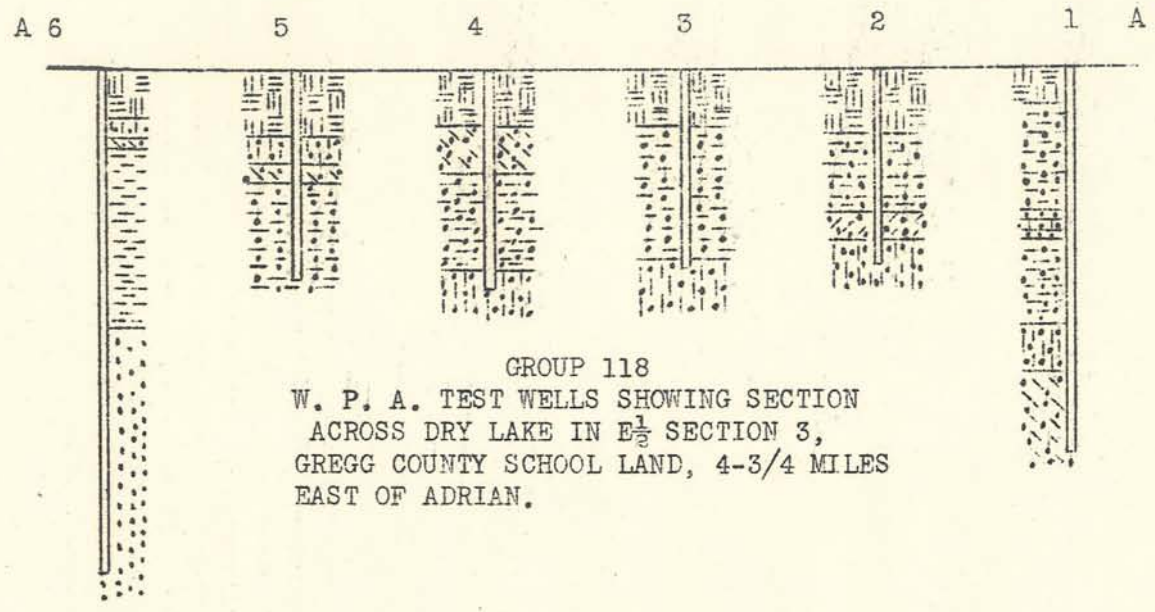
Results are in parts per million.

Well No.	Owner	Depth of well	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)	Fluoride (F)
486	A. L. McNabb	183	May 17, 1938	329	20	18	86	305	41	14	b/	126	-
487	C. M. McNabb	111	June 1, 1938	-	-	-	-	-	113	11	b/	-	-
488	H. Green	230	Apr. 11, 1938	369	-	-	-	275	94	7	b/	-	-
489	A. E. Spimhirne	240	do.	280	-	-	-	268	27	14	b/	-	-
490	H. J. Walker	280	do.	311	56	27	24	262	53	20	b/	252	1.9
493	S. B. Criswell	215	Apr. 13, 1938	256	13	15	71	268	15	5	b/	94	-
495	W. C. Benefield	152	May 17, 1938	217	48	17	15	256	a/	4	b/	191	1.1
497	Chafin Glasscock	111	May 4, 1938	330	42	25	47	256	66	15	b/	205	-

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

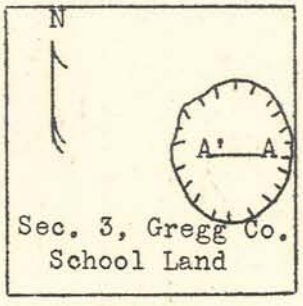
SECTION A'-A COMPILED FROM 6 TEST WELLS



GROUP 118
W. P. A. TEST WELLS SHOWING SECTION ACROSS DRY LAKE IN E½ SECTION 3, GREGG COUNTY SCHOOL LAND, 4-3/4 MILES EAST OF ADRIAN.

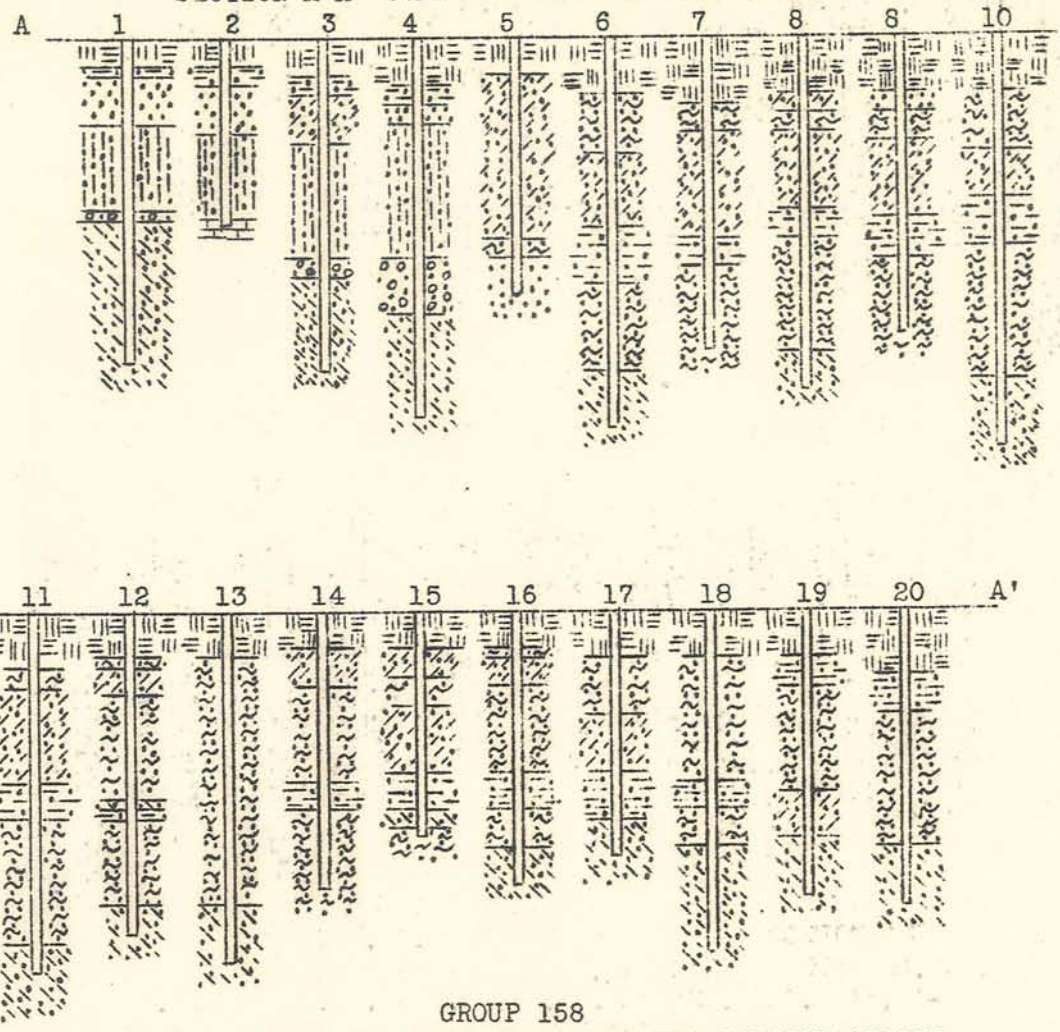
Horizontal scale 0 200 400 600 Feet

Vertical scale 0 10 20 30 Feet



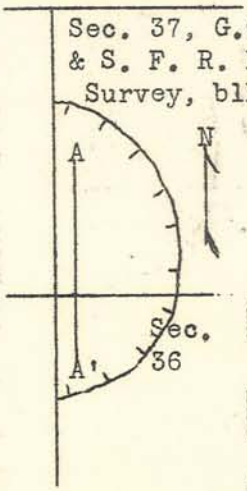
- Surface materials
- Yellow and gray sand and clay
- Fine-grained silty sand
- Brown sandy clay
- Gray sandy clay
- Pink and gray sandy clay
- Yellow and gray clay

SECTION A-A' COMPILED FROM 20 TEST WELLS



GROUP 158

W. P. A. TEST WELLS SHOWING SECTION ACROSS DRY LAKE IN W½ SEC. 37 AND NW¼ NW¼ SEC. 36, G. C. & S. F. R. R. SURVEY, BLK. K11, 1-3/4 MILES SOUTHWEST OF ADRIAN.



Horizontal scale 0 200 400 600 Feet

Vertical scale 0 10 20 30 Feet

Surface soil

Bluish-gray sand and clay

Yellowish-gray silty sand

Blue clay and sand

Brown sand and gravel

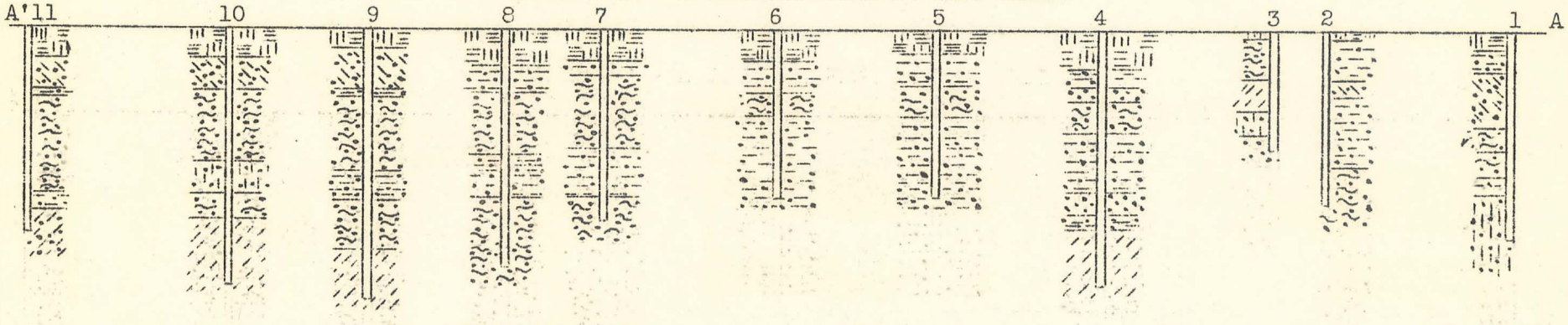
Red sandy clay

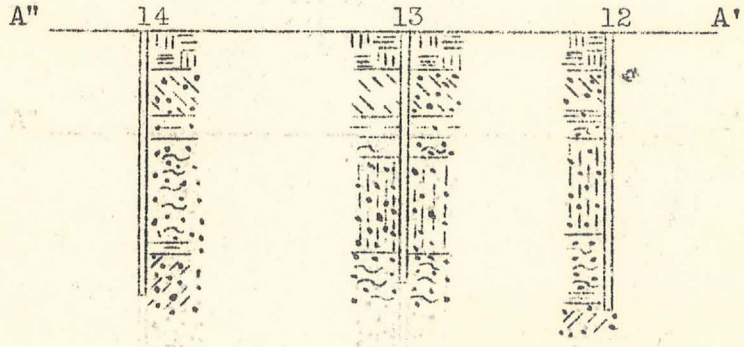
Rock

Yellowish-gray sandy clay

Pink and gray clay and sand

SECTION A" - A COMPILED FROM 14 TEST WELLS



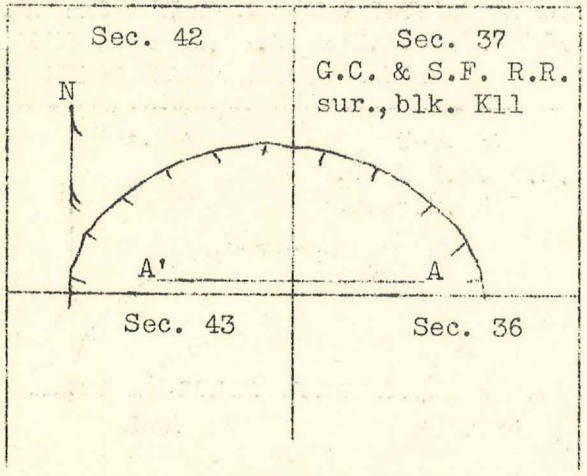


Horizontal scale 0 200 400 600 Feet

Vertical scale 0 10 20 30 Feet

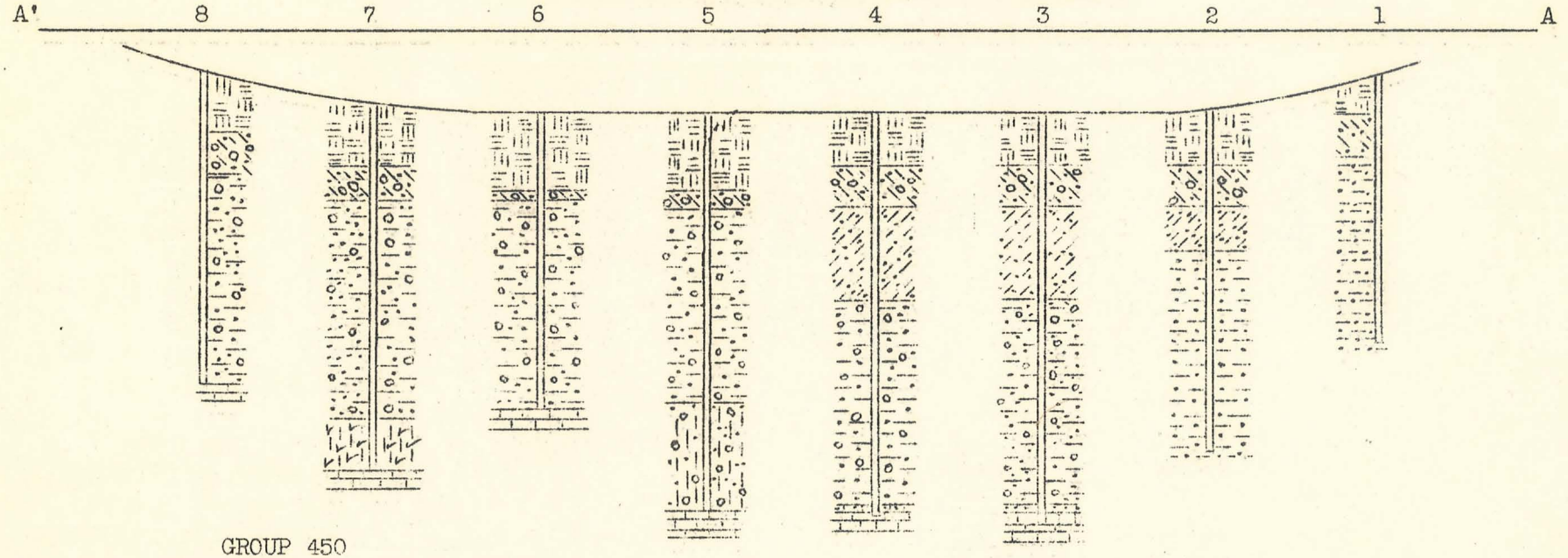
GROUP 159

W.P.A. TEST WELLS SHOWING SECTION ACROSS DRY LAKE IN SECTIONS 37 & 42, G.C. & S.F. R.R. SUR., BLK. K11, 1-3/4 MILES SOUTHEAST OF ADRIAN.



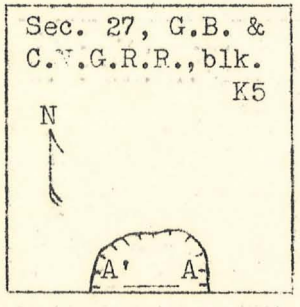
- Surface soil
- Gray sandy clay
- Reddish-brown sandy clay
- Pink sandy clay and caliche
- Pink sandy clay
- Yellow and gray sandy clay
- Red sandy clay
- Pink sand
- Dark-red clay

SECTION A'-A COMPILED FROM 8 TEST WELLS



GROUP 450

W.P.A. TEST WELLS SHOWING SECTION ACROSS DRY LAKE IN S½ SEC. 27, G.B. & G.N.G. R.R., BLK. K5, 7 MILES SOUTHEAST OF VEGA.

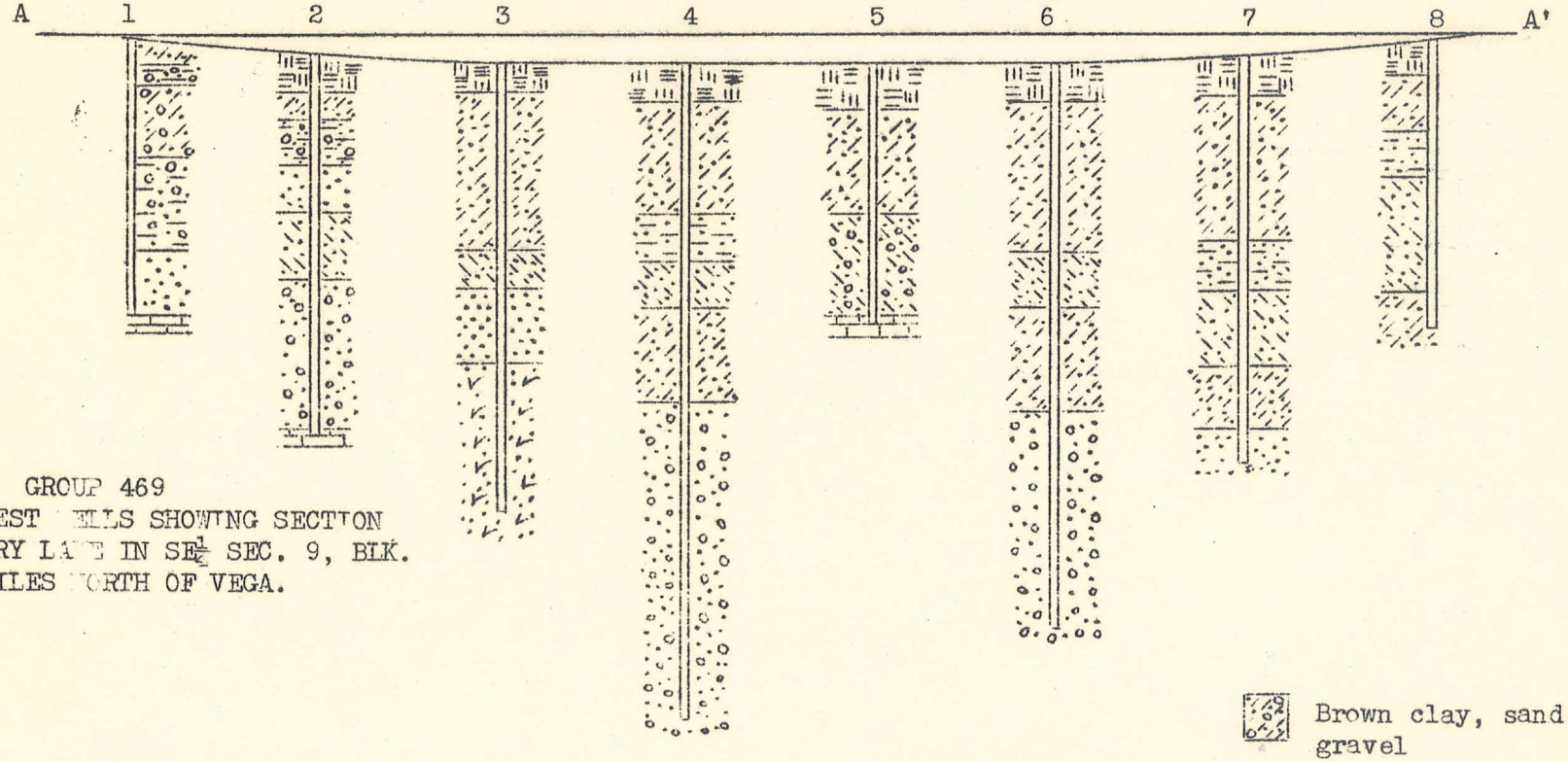


Horizontal scale
0 100 200 300 Feet

Vertical scale
0 10 20 30 Feet

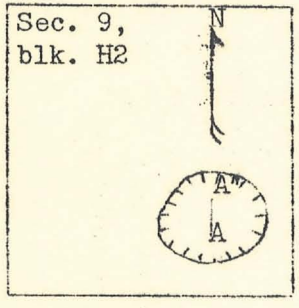
- Surface soil
- Red clay and sand
- Gray clay and sand
- Gray clay, sand and gravel
- Gray and yellow clay and sand
- Clay, gravel and sand
- Pink sand and clay
- Caliche and clay
- Sand
- Rock
- Red clay, sand and gravel

SECTION A-A' COMPILED FROM 8 TEST WELLS



GROUP 469

W.P.A. TEST WELLS SHOWING SECTION ACROSS DRY LAKE IN SE¼ SEC. 9, BLK. H2, 4¼ MILES NORTH OF VEGA.



Horizontal scale 0 100 200 300 Feet

Vertical scale 0 10 20 30 Feet

- Surface materials
- Brown clay and sand
- Gray and yellow clay and sand
- Gray sand and clay
- Rock
- Brown clay, sand and gravel
- Gravel, gray sand and clay
- Gravel and sand
- Gravel, gray and yellow clay and sand
- Sand
- Caliche and sand

MAP OF OLDHAM COUNTY, TEXAS
SHOWING LOCATION OF WATER WELLS LISTED

— EXPLANATION —

- WELL WITH HAND PUMP, BUCKET OR BAILER
- WELL WITH WINDMILL OR SMALL POWER PUMP
- WELL WITH PUMPING PLANT- 5 HORSE POWER OR LARGER
- UNUSED WELL
- WELL DRILLED TO TEST FOR OIL OR GAS
- FLOWING WELL
- SPRING
- TEST WELL DRILLED BY W.P.A. LABOR
- SINK
- ESCARPMENT
- IMPROVED ROAD
- UNIMPROVED ROAD
- TRAIL

SCALE 0 1 2 3 4 5 6 7 8 MILES

N

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

FIELD WORK BY
G.H. SHAFER AND C.R. FOLLETT
W.P.A. PROJECT 6017-5674

BASE COMPILED FROM
LAND OWNERSHIP MAP
AND FIELD NOTES

HARTLEY COUNTY

NEW MEXICO STATE OF TEXAS

POTTER COUNTY

DEAF SMITH COUNTY

CANADIAN RIVER

CABALLO CREEK

MINNOSO CREEK

SALINAS LAKE

AGUA PIEDRA CREEK

TRUJILLO CREEK

MOJARES CREEK

PEDRITA CREEK

ANCHAS CREEK

LAS ALAMOSITA CREEK

SKUNK ARROYO

ALAMOSA CREEK

PARKER CREEK

COTTONWOOD CREEK

WILLOW CR.

WILDORADO CREEK

DRY BLANCO CREEK

CHEYENNE CR.

MIDDLE CHEYENNE CR.

EAST CHEYENNE CR.

TASCOSA CREEK

RIGA CR.

GR.

MURDO

MAGENTA

TASCOSA

ADRIAN

VEGA

ONTARIO

WILDORADO

SIERRITA DE LA CRUZ

Top of Cap Rock

C.R.I. & G. RR.

FW&DC RR.

U.S. HWY 66

BOISE

SALINAS LAKE

O.G.K. 9-25-38