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STATE BOARD OF WATER ENGINEERS

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DALLAM COUNTY, TEXAS

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

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WORKS PROGRESS ADMINISTRATION

GROUND WATER SURVEY

PROJECT 6007-5071

C. R. Follett

Project Superintendent

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Analyses made, map prepared, data
assembled and report mimeographed by,
WORKS PROGRESS ADMINISTRATION
PROJECT 6507-5112

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

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Austin, Texas

Aug. 10, 1937

DALLAM COUNTY, TEXAS

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Introduction

by
Samuel F. Turner
Associate Hydraulic Engineer
U. S. Geological Survey

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and to put down test holes where additional information was needed.

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

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

The field work in Dallam County was started on December 7, 1936, and completed April 30, 1937. This work was done as Project 6007-5071 of District 16 of the Works Progress Administration, Amarillo, Texas. C. R. Follett, an engineer, was project superintendent. Mr. Follett should be given credit for his interest in the work and for the extra hours he spent on the project. The office of the Works Progress Administration in the Amarillo district made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendent, logs of the test holes drilled by the W. P. A. labor, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed are shown on the map in the back of the release. Special attention was given to the collection of data in and near the shallow-water irrigation district east of Texline.

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

Records of wells and springs in Dallam County, Texas
(All wells are drilled unless otherwise noted in "Remarks" column.)

No.	Distance from Texline	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
1	7½ miles north	1, SE¼SE¼	M. E. Hay	S. H. Tritt	--	--	80	6	--
3	5½ miles north	29, NE¼NE¼	do.	C. D. Shamburger	--	--	1,100	10	1
4	do.	30, NW¼NW¼	do.	do.	--	--	200	5	1
5	6½ miles north	21, NE cor. NW¼	do.	do.	--	--	116	5	1
6	8 miles north	13, NW cor. NE¼	do.	do.	--	--	78	6	2.5
7	8½ miles northeast	6, SW cor.	do.	do.	--	--	165	6	1.5
8	7½ miles northeast	24, NW¼NW¼	do.	do.	--	--	76	6	1.2
9	10½ miles northeast	8, SW¼NE¼	do.	W. H. Portwood	James Day	1926	149	4	1.5
10	7½ miles northeast	44, SW cor. NE¼	do.	Lindley & Portwood	--	--	72	5	3
12	7½ miles east	63, SE cor. NW¼SE¼	do.	J. D. Lindley	--	--	--	6	--
14	7 miles east	79, SE cor. NW¼	do.	R. L. Ridling	James Day	1933	104	24	1.5
16	6½ miles east	71, SW cor. SE¼SE¼	do.	M. E. Hay	--	--	40	6	1
17	5½ miles east	61, SE cor. SW¼	do.	J. D. Lindley	James Day	1936	90	5	0.5
19	5 miles east	60, SE¼SE¼	do.	B. M. Hay	--	--	60	5	1.5
20	4½ miles east	69, NW cor. NE¼	do.	J. C. Doss	--	--	65	6	--
21	5 miles east	70, SW cor. NW¼NW¼	do.	Mrs. S. H. Madden	--	--	82	5	5
24	3½ miles east	75, NW cor. SE¼	do.	V. L. Hindman	--	--	149	5	--
25	2½ miles northeast	67, SW¼SW¼	do.	J. W. Bach	--	--	121	7	1
28	At Round-house In Texline	--	do.	F.W.&D.C. R.R. Co.	S. H. Walton	1916	295	10	--
29	In Texline	--	do.	West Texas Utilities CO.	--Jenkins	1922	297	8	--
30	do.	--	do.	do.	do.	1922	260	8	--

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

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

Records obtained by C. R. Follett, Project Superintendent
(Chemical analyses of water from these wells are in the table of analyses.)

No.	Water level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
1	--	--	C,W	N	Slope	Steel casing. Well filled above static water level with sand.
3	161.9	Jan. 25, 1937	C,W	S	Ridge-top	Measuring point, NW side steel casing. Strong supply. Reported mineral taste.
4	202.4	Jan. 28, 1937	C,W	S	Flat	Measuring point, N side steel casing. Weak supply.
5	96.6	Jan. 25, 1937	C,W	S	Gentle slope	Measuring point, E side steel casing. Never fails in drought.
6	57.2	do.	C,W	S	Creek bottoms	Measuring point, W side steel casing. Never fails in drought.
7	155	<u>e/</u>	C,W	D,S	Slope	Steel casing. Estimated yield, 5 gallons a minute. Never fails in drought. Water reported
8	54	Jan. 25, 1937	C,W	S	do.	Measuring point, S side steel casing. Estimated yield 6 gallons a minute. in coarse sand.
9	131.6	Feb. 3, 1937	C,W	D,S	Flat	Measuring point, N side steel casing. Never fails in drought. Estimated yield $1\frac{1}{2}$ gallons
10	36.7	Feb. 6, 1937	C,W	S	Creek bottoms	Measuring point, NW side steel casing. a minute. Weak supply.
12	--	--	C,W	D,S	Flat	Steel casing. Unable to measure. Reported formerly used for irrigation.
14	36.0 35.0	Dec. 8, 1936 Jan. 30, 1937	Cf,G, 20	I	Ridge-top	Dug well, 0-36 feet. Cement curb; bolted steel barrel casing. Drilled well, 30-104 feet. Reported yield 600 gallons a minute. Reported 20 acres irrigated in 1935. Water reported in
16	33.0	Jan. 11, 1937	C,W	D,S,I	Flat	Measuring point, W side cement curb. Vegetable garden and orchard irrigated. coarse sand.
17	48	<u>e/</u>	C,W	D,S,I	do.	Steel casing. Never fails in drought. Vegetable garden irrigated. Strong supply.
19	64.2	Jan. 11, 1937	C,W	D,S,I	Flat	Measuring point, E side steel casing. Never fails in drought. Vegetable garden irrigated.
20	--	--	C,W	D,S,I	Ridge-top	Steel casing. Unable to measure. Never fails in drought. Vegetable garden irrigated.
21	67.3	Jan. 11, 1937	C,W	D,S,I	Flat	Measuring point, top of platform. Weak supply. Vegetable garden irrigated.
24	90	<u>e/</u>	C,W	D,S,I	Ridge-top	Steel casing. Unable to measure. Vegetable garden and orchard irrigated. Never fails in
25	94.6	Jan. 27, 1937	C,W	S	Slope	Measuring point, W side steel casing. drought. Measured $1\frac{1}{2}$ feet drawdown after pumping, 3 gal-
28	100	<u>e/</u>	C,S	Ind	Flat	283 feet steel casing at top. Bottom 40 feet perforated. Unable to measure. Water reported in sand, 260-285 feet. gallons a minute for 3 hours.
29	76	<u>e/</u>	T,E, 15	P	do.	100 feet steel casing at top. Reported yield, 175 gallons a minute. Water reported. See log.
30	76	<u>e/</u>	C,E, 15	P	do.	100 feet steel casing at top. Reported yield, 62 gallons a minute in coarse sand. coarse gravel, 240-260 feet.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Dallas County--Continued

No.	Distance from Texline	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>1/</u>
31	2 $\frac{1}{2}$ miles southeast	87, S ^W edge	M. E. Hay	Camp Stewart	--	--	53 $\frac{1}{2}$	3 $\frac{1}{2}$	1
34	5 $\frac{1}{2}$ miles southeast	95, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	C. L. Stewart	--	1905	93	4	2
37	10 $\frac{1}{2}$ miles northeast	12, NW $\frac{1}{4}$ NE $\frac{1}{4}$	F.D.W. blk. 1	S. A. L. Morgan	--	--	73	6	2
38	11 $\frac{1}{2}$ miles northeast	11, SE cor.	do.	do.	--	--	99	4	1
39	12 $\frac{1}{2}$ miles northeast	21, SE cor. NE $\frac{1}{4}$	do.	do.	--	--	--	4	1
40	13 $\frac{1}{2}$ miles east	4, NE $\frac{1}{2}$ NE $\frac{1}{4}$	F.D.W. blk. 3	J. M. French	--	--	13 $\frac{1}{2}$	6	1
41	12 $\frac{1}{2}$ miles east	5, SW cor.	do.	T. L. Thompson	J. M. Wiens	1930	20	4	2
42	do.	do.	do.	do.	--	1930	40	4	0
44	11 $\frac{1}{2}$ miles east	2, NE cor. SE $\frac{1}{2}$ SE $\frac{1}{4}$	do.	K. T. Dick	--	--	49	6	1
45	11 miles northeast	1, NE cor.	do.	W. A. Skimmer	--	--	80	4	.8
46	9 $\frac{1}{2}$ miles northeast	2, NW cor.	F.D.W. blk. 2	S. P. Ulrich	--	--	81	6	.5
47	10 miles east	2, NE cor. SE $\frac{1}{2}$ SE $\frac{1}{4}$	do.	P. B. Koehn	--	--	47	6	.8
49	9 $\frac{1}{2}$ miles east	3, SE $\frac{1}{2}$ SE $\frac{1}{4}$	do.	A. F. Hamm	--	--	23	5	1
50	9 miles east	6, NW cor.	do.	T. J. Rhoades	T. J. Rhoades	1937	69	14	.8
51	8 miles east	5, NE cor. S ^W $\frac{1}{2}$ N ^W $\frac{1}{2}$	do.	R. F. Bownds	R. F. Bownds	1936	51	6	1
52	do.	5, SE cor. SW $\frac{1}{2}$	do.	D. Siedel	--	--	86	6	1.5
53	9 $\frac{1}{2}$ miles east	6, SE $\frac{1}{2}$ SE $\frac{1}{4}$	do.	H. B. Hays	C. R. Bomer	1936	70	16	2.5
54	do.	1, NW cor. SW $\frac{1}{2}$	F.D.W. blk. 4	-- McKinney	R. F. Bownds	1937	100	14	--
56	do.	8, S ^W cor.	do.	Dr. O. Powell	--	1934	110	22	.5
57	10 miles east	8, S ^W cor. SE $\frac{1}{2}$	do.	do.	R. F. Bownds	1936	80 $\frac{1}{2}$	20	1
58	do.	8, N ^W $\frac{1}{2}$ NE $\frac{1}{4}$	do.	do.	--	--	30 $\frac{1}{2}$	6	1
59	10 $\frac{1}{2}$ miles east	2, NW cor. SW $\frac{1}{2}$	do.	--	--	--	34 $\frac{1}{2}$	--	1

C. R. Follett, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
31	51.6	Feb. 5, 1937	C,W	N	Creek bottoms	Measuring point, S side steel casing. Located 600 feet NW of bridge on Highway 87.
34	75.0	Feb. 6, 1937	C,W	D,S,I	Ridge- top	Steel casing. Strong supply. Vegetable garden irrigated.
37	62.8	do.	C,W	S	Creek bottoms	Measuring point, E side steel casing.
38	84.5	Feb. 3, 1937	C,W	S	Flat	Measuring point, S7 side steel casing.
39	10	e/	C,W	S	do.	Wood curb; 11 feet rock casing at top, steel casing at bottom. Strong supply. Estimated
40	10.9	Jan. 13, 1937	C,W	S	Slope	Steel casing. yield, 9 gallons a minute. Measured while pumping. Measured yield, 4½
41	10.8	Jan. 12, 1937	C,H	S	Flat	No casing. gallons a minute. Strong supply. Wood curb. Reported maximum yield, 5 gallons
42	8.	e/	C,W	D,S,I	do.	No a minute from coarse red sand, 15-16 feet, casing. Reported yield, 15 gallons a minute from coarse red sand, 35-37 feet, other sand
44	35.0	Jan. 12, 1937	C,W	N	do.	Measuring point, S side concrete at 16 feet. curb; galvanized iron casing.
45	69.1	Mar. 4, 1937	C,H	N	Ridge- top	Galvanized iron casing. Estimated yield, 3 gallons a minute.
46	73.2	Feb. 6, 1937	C,W	N	Slope	Galvanized iron casing.
47	39.4	Dec. 23, 1936	C,W	N	Gentle slope	Measuring point, top of platform. Steel cas- ing. Weak supply.
49	19.4	do.	C,H	N	Slope	Measuring point, W side of top of platform. Steel casing. Estimated yield, 7 gallons a
50	30.	e/	Cf,G, 20	I	Gentle Slope	Dug well, 0-29 feet. Drilled well, minute. 29-59 feet. Steel casing, 29-59 feet. Pump set at 29 feet. Reported weak supply.
51	41.4	Dec. 23, 1936	C,W	D,S	Flat	47 feet steel casing at top. Reported yield, 7 gallons a minute from coarse red sand, 47-51 feet. Measured ½ foot drawdown after pump-
52	37.8	do.	C,W	S,I	do.	Steel cas- ing 5 gallons a minute for 4 hours. ing. Vegetable garden irrigated. Measured 16 feet drawdown after pumping 5½ gallons a min-
53	33.7	Dec. 16, 1936	C,W	D,S,I	do.	58 feet galvanized iron cas- uto for ¼ hour. ing at top, perforated 17 feet at bottom. Re- ported yield, 60 gallons a minute from sandy
54	28.	e/	Cf,G, 30	I	Ridge- top	Dug well, 0-27 feet. Drilled well, 27- clay. 100 feet. 73 feet perforated steel casing at bottom. Reported yield, 600 gallons a minute from coarse red sand, 80-90 feet, and others.
56	27.1	Jan. 28, 1937	T,G, 30	D,S,I	Gentle slope	Bolted steel barrel casing at top. Reported yield, 600 gallons a minute. 80 acres irri- gated in 1936 at cost \$1.75 per acre for fuel.
57	24.0 24.1	Jan. 29, Mar. 16, 1937	T,G, 30	I	do.	80 feet bolted steel barrel casing at top. Reported yield, 300 gallons a minute. Report- ed weak supply.
58	20.6	Jan. 30, 1937	C,H	D,S	Flat	Galvanized iron casing. Never fails in drought.
59	32.5	Feb. 3, 1937	Cf,G, 30	I	Gentle slope	Dug well, 0-34. No casing. Drilled well in bottom. Reported yield, 500 gallons a minute.

Records of wells and springs in Dallam County--Continued

No.	Distance	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
60	11½ miles east	2, NW¼NE¼	F.D.W. blk. 4	Draper School	--	1930	112	4	1.2
61	10½ miles east	7, NW cor.	do.	-- Burrows	R. F. Bownds	1936	117	14	1
62	do.	7, NW¼SW¼	do.	J. T. Montgomery	--	--	20½	6	1
63	do.	7, SW cor.	do.	-- Badgett	-- Badgett	1937	105	14	1
64	11 miles east	7, NW cor. SE¼	do.	Bill Thompson	R. F. Bownds	1936	90	14	2
65	11½ miles east	6, NW cor. SW¼	do.	T. L. Thompson	do.	1935	86	12	1.5
68	13 miles east	5, SE cor.	do.	L. D. Morton	--	--	48	6	1
70	10½ miles east	3, SE cor. NW¼NE¼	F.D.W. blk. 5	G. Smeltzer	--	1932	113	18	3
72	8 miles east	1, NW cor. NE¼NE¼	do.	W. L. Cotton	R. F. Bownds	1937	109	12	--
73	7½ miles east	1, NE¼NW¼	do.	M. Sowell	--	1934	--	22	0
74	do.	1, SW¼NW¼	do.	do.	--	--	37	--	.5
75	9 miles east	11, NE cor. SW¼	do.	C.C. Cook Estate	U. S. Starnes	1933	32	5	.5
76	10 miles east	10, NE cor. SW¼	do.	do.	--	1910	100	5	3.5
80	9½ miles east	23, SE¼NE¼	do.	do.	--	1932	12	8	1
81	do.	do.	do.	do.	--	1921	43	6	1.4
82	10½ miles east	15, SE cor.	do.	do.	--	1921	16	6	1.1
84	12½ miles east	17, SE cor.	do.	G. M. Plaster	--	--	53	6	3
85	13 miles east	12, NE¼NW¼	F.D.W. blk. 6	R. B. Johnson	--	--	74	--	1

C. R. Follett, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
60	70.7	Feb. 3, 1937	C,W	P,S	Ridge-top	Steel casing.
61	24.8 25.7	Jan. 29, Apr. 17, 1937	T,G, 25	I	Gentle slope	82 feet bolted steel barrel casing at top. Estimated yield, 400 gallons a minute. Measured 56 $\frac{1}{2}$ feet drawdown after pumping 500 gallons a minute for 4 minutes, continued yield
62	18.5	Feb. 3, 1937	C,H	N	do.	Galvanized iron casing at top. 500 gallons a minute for 24 minutes.
63	19.9	Apr. 19, 1937	T,G, 30	I	Flat	Bolted steel barrel casing at top. Steel casing at bottom. Measuring point, bottom pump casting. Estimated yield, 400 gallons a minute.
64	19.8 19.8 19.8	Jan. 29, Mar. 16, Apr. 16, 1937	Cf,G, 25	I	Gentle slope	Dug well, 0-21 feet. Drilled well, 21-90 feet. No casing at top. Weak supply. Estimated yield, 150 gallons a minute.
65	19.0 18.6 19.1	Dec. 8, 1936 Jan. 29, Mar. 16, 1937	Cf,G, 30	I	do.	Dug well, 0-24 feet. Drilled well, 24-86 feet. Steel casing, 21-75 feet. Measured 2 feet drawdown after pumping 675 gallons a minute for 13 minutes. Strong supply. <i>Reported</i>
68	48.7	Jan. 13, 1937	C,W	N	Flat	Steel casing. Well partly filled with wind-blown sand.
70	25.1 24.8 24.6	Dec. 10, 1934 Jan. 28, Jan. 29, 1937	Cf,G, 30	I	Gentle slope	Measuring point, top of steel girder supporting pump. Bolted steel barrel casing at top. Perforated steel casing at bottom. Water level, measured by H. P. Burleigh. Measured yield, 700 gallons a minute. Strong well.
72	--	--	T,G, 25	I	do.	70 feet bolted steel barrel casing at top. 39 feet perforated steel casing at bottom. Owner plans to irrigate 140 acres with this well. Measured yield, 400 gallons a minute from reported coarse sand, 78-109 feet.
73	38.2 38.2 38.2	Dec. 10, 1934 Jan. 28, Mar. 16, 1937	T,G, 30	I	Ridge-top	Bolted steel barrel casing at top. Water level, Dec. 10, 1934, measured by H. P. Burleigh. Estimated yield, 350 gallons a minute. Well drilled deeper in 1937.
74	28.4	Feb. 6, 1937	C,W	D,S,I	Flat	Strong supply. Vegetable garden irrigated.
75	26.7	Dec. 22, 1936	C,-	S	Creek bottoms	22 feet steel casing at top. Reported yield, 4 gallons a minute from coarse sand, 28-33
76	27.9	do.	C,W	D,S	Ridge-top	Steel casing. Reported strong supply. Measuring point, top of concrete. <u>1</u> feet.
80	10.4	do.	None	N	Flat	No casing. Well under house. Measuring point, concrete floor of house.
81	9.5	do.	C,W	S	do.	Steel casing. Never fails in drought.
82	13.3	do.	C,W	S	do.	Do.
84	11.3	Dec. 19, 1936	C,W	S	Slope	Steel casing. Measured $\frac{1}{2}$ foot drawdown after pumping 3 $\frac{1}{2}$ gallons a minute for 2 hours.
85	65.6	Mar. 8, 1937	C,-	N	Ridge-top	Measuring point, top of concrete slab. Could not see casing.

Records of wells and springs in Dallam County--Continued

No.	Distance from Texline	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
87	13 $\frac{1}{2}$ miles east	24, NE cor. N $\frac{1}{4}$	F.D.M. blk. 6	A. Q. Brinner	--	--	37 $\frac{1}{2}$	6	3.5
90	15 $\frac{1}{2}$ miles east	15, S $\frac{1}{2}$ cor. SE $\frac{1}{4}$	do.	do.	--	--	99	6	3.5
91	16 miles east	16, NE $\frac{1}{2}$ NW $\frac{1}{4}$	do.	do.	--	--	77	4	2
92	do.	do.	do.	do.	--	--	80	6	1
93	18 miles east	19, 3rd $\frac{1}{2}$ S	do.	do.	--	--	91 $\frac{1}{2}$	5	1
94	16 $\frac{1}{2}$ miles east	9, NE $\frac{1}{2}$ NE $\frac{1}{2}$	do.	T. B. Johnson	--	--	91	5	2
95	17 $\frac{1}{2}$ miles east	5, N $\frac{1}{2}$ NE $\frac{1}{2}$	do.	do.	--	--	142	6	2
96	18 $\frac{1}{2}$ miles east	17, N $\frac{1}{2}$ NW $\frac{1}{4}$	F.D.M. blk. 7	E. G. Shuhart	--	--	191 $\frac{1}{2}$	4	1
97	19 miles east	16, S $\frac{1}{2}$ cor. N $\frac{1}{4}$	do.	A. C. Knudson	--	1922	200	6	--
98	17 miles east	19, SW cor.	do.	C. L. Goodman	--	1929	23 $\frac{1}{2}$	6	2
100	16 $\frac{1}{2}$ miles east	20, S $\frac{1}{2}$ cor. SE $\frac{1}{4}$	do.	H. O. Kelly	--	--	58	6	.8
102	15 miles east	21, S $\frac{1}{2}$ S $\frac{1}{2}$	do.	N. T. Holt	--	--	85	--	1
104	14 miles east	23, NE $\frac{1}{2}$ NE $\frac{1}{4}$	do.	P. D. Heidebrecht	--	--	79	5	1
105	14 $\frac{1}{2}$ miles east	7, S $\frac{1}{2}$ cor. N $\frac{1}{4}$	do.	A. H. Britton	--	--	22	6	1
106	13 $\frac{1}{2}$ miles east	8, SE $\frac{1}{2}$ N $\frac{1}{4}$	do.	do.	--	--	--	6	--
108	14 miles east	1, NE cor. N $\frac{1}{4}$	do.	J. M. Enns	--	--	16 $\frac{1}{2}$	6	1
109	15 miles east	22, NE cor.	Capitol Syndicate blk. 17	X I T Trustees	--	--	65	5	1
114	16 miles northeast	3, 4, 5,	do.	do.	--	--	--	--	--
117	16 $\frac{1}{2}$ miles northeast	6, N $\frac{1}{2}$ cor.	do.	do.	--	--	45	6	1
118	19 $\frac{1}{2}$ miles northeast	32, SE cor.	T.C.RR.Co. blk. 127	T. F. Toews	--	--	61	6	1.2
120	21 miles east	30, SE cor. SW $\frac{1}{4}$	do.	P. J. Wall	--	--	97	4	1
121	do.	10, SE $\frac{1}{4}$ SE $\frac{1}{4}$	Capitol Syndicate blk. 17	I. Krockner	--	--	66	4	1
122	22 $\frac{1}{2}$ miles east	13, SE cor.	do.	Church	--	--	47 $\frac{1}{2}$	5	1
123	20 $\frac{1}{2}$ miles east	29, NW cor.	do.	Trustees	--	--	86	4	1.4
126	do.	28, SE cor.	do.	B. Warkentin	--	--	30	6	1

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

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

C. R. Follett, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
87	34.2	Mar. 8, 1937	C,W	N	Slope	Steel casing.
90	78.9	Dec. 19, 1936	C,W	N	do.	Steel casing. Measuring point, top of concrete platform.
91	67.9	Mar. 8, 1937	None	N	Ridge-top	Steel casing. Well number 92 is 10 feet E.
92	67.0	do.	C,W	N	do.	Steel casing. Well 91 is 10 feet W.
93	91.	e/	C,W	N	Gentle slope	Steel casing.
94	80.4	Mar. 8, 1937	C,-	N	Creek bottoms	Do.
95	107.7	Feb. 4, 1937	C,-	N	Slope	No casing.
96	--	--	C,W	N	Flat	Steel casing. Well filled above static water level with sand.
97	150	e/	C,W	D,S	Gentle slope	Steel casing. Never fails in drought.
98	24.7	Dec. 16, 1936	C,W	N	Creek bottoms	Steel casing.
100	22.2	Dec. 19, 1936	C,W	D,S,I	Flat	Steel casing. Vegetable garden irrigated.
102	66.3	Dec. 16, 1936	C,W	D,S	Ridge-top	Measuring point, top of disk, set on pipe clamp. Unable to see casing.
104	72.4	do.	C,W	N	do.	Galvanized iron casing.
105	4.6	Feb. 23, 1937	C,W	S	Drylake bottoms	Measuring point, E side steel casing. Estimated yield, 5 gallons a minute.
106	--	do.	None	S	do.	Estimated flow, 3½ gallons a minute. Measured water level 5 feet above ground.
108	16.1	Jan. 14, 1937	C,W	N	Flat	No casing. Unable to measure depth.
109	36.8	Feb. 28, 1937	C,W	S	Slope	Steel casing.
114	--	Feb. 23, Mar. 3, 1937	--	S	Creek bottoms	Estimated flow, ⁴⁰⁰ 2,500 gallons a minute from numerous openings along streams in 3 sections. Has not failed for 200 years. Known as Buffalo Springs.
117	12.6	Feb. 28, 1937	C,W	N	do.	Steel casing. Water level estimated same as in Coldwater Creek.
118	34.2	Jan. 16, 1937	C,W	N	Slope	Measuring point, S side steel casing.
120	50.3	Mar. 4, 1937	C,W	N	Gentle slope	Steel casing.
121	61.0	Mar. 10, 1937	C,W	S	do.	Steel casing. Estimated yield, 3½ gallons a minute.
122	43.3	Feb. 4, 1937	C,H	D	Flat	Galvanized casing.
123	46.0	do.	C,W	N	Gentle slope	Steel casing.
126	19.8	Jan. 18, 1937	C,W	N	do.	Measuring point, N side steel casing.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Dallam County--Continued

No.	Distance from Texline	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
127	20 miles east	15, S ¹ cor. NW ¹ / ₄	Capitol Syndicate blk. 17	H. R. Unruh	--	1929	50	6	--
129	18 ¹ / ₂ miles east	26, N ¹ cor. NE ¹ / ₄	do.	K. Siebel	--	1929	60	6	--
130	18 miles east	17, SE ¹ / ₄ SW ¹ / ₄	do.	I. I. Regier	--	--	28	--	.5
132	18 ¹ / ₂ miles east	26, NE cor. SE ¹ / ₄	do.	J. Berger	--	--	67	6	.3
134	17 miles east	1, S ¹ / ₄ SW ¹ / ₄	F.D.W. blk. 8	J. E. Close	--	--	11	4	.3
135	18 miles east	2, NE cor. SW ¹ / ₄	do.	C. R. Bonner	--	--	28	42	.3
136	19 ¹ / ₂ miles east	1, SE ¹ / ₄ NW ¹ / ₄	F.D.W. blk. 10	E. S. Pritchard	--	--	164	5	2
137	21 ¹ / ₂ miles east	5, SE ¹ / ₄ NW ¹ / ₄	F.D.W. blk. 11	S. C. Helm	--	--	270	5	1.3
138	18 ¹ / ₂ miles east	8, SW ¹ / ₄ NE ¹ / ₄	do.	do.	--	--	274	4	3
139	15 ¹ / ₂ miles east	26, NE ¹ / ₄ NE ¹ / ₄	Capitol Syndicate blk. 8	A. Q. Bonner	--	--	200 ¹ / ₂	4	3
140	14 ¹ / ₂ miles east	6, SE cor.	do.	do.	--	--	200 ¹ / ₂	5	3
142	13 ¹ / ₂ miles east	37, NE cor. NW ¹ / ₄	do.	G. H. Brewster	C. Day	1923	160	6	1
143	do.	do.	do.	do.	Buffalo Oil Syndicate	--	1,085	--	--
145	11 miles east	9, NE ¹ / ₄ SW ¹ / ₄	do.	C. L. Fountain	--	--	79	4	2
146	10 miles southeast	20, SE cor.	do.	A. E. Powers	--	--	85 ¹ / ₂	4	1.5
147	11 ¹ / ₂ miles southeast	39, S ¹ / ₄ SW ¹ / ₄	do.	Mrs. T.M. John	--	1917	180	4	3
148	14 ¹ / ₂ miles southeast	47, SW ¹ / ₄ SE ¹ / ₄	do.	R. S. Harrel	--	--	196	4	1
149	15 miles southeast	36, SE ¹ / ₄ SE ¹ / ₄	do.	F. O. Seward	--	--	169	5	1
150	16 miles east	34, SW ¹ / ₄ SW ¹ / ₄	do.	A. Q. Bonner	--	--	20 ¹ / ₂	4	3.5
152	16 ¹ / ₂ miles southeast	57, N ¹ cor.	do.	C. O. Hawk	--	--	250	4	1
153	19 ¹ / ₂ miles southeast	74, SE cor.	do.	A. Q. Bonner	--	--	300 ¹ / ₂	4	4
154	16 miles southeast	77, S ¹ cor. NW ¹ / ₄	do.	J. Q. Sewell	--	1926	269	4	1.5
155	14 miles southeast	64, SE ¹ / ₄ NW ¹ / ₄	do.	F. Moren	--	--	225	4	2
157	7 ¹ / ₂ miles southeast	62, SW cor. NW ¹ / ₄	Capitol Syndicate blk. 7	R. N. Lane	--	--	78	--	1
158	4 ³ / ₄ miles southeast	77, NW ¹ / ₄ SE ¹ / ₄	do.	G. H. Gardets	--	--	90	3 ¹ / ₂	3
159	3 ¹ / ₄ miles southeast	83, SE cor. NE ¹ / ₄	do.	L. E. Paige	--	--	125	4	1
160	2 miles southeast	84, NE ¹ / ₄ NW ¹ / ₄	do.	do.	--	--	116	6	1.2
163	2 mile southwest	91, SE cor. NE ¹ / ₄	do.	A. M. Hougen	--	1918	126	4	1

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C. R. Follett, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
127	20.	e/	C,W	D,S,I	Flat	30 feet steel casing at top. Estimated yield, 3 gallons a minute from coarse red sand. Vegetable garden irrigated.
129	45.	e/	C,W	D,S,I	Slope	Steel casing, top to vegetable garden irrigated, bottom. Reported yield, 6 gallons a minute
130	17.6	Jan. 16, 1937	C,H	N	do.	Un- [from gray sand. Vegetable garden irrigated. able to see casing.
132	35.8	Jan. 19, 1937	C,W	N	do.	Measuring point, S side of steel casing.
134	10.3	Mar. 8, 1937	C,N	N	Creek bottoms	Measuring point, NE side of steel casing.
135	23.6	Mar. 11, 1937	None	N	Slope	Measuring point, top of platform. Dug well. No casing.
136	132.7	Feb. 4, 1937	C,W	N	Flat	Measuring point, E side of steel casing.
137	225.0	Mar. 20, 1937	C,W	N	Slope	Steel casing.
138	206.8	Mar. 8, 1937	C,W	N	do.	Do.
139	178.9	Feb. 5, 1937	None	N	Flat	Steel casing. Unable to measure depth.
140	186.4	do.	C,W	S	Gentle slope	Measuring point, W side steel casing. Unable to measure depth.
142	149.7	Feb. 1, 1937	C,W	D,S	dp.	Measuring point, W side steel casing. Reported yield, 5 gallons a minute. Never fails in
143	--	--	None	N	do.	Oil test. See log. drought.
145	45.2	Mar. 8, 1937	C,W	N	Ridge-top	Steel casing.
146	82.2	do.	C,W	N	Gentle slope	Steel casing. Unable to measure depth.
147	160.	e/	C,W	D,S,I	do.	Steel casing. Unable to measure. Vegetable garden irrigated. Never fails in drought.
148	192.7	Feb. 1, 1937	C,W	N	do.	Measuring point, W side steel casing.
149	165.6	do.	C,W	N	Slope	Unable to see casing.
150	21.	e/	C,W	S	Creek bottoms	Unable to measure. Steel casing.
152	247.8	Mar. 9, 1937	C,W	N	Gentle slope	Steel casing.
153	292.6	do.	C,W	S	Ridge-top	Steel casing. Unable to measure depth.
154	224.0	do.	C,W	D,S	Gentle slope	Steel casing. Water level measured while pumping $\frac{1}{4}$ gallon a minute.
155	206.7	do.	C,W	N	Slope	Steel casing. Near Highway 87.
157	73.4	Feb. 22, 1937	C,W	S	Gentle slope	Unable to see casing. Near Highway 87.
158	73.0	do.	C,W	N	Ridge-top	Steel casing. Near Highway 87.
159	72.1	do.	C,W	N	Gentle slope	Measuring point, E side steel casing. Near Highway 87.
160	106.9	Jan. 26, 1937	C,W	D,S	do.	Measuring point, N side steel casing.
163	111.7	Jan. 27, 1937	C,W	D,S	do.	Measuring point, W side steel casing.

Records of wells and springs in Dallas County--Continued

No.	Distance from Texline	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
164	1 mile southwest	91, SE $\frac{1}{4}$ SE $\frac{1}{4}$	Capitol Syndicate blk. 7	A. M. Fougen	--	Before 1918	29	6	1
166	1 mile south	88, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Ed. Hartzell	--	--	48	6	2
167	do.	do.	do.	do.	--	--	132	6	1.4
168	1 $\frac{3}{4}$ miles south	88, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	W. C. Greer	--	--	188	5	1
170	3 miles south	71, NE cor.	do.	J. B. Baker	J. B. Baker	1918	177	4	1
171	3 $\frac{3}{4}$ miles south	72, SE cor. SW $\frac{1}{4}$	do.	W. S. Stewart	--	1917	137	5	3
173	5 $\frac{1}{2}$ miles south	49, NE cor. NW $\frac{1}{4}$	do.	Trustees	--	--	114	6	2
177	9 miles south	13, SW cor. NW $\frac{1}{4}$	do.	First Nat'l Bank	--	--	115	6	3
178	6 $\frac{1}{2}$ miles south	48, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	W. T. Hardy	--	1931	96	5	2
180	5 $\frac{1}{2}$ miles southeast	66, NE cor. SE $\frac{1}{4}$	do.	A. J. Klute Estate	--	--	111	4	2.5
181	7 miles southeast	46, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	A. Loger	--	1916	107	4	1
184	do.	44, N ^W cor.	do.	M. Tefro	--	--	94	4	1
185	9 miles southeast	37, SW cor.	do.	Mae Kunz	--	--	86	4	2
187	do.	43, SE cor. NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	H. Schniers	--	1907	124	4	.6
188	12 $\frac{1}{2}$ miles southeast	20, SE cor. NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	B. H. Bolk	James Day	1910	125	4	2
190	15 miles southeast	21, NE $\frac{1}{4}$ NE $\frac{1}{4}$	Capitol Syndicate blk. 6	J. M. Boeckner	--	--	197 $\frac{1}{2}$	4	1
191	14 $\frac{1}{2}$ miles southeast	22, NE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Trustees	--	--	94	5	2
193	13 miles southeast	43 SW cor.	do.	J. J. Becker	--	--	92	4	3
194	10 $\frac{1}{2}$ miles south	53, NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Trustees	--	--	87	6	.5
195	11 miles south	48, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	O. P. Brummet	1930	140	4	--
196	do.	49, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	R. F. Hefley	--	--	149	6	3
197	12 $\frac{1}{2}$ miles south	31, SW cor. NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	J. V. Forth	--	--	149	4	1.3
198	14 $\frac{1}{2}$ miles south	11, SE cor.	do.	E. R. Montgomery	--	--	139	5	1
199	15 $\frac{1}{2}$ miles south	9, SW cor.	do.	J. H. Schmidt	--	--	143	5	.5
200	14 $\frac{1}{2}$ miles south	14, SW cor.	do.	J. Wiebe	Chas. Day	1930	155	4	1.3
201	15 miles south	15, SE $\frac{1}{2}$ SE $\frac{1}{4}$	do.	Helen Kusch	--	--	141	4	1.6
202	14 miles south	25, NE cor. SE $\frac{1}{4}$	do.	C. Wackenrin	--	1929	106	4	1

C. R. Follett, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
164	13.5	Jan. 27, 1937	C,W	S	Creek bottoms	Measuring point, SW side steel casing. Measured 7 feet drawdown after pumping 3 gallons a minute for 28 minutes.
166	35.4	do.	C,W	D,S	do.	Measuring point, NE side galvanized iron casing. Estimated yield, 3 gallons a minute.
167	100.4	do.	C,W	D,S	Slope	Steel casing. Estimated yield, 3 gallons a minute.
168	149.	e/	C,W	D,S,I	Gentle slope	Steel casing. Unable to measure. Vegetable garden irrigated. Measured yield, 2 gallons a minute.
170	146.1	Jan. 26, 1937	C,W	D,S,I	do.	160 feet steel casing at top. Vegetable garden and orchard irrigated. Reported hard rock 160-170 feet. Reported strong supply from coarse sand 170-177 feet.
171	120.6	do.	C,W	D,S	Ridge-top	Never fails in drought. Reported yield, 3 gallons a minute.
173	83.5	Feb. 8, 1937	C,W	N	Flat	Steel casing. Estimated yield, 3 gallons a minute.
177	95.9	do.	C,W	S	Gentle slope	Do.
178	75.1	do.	C,W	D,S	Flat	Steel casing. Reported yield, 3 gallons a minute.
180	81.6	Mar. 5, 1937	C,W	S	Gentle slope	Steel casing.
181	93.5	do.	C,W	D,S	do.	Steel casing. Reported yield, 2 gallons a minute.
184	82.1	do.	C,W	S	Ridge-top	Steel casing.
185	75.9	do.	C,W	S	Gentle slope	Do.
187	94.0	Feb. 22, 1937	C,W	D,S	Ridge-top	Steel casing. Reported yield, 3 gallons a minute. Never fails in drought.
188	110.3	Mar. 5, 1937	C,W	D,S	Flat	Steel casing. Reported yield, 3 gallons a minute. Sanded up recently.
190	184.2	Feb. 12, 1937	C,W	N	do.	Steel casing. Unable to measure depth.
191	80.2	Feb. 11, 1937	C,W	N	Creek bottoms	Steel casing.
193	76.8	do.	C,W	N	Slope	Do.
194	74.0	Feb. 8, 1937	C,W	S	Creek bottoms	Steel casing. Estimated yield, 3 gallons a minute.
195	122.	e/	C,W	D,S,I	Gentle slope	Steel casing. Reported yield, 2 gallons a minute. Never fails in drought.
196	133.5	Jan. 28, 1937	C,W	N	Rough	Steel casing.
197	133.8	Feb. 10, 1937	C,W	N	Gentle slope	Do.
198	116.8	do.	C,W	S	do.	Measuring point, S side steel casing. Estimated yield, 3 gallons a minute.
199	122.7	Mar. 2, 1937	C,W	N	do.	Steel casing.
200	103.4	Feb. 11, 1937	C,W	D,S	Flat	Measuring point, S side steel casing. Reported yield, 3 gallons a minute from gray sand, 148-150 feet.
201	99.8	do.	C,W	N	Gentle slope	Steel casing. Estimated yield, 3 gallons a minute.
202	88.1	Feb. 10, 1937	C,W	D,S	Flat	Steel casing. Estimated yield, 3 gallons a minute. Never fails in drought.

Records of wells and springs in Daillam County--Continued

No.	Distance from Texline	Section	Sub-division and Block	Owner	Driller	Date completed-	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
203	16 miles south	18, SW $\frac{1}{4}$ SE $\frac{1}{4}$	Capitol Syn- dicate blk. 6	R. Sallaska	--	--	112	4	1
204	17 miles south	76, NE $\frac{1}{4}$ NE $\frac{1}{4}$	Capitol Syn- dicate blk. 5	Peter Toews	--	--	78 $\frac{1}{2}$	4	--
205	18 miles south	77, SW cor. SE $\frac{1}{4}$	do.	E. O. Foster	--	1911	106	4	1
206	18 $\frac{1}{2}$ miles south	55, NW cor.	do.	Ike Thiessen	--	--	92	4	1.5
207	16 $\frac{1}{2}$ miles south	74, SE cor. NE $\frac{1}{4}$	do.	P. O. Reimer	--	--	84	4	1
208	16 miles south	74, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Trustees	--	1928	94	4	1
210	17 $\frac{1}{2}$ miles south	63, SW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	do.	--	--	125	6	--
211	do.	do.	do.	do. Prairie Oil & Gas Co.	--	1921	2,345	8 $\frac{1}{2}$	--
213	16 $\frac{1}{2}$ miles south	66, NE cor.	do.	J. Grutch field	--	1917	125	6	--
216	20 miles south	34, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	James Lutes	--	--	140	6	3
217	do.	42, SE cor.	do.	Trustees	--	--	156	5	1
218	21 miles south	38, NW cor.	do.	L. C. Koontz	--	--	192	4	4
219	do.	39, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	J. W. Lasswell	--	--	194	4	2
220	20 $\frac{1}{2}$ miles south	53, SW cor.	Capitol Syn- dicate blk. 4	G. M. Walter	--	1920	192	4	1
222	24 miles southeast	61, SE cor.	do.	W. G. Wharton	--	--	259 $\frac{1}{2}$	4	2
224	25 miles southeast	123, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Ora Gilmore	--	--	261	4	.5
225	24 miles southeast	124, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	L. P. Moren	Wright	1923	257	4	1
226	22 miles southeast	47, SW cor.	do.	J. Taylor Estate	--	--	276 $\frac{1}{2}$	4	--
227	21 miles southeast	45, NW cor.	do.	J. M. Taylor	--	--	295	4	1
228	19 $\frac{1}{2}$ miles southeast	2, NE cor. SE $\frac{1}{4}$	do.	do.	--	--	230 $\frac{1}{2}$	4	3
230	16 $\frac{1}{2}$ miles southeast	18, SW cor. SE $\frac{1}{4}$	do.	C. O. Hazelton	--	--	226 $\frac{1}{2}$	4	2.5
231	13 miles southeast	26, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	L. Lamberger	--	--	228	4	2
232	11 miles southeast	38, west edge	do.	B. Thomas	--	1916	159	4	4
233	18 $\frac{1}{2}$ miles southeast	29, NE cor. SE $\frac{1}{4}$	Capitol Syn- dicate blk. 3	J. L. Smith	--	--	300 $\frac{1}{2}$	4	1.5
234	21 $\frac{1}{2}$ miles southeast	23, NE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	are School	--	1931	300 $\frac{1}{2}$	4	1
235	24 $\frac{1}{2}$ miles southeast	1, SW cor. SE $\frac{1}{4}$	do.	W. M. Green Estate	--	--	228	4	1.5
236	31 miles north	14/70 near west end	T. C. RR. Co. blk. M 27	Z. C. Collier	--	--	180	4	.5

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

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

C. R. Follett, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
203	88.6	Feb. 12, 1937	C,W	D,S	Gentle slope	Steel casing.
204	78.	e/	C,W	N	do.	Steel casing. Unable to measure.
205	89.8	Feb. 12, 1937	C,W	D,S,I	Flat	Steel casing. Reported yield, 3½ gallons a minute. Never fails in drought.
206	75.2	Feb. 10, 1937	C,W	N	do.	Steel casing.
207	66.2	do.	C,W	N	Slope	Do.
208	77.0	Mar. 2, 1937	C,W	D,S	Flat	Steel casing. Estimated yield, 5 gallons a minute.
210	105.8	do.	C,W	S	Hill-top	Steel casing. Estimated yield, 5 gallons a minute. Water level taken while pumping 5 gallons a minute.
211	--	--	None	N	do.	Oil test. See log.
213	90.9	Mar. 2, 1937	C,W	D,S	Gentle slope	Steel casing. Reported yield, 10 gallons a minute from gray sand at 120 feet.
216	133.8	Feb. 10, 1937	C,W	N	do.	Steel casing.
217	136.2	Feb. 12, 1937	C,W	N	do.	Galvanized iron casing.
218	158.8	do.	C,W	N	do.	Steel casing.
219	190.8	Mar. 2, 1937	C,W	F	do.	Do.
220	178.5	Feb. 12, 1937	C,W	D,S	Flat	Do.
222	252.2	Mar. 1, 1937	C,W	D,S	do.	Do.
224	200.6	do.	C,-	N	Gentle slope	Do.
225	219.8	Apr. 1, 1937	C,W	D,S	Ridge-top	Steel casing. Estimated yield, 3 gallons a minute. Never fails in drought.
226	--	--	None	N	Flat	Steel casing. Well filled above static water level with sand.
227	280.6	Feb. 13, 1937	C,W	N	do.	Steel casing.
228	226.6	do.	C,W	N	do.	Steel casing. Unable to measure depth.
230	207.8	Mar. 6, 1937	C,W	N	Gentle slope	Do.
231	201.0	Mar. 5, 1937	C,W	N	do.	Measuring point, bottom of notch on SW side of steel casing.
232	151.2	do.	C,W	D,S	Flat	Steel casing. Reported yield, 4 gallons a minute. Never fails in drought.
233	--	--	C,W	N	Slope	Steel casing. Unable to measure.
234	286.3	Apr. 10, 1937	C,W	P	Flat	Steel casing. Unable to measure depth.
235	220.6	Apr. 1, 1937	C,W	S	Gentle slope	Steel casing. Estimated yield, 3 gallons a minute.
236	133.3	Mar. 12, 1937	C,N	N	do.	Steel casing.

c/ D, domestic; S, stock; I, irrigation; Ind, industrial; P, public; A, not used.

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Dallam County--Continued

No.	Distance from Dalhart	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
237	29½ miles north	19, NW¼NW¼	T. C. RR. Co. blk. M27	J. C. Blackburn	--	--	121	4	1
238	do.	David Harmon	do.	D. Harmon	--	--	79	4	1
239	do.	do.	do.	do.	--	--	69½	4	--
240	27½ miles north	22, NW¼NW¼	Capitol Syn- dicate blk.18	J. S. Penner	--	--	44	6	1.2
241	26½ miles north	30, NW cor.	do.	J.F. Shellenberg	--	1937	135	12	0
242	do.	28, NE cor.	do.	Coldwater School	--	--	59	5	1
243	28 miles north	2, SE cor.	do.	A. P. Epp	--	--	64	4	1.5
244	27 miles north	26, SE cor.	do.	J. A. Schmidt	--	--	41½	4	1
246	25 miles north	53, NE¼NW¼	do.	P. Goosen	--	--	95	4	1
248	do.	50, NW¼SW¼	do.	G. Wiebe	--	--	37	6	2.5
250	24½ miles north	48, SW¼SW¼	do.	C. C. Nickels	--	1927	84	4	--
251	25½ miles north	49, NE cor.	do.	do.	--	--	43	4	1
254	24 miles north	58, SW cor. NW¼	do.	A. H. Unruh	--	--	92	4	1
255	24½ miles north	58, NW cor. NE¼	do.	G. Fritzler	--	--	94	4	.5
256	25 miles north	45, 46	do.	J. T. Sneed, Jr.	--	--	--	--	--
257	24½ miles north	60, NW cor.	do.	M. J. Graft	--	--	140	5	.2
258	24 miles north	62, SE cor.	do.	J. T. Sneed, Jr.	--	--	94½	6	--
259	25 miles north	44, SW¼NE¼	do.	do.	--	--	70	6	2
260	27½ miles north	18, NW cor.	do.	do.	--	--	92	6	2
261	26½ miles north	37, NE¼NW¼	do.	do.	--	--	240½	6	3
262	do.	7, SW¼NW¼	H.&T. C. RR.Co. R. blk. 50 Crabtree		--	--	290	6	--
263	27 miles north	5, SE¼SE¼	do.	E. N. Crabtree	--	--	200½	4	3
264	27 miles northeast	109, NE¼SW¼	H.&T. C.RR.Co. R. L. blk. 47½ Motley		--	--	257	4	1.3
265	25½ miles northeast	10, SE¼SE¼	I.& G.N.RR.Co. blk. 1	A.H.Bole, Estate	--	--	226	4	1
266	26½ miles northeast	186, NE cor.	T.& N.O.RR.Co. blk. 1 T	L.A. Thort en	--	--	238	4	--
267	22½ miles northeast	223, NW¼NW¼	do.	T. O. Pugh	--	--	200½	5	1
268	23½ miles northeast	5, SE¼SE¼	I.& G.N.RR.Co. blk. 1	A.H.Bole, Estate	--	--	200½	4	1
269	20 miles northeast	60, NW¼SE¼	H.& T.C.RR.Co. blk. 47½	A. M. James	--	--	200½	4	.6

C. R. Follett, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
237	71.7	Mar. 12, 1937	C,W	D,S	Gentle slope	Steel casing. Reported yield, 3 gallons a minute. Never fails in drought.
238	66.0	do.	C,W	D,S	Flat	Do.
239	--	--	C,W	N	do.	Steel casing. Filled above static water level with sand.
240	20.2	Mar. 10, 1937	C,W	N	Slope	Steel casing.
241	51.9	do.	T,G, 40	I	Gentle slope	Bolted steel barrel casing at top. Perforated steel casing at bottom. Pumping test not completed. See log.
242	34.1	Mar. 11, 1937	C,H	P	Flat	Steel casing. Estimated yield, 2 gallons a minute. Reported water tur-
243	35.2	Mar. 10, 1937	C,W	N	Gentle slope	Steel casing. bid.
244	37.8	Mar. 4, 1937	C,W	N	Flat	Steel casing. Unable to measure depth.
246	76.4	Mar. 11, 1937	C,W	N	Slope	Steel casing.
248	16.5	Feb. 4, 1937	C,-	N	do.	Do.
250	35.	e/	C,W	D,S	Gentle slope	Steel casing. Unable to measure. Reported yield, 3 gallons a minute. Never fails in
251	37.4	Feb. 4, 1937	C,W	N	do.	Unable to see casing. Estimated yield, 3 gallons a minute. drought.
254	82.5	Mar. 10, 1937	C,W	N	do.	Steel casing.
255	72.6	Apr. 5, 1937	C,W	N	Flat	Do.
256	--	Apr. 27, 1937	--	S	Creek bottoms	Estimated flow, 10 gallons a minute from numerous openings along stream in 2 sections. Re-
257	119.4	Apr. 5, 1937	C,H	N	Gentle slope	Steel casing. Reported less flow in summer. Measuring point, top of wood platform.
258	60.	e/	C,W	N	Slope	Steel casing. Unable to measure.
259	67.4	Apr. 5, 1937	C,W	N	do.	Steel casing.
260	83.2	do.	C,W	N	do.	Do.
261	--	--	None	N	Flat	Steel casing. Filled above static water level with sand.
262	--	--	C,W	D,S	Gentle slope	Steel casing. Unable to measure.
263	--	--	C,W	N	do.	Do.
264	232.1	Mar. 20, 1937	C,W	N	do.	Steel casing.
265	205.7	do.	C,W	D,S	Creek bottoms	Steel casing. Water level taken while pumping 2 gallons a minute. Never fails in drought.
266	--	--	C,W	S	Slope	Steel casing. Unable to measure water level.
267	--	--	C,-	N	Gentle slope	Steel casing. Unable to measure.
268	--	--	None	N	do.	Do.
269	--	--	None	N	do.	Do.

Records of wells and springs in Dallam County--Continued

No.	Distance from Dalhart	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
270	19 miles northeast	62, SW cor. SE $\frac{1}{4}$	H. & T. L. RR. Co.	D. O. Hazelton	--	--	299 $\frac{1}{2}$	4	1
271	21 miles north	86, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	S. T. Fagan	A. Morford	1912	240	6	--
274	23 miles northeast	91, N7 cor.	do.	do.	--	1906	260	6	--
275	do.	99, SW cor.	do.	do.	--	--	197 $\frac{1}{2}$	4	3
276	22 $\frac{1}{2}$ miles north	39, NW cor.	Capitol Syndicate blk. 19	Trustees	--	--	249	4	1.5
277	21 miles north	42, SE cor. NE $\frac{1}{4}$	do.	do.	--	--	199 $\frac{1}{2}$	4	1.5
280	22 miles north	17, SW cor.	do.	G. H. Clem	--	--	300 $\frac{1}{2}$	6	.5
281	22 $\frac{1}{2}$ miles north	17, NW $\frac{1}{4}$	do.	do.	Wood Bros., et al.	4, 506 1928	--	--	--
285	22 miles north	32, SE $\frac{1}{4}$ SE $\frac{1}{4}$	Capitol Syndicate blk. CS	Texas	--	--	271 $\frac{1}{2}$	5	.5
287	22 $\frac{1}{2}$ miles north	4, SW cor.	do.	W. E. McDougall	--	--	240	--	1
289	do.	7, SE cor.	do.	J. J. Sallaska	--	1931	189	4	1
290	do.	25, NW $\frac{1}{4}$ SW $\frac{1}{2}$	do.	E. L. Henderson	--	--	141 $\frac{1}{2}$	6	--
292	23 miles north	10, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	H. F. Friesen	--	--	156	4	.3
294	do.	14, SW cor.	do.	State of Texas	--	--	132 $\frac{1}{2}$	6	.6
295	20 miles north	51, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	269	5	1
299	16 $\frac{1}{2}$ miles north	16, SW $\frac{1}{4}$ NW $\frac{1}{4}$	Capitol Syndicate blk. 9	G. S. Lashley	--	--	300 $\frac{1}{2}$	4	--
300	18 $\frac{1}{2}$ miles north	5, SW cor. NW $\frac{1}{4}$	do.	A. A. Gaede	--	--	172	4	1
301	17 miles north	22, NE $\frac{1}{2}$ NE $\frac{1}{4}$	do.	L. H. Beams	--	--	300 $\frac{1}{2}$	4	--
302	15 miles north	28, NE cor. SE $\frac{1}{4}$	do.	A. Q. Bonner	--	--	300 $\frac{1}{2}$	8	2
304	14 miles north	9, SE $\frac{1}{4}$ NW $\frac{1}{4}$	H. & T. C. RR. Co. blk. 47 $\frac{1}{2}$	A. M. James	Dalhart Oil & Gas Co.	1926	2850	--	--
306	15 miles north	29, NE cor. SE $\frac{1}{4}$	do.	J. J. Glisan	R. F. Bownds	1934	394	5	1
307	17 $\frac{1}{2}$ miles north	47, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	G. E. Moorehead	--	--	400	4	--
308	14 $\frac{1}{2}$ miles north	14, SE cor. NW $\frac{1}{4}$	do.	James Ranch Co.	--	--	252 $\frac{1}{2}$	4	1.5
310	16 miles northeast	26, NW Cor. NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	M. A. Wynne	--	--	300 $\frac{1}{2}$	4	--
311	17 miles northeast	39, SW $\frac{1}{4}$ SE $\frac{1}{2}$	do.	F. F. Ruff	--	--	300 $\frac{1}{2}$	4	.5
313	16 $\frac{1}{2}$ miles northeast	24, SW $\frac{1}{4}$ SE $\frac{1}{2}$	do.	T. O. Pugh	--	--	415	5	2
315	18 miles northeast	21, SW $\frac{1}{2}$ SW $\frac{1}{2}$	do.	M. P. Cockle	--	1927	352	4	1
318	19 $\frac{1}{2}$ miles northeast	291, NW $\frac{1}{4}$	T. & N. O. RR. Co. blk. 1F	C. R. I. RR. Co.	G. C. H. McVay	Old	337	12	--
319	do.	do.	do.	Conlin	--	--	279	4	.7

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
270	--	--	C.-	N	Flat	Steel casing. Unable to measure.
271	220.	e/	C,W	D,S	Creek bottoms	Steel casing. Unable to measure. Reported yield, 4 gallons a minute from fine gray sand.
274	--	--	C,W	D,S	do.	Steel casing. Unable to measure. Never fails in drought. Reported yield, 6 gallons a minute from sand at 260 feet. Never fails in drought.
275	--	--	C,W	S	do.	Steel casing. Unable to measure.
276	240.4	Apr. 5, 1937	C,W	S	do.	Steel casing. Estimated yield, 2 gallons a minute.
277	--	--	C,W	D	Ridge-top	Steel casing. Unable to measure.
280	--	--	C,W	N	Gentle slope	Do.
281	--	--	--	--	--	Oil test. See Log. Exact location not known.
285	--	--	C,W	N	Gentle slope	Steel casing. Unable to measure.
287	230.5	Mar. 17, 1937	C,W	N	Flat	Unable to see casing. Measuring point, top of concrete.
289	157.	e/	C,W	D,S	do.	Steel casing. Unable to measure. Reported weak supply.
290	--	--	N,W	N	Gentle slope	Steel casing. Unable to measure.
292	130.8	Mar. 10, 1937	C,W	N	do.	Galvanized iron casing. Measuring point, top of concrete.
294	--	--	None	N	do.	Galvanized iron casing. Unable to measure.
295	263.2	Mar. 20, 1937	C,W	N	do.	Steel casing.
299	--	--	None	N	do.	Steel casing. Unable to measure.
300	162.5	Mar. 22, 1937	C,H	N	do.	Steel casing.
301	285.	e/	C,W	N	do.	Steel casing. Unable to measure.
302	--	--	C,W	N	do.	Do.
304	--	--	--	--	do.	Oil test. See log.
306	--	--	C,W	D,S	do.	Steel casing. Unable to measure. Reported weak supply but never fails in drought.
307	370.	e/	C,T	D,S	do.	Steel casing. Unable to measure. Reported yield, 3 gallons a minute. Never fails in drought.
308	--	--	C,-	N	do.	Steel casing. Filled above static water level with sand. ught.
310	--	--	C,W	S	do.	Steel casing. Unable to measure.
311	--	--	C,W	S	do.	Do.
313	385.	e/	C,W	N	do.	Do.
315	320.	e/	C,W	D,S	do.	Steel casing. Unable to measure. Reported yield, 3 gallons a minute. Never fails in drought.
318	265.	e/	--	--	Flat	Steel casing. Reported yield, 94 gallons a minute. See log. ught.
319	258.0	Mar. 20, 37	C,W	D,P	do.	Steel casing. Never fails in drought.

Records of wells and springs in Dallas County--Continued

No.	Distance from Dalhart	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
320	17 miles east	392, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	D. M. McKnight	--	--	299 $\frac{1}{2}$	4	1
326	12 $\frac{1}{2}$ miles east	3, NW cor.	S.P.RR.Co. blk. 1	E. McClesky	P. Williams	1931	349	4	1.5
328	11 $\frac{1}{2}$ miles east	22, S $\frac{1}{2}$ cor.	H.& T.C.RR. Co.blk. 48	J. A. Mathews	--	--	290	4	1
329	do.	8, Near SW corner	Joel Moore	L. Wilson	--	Old	320	4	1
330	13 miles east	2, NE $\frac{1}{4}$ NE $\frac{1}{4}$	C.T.RR.Co. blk. 1A	J. Kirkpatrick	--	--	300 $\frac{1}{2}$	4	1.5
334	17 miles northeast	4, SE $\frac{1}{4}$ SE $\frac{1}{4}$	Abraham Smith	W. W. Plumb	--	--	200 $\frac{1}{2}$	4	1
335	14 $\frac{1}{2}$ miles northeast	12, Point, E side	W. M. Pardue	E. Shepperd	--	--	200 $\frac{1}{2}$	4	1
336	11 $\frac{1}{2}$ miles northeast	8, SW cor.	do.	J. R. Jenkins	--	--	300 $\frac{1}{2}$	4	1.7
339	11 miles east	7, SW cor.	Joel Moore	C. Witt	--	1934	319	4	1
342	7 miles east	26, SW $\frac{1}{4}$ SW $\frac{1}{4}$	B.&S.F. blk. 1	E. J. Shriner	--	1926	300 $\frac{1}{2}$	4	1
344	12 miles northeast	10, SW cor.	do.	S. Robinson	--	--	300 $\frac{1}{2}$	6	1
345	13 $\frac{1}{2}$ miles northeast	8, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	H. J. McCuiston	--	--	300 $\frac{1}{2}$	4	2
347	11 miles north	12, NW $\frac{1}{4}$ SW $\frac{1}{4}$	Brooks&Burleson blk. 1	Southwestern Life Ins. Co.	--	1928	400	4	1
348	10 $\frac{1}{2}$ miles north	13, SE cor.	do.	J. L. Welch	--	--	400	5	--
350	do.	3, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Welch Bros.	--	--	300 $\frac{1}{2}$	4	1
353	8 $\frac{1}{2}$ miles north	28, SE $\frac{1}{4}$ SE $\frac{1}{2}$	do.	E. R. Smith	--	1926	320	4	2
354	do.	26, S $\frac{1}{2}$ cor.	do.	L. F. Bolton	--	1917	286	4	1
360	4 $\frac{1}{2}$ miles east	11, SE cor. SW $\frac{1}{4}$	H.& T.C.RR.Co. blk. 48	E. Hariehausen	--	--	200 $\frac{1}{2}$	4	.5
362	In Dalhart	32, NW $\frac{1}{4}$	do.	West Texas Util. Co.	Layne-Texas Co.	--	299	24	--
363	do.	do.	do.	do.	do.	--	--	--	--
366	4 miles north	19, SE cor.	Capitol Syn-dicate blk.1	E. McIlroy	--	1902	500	4	2
367	6 miles north	25, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Price,Dawson&Fuqua	--	--	275	6	0
370	6 $\frac{1}{2}$ miles northwest	28, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	D. Higenbaugh	--	--	287 $\frac{1}{2}$	6	--
371	8 $\frac{1}{2}$ miles north	23, NW cor. SW $\frac{1}{4}$	Capitol Syn-dicate blk.2	Price,Dawson & Fuqua	--	--	300 $\frac{1}{2}$	6	0
373	12 miles north	55, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Vera Ellis	--	--	300 $\frac{1}{2}$	4	1.5
374	11 $\frac{1}{2}$ miles north	53, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Price,Dawson & Fuqua	--	--	300 $\frac{1}{2}$	4	1.3

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

b/ C, cylinder; Cf, centrifugal; T, turbin; W, windmill; G, gasoline engine; S, steam; E, electric motor; H, hand; number indicates horsepower.

C. R. Follett, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
320	--	--	C, W	N	Gentle slope	Steel casing. Unable to measure.
326	312.	e/	C, W	D, S	Ridge-top	Steel casing. Unable to measure. Reported yield, 4 gallons a minute from coarse gravel
328	269.1	Mar. 31, 1937	C, W	D, S	Gentle slope	Steel casing. Reported yield, 3 [] at 349 feet. gallons a minute. Never fails in drought.
329	286.1	do.	C, W	D, S	do.	Do.
330	--	--	C, W	D, S	Mound-top	Steel casing. Unable to measure. Reported yield, 2 gallons a minute. Never fails in dro-
334	--	--	C, W	N	Gentle slope	Steel casing. Unable to measure. [] ught.
335	--	--	C, W	S	do.	Do.
336	--	--	C, W	N	Flat	Do.
339	208.	e/	C, W	D, S	do.	319 feet steel casing, perforated at bottom. Estimated yield, 3 gallons a minute from coarse dark brown sand, 270-319 feet. Never fails in
342	--	--	C, W	N	do.	Steel casing. Unable to measure. [] drought.
344	--	--	C, -	N	Gentle slope	Do.
345	--	--	C, W	D, S	Slope	Do.
347	390.	e/	C, W	D, S	Gentle slope	Steel casing. Unable to measure. Reported yield, 2 gallons a minute. Never fails in dro-
348	390.	e/	C, W	N	do.	Steel casing. Unable to measure. [] ught.
350	286.0	Apr. 13, 1937	C, W	S	do.	Steel casing. Unable to measure depth.
353	281.4	Apr. 10, 1937	C, W	D, S, I	Flat	Steel casing. Unable to measure depth. Report- ed yield, 3 gallons a minute. Well never fails
354	274.	e/	C, W	D, S	do.	Steel casing. Unable to measure. [] in drought. Reported yield, 3 gallons a minute from gravel-
360	--	--	C, W	N	Ridge-top	Steel casing. Unable [] ly clay, 280-286 feet. to measure.
362	248.	e/	T, E, 60	P	Flat	Steel casing. Unable to measure. Reported yield, 265 gallons a minute. See log. Well number 1C. Never fails in drought. Well sands
363	--	--	--	P	do.	See log. City of Dalhart water supply. [] up. Well number 11.
366	263.2	Apr. 10, 1937	C, W	D, S	Slope	Steel casing. Reported yield, 3 gallons a min- ute. Never fails in drought.
367	261.2	Apr. 13, 1937	C, W	N	do.	Steel casing.
370	--	--	C, W	N	do.	Steel casing. Unable to measure.
371	291.0	Apr. 10, 1937	C, W	D, S, I	Ridge-top	Steel casing. Unable to measure depth. Est- imated yield, 4 gallons a minute. Vegetable
373	--	--	C, W	N	Flat	Steel casing. Unable to [] garden irrigated. measure.
374	--	--	C, W	S	Gentle slope	Steel casing. Unable to measure. Estimated yield, 5 gallons a minute.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Dallam County--Continued

No.	Distance from Dalhart	Section	Sub-division and Block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
375	12 miles northwest	46, SW cor.	Capitol Syn- dicate blk.2	G. H. Hanson	--	--	300	4	--
376	10 $\frac{1}{2}$ miles northwest	12, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Hale & Parks	--	--	257	5	2
377	8 $\frac{1}{2}$ miles northwest	3, NE $\frac{1}{4}$ SW $\frac{1}{4}$	do.	E. Ashby	--	1923	214	5	2
380	9 miles west	27, SE $\frac{1}{4}$ NW $\frac{1}{4}$	Brooks & Burleson blk. 2	R. C. Johnson	--	--	155	4	2
381	8 $\frac{1}{2}$ miles west	38, NE cor.	do.	H. F. John	--	1931	198	4	2
382	6 $\frac{1}{2}$ miles west	36, NE cor.	do.	Kate Thompson	--	--	175	4 $\frac{1}{2}$	1
384	5 $\frac{1}{2}$ miles west	31, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	O. F. Salasky	--	--	229	5	1
386	6 miles northwest	14, SE cor.	do.	C. W. Baker	--	--	246	4	0
387	5 $\frac{1}{2}$ miles northwest	1, SE cor.	do.	D. Frampton	--	1906	280	4	--
388	6 $\frac{1}{2}$ miles northwest	2, NW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Price, Dawson & Fuqua	Eden D. Warner	1935	4,126	--	--

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

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

C. R. Follett, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
375	--	--	C,W	D,S	Gentle slope	Steel casing. Unable to measure. Estimated yield, 4 gallons a minute.
376	247.2	Feb. 24, 1937	C,-	N	do.	Steel casing. Near Highway 87.
377	211.6	do.	C,W	D,S	Creek bottoms	Steel casing. Reported yield, 3½ gallons a minute. Never fails in drought.
380	152.6	Apr. 1, 1937	C,W	S	do.	Steel casing.
381	171.0	Mar. 1, 1937	C,W	D,S,I	Gentle slope	Steel casing. Reported yield, 15 gallons a minute. Never fails in drought. Vegetable garden irrigated.
382	166.1	do.	C,W	N	Slope	Steel casing. garden irrigated.
384	200.5	do.	None	N	Ridge-top	Do.
386	235.4	Apr. 1, 1937	C,W	N	Flat	Do.
387	220.	<u>e/</u>	C,W	D,S,I	do.	Steel casing. Reported yield, 3 gallons a minute. Never fails in drought. Vegetable garden irrigated.
388	--	--	--	--	do.	Oil test. See log. irrigated.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Table of Drillers' Logs, Dallam County, Texas

Driller's log of well 28
S. H. Walton, F. W. and D. C. R.R. Co.,
at R.R. roundhouse in Texline.

	Thickness (feet)	Depth (feet)
Clay and sand- - - - -	25	25
Packed sand- - - - -	45	70
Quicksand- - - - -	20	90
Hard rock- - - - -	10	100
Blue clay- - - - -	130	230
Water sand- - - - -	20	250
Hard rock- - - - -	5	255
Soft blue clay- - - - -	5	260
Coarse sand- - - - -	25	285
Hard rock- - - - -	10	295

CASING RECORD: 40 feet of 12 $\frac{1}{2}$ inch casing,
60-100 feet. 243 feet of 10 inch
casing at top. Lower 40 feet of 10 inch
casing perforated.

Drillers' log of well 143
Buffalo Oil Syndicate, G. H. Brewster
farm, 13 $\frac{1}{2}$ miles east of Texline.

Red shale - - - - -	60	60
Gumbo- - - - -	15	75
Blue shale- - - - -	65	140
Water sand- - - - -	20	160
Yellowish shale- - - - -	20	180
Blue shale- - - - -	25	205
Sand rock- - - - -	20	225
Brown shale- - - - -	15	240
Sandy lime rock- - - - -	35	275
Hard lime rock - - - - -	1	276
Sandy gumbo- - - - -	12	288
Lime rock- - - - -	18	296
Blue shale and boulders- - -	12	308
Sandy lime rock- - - - -	2	310
Hard shale- - - - -	6	316
Sand rock - - - - -	5	321
Sandy shale- - - - -	29	350
Gumbo and boulders - - - - -	25	375
Brown shale and boulders - -	40	415
Brown gumbo- - - - -	15	430
Sandy shale and boulders - -	20	450
Hard shale- - - - -	30	480
Sand rock - - - - -	5	485
Packed red sand - - - - -	85	570
Red gumbo- - - - -	30	600
Sand and gravel- - - - -	85	685
Sand rock- - - - -	10	695
Blue shale and boulders- - -	30	725
Blue sandy shale- - - - -	60	785
Sand rock- - - - -	45	830
Packed sand and shale- - - -	31	861
Brown gumbo- - - - -	129	990
Packed sand and shale- - - -	47	1037
Sand rock- - - - -	5	1042
Packed sand and shale- - - -	21	1063
Packed sand and sand rock- -	22	1085

Drillers' log of well 211
Prairie Oil and Gas Co., Trustees farm.
17 $\frac{1}{2}$ miles south of Texline.

	Thickness (feet)	Depth (feet)
Brown shale- - - - -	110	110
Water sand- - - - -	260	380
Blue slate - - - - -	80	460
Slate- - - - -	10	470
Rock- - - - -	40	510
Lime - - - - -	15	525
Sand- - - - -	40	565
Slate- - - - -	15	570
Rock - - - - -	120	690
Slate- - - - -	10	700
Rock- - - - -	25	725
Slate - - - - -	10	735
Rock- - - - -	40	775
Gravel and water- - - - -	7	782
Rock- - - - -	18	800
Slate - - - - -	270	1070
Rock- - - - -	10	1080
Slate - - - - -	40	1120
Lime shell- - - - -	20	1140
Rock- - - - -	50	1190
Slate- - - - -	40	1230
Yellow clay- - - - -	8	1238
Clay- - - - -	5	1243
Shale - - - - -	17	1260
Sand- - - - -	25	1285
Shale- - - - -	75	1360
Sandy lime- - - - -	25	1385
Water sand- - - - -	5	1390
Slate- - - - -	15	1405
Sand- - - - -	45	1450
Water sand- - - - -	50	1500
Shale- - - - -	30	1530
Lime- - - - -	20	1550
Water sand- - - - -	10	1560
Shale- - - - -	5	1565
Water sand- - - - -	95	1660
Sandy lime- - - - -	30	1690
Shale- - - - -	15	1705
Lime- - - - -	25	1730
Shale- - - - -	95	1825
Water sand- - - - -	75	1900
Shale- - - - -	85	1985
Lime- - - - -	20	2005
Shale- - - - -	25	2030
Lime- - - - -	20	2050
Slate - - - - -	5	2055
Lime - - - - -	45	2100
Slate- - - - -	20	2120
Lime- - - - -	20	2140
Slate- - - - -	5	2145
Water sand- - - - -	20	2165
Sandy shale- - - - -	60	2225
Clay- - - - -	25	2250
Sandy shale- - - - -	10	2260

(Continued on next page)

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Table of Drillers' Logs, Dallam County--Continued

Drillers' log of well 211--Continued

	Thickness (feet)	Depth (feet)
Shells- - - - -	20	2280
Quicksand - - - - -	45	2325
Clay- - - - -	20	2345

Drillers' log of well 241
J. F. Shellenberg, J. F. Shellenberg farm.
26½ miles north of Dalhart.
Mostly sand, some spots of
clay- - - - - 52 52
Water in crevices in clay - - 18 70
Red water sand- - - - - 15 85
Clay- - - - - 5 90
Red water sand- - - - - 20 110
Dense yellow clay or shale- - 20 130
Red water sand- - - - - 5 135
(Note: Could not tell how thick last water sand was.)

Drillers' log of well 281
Wood Brothers et al., Trustees. 22½ miles north of Dalhart.

Blue shale- - - - -	-130	130
White shale - - - - -	60	190
Sand- - - - -	10	200
Lime- - - - -	32	232
Blue shale- - - - -	58	290
Pink shale- - - - -	20	310
Lime- - - - -	5	315
Blue shale- - - - -	35	350
Sandy shale, hole full of water	15	365
Sand- - - - -	55	420
Blue shale- - - - -	10	430
Lime- - - - -	10	440
Red rock - - - - -	15	460
Blue shale- - - - -	35	495
Sandy shale - - - - -	45	540
Red rock- - - - -	50	590
Lime- - - - -	25	615
Red rock- - - - -	5	620
Sandy lime- - - - -	20	640
Red rock- - - - -	-140	780
Gypsum water- - - - -	5	785
Sandy lime- - - - -	35	820
Sand- - - - -	15	835
Red rock- - - - -	-120	955
Lime- - - - -	-100	1055
Red rock - - - - -	60	1115
Gray gypsum, 7 bailers of water at 1135 feet- - - - -	35	1150
Red mud- - - - -	-120	1270
Red sand- - - - -	60	1330
Mud- - - - -	20	1350
Lime - - - - -	10	1360
Hard salt- - - - -	70	1430
Soft salt- - - - -	10	1440
Mud- - - - -	10	1450
Hard salt- - - - -	60	1510

Drillers' log of well 281--Continued

	Thickness (feet)	Depth (feet)
Hard pink lime- - - - -	20	1530
Hard white lime - - - - -	30	1560
Hard salt- - - - -	-135	1695
Hard gray lime- - - - -	30	1725
Red mud, hole full of water	20	1745
Soft red sand- - - - -	-165	1910
Red mud- - - - -	10	1920
Red sand- - - - -	50	1970
Brown lime- - - - -	4	1974
Red mud- - - - -	26	2000
Red shale- - - - -	-275	2275
White salt- - - - -	30	2305
TOTAL DEPTH- - - - -		4506

Drillers' log of well 304
Dalhart Oil and Gas Co., A. M. James farm, 14 miles north of Dalhart.

Clay- - - - -	6	6
Lime- - - - -	14	20
Red sandy clay- - - - -	-145	165
Water sand- - - - -	50	215
Red sandy clay- - - - -	15	230
Sand- - - - -	35	265
Red clay- - - - -	45	310
Water sand- - - - -	15	325
Clay- - - - -	10	335
Water sand- - - - -	47	382
Clay- - - - -	13	395
Sand- - - - -	10	405
Water sand and clay - - - -	15	420
Water sand- - - - -	15	435
Red clay- - - - -	15	450
Water sand- - - - -	10	460
Red clay- - - - -	35	495
Hard shale- - - - -	4	499
Blue shale- - - - -	40	539
Red clay- - - - -	10	549
Shale and hard lime - - - -	20	569
Blue shale- - - - -	1	570
Red rock- - - - -	-155	725
Sandy lime, oil show- - - -	10	735
Red rock- - - - -	25	760
Water sand- - - - -	10	770
Gray lime - - - - -	5	775
Water sand- - - - -	15	790
Gray lime- - - - -	10	800
Water sand- - - - -	15	816
Lime water- - - - -	5	820
Red rock- - - - -	12	832
Black shale - - - - -	3	835
Blue slate- - - - -	2	837
Gray lime - - - - -	4	841
Gray sand - - - - -	9	850
Blue shale- - - - -	8	858
Red rock- - - - -	10	868
Hard blue lime- - - - -	4	872

(Continued on next page)

Table of Drillers' Logs, Dallam County--Continued

Drillers' log of well 304--Continued

	Thickness (feet)	Depth (feet)
Light sand-	7	879
Red rock-	6	885
Gray water sand	90	975
Gray lime-	125	1000
Blue shale	10	1010
Red rock-	3	1013
Brown shale-	27	1040
Red rock-	110	1150
Gray lime	45	1195
Red rock-	15	1200
Brown shale	85	1285
Red rock-	25	1310
Quicksand, water-	10	1320
Gray water sand-	5	1325
Red water sand-	30	1355
Gray flint-	5	1360
Red clay-	10	1370
Red sand-	15	1385
Brown shale	7	1392
White lime-	8	1400
Red clay-	3	1403
White lime-	6	1409
Red sand-	4	1413
Sandy white lime-	10	1423
Red clay-	2	1425
White lime-	20	1445
Blue shale-	5	1450
Gray flint-	15	1465
Gray lime-	20	1485
White lime-	15	1500
Red and brown shale-	15	1515
Hard gray lime-	20	1535
Hard black lime	25	1560
Red and blue shale-	5	1565
Sand-	5	1570
Red rock-	5	1580
Oil sand-	150	1730
Lime-	5	1735
Oil sand-	40	1775
Lime-	3	1778
Red shale	22	1800
White sand-	25	1825
Red sand and lime	5	1830
Sand-	5	1835
Red shale-	5	1840
Lime and sand-	2	1842
Sand-	1	1843
Red shale-	5	1848
Sand-	3	1851
Red shale	4	1855
Lime-	2	1857
Red shale	33	1890
Water sand-	10	1900
Red shale	53	1953
Sand-	4	1957
Red shale	3	1960

Drillers' log of well 304--Continued

	Thickness (feet)	Depth (feet)
Sand-	5	1965
Red shale	7	1972
Sand-	4	1976
Red shale	4	1980
Lime-	13	1993
Red shale	6	1999
Sand-	46	2045
Red sand-	20	2065
Sand-	12	2077
Red shale	5	2082
Sand-	105	2187
Red shale	43	2230
Black slate	30	2260
Salt-	30	2290
Black lime-	5	2295
Blue shale-	110	2405
Blue and red shale-	20	2425
Hard lime-	2	2427
Red and blue shale-	28	2455
Red rock-	15	2470
Lime-	4	2474
TOTAL DEPTH		2850

Drillers' log of well 318
 C. H. McVay, C. R. I. & G. R.R. Co. 19½
 miles northeast of Dalhart.
 Soil and clay- 10 10
 Clay and sand- 275 285
 Water sand- 50 335
 TOTAL DEPTH- 337
 CASING RECORD: 288 feet of 12 inch casing.
 41 feet of 10 inch casing lapped 30
 feet into bottom of 12 inch casing. 38
 feet 10 inch strainer at bottom.

Drillers' log of well 388
 Eben D. Warner, Price, Dawson, and Fuqua
 farm. 6½ miles northwest of Dalhart.
 Surface- 25 25
 White gypsum - 30 55
 Light sand- 15 70
 Gray water sand - 175 245
 Yellow clay- 35 280
 Water sand - 28 308
 Quicksand- 62 370
 Brown sand- 5 375
 Gray sand- 15 390
 Yellow sand- 5 395
 White water sand- 25 420
 Yellow clay- 10 430
 Water gravel - 10 440
 Yellow clay- 10 450
 Red shale- 20 470
 Red bed sand, water- 130 600
 Sand, water 4 bailers of water
 per hour- 17 617

(Continued on next page)

Table of Drillers' Logs, Dallam County--Continued

Drillers' log of well 388--Continued	
	Thickness Depth (feet) (feet)
Brown shale- - - - -	208 825
Water sand, hole full of water- - - - -	18 843
Red shale- - - - -	105 948
Sand, hole full of water - -	8 956
Red beds- - - - -	9 965
Broken gray lime, water- - -	10 975
Hard white lime shell- - - -	15 990
Red shale- - - - -	40 1030
Water sand, hole full of water	30 1060
Red bed- - - - -	10 1070
Blue shale - - - - -	10 1080
Quicksand, hole full of water	55 1135
Red rock- - - - -	15 1150
Lime shell- - - - -	2 1152
Red bed- - - - -	15 1167
Sand streak, water - - - - -	1 1168
Sand, hole full of water - -	22 1190
Red beds- - - - -	60 1250
Broken lime, hole full of water- - - - -	48 1298
Red beds- - - - -	7 1305
Broken lime, hole full of water- - - - -	15 1320
Red sandstone and shale- - -	38 1358
Water sand, hole full of water- - - - -	17 1375
Red shale- - - - -	7 1382
Broken lime shell, water - -	3 1385
Red sand, hole full of water	35 1420
Red rock with gypsum shells-	70 1490
Brown sand- - - - -	10 1500
Red rock- - - - -	65 1565
Red sand, hole full of water	45 1610
Brown sandy shell- - - - -	5 1615
Red quicksand, water- - - -	25 1640
Red mud- - - - -	10 1650
White hard anhydrite- - - -	20 1670
Blue shale- - - - -	5 1675
Red rock and gypsum- - - - -	10 1685
Anhydrite- - - - -	110 1795
Broken lime, hole full of water- - - - -	31 1826
Gypsum and lime shell- - - -	36 1862
Red quicksand, hole full of water- - - - -	8 1870
Anhydrite and gypsum water -	3 1873
Quicksand, water - - - - -	10 1883
Anhydrite, broken sand, water	2 1885
Quicksand, water- - - - -	7 1892
Broken red shale- - - - -	18 1910
White sand, water- - - - -	4 1914
Red rock- - - - -	3 1917
White sand, water- - - - -	21 1938
Light red sand, water- - - -	32 1970
Yellow sand, water- - - - -	10 1980

Drillers' log of well 388--Continued	
	Thickness Depth (feet) (feet)
Red rock- - - - -	5 1985
Lime shell- - - - -	7 1992
Yellow sand, hole full of water- - - - -	28 2020
Red beds- - - - -	40 2060
Sand, hole full of water- -	85 2145
Quicksand, hole full of water- - - - -	40 2185
Red beds- - - - -	150 2335
Sandy salt, hole full of water- - - - -	13 2348
Red rock- - - - -	117 2465
Salt- - - - -	141 2606
TOTAL DEPTH	4126

Logs of test wells drilled by W. P. A. labor in Dallam County, Texas
(Samples examined and classified by C. R. Follett, Project Superintendent.)

Well 2

Gently rolling, on side county road, SE corner sec. 1, M. E. Hay Subdivision, 7 1/2 miles north of Texline.

	Thickness (feet)	Depth (feet)
Topsoil- - - - -	4	4
Sandy brown clay- - - - -	2	6
Sandy gray clay- - - - -	3	9
Sandy red clay- - - - -	3	12
Caliche- - - - -	3	15
Coarse red sand and gravel - -	4	19
Coarse sand and small red gravel- - - - -	3	22
Red sand- - - - -	3	25
Red clay with small gravel - -	7	32
Red sandy clay - - - - -	21	53

Jan. 25, 1937.

Well 11

Flat, on side of county road, SE corner sec. 54, M. E. Hay Subdivision, 7 1/2 miles east of Texline.

Topsoil- - - - -	1	1
Caliche- - - - -	8	9
Sandy red clay - - - - -	2	11
Red sand- - - - -	3	14
Gravel with sand - - - - -	3	17
Sand with coarse gravel- - - -	10	27

Dec. 10, 1936.

Well 13

Flat, 400 feet south of Rabbit Ear Creek, on side of county road, SE corner sec. 72, M. E. Hay Subdivision, 7 1/2 miles east of Texline.

Topsoil- - - - -	4	4
Sandy gray clay- - - - -	3	7
Sandy red clay - - - - -	11	18
Caliche and clay - - - - -	8	26
Sandy red clay- - - - -	19	45
Red water sand- - - - -	5	50
Red clay- - - - -	9	59
Red water sand- - - - -	3	62

Struck water at 26 feet.
Water level, 26.3 feet below top of ground, 1 1/2 hours after hole completed.
Dec. 11, 1936.

Well 15

Dry lake bed 7 feet below normal ground, SE corner M. E. Hay farm in sec. 71, M. E. Hay Subdivision, 7 miles east of Texline.

Brown sandy loam- - - - -	4	4
Yellow clay- - - - -	5	9
Clean coarse sand and small gravel- - - - -	21	30

Well 15--Continued

	Thickness (feet)	Depth (feet)
Sandy pink clay- - - - -	1	31
Clean coarse sand and gravel	3	34
Struck water at 14 feet.		
Water level, 13.2 feet below top of ground, 1/2 hour after hole completed. Mar. 22, 1937.		

Well 18

Flat, on side of county road, NW corner sec. 61, M. E. Hay Subdivision, 5 1/2 miles northeast of Texline.

Topsoil- - - - -	4	4
Red clay - - - - -	2	6
Caliche- - - - -	24	30
Red sand- - - - -	7	37
Hard caliche - - - - -	7	44

Struck caliche rock at 44 feet.
Jan. 12, 1937.

Well 22

Flat, on side of county road, SW corner sec. 70, M. E. Hay Subdivision, 5 miles east of Texline.

Topsoil- - - - -	4	4
Caliche- - - - -	5	9
Red sand- - - - -	1	10
Caliche- - - - -	14	24
Red sand- - - - -	1	25
Caliche - - - - -	21	46
Sandy red clay- - - - -	2	48
Red water sand- - - - -	6	54
Sandy red clay- - - - -	3	57

Struck water at 48 feet.
Water level, 44.37 feet below top of ground, 72 hours after hole completed.
Dec. 29, 1936.

Well 26

Flat, on side of county road, SW corner sec. 38, M. E. Hay Subdivision, 3 1/2 miles north of Texline.

Topsoil- - - - -	2	2
Caliche- - - - -	11	13
Small sandy caliche and gravel	15	28
Sandy caliche- - - - -	2	30
Caliche, rocks, and sand - -	8	38

Jan. 25, 1937.

Well 27

Near dry creek, on side of county road, 400 feet north of SE corner sec. 55, M. E. Hay Subdivision, 1 3/4 miles north of Texline.

Topsoil- - - - -	6	6
Caliche and caliche rock - -	2	8

Jan. 20, 1937.

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

Well 32
 Dry creek bed, southwest corner of bridge on Highway 87, sec. 87, M. E. Hay Subdivision, 2 $\frac{1}{2}$ miles southeast of Texline.

	Thickness (feet)	Depth (feet)
Loose sand and gravel-	6	6
Sand and large rock-	2	8
Coarse sand-	7	15

Feb. 15, 1937.

Well 33
 Rolling, on side of county road, at turn, center east line sec. 83, M. E. Hay Subdivision, 5 miles east of Texline.

Topsoil-	2	2
Pink caliche-	9	11

Struck caliche rock at 11 feet.
 Dec. 14, 1936.

Well 35
 Gently rolling, on side of county road, SE corner sec. 94, M. E. Hay Subdivision, 5 $\frac{1}{2}$ miles southeast of Texline.

Topsoil-	5	5
Pink caliche-	14	19

Struck caliche rock at 19 feet.
 Dec. 14, 1936.

Well 36
 Rolling, on side of county road, SW corner sec. 24, Block 1, F. D. W. Subdivision, 8 $\frac{1}{2}$ miles northeast of Texline.

Topsoil-	3	3
Caliche-	4	7

Struck caliche rock at 7 feet.
 Dec. 11, 1936.

Well 43
 Gently rolling, on side of county road, NW corner sec. 3, Block 3, F. D. W. Subdivision, 12 miles east of Texline.

Topsoil-	2	2
Rocky caliche-	10	12

Struck rock at 12 feet.
 Jan. 14, 1937.

Well 48
 Dry lake bed, on side of county road, center of east line SE $\frac{1}{2}$ sec. 3, Block 2, F. D. W. Subdivision, 9 $\frac{1}{2}$ miles east of Texline.

Topsoil-	2	2
Sandy red clay-	3	5
Sandy blue clay-	6	11
Sandy red clay-	2	13
Red sand-	17	30
Sandy gray clay-	6	36

Struck water at 5 feet.
 Water level, 4.4 feet below top of ground, $\frac{1}{2}$ hour after hole completed.
 Dec. 23, 1936.

Well 55
 Dry lake bed, on side of county road, SW corner sec. 1, Block 4, F. D. W. Subdivision, 9 $\frac{1}{2}$ miles east of Texline.

	Thickness (feet)	Depth (feet)
Sandy reddish-gray clay-	3	3
Sandy blue clay-	6	9
Sandy pink clay-	31	40

Struck water at 4 feet.
 Water level, 2.2 feet below top of ground, April 19, 1937.

Well 66
 Dry lake bed, 15 feet below normal ground, 350 feet inside center of south line Troy Thompson farm in sec. 6, Block 4, F. D. W. Subdivision, 11 $\frac{1}{2}$ miles east of Texline.

Sandy reddish-brown clay-	8	8
Sandy grayish-brown clay-	4	12
Bluish clay-	28	40

Struck water at 12 feet.
 Water level, 5.2 feet below top of ground, 24 hours after hole completed.
 April 19, 1937.

Well 67
 Gently rolling, on side of county road, NE corner sec. 4, Block 4, F. D. W. Subdivision, 13 miles east of Texline.

Topsoil-	1	1
Red sand-	3	4
Sandy brown clay-	1	5
Red sandy clay-	2	7
Red sand-	2	9
Sandy gray clay-	3	12
Sandy red clay-	1	13
Sandy gray clay-	3	16
Pink sand-	2	18
Sandy blue clay-	2	20
Sandy yellow clay-	3	23
Sandy gray clay-	9	32
Sandy red clay-	2	34
Sandy yellow clay-	4	38
Sandy red clay-	4	42
Red clay-	7	49

Struck water at 8 feet.
 Water level, 6.8 feet below top of ground, 18 hours after hole completed.
 Jan. 12, 1937.

Well 69
 Dry lake bed 10 feet below normal ground, on side of county road, 200 feet east of NW corner sec. 5, Block 5, F. D. W. Subdivision, 11 $\frac{1}{2}$ miles east of Texline.

Topsoil-	3	3
Sandy brown clay-	6	9

(Continued on next page)

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

Well 69--Continued

	Thickness (feet)	Depth (feet)
Sandy blue-brown clay- - - - -	2	11
Sandy blue clay- - - - -	35	46
Struck water at 9 feet.		
Water level, 7.5 feet below top of ground, 17 hours after hole completed.		
Dec. 15, 1936.		

Well 71

Flat, on side of county road, NW corner sec. 3, Block 5, F. D. W. Subdivision, 9 1/2 miles east of Texline.

Topsoil- - - - -	3	3
Sandy red clay - - - - -	6	9
Red sand- - - - -	7	16
Sandy red clay- - - - -	9	25
Red water sand- - - - -	1	26
Sandy red clay- - - - -	7	33
Red sand- - - - -	1	34
Sandy red clay- - - - -	6	40
Red sand- - - - -	1	41
Sandy red clay- - - - -	12	53
Sandy blue clay - - - - -	2	55

Struck water at 25 feet.
Water level, 24.5 feet below top of ground, 17 hours after hole completed.
Dec. 15, 1936.

Well 77

Flat, center of east line of C. C. Cook Estate farm in sec. 10, Block 5, F. D. W. Subdivision, 10 1/2 miles east of Texline.

Topsoil- - - - -	4	4
Yellow clay- - - - -	3	7
Sandy yellow clay- - - - -	3	10
Coarse water sand- - - - -	4	14
Gray clay- - - - -	2	16
Sandy gray clay- - - - -	2	18
Gray clay- - - - -	3	21
Sandy red clay - - - - -	2	23
Gray clay- - - - -	9	32
Red water sand - - - - -	1	33
Red clay- - - - -	2	35
Gray clay - - - - -	4	39
Coarse red water sand- - - - -	3	42
Sandy red clay- - - - -	5	47

Struck water at 16 feet.
Water level, 16.2 feet below top of ground, 1/2 hour after hole completed.
Dec. 22, 1936.

Well 78

Flat near dry creek, on side of county road, across road from NW corner sec. 92, M. E. Hay Subdivision, 7 1/2 miles east of Texline.

Topsoil- - - - -	2	2
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Well 78--Continued

	Thickness (feet)	Depth (feet)
Caliche- - - - -	12	14
Yellow clay- - - - -	9	23
Sandy yellow clay- - - - -	2	25
Yellow clay- - - - -	25	50
Sandy yellow clay- - - - -	1	51
Yellow clay- - - - -	10	61
Sandy yellow clay- - - - -	4	65
Struck water at 23 feet.		
Dec. 11, 1936.		

Well 79

Slightly rolling, on side of county road, SW corner sec. 24, Block 5, F. D. W. Subdivision, 8 miles east of Texline.

Topsoil- - - - -	5	5
Red sand- - - - -	8	13
Caliche- - - - -	3	16
Red sand - - - - -	4	20
Caliche- - - - -	20	40

Struck rock at 40 feet.
Dec. 12, 1936.

Well 83

Flat, SW corner C. N. Plaster farm in sec. 21, Block 5, F. D. W. Subdivision, 11 miles east of Texline.

Topsoil- - - - -	2	2
Sand- - - - -	3	5
Sandy yellow clay - - - - -	6	11
Water sand- - - - -	1	12
Sandy red clay- - - - -	2	14
Red water sand- - - - -	3	17
Sandy red clay- - - - -	4	21
Red water sand- - - - -	3	24
Sandy red clay- - - - -	8	32

Struck water at 11 feet.
Water level, 10.4 feet below top of ground, 1/4 hour after hole completed.
Dec. 22, 1936.

Well 86

Flat, on side of county road, NW corner sec. 13, Block 6, F. D. W. Subdivision, 13 miles east of Texline.

Topsoil- - - - -	1	1
Red sand - - - - -	6	7
Sandy red clay- - - - -	4	11
Red water sand- - - - -	1	12
Sandy red clay- - - - -	2	14
Red water sand- - - - -	1	15
Sandy red clay- - - - -	3	18
Red water sand and small gravel- - - - -	4	22

Struck water at 11 1/2 feet.
Water level, 11.2 feet below top of ground, 68 hours after hole completed.
Dec. 16, 1936.

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

Well 88

Flat, on side of county road, SW corner sec. 24, Block 6, F. D. W. Subdivision, 13 miles east of Texline.

	Thickness (feet)	Depth (feet)
Topsoil-	2	2
Sandy red clay-	3	5
Sandy caliche-	3	8
Sandy red clay	4	12
Yellow clay-	3	15
Yellow sand-	2	17
Yellow water sand-	2	19
Sandy gray clay-	10	29
Sandy gray clay and small gravel-	3	32

Struck water at 17 feet.
Water level, 18.7 feet below top of ground, 1/2 hour after hole completed, Dec. 19, 1936.

Well 89

Flat, on side of county road, SW corner sec. 22, Block 6, F. D. W. Subdivision, 15 miles east of Texline.

Topsoil-	2	2
Sandy red clay-	1	3
Red sand-	3	6
Caliche-	10	16

Struck rock at 16 feet.
Dec. 19, 1936.

Well 99

Flat valley bottom, on side of county road, SE corner sec. 20, Block 7, F. D. W. Subdivision, 17 miles east of Texline.

Topsoil-	1	1
Sand-	5	6
Sandy red clay	9	15
Red sand-	3	18
Sandy red clay-	6	24
Sandy blue clay-	3	27
Second water at		27 feet.
Blue water sand-	2	29
Sandy red clay	4	33
Red sand-	1	34
Blue water sand-	2	36

Struck water at 9 feet.
Water level, 13.6 feet below top of ground, 66 hours after hole completed, Dec. 16, 1936.

Well 101

Gently rolling, on side of county road, SW corner sec. 20, Block 7, F. D. W. Subdivision, 16 miles east of Texline.

Topsoil-	3	3
Caliche-	6	9

Struck rock at 9 feet.
Dec. 16, 1936.

Well 103

Top of ridge, on side of county road, SW sec. 22, Block 7, F. D. W. Subdivision, 14 miles east of Texline.

	Thickness (feet)	Depth (feet)
Topsoil-	3	3
Caliche-	5	8
Sandy red clay	15	23

Struck rock at 23 feet.
Dec. 16, 1936.

Well 107

Gently rolling, on side of county road, 300 feet south of NW corner sec. 1, Block 7, F. D. W. Subdivision, 13 1/8 miles east of Texline.

Topsoil-	3	3
Brown clay	3	6
Gray clay-	3	9
Brown clay-	4	13
Black clay-	1	14
Sandy blue clay	3	17
Gray clay-	2	19
Yellow clay-	1	20
Gray clay and gravel-	7	27
Yellow clay-	1	28
Pink clay-	4	32
Red clay-	1	33

Struck water at 6 feet.
Water level, 5.3 feet below top of ground, 18 hours after hole completed, Jan. 13, 1937.

Well 110

Gently rolling, on side of county road, SW corner sec. 3, Block 17, Capitol Syndicate Subdivision, 15 miles east of Texline.

Topsoil-	6	6
Red clay-	5	11
Red water sand-	2	13
Sandy red clay and small gravel	11	24
Sandy yellow clay-	6	30
White flaky clay-	5	35

Struck water at 11 feet.
Water level, 11.2 feet below top of ground, 39 hours after hole completed, Jan. 14, 1937.

Well 111

West bank Coldwater Creek, near center sec. 3, Block 17, Capitol Syndicate Subdivision, 15 1/2 miles northeast of Texline.

Sandy reddish-blue clay-	3	3
Gray sand-	2	5
Gray and black sandy clay-	1	6
Grayish-black coarse sand-	2	8

Struck water at 3 1/2 feet.
Quicksand at 8 feet.
Water level, 3.2 feet below top of ground 2 hours after hole completed.
Mar. 3, 1937.

Well 112

East bank Coldwater Creek, near center sec. 3, Block 17, Capitol Syndicate Sub-division, 15 $\frac{1}{2}$ miles northeast of Texline.

	Thickness (feet)	Depth (feet)
Brown sandy clay- - - - -	3	3
Bluish-black sandy clay - - -	8	11
Water sand- - - - -	1	12
Struck water at 3 feet.		
Quicksand at 12 feet.		
Water level, 2.6 feet below top of ground, 3 hours after hole completed.		
Mar. 3, 1937.		

Well 113

Sloping 350 feet east Coldwater Creek, near center sec. 3, Block 17, Capitol Syndicate Subdivision, 15 $\frac{1}{2}$ miles east of Texline.

	Thickness (feet)	Depth (feet)
Sandy brown topsoil and caliche pebbles- - - - -	2	2
Reddish-brown sandy clay- - -	2	4
Yellowish-gray sandy clay - -	2	6
Coarse gray sand- - - - -	1	7
Yellowish-gray sandy clay - -	2	9
Coarse sand- - - - -	2	11
White sandy caliche, wet and soft- - - - -	10	21
Seep water only.		
Water level, 9.1 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Mar. 3, 1937.		

Well 115

North bank Coldwater Creek near north-east corner NW $\frac{1}{4}$ sec. 5, Block 17, Capitol Syndicate Subdivision, 16 miles east of Texline.

	Thickness (feet)	Depth (feet)
Sandy black clay- - - - -	10	10
Reddish-gray sand- - - - -	6	16
Gray clay with yellow streaks	1	17
Pink clay- - - - -	1	18
Coarse red sand- - - - -	1	19
Gray sandstone-with yellow spots- - - - -	2	21
Struck water at 1 $\frac{1}{2}$ feet.		
Water level, 1 foot below top of ground, $\frac{1}{2}$ hour after hole completed.		
Mar. 3, 1937.		

Well 116

South bank Coldwater Creek near north-east corner NW $\frac{1}{4}$ sec. 5, Block 17, Capitol Syndicate Subdivision, 16 miles east of Texline.

	Thickness (feet)	Depth (feet)
Sandy brown clay- - - - -	3	3
Brown sandy clay- - - - -	5	8
Coarse sand and small gravel	2	10

Well 116--Continued

	Thickness (feet)	Depth (feet)
Coarse red sand and gravel- -	3	13
Rust-colored coarse sand and gravel- - - - -	3	16
Coarse sand and small gravel-	4	20
Struck water at 3 feet.		
Water level, 2.2 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Mar. 3, 1937.		

Well 119

Dry lake bed, on side of county road, NW corner sec. 9, Block 17, Capitol Syndicate Subdivision, 19 $\frac{1}{2}$ miles east of Texline.

	Thickness (feet)	Depth (feet)
Topsoil- - - - -	5	5
Sandy gray clay - - - - -	5	10
Coarse gray sand- - - - -	12	22
Clean coarse white sand - - -	2	24
Sandy gray clay- - - - -	4	28
Gray clay- - - - -	1	29
Sandy gray clay- - - - -	1	30
Yellow clay- - - - -	10	40
Sandy red clay - - - - -	3	43
Red water sand- - - - -	$\frac{1}{2}$	43 $\frac{1}{2}$
Gray clay- - - - -	1	44 $\frac{1}{2}$
Gray sand- - - - -	$\frac{1}{2}$	45
Gray clay- - - - -	1	46
Struck water at 24 feet.		
Water level, 25.1 feet below top of ground, 18 hours after hole completed.		
Jan. 18, 1937.		

Well 124

Gently sloping, on side of county road, NW corner sec. 29, Block 17, Capitol Syndicate Subdivision, 20 $\frac{1}{2}$ miles east of Texline.

	Thickness (feet)	Depth (feet)
Sandy brown loam- - - - -	1	1
Sandy red clay- - - - -	27	28
Red sand- - - - -	4	32
Fine red sand - - - - -	6	38
Sandy red clay- - - - -	6	44
Soft wet caliche and sand - -	4	48
Struck water at 44 feet.		
Water level, 42.7 feet below top of ground, 20 hours after hole completed.		
Mar. 10, 1937.		

Well 125

Coldwater Creek bed, on side of county road, 300 feet south of NW corner sec. 32, Block 17, Capitol Syndicate Subdivision, 20 $\frac{1}{2}$ miles east of Texline.

	Thickness (feet)	Depth (feet)
Sandy brown loam- - - - -	4	4
Bluish clay- - - - -	2	6
Sandy blue clay- - - - -	6	12

(Continued on next page)

Well 125--Continued

	Thickness (feet)	Depth (feet)
Sandy reddish clay- - - - -	4	16
Coarse gray sand- - - - -	3	19
Heavy red clay- - - - -	16	35
Red sand- - - - -	1	36
Heavy red clay- - - - -	3	39
Struck water at 6 feet.		
Water level, 5.6 feet below top of ground, $\frac{1}{4}$ hour after hole completed.		
Mar. 4, 1937.		

Well 128

Flat, on side of county road, SE corner sec. 17, Block 17, Capitol Syndicate Subdivision, 19 miles east of Texline.

Topsoil- - - - -	1	1
Red clay- - - - -	4	5
Sandy red clay- - - - -	7	12
Red clay- - - - -	4	16
Sandy red clay- - - - -	7	23
Red sand- - - - -	2	25
Coarse sand- - - - -	1	26
Fine red sand- - - - -	7	33
Sandy red clay- - - - -	5	38
Red clay- - - - -	6	44
Sandy red clay- - - - -	2	46
Red clay- - - - -	23	69
Seep water only at 34 feet.		
Jan. 16, 1937.		

Well 131

Gently sloping, on side of county road, NW corner sec. 25, Block 17, Capitol Syndicate Subdivision, 17 miles east of Texline.

Topsoil- - - - -	2	2
Caliche and caliche rock- -	12	14
Struck caliche rock at 14 feet.		
Jan. 16, 1937.		

Well 133

Gently sloping, on side of county road, SW corner sec. 34, Block 17, Capitol Syndicate Subdivision, 18 miles east of Texline.

Topsoil- - - - -	2	2
Red clay- - - - -	9	11
Gray clay- - - - -	1	12
Sandy gray clay- - - - -	11	13
Brown clay- - - - -	13	26
Blue clay- - - - -	8	34
Blue sand- - - - -	3	37
Sandy yellow clay- - - - -	1	38
Slate gray clay- - - - -	5	43
Sandy gray clay- - - - -	2	45
Coarse gray sand - - - - -	2	47
Struck water at 12 feet.		
Water level, 11.5 feet below top of ground, $\frac{1}{4}$ hour after hole completed.		
Jan. 19, 1937.		

Well 141

Valley bottom, on side of county road, SE corner sec. 24, Block 8, Capitol Syndicate Subdivision, 14 miles east of Texline.

	Thickness (feet)	Depth (feet)
Sandy brown loam- - - - -	6	6
Fine brown sand - - - - -	8	14
Coarse pink sand- - - - -	7	21
Sandy brown clay- - - - -	3	24
Clean coarse sand and small gravel- - - - -	1	25
Sandy red clay-and-gravel - -	13	38
Feb. 1, 1937.		

Well 144

Gently sloping, on side of county road, SW corner sec. 22, Block 8, Capitol Syndicate Subdivision, 11 miles southeast of Texline.

Brown sandy loam- - - - -	4	4
Caliche and caliche rock- - -	8	12
Struck rock at 12 feet.		
Jan. 29, 1937.		

Well 151

Gently sloping, on side of county road, three-eighths mile east of SW corner sec. 50, Block 8, Capitol Syndicate Subdivision, 17 miles southeast of Texline.

Sandy brown loam- - - - -	4	4
Sandy brown clay- - - - -	5	9
Sandy red clay- - - - -	1	10
Brown sand- - - - -	6	16
Pinkish sand- - - - -	4	20
Gray sand- - - - -	1	21
Coarse clean sand and gravel- 2	23	
Feb. 2, 1937.		

Well 156

Gently sloping, on side of county road, SE corner sec. 44, Block 8, Capitol Syndicate Subdivision, 12 miles southeast of Texline.

Sandy brown loam- - - - -	3	3
Brown sand- - - - -	4	7
Red sand- - - - -	5	12
Coarse pink sand and small gravel- - - - -	10	22
Sandy red clay- - - - -	1	23
Coarse pink sand- - - - -	3	26
Red clay- - - - -	4	30
Sandy red clay- - - - -	6	36
Red sand- - - - -	4	40
Sandy red clay- - - - -	4	44
Coarse yellow sand- - - - -	1	45
Sandy gray clay- - - - -	2	47
Clean coarse sand- - - - -	1	48
Pink sand- - - - -	2	50
Sandy pink clay- - - - -	1	51
Feb. 2, 1937.		

Well 161

South creek bank, SE $\frac{1}{4}$ NW $\frac{1}{4}$ Edd Hartzell farm in sec. 88, Block 7, Capitol Syndicate Subdivision, 1 $\frac{1}{2}$ miles south of Texline.

	Thickness (feet)	Depth (feet)
Coarse sand and small gravel-	6	6
Sandy red clay and caliche- -	6	12
Red sand and caliche- - - -	5	17
Sandy red clay and caliche- -	5	22
Sand caving.		
Apr. 20, 1937.		

Well 162

Creek valley 300 feet south of creek, SE $\frac{1}{4}$ NE $\frac{1}{4}$ Edd Hartzell farm in sec. 88, Block 7, Capitol Syndicate Subdivision, 1 $\frac{1}{2}$ miles south of Texline.

Sandy brown loam- - - - -	2	2
Coarse clean sand and small gravel- - - - -	7	9
Sand caving.		
Apr. 20, 1937.		

Well 165

Dry creek bed, middle of bridge over west Rita Blanco, sec. 91, Block 7, Capitol Syndicate Subdivision, 1 mile south of Texline.

Loose sand and gravel- - - -	5	5
Sandstone- - - - -	3	8
Gray clay- - - - -	1	9
Sandstone- - - - -	2	11
Seep water at 5 feet.		
Loose sand caving.		
Feb. 15, 1937.		

Well 169

Flat, on side of county road, NW corner sec. 86, Block 7, Capitol Syndicate Subdivision, 2 miles south of Texline.

Topsoil- - - - -	3	3
Pink caliche - - - - -	9	12
Sandy red clay - - - - -	3	15
Sandy red caliche and small gravel- - - - -	13	28
Red clay- - - - -	4	32
Sandy red clay and small gravel- - - - -	4	36
Red clay- - - - -	2	38
Fine red sand - - - - -	2	40
Coarse red sand and small gravel- - - - -	22	62
Jan. 28, 1937.		

Well 172

Flat, on side of county road, NE corner sec. 70, Block 7, Capitol Syndicate Subdivision, 3 $\frac{3}{4}$ miles south of Texline.

	Thickness (feet)	Depth (feet)
Topsoil- - - - -	1	1
Caliche- - - - -	7	8
Caliche and red sand - - - -	1	9
Sandy red clay- - - - -	1	10
Caliche and coarse sand- - -	9	19
Clean, coarse sand and small gravel- - - - -	3	22
Caliche and coarse sand and small gravel- - - - -	14	36
Sand and small gravel - - -	4	40
Caliche and sand and small gravel- - - - -	8	48
Coarse red sand and small gravel- - - - -	3	51
Fine red sand- - - - -	2	53
Caliche rocks and gravel- -	5	58
Jan. 18, 1937.		

Well 174

Flat, center of east line J. K. Ray Estate farm in sec. 31, Block 7, Capitol Syndicate Subdivision, 7 miles south of Texline.

Red sandy loam- - - - -	4	4
Pink caliche- - - - -	3	7
Sandy red clay- - - - -	2	9
Red sand- - - - -	5	14
Sandy red clay- - - - -	2	16
Coarse red sand- - - - -	11	27
Fine red sand- - - - -	4	31
Coarse red sand and small gravel- - - - -	1	32
White caliche- - - - -	1	33
Fine red sand- - - - -	3	36
Sandy red clay - - - - -	4	40
Gray clay- - - - -	3	43
Feb. 8, 1937.		

Well 175

Creek valley 300 feet from creek, on side of county road, NW corner sec. 10, Block 7, Capitol Syndicate Subdivision, 9 $\frac{1}{2}$ miles south of Texline.

Brown sandy loam- - - - -	5	5
Red sand and silt - - - - -	5	10
Coarse sand and gravel- - -	2	12
Red sand- - - - -	4	16
Brown sandy clay- - - - -	3	19
Red sand- - - - -	9	28
Coarse sand and gravel- - -	2	30
Sandy red clay- - - - -	4	34
Feb. 11, 1937.		

Well 176

Creek bed, 300 feet south of NW corner sec. 10, Block 7, Capitol Syndicate Sub-division, $9\frac{1}{2}$ miles south of Texline.

	Thickness (feet)	Depth (feet)
Loose sand- - - - -	2	2
Sandy red clay- - - - -	13	15
Red sand- - - - -	2	17
Sandy red clay- - - - -	10	27
Gray clay- - - - -	1	28
Bluish coarse sand - - - - -	1	29
Red sand- - - - -	12	41
Sandy red clay- - - - -	6	47
Dense blue-gray clay- - - - -	5	52
Sandy red clay- - - - -	5	57
Pink caliche- - - - -	1	58
Red sand- - - - -	4	62

Struck water at 48 feet.
Feb. 13, 1937.

Well 179

Rolling, on side of county road, SW corner sec. 47, Block 7, Capitol Syndicate Subdivision, 7 miles south of Texline.

Sandy brown loam- - - - -	2	2
Red sand- - - - -	10	12
Sandy red clay- - - - -	2	14
Red caliche- - - - -	3	17
Red caliche and small gravel- - - - -	6	23
White caliche- - - - -	3	26
Sandy pink caliche- - - - -	7	33
Sandy red clay- - - - -	7	40

Feb. 8, 1937.

Well 182

Sloping, on side of county road, SE corner sec. 46, Block 7, Capitol Syndicate Subdivision, $7\frac{1}{2}$ miles southeast of Texline.

Brown sandy loam- - - - -	2	2
Brownish sand- - - - -	2	4
Sandy red clay- - - - -	5	9

Struck rock at 9 feet.
Apr. 29, 1937.

Well 183

Sloping, on side of county road, NW corner sec. 36, Block 7, Capitol Syndicate Subdivision, $7\frac{1}{2}$ miles SE of Texline.

Sandy brown loam- - - - -	2	2
Gray sand- - - - -	2	4
Sandy red clay - - - - -	6	10
Clean sand and small gravel - - - - -	4	14
Clay, red sand and small gravel- - - - -	3	17

Apr. 29, 1937.

Well 186

Flat, on side of county road, NW corner sec. 38, Block 7, Capitol Syndicate Sub-division, $8\frac{1}{2}$ miles SE of Texline.

	Thickness (feet)	Depth (feet)
Sandy brown loam- - - - -	2	2
Sandy red clay-and caliche- - - - -	4	6
Red sandy clay- - - - -	5	11
Red and white streaked clay - - - - -	1	12
Sandy red clay- - - - -	3	15
Clean sand- - - - -	5	20
Red sandy clay - - - - -	5	25
Clean sand- - - - -	9	34
Clean sand and small gravel - - - - -	1	35
Red sand- - - - -	3	38

Apr. 29, 1937.

Well 189

Shallow depression, on side of county road, four-tenths mile north of SE corner sec. 41, Block 6, Capitol Syndicate Sub-division, 14 miles southeast of Texline.

Sandy brown loam- - - - -	2	2
Fine red sand- - - - -	1	3
Sandy pink caliche- - - - -	2	5
Sandy red clay- - - - -	4	9
Pink caliche- - - - -	3	12
Caliche and red clay- - - - -	4	16
Sandy pink caliche- - - - -	6	22
Sandy red clay and caliche- - - - -	8	30
Fine pink sand- - - - -	2	32
Red clay- - - - -	2	34
Sandy red clay- - - - -	3	37
Red clay and caliche- - - - -	1	38
Fine red sand and caliche - - - - -	1	39
Sandy red clay and caliche- - - - -	15	54

Feb. 22, 1937.

Well 192

Carrijo creek bed, on side of county road, 600 feet east of SW corner sec. 39, Block 6, Capitol Syndicate Subdivision, 14 miles southeast of Texline.

Sandy brown loam- - - - -	4	4
Brownish-red sand - - - - -	7	11
Brownish-red sandy clay - - - - -	1	12
Red sand- - - - -	8	20
Brownish-red clay- - - - -	3	23
Gray sand and small gravel- - - - -	6	29
Red sand and gravel- - - - -	3	32
White caliche- - - - -	2	34
Sandy red clay - - - - -	4	38
Red clay- - - - -	2	40
Sandy clay- - - - -	8	48
Caliche and red clay- - - - -	2	50
Sandy red clay- - - - -	4	54
Dense red clay- - - - -	3	57
Red sand- - - - -	4	61
Red clay, caliche and gravel- - - - -	2	63

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Well 192--Continued

	Thickness (feet)	Depth (feet)
Sandy red clay- - - - -	3	66
Sandy red clay, caliche and gravel- - - - -	1	67

Feb. 11, 1937.

Well 209

Flat, on side of county road, NE corner sec. 73, Block 5, Capitol Syndicate Sub-division, 16 miles south of Texline.

Sandy reddish-brown loam- -	2	2
Pink sandy clay- - - - -	4	6
Pink sandy clay and caliche	13	19
Sandy red clay- - - - -	4	23

Mar. 2, 1937.

Well 212

Valley bottom, center of east line of Jack Crutchfield farm, sec. 65, Block 5, Capitol Syndicate Sub-division, 17 $\frac{1}{2}$ miles south of Texline.

Red sandy loam- - - - -	4	4
Hard gray clay with pink tint	4	8
Sandy red clay and caliche-	17	25

Struck rock at 25 feet.
Mar. 2, 1937.

Well 214

Flat, on side of county road, NW corner sec. 69, Block 5, Capitol Syndicate Sub-division, 15 $\frac{1}{2}$ miles south of Texline.

Sandy brown loam- - - - -	2	2
Pink caliche- - - - -	12	14
Sandy red clay- - - - -	5	19
Fine red sand- - - - -	3	22
Pink caliche- - - - -	7	29
Caliche rock- - - - -	1	30

Feb. 10, 1937.

Well 215

Valley bottom, on side of county road, SW corner sec. 68, Block 5, Capitol Syndicate Sub-division, 17 $\frac{1}{2}$ miles south of Texline.

Sandy brownish-red loam- - -	3	3
Pink caliche- - - - -	5	8
Red sand- - - - -	1	9
Pink caliche- - - - -	2	11
Red sand- - - - -	2	13
Sandy red clay- - - - -	4	17
Red sand- - - - -	3	20
Coarse pink sand- - - - -	6	26
Red clay- - - - -	3	29
White caliche- - - - -	4	33
Fine red sand- - - - -	3	36
Coarse sand and small gravel	2	38
Red clay and caliche- - - -	5	43

Feb. 10, 1937.

Well 221

Carrizo creek bed, on south side of bridge on county road, east of NW corner sec. 69, Block 4, Capitol Syndicate Sub-division, 22 miles southeast of Texline.

	Thickness (feet)	Depth (feet)
Sandy reddish-brown loam- - -	1	1
Coarse red sand and gravel- -	9	10
Clean coarse sand and gravel-	7	17
Fine pink sand- - - - -	12	29
Pink sand and caliche - - - -	1	30

Mar. 1, 1937.

Well 223

Flat, on side of county road, NW corner sec. 73, Block 4, Capitol Syndicate Sub-division, 24 miles southeast of Texline.

Sandy red loam- - - - -	3	3
Sandy red clay- - - - -	4	7
Red sand and caliche- - - - -	4	11
Sandy red clay- - - - -	1	12
Pink caliche and sandy red clay- - - - -	9	21
Red sand and caliche- - - - -	5	26
Pink sandstone- - - - -	2	28

Mar. 1, 1937.

Well 229

Carrizo creek bed, southeast corner of west bridge on county road, near NE corner sec. 39, Block 4, Capitol Syndicate Sub-division, 18 miles southeast of Texline.

Sandy brownish-red clay- - -	6	6
Reddish sand- - - - -	3	9
Clean coarse sand - - - - -	5	14
Clean coarse sand and gravel	6	20
Sandy red clay and caliche -	4	24
Sandy red clay and gravel- -	3	27
Fine red sand- - - - -	3	30
Sandy red clay and streaks of pink sandstone- - - - -	5	35

Feb. 23, 1937.

Well 245

Flat, on side of county road, SW corner sec. 26, Block 18, Capitol Syndicate sub-division, 27 miles north of Dalhart.

Sandy brown loam- - - - -	2	2
Sandy brown clay- - - - -	6	8
Red sandy clay- - - - -	3	11
Red sandy clay, caliche- - -	12	23
Fine red sand- - - - -	1	24
Red sand- - - - -	5	29
Coarse red sand and gravel -	8	37
Sandy red clay- - - - -	2	39
Red clay- - - - -	3	42
Sandy red clay- - - - -	10	52

(Continued on next page)

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

Well 245--Continued

	Thickness (feet)	Depth (feet)
Red sand- - - - -	5	57
Sandy red clay- - - - -	9	66
Red sand- - - - -	1	67
Sandy red clay- - - - -	3	70

Struck water at 42 feet.
Water level, 41.6 feet below top of ground,
 $\frac{1}{2}$ hour after hole completed.
Mar.13, 1937.

Well 247

Creek bottom, on side of county road, 400 feet north of SW corner sec, 50, Block 18, Capitol Syndicate Subdivision, 25 miles north of Dalhart.

Sandy loam- - - - -	2	2
Sandy red clay- - - - -	3	5
Sandy reddish-brown clay- - -	5	10
Sandy blue clay- - - - -	7	17
Sandy, yellow clay - - - - -	5	22
Sandy blue clay- - - - -	1	23
Sandy yellow clay and caliche	5	28
Sandy red clay- - - - -	6	34

Struck water at 18 feet.
Water level, 12.2 feet below top of ground,
 $\frac{1}{4}$ hour after hole completed.
Mar. 12, 1937.

Well 249

Creek bottom, on side of county road, SW corner sec. 50, Block 18, Capitol Syndicate Subdivision, 25 miles north of Dalhart.

Sandy brown loam- - - - -	4	4
Sandy gray clay - - - - -	3	7
Fine white sand- - - - -	1	8
Sandy bluish-gray clay- - - -	7	15
Sandy yellow clay- - - - -	3	18

Struck water at 18 feet.
Mar. 11, 1937.

Well 252

Sloping, on side of county road, NE corner sec. 48, Block 18, Capitol Syndicate Subdivision, 25 $\frac{1}{2}$ miles north of Dalhart.

Sandy brown loam- - - - -	3	3
Sandy red clay- - - - -	2	5
Pink caliche and red clay - -	10	15

Apr. 27, 1937.

Well 253

Sloping, on side of county road, NE corner sec. 57, Block 18, Capitol Syndicate Subdivision, 24 $\frac{1}{2}$ miles north of Dalhart.

Sandy brown loam- - - - -	1	1
Pink caliche and red clay - -	18	19

Apr. 27, 1937.

Well 272

Flat, on side of county road, NW corner sec. 76, Block 47 $\frac{1}{2}$, H. & T. C. R.R. Co. Subdivision, 21 miles northeast of Dalhart.

	Thickness (feet)	Depth (feet)
Reddish-brown loam- - - - -	2	2
Sandy red clay- - - - -	1	3
Pink caliche and red clay caliche increases with depth	7	10

Struck rock at 10 feet.
Apr. 26, 1937.

Well 273

Flat, on side of county road, NW corner sec. 78, Block 47 $\frac{1}{2}$, H. & T. C. R.R. Co. Subdivision, 22 miles northeast of Dalhart.

Sandy brown loam- - - - -	1	1
Caliche and sandy red clay- -	4	5

Struck caliche rock at 5 feet.
Apr. 26, 1937.

Well 278

Dry creek bed, on side of county road, near center south line of sec. 63, Block 19, Capitol Syndicate Subdivision, 19 $\frac{1}{2}$ miles north of Dalhart.

Sandy brown loam- - - - -	2	2
Red clay and caliche- - - -	3	5
Sandy red clay- - - - -	3	8

Struck caliche rock at 8 feet.
Apr. 26, 1937.

Well 279

Flat, on side of county road, SW corner sec. 43, Block 19, Capitol Syndicate Subdivision, 20 miles north of Dalhart.

Sandy brown loam- - - - -	2	2
Sandy red clay and caliche- -	5	7
Sandy reddish-brown clay- -	1	8
Caliche and sandy red clay- -	6	14

Struck caliche rock at 14 feet,
Apr. 26, 1937.

Well 282

Dry creek bed. 15 feet below normal ground, near center SW $\frac{1}{4}$ of J. W. Bartlett farm in sec. 18, Block 19, Capitol Syndicate Subdivision, 22 miles north of Dalhart.

Sandy red loam- - - - -	2	2
Sandy brown clay- - - - -	5	7
Sandy red clay- - - - -	2	9

Mar. 17, 1937.

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

Well 283

Dry creek bed 12 feet below normal ground, near center SW $\frac{1}{4}$ of J. W. Bartlett farm in sec. 18, Block 19, Capitol Syndicate Subdivision, 22 miles north of Dalhart.

	Thickness (feet)	Depth (feet)
Sandy red clay- - - - -	2	2
Red sand and caliche pebbles-	2	4
Pink caliche and caliche pebbles- - - - -	6	10

Mar. 17, 1937.

Well 284

Dry creek bed 10 feet below normal ground, near center SW $\frac{1}{4}$ of J. W. Bartlett farm in sec. 18, Block 19, Capitol Syndicate Subdivision, 22 miles north of Dalhart.

Sandy brownish-red loam- - - -	3	3
Pink caliche- - - - -	2	5
White caliche- - - - -	1	6
Sandy gray clay- - - - -	1	7
Sandy red clay and caliche -	4	11
Fine pink sand and caliche -	1	12
Caliche and red sand- - - -	5	17

Struck rock at 17 feet.
Mar. 17, 1937.

Well 286

Gently rolling, on side of county road, SE corner sec. 3, Block C S, Capitol Syndicate Subdivision, 22 $\frac{1}{2}$ miles north of Dalhart.

Sandy brown loam- - - - -	1	1
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Struck caliche rock at 16 inches.
Mar. 17, 1937.

Well 288

Dry lake bed, on side of county road, center of west edge sec. 27, Block C S, Capitol Syndicate Subdivision, 22 miles north of Dalhart.

Sandy brown clay loam- - - -	5	5
Sandy reddish-brown clay- -	5	10
Sandy brown clay- - - - -	16	26
Sandy clay, mottled blue, gray, yellow and rust colored- -	6	32
Sandy red and yellow clay- -	3	35
Sandy red clay- - - - -	5	40
Sandy gray clay- - - - -	2	42
Sandy red clay- - - - -	3	45

Mar. 18, 1937.

Well 291

Gently sloping, on side of county road, NW corner sec. 25, Block C S, Capitol Syndicate Subdivision, 22 $\frac{1}{2}$ miles north of Dalhart.

	Thickness (feet)	Depth (feet)
Sandy reddish-brown loam- - -	3	3
Caliche and sandy clay- - -	8	11

Mar. 17, 1937.

Well 293

Sloping south, on side of county road, NW corner sec. 21, Block C S, Capitol Syndicate Subdivision, 23 miles north of Dalhart.

Sandy brown loam- - - - -	2	2
Sandy red clay and caliche- -	4	6
Hard caliche- - - - -	3	9
Caliche and sandy red clay- -	4	13
Sandy red clay and caliche- -	6	19
Sandy red clay and caliche rocks- - - - -	6	25
Sandy red clay and gravel- -	1	26
Sandy red clay and small gravel- - - - -	2	28

Mar. 12, 1937.

Well 296

Dry lake bed, on side of county road, NW corner sec. 81, Block C S, Capitol Syndicate Subdivision, 19 $\frac{1}{2}$ miles north of Dalhart.

Sandy reddish-brown loam- - -	1	1
Sandy brown clay- - - - -	16	17
Sandy brown clay- - - - -	3	20
Sandy gray clay- - - - -	6	26
Sandy red clay- - - - -	2	28
Sandy reddish-brown clay- - -	1	29
Dense blue clay- - - - -	1	30
Sandy gray clay- - - - -	5	36
Sandy rust-colored clay and gravel- - - - -	2	37
Sandy yellow and rust clay in layers- - - - -	1	38
Sand, clear, yellow, and rust- colored- - - - -	1	39
Coarse rusty sand- - - - -	2	41

Mar. 22, 1937.

Well 297

Dry creek bed, on side of county road, 200 feet north of SE corner sec. 85, Block C S, Capitol Syndicate Subdivision, 18 miles north of Dalhart.

Sandy brown loam- - - - -	1	1
Red sand and white caliche-	3	4
Sandy red clay and caliche-	9	13

(Continued on next page)

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

Well 297--Continued

	Thickness (feet)	Depth (feet)
Sandy red clay- - - - -	10	23
Fine red sand- - - - -	1	24
Sandy red clay- - - - -	5	29
Sandy red clay and gravel - -	4	33
Sandy red clay- - - - -	10	43
Struck rock at 43 feet.		
Mar. 18, 1937.		

Well 298

Gently sloping, on side of county road, SE corner sec. 16, Block 9, Capitol Syndicate Subdivision, 16 miles north of Dalhart.

Sandy reddish-brown loam- - -	4	4
Pink caliche and red clay - -	15	19
Struck rock at 19 feet.		
Apr. 14, 1937.		

Well 303

Gently sloping, on side of county road, SE corner sec. 2, W. P. Wheatley Subdivision, 14 miles north of Dalhart.

Sandy brown loam- - - - -	1	1
Sandy red clay- - - - -	3	4
Red sand- - - - -	3	7
Sandy red clay- - - - -	2	9
Caliche and red clay- - - - -	7	16
Struck caliche rock at 16 feet.		
Apr. 14, 1937.		

Well 305

Gently rolling, on side of county road, NE corner sec. 12, Block 47 $\frac{1}{2}$ H. & T. C. R.R. Co. Subdivision, 14 $\frac{1}{2}$ miles north of Dalhart.

Sandy reddish-brown loam- - -	2	2
Caliche and red clay- - - - -	8	10
Struck rock at 10 feet.		
Apr. 14, 1937.		

Well 309

Sloping, on side of county road, NE corner sec. 14, Block 47 $\frac{1}{2}$, H. & T. C. R.R. Co. Subdivision, 15 miles north of Dalhart.

Sandy reddish-brown loam- - -	2	2
Pink caliche- - - - -	2	4
Struck caliche rock at 4 feet.		
Apr. 15, 1937.		

Well 312

Sloping, on side of county road, SW corner sec. 24, Block 47 $\frac{1}{2}$, H. & T. C. R.R. Co. Subdivision, 16 miles northeast of Dalhart.

Sandy reddish-brown loam- - -	1	1
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Well 312--Continued

	Thickness (feet)	Depth (feet)
Pink caliche- - - - -	2	3
Struck caliche rock at 3 feet.		
Apr. 15, 1937.		

Well 314

Gently sloping, on side of county road, NW corner sec. 19, Block 47 $\frac{1}{2}$, H. & T. C. R.R. Co. Subdivision, 17 miles northeast of Dalhart.

Sandy brown loam- - - - -	4	4
Sandy red clay- - - - -	1	5
Pink caliche and red clay -	5	10
Struck caliche rock at 10 feet.		
Apr. 15, 1937.		

Well 316

Gently sloping, on side of county road, SE corner sec. 31, Block 47 $\frac{1}{2}$, H. & T. C. R.R. Co. Subdivision, 19 miles northeast of Dalhart.

Sandy reddish-brown loam- -	5	5
Sandy red clay- - - - -	1	6
Fine red sand - - - - -	1	7
Sandy red clay and caliche-	3	10
Sandy red clay- - - - -	2	12
Red sand- - - - -	1	13
Sandy red clay- - - - -	11	24
Sandy red clay and caliche-	3	27
Apr. 5, 1937.		

Well 317

Flat, on side of county road, NE corner sec. 24, Block 7 T, T. & N. C. R.R. Subdivision, 21 miles northeast of Dalhart.

Sandy brown loam- - - - -	5	5
Sandy red clay and caliche	15	20
Caliche and red clay- - -	3	23
Struck caliche rock at 23 feet.		
Apr. 15, 1937.		

Well 321

Dry lake bed, on side of county road, center of west edge SW $\frac{1}{4}$ sec. 428, Block 1 T, T. and N. C. R.R. Co. Subdivision, 16 $\frac{1}{2}$ miles east of Dalhart.

Sandy red clay- - - - -	4	4
Sandy reddish-brown clay- -	5	9
Brown clay- - - - -	1	10
Gray clay- - - - -	1	11
Sandy gray clay - - - - -	2	13
Pink clay- - - - -	5	18
Sandy red clay - - - - -	3	21
Fine pinkish sand- - - - -	3	24
Struck rock at 24 feet.		
Apr. 8, 1937.		

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

Well 322

Side of slope, on side of county road, SW corner sec. 429, Block 1 T, T. & N. O. R.R. Co. Subdivision, 16 miles east of Dalhart.

	Thickness (feet)	Depth (feet)
Sandy topsoil- - - - -	1	1
Caliche, red clay, caliche increases with depth- - - -	5	6
Struck caliche rock at 6 feet.		

Apr. 8, 1937.

Well 323

Gently sloping, on side of county road, SE corner sec. 5, Day Land and Cattle Co. section, 18 miles east of Dalhart.

Sandy brown loam- - - - -	1	1
Caliche and sandy red clay, caliche increasing with depth	9	10
Struck caliche rock at 10 feet.		

Mar. 27, 1937.

Well 324

Flat, on side of county road, NE corner sec. 2, Block 1, E. T. R.R. Co. Subdivision, 16 miles east of Dalhart.

Sandy reddish-brown loam- - -	3	3
Sandy red clay- - - - -	3	6
Caliche and sandy red clay- -	4	10
Sandy red clay and layers of caliche- - - - -	6	16
Fine red sand- - - - -	2	18
Caliche and sandy red clay- -	3	21
Sandy red clay- - - - -	4	25
Sandy red clay and caliche- -	3	28
Struck rock at 28 feet.		

Mar. 27, 1937.

Well 325

Gently sloping, on side of county road, NE corner sec. 2, Block 1, S. P. R.R. Co. Subdivision, 14 miles east of Dalhart.

Sandy reddish-brown loam- - -	2	2
Sandy red clay and caliche, caliche increases with depth	7	9
Struck caliche rock at 9 feet.		

Mar. 27, 1937.

Well 327

Dry lake bed, on side of county road, center of south edge sec. 22, Block 48, H. & T. C. R.R. Co. Subdivision, 12 miles east of Dalhart.

Sandy brown loam- - - - -	2	2
Sandy red clay- - - - -	4	6
Sandy blue-gray clay- - - - -	2	8
Gray clay and caliche - - - -	3	11
Sandy red clay- - - - -	17	28
Sandy gray clay - - - - -	7	35

Mar. 27, 1937.

Well 332

Sloping, on side of county road, NE corner sec. 8, Block 7 T, T. & N. O. R.R. Co. Subdivision, 16 1/2 miles east of Dalhart.

	Thickness (feet)	Depth (feet)
Sandy reddish-brown loam- - -	5	5
Sandy red clay and caliche- -	3	8
Sandy red clay- - - - -	4	12
Struck rock at 12 feet.		

Apr. 8, 1937.

Well 333

Sloping, on side of county road, SW corner sec. 10, Block 7 T, T. & N. O. R.R. Co. Subdivision, 15 miles northeast of Dalhart.

Sandy brown loam- - - - -	2	2
Red sand- - - - -	2	4
Sandy red clay- - - - -	2	6
Red clay and caliche, caliche increases with depth- - - -	7	13
Struck caliche rock at 13 feet.		

Apr. 8, 1937.

Well 337

Flat, on side of county road, NE corner sec. 4, W. M. Pardue, Subdivision, 13 miles northeast of Dalhart.

Sandy reddish-brown loam- - -	2	2
Red clay and caliche- - - - -	3	5
Struck caliche rock at 5 feet.		

Apr. 8, 1937.

Well 338

Flat, on side of county road, NW corner sec. 6, W. M. Pardue Subdivision, 10 1/2 miles northeast of Dalhart.

Sandy reddish loam- - - - -	1	1
Caliche and red clay- - - - -	3	4
Struck caliche rock at 4 feet.		

Apr. 9, 1937.

Well 340

Gently sloping, on side of county road, NE corner sec. 1, Joel Moore Subdivision, 11 1/2 miles east of Dalhart.

Sandy brown loam- - - - -	1	1
Sandy red clay and caliche- -	15	16
Pink caliche- - - - -	3	19
Red clay and caliche- - - - -	5	24
Sandy clay, very red- - - - -	3	27
Struck caliche rock at 27 feet.		

Mar. 31, 1937.

Well 341

Gently sloping, on side of county road, NE corner sec. 25, Block 1, B. S. and F. Subdivision, 9 miles east of Dalhart.

Sandy reddish-brown loam- - -	1	1
Sandy red clay- - - - -	11	12

(Continued on next page)

Well 341--Continued

	Thickness (feet)	Depth (feet)
Caliche and red clay- - - - -	4	16
White caliche- - - - -	3	19
Sandy red clay and caliche- -	8	27
Struck rock at 27 feet.		
Mar. 31, 1937.		

Well 343

Flat, on side of county road, NE corner sec. 19, Block 1, B. S. and F. Subdivision, $9\frac{1}{2}$ miles northeast of Dalhart.

Sandy red loam- - - - -	2	2
Sandy red clay, caliche increases with depth- - - - -	17	19
Struck caliche rock at 19 feet.		
Apr. 9, 1937.		

Well 346

Gently rolling, on side of county road, NE corner sec. 6, Block 1, Brooks and Burleson Subdivision, $12\frac{1}{2}$ miles north of Dalhart.

Sandy reddish-brown loam- - -	2	2
Sandy red clay and caliche- -	3	5
Caliche- - - - -	15	20
Struck caliche rock at 20 feet.		
Apr. 14, 1937.		

Well 349

Dry lake bed, on side of county road, NW corner sec. 4, Block 1, Brooks and Burleson Subdivision, 11 miles north of Dalhart.

Sandy reddish loam- - - - -	1	1
Sandy brown clay- - - - -	3	4
Sandy reddish clay- - - - -	3	7
Gray clay- - - - -	13	20
Sandy red and gray clay- - -	3	23
Sandy red clay- - - - -	2	25
Caliche and red clay- - - - -	3	28
Red sand, has layers of red clay and caliche- - - - -	7	35
Apr. 13, 1937.		

Well 351

Flat, on side of county road, NW corner sec. 27, Block 1, Brooks and Burleson Subdivision, 9 miles north of Dalhart.

Sandy brown loam- - - - -	2	2
Sandy reddish-brown clay- - -	2	4
Pink caliche and red clay, caliche increases with depth	11	15
Struck caliche rock at 15 feet.		
Apr. 13, 1937.		

Well 352

Rolling, on side of county road, SW corner sec. 28, Block 1, Brooks and Burleson Subdivision, 8 miles north of Dalhart.

	Thickness (feet)	Depth (feet)
Sandy brown loam- - - - -	2	2
White caliche- - - - -	3	5
Pink caliche and sandy red clay caliche increases with depth	18	23
Struck caliche rock at 23 feet.		
Apr. 10, 1937.		

Well 365

Gently sloping, on side of county road, NE corner sec. 40, Block 1, Brooks and Burleson Subdivision, 7 miles northeast of Dalhart.

Sandy reddish-brown loam- - -	3	3
Sandy red clay- - - - -	2	5
Caliche and red clay- - - - -	11	16
Reddish-brown clay and caliche	3	19
Apr. 9, 1937.		

Well 356

Gently sloping, on side of county road, SE corner sec. 37, Block 1, Brooks and Burleson Subdivision, $8\frac{1}{2}$ miles northeast of Dalhart.

Sandy reddish-brown loam- - -	4	4
Sandy brown clay- - - - -	3	7
Fine pink sand- - - - -	4	11
Fine white sand- - - - -	1	12
Fine red sand- - - - -	6	18
Sandy red clay and caliche- -	4	22
Red clay and caliche rocks- -	2	24
Apr. 9, 1937.		

Well 357

Flat, on side of county road, SW corner sec. 51, Block 1, Brooks and Burleson Subdivision, $6\frac{1}{2}$ miles northeast of Dalhart.

Sandy brown loam- - - - -	3	3
Sandy red clay and caliche- -	7	10
Pink caliche- - - - -	4	14
Struck caliche rock at 14 feet.		
Mar. 31, 1937.		

Well 358

Gently rolling, on side of county road, NE corner sec. 24, Block 48, H. & T. C. R.R. Co. Subdivision, $8\frac{1}{2}$ miles east of Dalhart.

Sandy reddish-brown loam- - -	5	5
Brown sandy loam- - - - -	3	8
Red sand- - - - -	2	10
Sandy red clay- - - - -	2	12
Pink caliche- - - - -	5	17
Struck caliche rock at 17 feet.		
Mar. 26, 1937.		

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

Well 359

Gently sloping, on side of county road, NW corner sec. 25, Block 48, H. & T. C. R.R. Co. Subdivision, 6 1/2 miles east of Dalhart.

	Thickness (feet)	Depth (feet)
Sandy brown loam-	1	1
Pink caliche-	7	8
Struck caliche rock at 8 feet.		
Mar. 26, 1937.		

Well 361

Gently rolling, on side of County road, NW corner sec. 27, Block 48, H. & T. C. R.R. Co. Subdivision, 4 1/2 miles east of Dalhart.

Sandy brown loam-	3	3
Sandy red clay-	7	10
Sandy red clay and caliche-	17	27
Struck caliche rock at 27 feet.		
Mar. 26, 1937.		

Well 364

Flat, on side of county road, SW corner sec. 2, Block 1, Capitol Syndicate Subdivision, 1 mile north of Dalhart.

Sandy reddish loam-	5	5
Sandy red clay-	3	8
Red clay and pink caliche, caliche increases with depth	7	15
Struck caliche rock at 15 feet.		
Apr. 10, 1937.		

Well 365

Flat, on side of county road, SE corner sec. 14, Block 1, Capitol Syndicate Subdivision, 3 miles north of Dalhart.

Sandy reddish loam-	3	3
Sandy red clay-	1	4
Sandy red clay and caliche-	2	6
Gray clay and caliche-	2	8
Sandy red clay and caliche	13	21
Caliche and red clay-	3	24
Struck caliche rock at 24 feet.		
Apr. 10, 1937.		

Well 368

Flat, on side of county road, SE corner sec. 33, Block 1, Capitol Syndicate Subdivision, 6 1/2 miles north of Dalhart.

Sandy brown loam-	1	1
Sandy red clay and caliche-	6	7
Red sand-	5	12
Sandy red clay and caliche-	8	20
Red clay-	2	22
Sandy red clay and caliche rocks-	4	26
Apr. 9, 1937.		

Well 369

Flat, on side of county road, NW corner sec. 33, Block 1, Brooks and Burleson Subdivision, 7 miles north of Dalhart.

	Thickness (feet)	Depth (feet)
Sandy brown loam-	2	2
Sandy red clay and caliche-	2	4
Pink caliche and red clay	16	20
Struck caliche rock at 20 feet.		
Apr. 10, 1937.		

Well 372

Gently rolling, on side of county road, NE corner sec. 56, Block 2, Capitol Syndicate Subdivision, 12 miles north of Dalhart.

Sandy reddish-brown loam-	3	3
Sandy red clay-	2	5
Pink caliche and red clay	4	9
Struck caliche rock at 9 feet.		
Apr. 13, 1937.		

Well 378

Gently rolling, on side of county road, NE corner sec. 5, Block 2, Brooks and Burleson Subdivision, 9 miles northwest of Dalhart.

Sandy brown loam-	1	1
Pink caliche-	2	3
Caliche and sandy red clay-	7	10
Red sand-	1	11
Caliche and sandy red clay-	14	25
Pink caliche-	1	26
Struck rock at 26 feet.		
Apr. 1, 1937.		

Well 379

Dry lake bed, on side of county road, center of north edge sec. 7, Block 2, Brooks and Burleson Subdivision, 11 miles northeast of Dalhart.

Sandy brown loam-	3	3
Reddish-brown sandy clay-	3	6
Blue gummy clay-	8	14
White caliche-	1	15
Apr. 1, 1937.		

Well 383

Sloping, on side of county road, SW corner sec. 31, Block 2, Brooks and Burleson Subdivision, 5 1/2 miles west of Dalhart.

Reddish-brown loam-	3	3
Sandy brown loam-	4	7
Sandy gray clay-	1	8
Clean sand-	1	9
Pink caliche-	1	10
Apr. 24, 1937.		

Partial analyses of water from wells in Dallam County, Texas

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

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
5	C.D. Shamburger	116	Jan.25,1937	179	-	-	-	207	a/	6	-
7	do.	165	-	259	35	27	27	244	39	11	197
8	do.	76	Jan.25,1937	209	-	-	-	232	a/	12	-
9	W.H. Porterwood	149	Feb. 3,1937	229	-	-	-	214	27	10	-
10	Lindley & Porterwood	72	Feb.6,1937	174	-	-	-	183	8	8	-
12	J.D. Lindley	-	-	254	-	-	-	232	33	11	-
13	W.P.A. test well	62	Dec.10,1936	304	-	-	-	293	31	13	-
15	do.	34	Mar.19,1937	315	-	-	-	336	15	12	-
16	M.E. Hay	40	Jan.11,1937	269	-	-	-	220	46	15	-
17	J.D. Lindley	90	do.	280	-	-	-	239	38	20	-
19	B.M. Hay	60	do.	306	54	24	29	281	46	15	235
20	J.C. Doss	65	-	273	-	-	-	226	42	18	-
21	Mrs. S.H. Madden	82	Jan.11,1937	301	-	-	-	268	42	14	-
22	W.P.A. test well	57	Dec.28,1936	339	-	-	-	366	a/	25	-
24	V.L. Hindman	149	Feb. 6,1937	239	33	27	22	232	31	12	192
25	J.W. Bach	121	Jan.27,1937	217	-	-	-	244	a/	11	-
29	West Texas Utilities Co.	297	Dec. 8,1936	272	18	24	52	220	58	12	145
34	C.L. Stewart	93	Feb. 6,1937	269	-	-	-	256	33	8	-
38	S.A. Morgan	99	Feb. 3,1937	262	-	-	-	238	35	11	-
39	do.	-	do.	385	-	-	-	348	54	15	-
40	J.M. French	13	Jan.13,1937	327	-	-	-	287	46	17	-
41	T.L. Thompson	20	Jan.12,1937	373	-	-	-	317	58	20	-
42	do.	40	Jan.11,1937	336	-	-	-	305	42	17	-
45	W.A. Skinner	80	Mar. 4,1937	259	-	-	-	244	31	10	-
47	P.B. Koehn	47	Dec.23,1936	247	-	-	-	239	27	9	-
48	W.P.A. test well	36	do.	715	-	-	-	586	146	18	-
49	A.F. Hamm	23	do.	307	-	-	-	299	35	8	-
50	T.J. Rhodes	69	Apr.21,1937	252	-	-	-	244	27	9	-
51	R.F. Bounds	51	Dec.23,1936	255	25	28	35	244	35	12	177

a/ Sulphate less than 10 parts per million.

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

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
52	D. Siedel	86	Dec.23,1936	299	51	29	24	305	35	10	248
53	H.B. Hays	70	Dec.16,1936	259	-	-	-	244	27	13	-
55	W.P.A. test well	40	Apr.21,1937	767	-	-	-	378	265	52	-
58	Dr. O. Powell	30	Jan.30,1937	279	-	-	-	262	31	13	-
60	Draper School	112	Feb. 3,1937	493	33	68	61	476	85	12	362
61	- Burrows	117	Jan.29,1937	254	16	34	35	250	31	15	181
62	J.T. Montgomery	20	Feb. 3,1937	295	-	-	-	293	27	11	-
63	- Baggett	105	Apr. 1,1937	249	-	-	-	232	31	10	-
64	Bill Thompson	90	Jan.29,1937	250	20	34	30	262	27	10	191
65	T.L. Thompson	86	Dec. 8,1936	274	-	-	-	262	31	10	-
66	W.P.A. test well	40	Apr.19,1937	366	-	-	-	348	38	17	-
67	do.	49	Jan.11,1937	417	-	-	-	415	31	21	-
69	do.	46	Dec.15,1936	356	-	-	-	421	a/	8	-
71	do.	55	do.	218	-	-	-	220	16	10	-
72	W.L. Cotton	109	Dec.10,1936	260	-	-	-	232	38	10	-
73	M. Sewell	-	Mar.16,1937	274	-	-	-	262	31	10	-
74	do.	37	Feb. 6,1937	254	-	-	-	232	38	13	-
76	C.C. Cook Estate	100	Dec.22,1936	431	-	-	-	256	138	16	-
77	W.P.A. test well	47	do.	309	28	49	23	317	39	14	270
81	C.C. Cook Estate	43	do.	339	-	-	-	287	58	14	-
83	W.P.A. test well	32	do.	391	-	-	-	390	35	14	-
84	C.N. Plaster	53	Dec.19,1936	403	-	-	-	342	65	20	-
86	W.P.A. test well	22	Dec.16,1936	400	-	-	-	403	35	13	-
88	do.	32	Dec.19,1936	653	43	68	110	531	134	37	387
97	A.C. Knudson	200	Mar.11,1937	590	13	19	188	390	135	43	112
98	G.L. Goodman	23	Dec.16,1936	547	-	-	-	427	88	46	-
99	W.P.A. test well	36	do.	264	-	-	-	311	a/	6	-
100	H.O. Kelly	58	Dec.19,1936	394	20	39	81	366	62	15	209
102	N.W. Holt	85	Dec.16,1936	386	-	-	-	366	46	13	-
104	P.D. Heidebrecht	79	do.	329	-	-	-	354	15	11	-
105	A.H. Britian	22	Feb.23,1937	290	-	-	-	256	31	23	-
106	do.	-	do.	261	-	-	-	256	27	8	-
107	W.P.A. test well	33	Jan.13,1937	1,053	25	61	277	543	346	77	313
110	do.	35	Jan.14,1937	306	-	-	-	354	a/	10	-
111	do.	8	Mar. 3,1937	325	-	-	-	293	48	11	-

a/ Sulphate less than 10 parts per million.

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

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
113	W.P.A. test well	21	Mar. 3, 1937	218	-	-	-	183	35	12	-
114	XIT Trustees	-	Feb. 23, 1937	285	59	29	13	329	12	10	268
115	W.P.A. test well	21	Mar. 3, 1937	642	-	-	-	494	134	30	-
116	do.	20	do.	305	-	-	-	311	19	15	-
119	do.	46	Jan. 18, 1937	467	-	-	-	445	50	20	-
124	do.	48	Mar. 5, 1937	517	-	-	-	372	119	28	-
125	do.	39	Mar. 4, 1937	356	-	-	-	336	46	10	-
127	H.R. Unrush	50	Jan. 18, 1937	488	-	-	-	372	96	30	-
129	Karl Siedel	60	Jan. 16, 1937	608	24	63	119	488	138	24	319
130	I.I. Regier	28	do.	378	29	51	55	464	a/	15	282
132	J. Berger	67	Jan. 19, 1937	352	-	-	-	311	50	17	-
133	W.P.A. test well	47	do.	60,407	660	2,310	15,803	695	35,812	5,480	11,150
142	G.H. Brewster	160	Feb. 1, 1937	499	-	-	-	433	83	17	-
147	Mrs. T.M. John	180	do.	320	15	44	49	323	42	11	217
153	A.Q. Bonner	300	Mar. 9, 1937	299	46	22	38	238	42	34	204
154	J.Q. Sewell	269	do.	292	45	27	29	250	44	24	222
157	R.N. Love	78	Feb. 22, 1937	325	-	-	-	275	56	13	-
163	A.M. Hougen	126	Jan. 27, 1937	314	-	-	-	232	58	27	-
164	do.	29	do.	327	-	-	-	281	50	17	-
166	Ed. Hartzell	48	do.	281	-	-	-	232	42	20	-
168	W.C. Greer	188	Jan. 26, 1937	252	33	19	34	183	58	18	162
170	J.B. Baker	177	do.	268	45	27	20	250	38	15	222
171	W.S. Stewart	137	do.	281	-	-	-	250	38	14	-
177	First National Bank	115	Feb. 8, 1937	346	57	27	42	329	23	35	252
178	W.T. Hardy	96	do.	315	-	-	-	275	38	23	-
181	A. Loger	107	Mar. 5, 1937	237	-	-	-	153	48	28	-
184	M. Tefro	94	do.	251	-	-	-	189	46	20	-
185	Mae Kunz	86	do.	209	-	-	-	146	46	16	-
187	H. Schniers	124	Feb. 22, 1937	299	-	-	-	256	42	19	-
193	J.J. Becker	92	Feb. 11, 1937	312	31	29	46	201	48	59	198
194	- Trustees	87	Feb. 8, 1937	204	-	-	-	177	25	15	-
195	do.	140	Jan. 28, 1937	233	-	-	-	195	35	15	-
198	E.R. Montgomery	139	Feb. 10, 1937	249	40	22	26	238	29	15	189
200	J. Wiebe	155	Feb. 11, 1937	268	-	-	-	232	31	22	-

a/ Sulphate less than 10 parts per million.

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

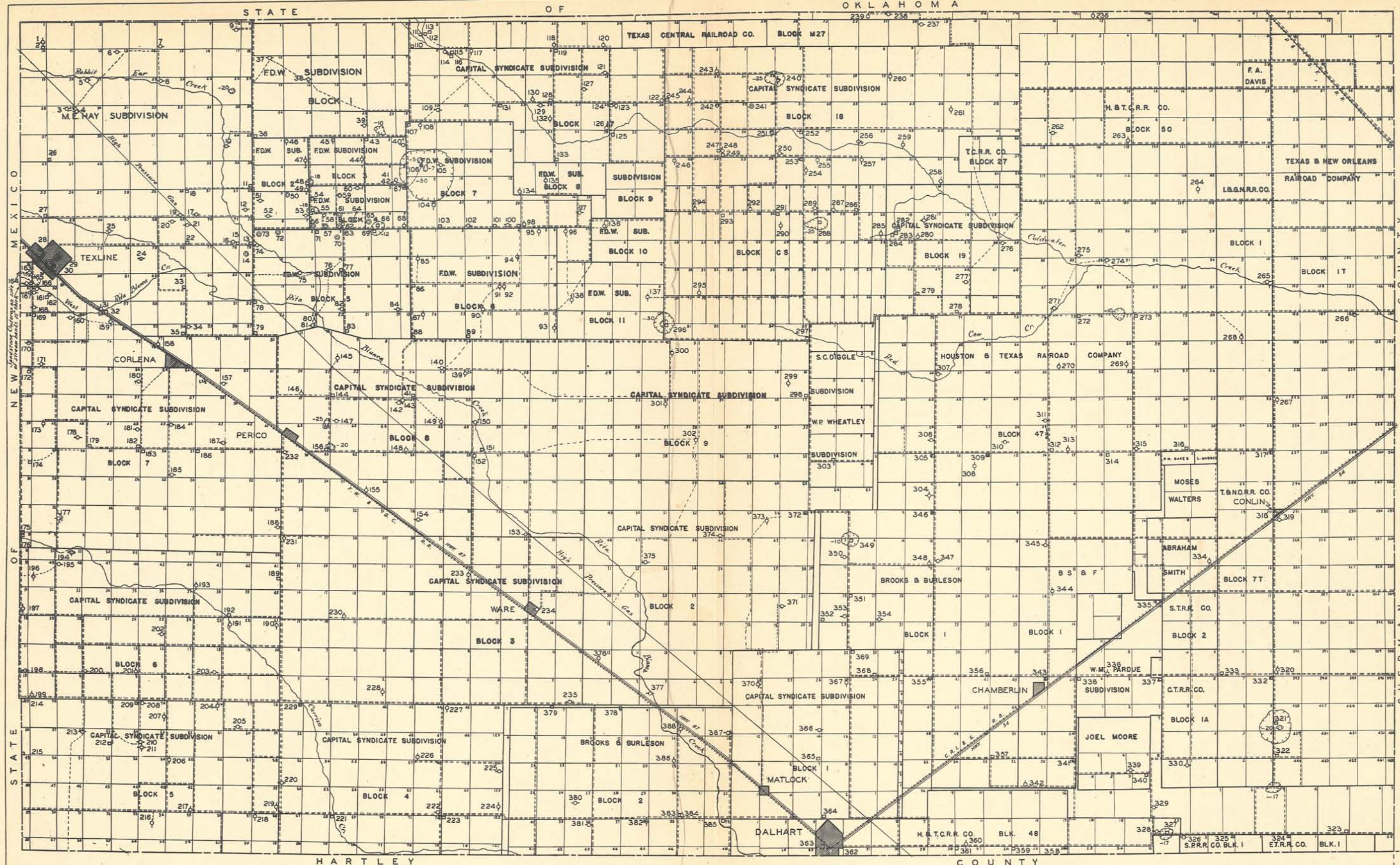
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
202	C. Wackenrin	106	Feb.10,1937	261	-	-	-	232	27	21	-
203	R. Sallaska	112	Feb.12,1937	234	-	-	-	189	27	26	-
205	E.O. Foster	106	do.	235	-	-	-	207	27	17	-
208	- Trustees	94	Mar. 2,1937	211	-	-	-	177	28	17	-
210	do.	125	do.	234	34	23	24	220	31	14	179
213	J. Crutchfield	125	do.	238	-	-	-	195	31	22	-
220	G.M. Walter	192	Feb.12,1937	282	41	28	17	305	31	15	217
222	W.G. Wharton	259/	Mar. 1,1937	262	34	24	32	226	48	13	185
225	L.P. Moren	257	Apr.1, 1937	243	-	-	-	226	31	9	-
232	B. Thomas	159	Mar. 5,1937	299	-	-	-	256	44	17	-
235	W.M. Green Estate	228	Apr. 1,1937	244	44	24	15	232	37	10	210
237	J.C. Blackburn	121	Mar.12,1937	254	-	-	-	201	44	17	-
238	D. Harmon	79	do.	337	41	27	50	275	63	23	212
242	Coldwater School	59	Mar.11,1937	375	40	24	69	293	75	23	200
245	W.P.A. test well	70	Mar.10,1937	502	-	-	-	342	127	27	-
247	do.	34	Mar.11,1937	961	-	-	-	659	177	109	-
251	C.C. Nickels	43	Feb. 4,1937	416	-	-	-	323	85	20	-
256	J.T. Sneed Jr.	-	Apr.27,1937	522	-	-	-	482	65	22	-
262	R. Crabtree	290	Apr.28,1937	243	20	22	44	214	35	17	139
265	A.H. Belo Estate	226	Mar.20,1937	211	32	24	17	226	19	8	180
274	S.T. Fagan	260	-	329	-	-	-	268	65	11	-
276	- Trustees	249	Apr. 5,1937	288	22	22	59	244	50	15	144
306	J.J. Glisan	394	-	299	45	19	44	262	42	20	192
307	G.E. Morehead	400	Mar.17,1937	330	45	25	43	232	73	30	216
310	M.A. Wynne	300/	-	342	-	-	-	232	71	32	-
311	F.F. Ruff	300/	-	332	-	-	-	226	77	24	-
326	E. McClesky	349	Mar.31,1937	253	-	-	-	220	35	15	-
328	J.A. Mathews	290	do.	240	-	-	-	207	31	17	-
329	L. Wilson	320	do.	214	25	19	29	165	42	18	142
335	E. Shepperd	200/	Apr.20,1937	312	42	24	43	262	54	20	205
339	C. Witt	319	Apr. 9,1937	265	-	-	-	226	42	13	-
345	H.J. McCuistion	300/	-	345	51	29	40	299	54	24	248
347	Southwestern Life Insurance Co.	400	Apr.14,1937	347	29	36	52	287	69	20	223
353	Rance L. Smith	320	Apr.10,1937	356	63	19	46	305	62	16	237

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

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)
354	L.F. Bolton	286	Apr.10,1937	324	-	-	-	256	62	17	-
366	E. McIlroy	300	do.	216	32	17	26	183	35	16	151
371	Price, Dawson and Fugua	300 /	do.	254	-	-	-	201	42	19	-
374	do.	300 /	-	367	-	-	-	299	65	19	-
375	G.H. Hansen	300	Apr.12,1937	161	26	17	10	134	31	11	136
377	E. Ashby	214	Feb.24,1937	245	41	19	26	220	35	16	182
381	H.F. John	198	Mar. 1,1937	273	33	36	20	256	42	16	233
387	D. Frampton	280	Apr.12,1937	228	34	24	19	214	35	11	185



EXPLANATION

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

MAP OF DALLAM COUNTY, TEXAS

SHOWING LOCATIONS OF WATER WELLS LISTED

SCALE



FIELD WORK BY
C. R. FOLLETT
PROJECT SUPERINTENDENT
W.P.A. PROJECT 6007-5071

BASE COMPILED FROM
LAND OWNERSHIP MAP
AND FIELD NOTES

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

