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STATE BOARD OF WATER ENGINEERS

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BROWN 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 6204

Dan A. Davis,

Project Superintendent

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Analyses made, 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 United States Department of the
Interior, Geological Survey, cooperating.

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Austin, Texas

June 7, 1938

BROWN COUNTY, TEXAS

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Introduction
by
Samuel F. Turner
Associate Hydraulic Engineer
Geological Survey
United States Department of the Interior

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

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells," sponsored by the State Board of Water Engineers. The Division of Ground Water of the Geological Survey, United States Department of the Interior, 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. Typists employed on this project typed and assembled this release.

The field work in Brown County was started on November 22, 1937, and completed March 6, 1938. This work was done as Project 6204 of Administrative Field Office 19 of the Works Progress Administration, San Angelo, Texas. Dan A. Devis, a geologist, was project superintendent. Mr. Devis should be given credit for his interest in the work and for the many extra hours he spent on the project. The San Angelo office of the Works Progress Administration made this work possible by their constant help and cooperation. The Brown County Commissioners' Court cooperated by furnishing transportation for the workers during the project.

This release contains the well records and well logs obtained by the project superintendent, logs of the test holes drilled by the W.P.A. labor, and the chemical analyses of water from privately-owned wells. Locations of all wells listed are shown on the map in the back of the release.

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

Records of wells in Brown County, Texas

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

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

No.	Distance from Brownwood	Section	Survey or block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
1	26 miles northwest	SW $\frac{1}{4}$ NE $\frac{1}{4}$	D. Thomas sur. 782	Ansel Martin Est.	--	--	98	5
2	23 $\frac{1}{2}$ miles northwest	SW $\frac{1}{4}$ NE $\frac{1}{4}$	S. Jones sur. 282	-- Anderson	--	--	22	36
3	22 $\frac{1}{2}$ miles north	SW $\frac{1}{4}$ SW $\frac{1}{4}$	N. B. Mitchell sur. 150	-- Oil Co.	--	1921	16	42
d/ 4	30 $\frac{1}{2}$ miles north	do.	J. Delgado sur. 789	C. W. Jones	Mac. T. Anderson	1929	1,150	10
5	do.	SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	do.	--	--	140	6
6	20 miles north	SW $\frac{1}{4}$ SW $\frac{1}{4}$	H. P. Browster sur. 790	-- Jones	--	--	80	6
7	19 $\frac{1}{2}$ miles north	SE $\frac{1}{4}$ SE $\frac{1}{4}$	M. C. Martin, sur.	M. A. Drinkard	--	--	84	6
8	21 miles north	SW cor. NE $\frac{1}{4}$	H. P. Browster sur. 790	D. D. Milner	--	--	28	6
9	24 miles north	NE $\frac{1}{4}$ NE $\frac{1}{4}$	J. M. Harris sur. 784	J. W. Newton	--	--	27	24
10	23 $\frac{1}{2}$ miles north	SE $\frac{1}{4}$ SE $\frac{1}{4}$	J. I. Scott sur. 4	J. A. Everage Est.	--	--	29	24
11	24 miles north	14, SE $\frac{1}{4}$ SE $\frac{1}{4}$	B.B.B. & C.R.R. sur., blk. 3	M. J. Lee Est.	--	--	115	6
12	23 miles north	1, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	C. G. Schultz	--	--	97	6
13	22 miles north	16, NE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	Mrs. E. L. Holman	--	--	157	6
14	19 miles north	22, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	A. F. Spence	--	--	32	6
15	19 $\frac{1}{2}$ miles north	7, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	Wessie Hardy	--	Old	107	--
16	19 miles north	6, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Mrs. -- Suddas	--	--	65	6
17	do.	1, SE $\frac{1}{4}$ SE $\frac{1}{4}$	H.T. & B.R.R. sur.	C. E. Weathersby	--	--	100	6
d/ 18	17 $\frac{1}{2}$ miles north	3, SW $\frac{1}{4}$ SW $\frac{1}{4}$	do.	-- Ford	--	--	200	6
d/ 19	17 miles north	70, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	J. C. Plummer	Amerada Pet. Corp.	1928	1,314	12 $\frac{1}{2}$
21	14 $\frac{1}{2}$ miles north	80, SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	--	--	--	18	24
26	12 miles north	57, SE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	George Newell	--	--	52	6
27	10 $\frac{1}{2}$ miles north	NE end	O. Dalton sur. 26	Clic School	--	--	18	24
28	9 miles northeast	NE $\frac{1}{4}$ SW $\frac{1}{4}$	J. Boyd sur. 77	--	--	--	18	24
31	11 miles northeast	So. of NE cor.	D. Cole sur. 81	Mrs. G. W. Faulkner	--	--	67	24

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

b/ C, cylinder; B, bucket; W, windmill; H, hand; E, electric; G, gasoline

c/ Cf, centrifugal; number indicates horsepower.

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

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement				
1	1.5	75.6	Nov. 29, 1937	C, T	S	Gentle slope	Concrete curb; galvanized casing. Reported weak supply.
2	0	18.6	do.	None	N	Creek bottoms	Dug well.
3	2	8.4	Feb. 12, 1938	C, -	D, S	Flat	Dug well; stone curb and casing. Reported pumped by power take-off
4	--	--	--	None	N	--	Oil test. See [from oil well pump. log.
5	--	100	e/	C, W	D, S	Slope	Reported strong supply.
6	2.5	45.7	Jan. 8, 1938	B, F	S	Hill-side	Galvanized casing
7	2.5	71.5	Mar. 3, 1938	B, F	D	Slope	Galvanized casing. Strong supply reported in sand.
8	1.6	17.5	Dec. 1, 1937	B, H	D, S	Hilltop	Do.
9	1.5	23.1	do.	C, W	S	Hill-side	Dug well; brick curb and casing.
10	0	19.8	Dec. 2, 1937	B, H	D, S	Ridge-top	Dug well; wood casing. Strong supply reported in sand.
11	0.4	74.1	Dec. 3, 1937	C, W	D, S	Slope	Galvanized casing. Strong supply reported in sand.
12	0.5	74.8	Dec. 2, 1937	C, W	D, S	do.	Do.
13	--	--	--	C, T	D, S	do.	Do.
14	0.3	20.3	Mar. 3, 1938	C, W	D, S	Hill-side	Galvanized casing. Reported water in sand at 32 feet.
15	0.7	73.3	do.	C, W	D, S, I	Ridge-top	Concrete curb. Irrigates small garden.
16	0.7	42.1	Feb. 3, 1938	C, H	D, S	Gentle slope	Reported water in sand.
17	--	95	e/	C, W	--	Slope	Do.
18	--	--	--	C, W	S	do.	Do.
19	--	--	--	None	N	--	Oil test. See log.
21	0	13.8	Jan. 3, 1938	B, F	S	Slope	Dug well; stone curb.
26	0.7	35.1	Feb. 3, 1938	C, H	D, S	Hill-side	Wood curb; galvanized casing.
27	0.4	7.5	do.	None	N	Side of draw	Dug well. Concrete curb; stone casing. Formerly school well.
28	0	4.5	do.	None	N	Gentle slope	Dug well; stone curb and casing.
31	3	45.1	Feb. 2, 1938	C, W	D, S	Hill-side	Dug well; concrete curb and stone 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 in Brown County--Continued

No.	Distance from Brownwood	Section	Survey or block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
36	14½ miles northeast	NE¼NW¼	Comanche C.S.L. sur. 43	E. R. Push	--	--	114	6
38	do.	NW¼SW¼	Comanche C.S.L. sur. 42	John Reeves	--	--	164	6
39	14 miles northeast	do.	do.	Dr. R. Cobb	--	--	93	6
40	13½ miles northeast	SE¼SW¼	Comanche C.S.L. sur. 43	W. Heppinstall	--	--	126	6
41	11 miles northeast	9, N¼NE¼	H.T. & E.R.R. sur.	-- Arden	--	--	200	6
42	10 miles northeast	8, NE¼NW¼	do.	A. J. McLaughlin	--	Old	80	6
d/ 43	9 miles northeast	SW¼S¼	David Cole sur. 81	-- Bohare	P. W. Thomas, et al.	--	2,340	--
44	do.	do.	do.	Clara and Edith Stewart	--	--	38	36
45	do.	7, SE¼NW¼	H.T. & B.R.R. sur.	Mrs. -- Townsend	--	--	184	6
46	do.	7, SW¼NW¼	do.	L. W. Reagan	--	1935	147	6
47	8 miles northeast	1, NE¼SE¼	do.	J. W. Richmond	--	Old	98	6
d/ 48	7½ miles northeast	SW¼SW¼	C. S. Corbett sur. 16	C. F. Evans	J. C. Van Babber	1929	2,216	--
49	do.	cen.	W. K. Dalton sur. 57	Oliver Steel	--	--	39	36
50	7 miles northeast	NE¼NE¼	J. Duckworth sur. 56	Mrs. Hugh Davis	--	--	50	48
51	4¾ miles northeast	SE¼SW¼	do.	M. E. Melone	--	1930	125	6
52	2½ miles northeast	cen. NE side	P. Sullivan sur. 17	Bob Parker	-- Barker	1937	49	6
53	2 miles southeast	NE end	H. F. Hall sur. 49	A. C. Snyder	--	1916	2,402	8¼
d/ 54	4 miles southwest	NE¼SE¼	Vm. Hayes sur. 602	B. W. Milhollen	J. D. Loofberron, et al.	--	620	--
d/ 55	6 miles southwest	W end	Kerr C.S.L. sur. 279	--	--	--	52	24
d/ 56	4¾ miles southwest	SW¼SW¼	C. Cummings sur. 607	-- Hale	-- Evans	--	646	--
d/ 57	3¼ miles southwest	cen.	H. J. Henderson sur.	T. E. Byrd	Samler & Davis	--	399	--
d/ 58	5 miles west	SW¼NW¼	J. M. Ross sur. 609	W. H. Mayes	Gore & Brown	--	2,100	--
d/ 59	4¾ miles west	NW¼NW¼	J. M. Ross sur. 610	-- Sears	-- Evans, et al.	--	732	--
60	7 miles west	11, NW¼NW¼	H.T. & B.R.R. sur.	A. G. Norton	--	--	28	60
61	5½ miles west	2, NW¼NE¼	E.T.R.R. sur.	--	--	--	19	36

Dan A. Davis, Project Superintendent

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement				
36	0.6	10.2	Feb. 2, 1938	C,W	S	Ridge-top	Strong supply reported in sand.
38	--	--	--	C,W	S	Hill-side	Do.
39	0.3	80	Feb. 3, 1938	C,W	D,S	Slope	Do.
40	0.7	90.5	Feb. 3, 1938	C,W	D,S	do.	Do.
41	--	177	e/	C,W	D,S	Hilltop	Do.
42	--	45	e/	C,W	D,S	Hill-side	Drilled to supply oil well. Reported former production of 200 barrels
43	--	--	--	None	N	--	Oil test. Reported altitude, 1,876 feet. See log.
44	2	31.1	Feb. 2, 1938	C,W	D,S	Slope	Dug well; stone curb and casing.
45	0.4	174.4	do.	C,W	D,S	Hilltop	Galvanized casing. Reported water in sand.
46	0.4	125.9	do.	C,W	D,S	Hill-side	Reported pumped dry with engine.
47	1	87.8	do.	C,W	D,S	Ridge-top	Galvanized casing.
48	--	--	--	None	N	--	Oil test. Reported altitude, 1,635 feet. See log.
49	2	22.1	Feb. 2, 1938	C,H	S	Hilltop	Dug well; stone curb and casing. Reported strong supply.
50	3	39.3	do.	C,W	D,S	Slope	Do.
51	--	65	e/	C,W	D,S	do.	Galvanized casing.
52	1.6	10.7	Feb. 3, 1938	B,H	Ind	Hilltop	Reported water in gravel at 31 feet and in sand at 41 feet.
53	--	Flows	--	None	P	Hill-side	Steel casing. Reported yield, 16 gallons a minute. Used for sulphur baths. Temperature 112° F. Flow said to be caused by natural gas. Gas is trapped and used for fuel.
54	--	--	--	None	N	--	Oil test. See log.
55	0.2	11.5	Jan. 15, 1938	C,W	N	Gentle slope	Dug well; wood curb.
56	--	--	--	None	N	--	Oil test. See log.
57	--	--	--	None	N	--	Do.
58	--	--	--	None	N	--	Do.
59	--	--	--	None	N	--	Do.
60	1	23.9	Dec. 7, 1937	C,G,H,E,H	D,S	Side of draw	Dug well; wood curb and stone casing. Reported cannot be pumped dry with
61	1.5	11.9	do.	C,W	S	Bottom of draw	Dug well; stone curb and engine. casing.

Records of wells in Brown County--Continued

No.	Distance from Brownwood	Section	Survey or block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
62	7 miles northwest	14, NW $\frac{1}{4}$ NE $\frac{1}{4}$	H.T. & B.R.R. sur.	E. F. Seward	--	--	20	4
63	8 $\frac{1}{2}$ miles west	SE $\frac{1}{4}$ SE $\frac{1}{4}$	Garcia, Montes & Duran sur. 160	Mrs. A. N. King	--	--	50	8
64	11 miles northwest	cen. NW $\frac{1}{4}$	J. Konney sur. 624	Brownwood Water Board	Humble Pipe Line Co.	--	32	72
65	13 miles northwest	SE $\frac{1}{4}$ S $\frac{1}{4}$	J. Padillo sur. 645	-- Brady Est.	--	--	8	48
66	13 $\frac{1}{2}$ miles northwest	32, NW $\frac{1}{4}$ S $\frac{1}{4}$	H.T. & B.R.R. sur.	Isaac Eubank Est.	--	--	159	6
67	15 $\frac{1}{2}$ miles northwest	36, NW $\frac{1}{4}$ NW $\frac{1}{4}$	do.	Bob Fry Est.	--	--	25	36
68	16 miles northwest	28, SE $\frac{1}{4}$ SE $\frac{1}{4}$	do.	W. M. Riley	--	--	80	6
69	15 $\frac{1}{2}$ miles northwest	44, SE $\frac{1}{4}$ NW $\frac{1}{4}$	do.	W. F. Talley	--	--	94	6
d/ 70	14 $\frac{1}{2}$ miles northwest	43, NE $\frac{1}{4}$ NE $\frac{1}{4}$	do.	I. B. Gains	Acrey Oil Co.	1926	1,553	10
71	12 $\frac{1}{2}$ miles northwest	SW $\frac{1}{4}$ NW $\frac{1}{4}$	E. A. Evans sur. 605	Coker White	--	--	96	10
d/ 72	12 $\frac{1}{2}$ miles west	NW $\frac{1}{4}$ NW $\frac{1}{4}$	T. & N.C.R.R. sur. 43	John Beck	Amerada Pet. Corp.	1928	1,395	12 $\frac{1}{2}$
73	12 miles west	NE $\frac{1}{4}$ NW $\frac{1}{4}$	C. B. Jennings sur. 353	Mrs. J. L. Riordan	Bill Kellog	1932	169	6
74	do.	do.	J. H. Grimes sur. 352	do.	Patty Powell	1893	31	36
75	11 $\frac{1}{2}$ miles west	NW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	D. Strange	Bill Kellog	1930	51	8 $\frac{1}{4}$
79	9 $\frac{1}{2}$ miles west	27, NW $\frac{1}{4}$ SE $\frac{1}{4}$	H.T. & B.R.R. sur.	A. Brewer	--	--	340	--
82	8 miles west	24, SW $\frac{1}{4}$ SE $\frac{1}{4}$	do.	John Stevens	--	--	250	8
83	8 $\frac{1}{2}$ miles west	NE $\frac{1}{4}$ NE $\frac{1}{4}$	S. Bangs sur. 108	City of Bangs	City of Bangs	1918	24	96
84	do.	NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	do.	do.	1934	18	192
85	9 miles west	SW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	Mrs. J. L. Riordan	--	--	44	--
93	12 $\frac{1}{2}$ miles west	NW $\frac{1}{4}$ NE $\frac{1}{4}$	G. Waters sur. 114	Frank Brooks	Bill Kellog	1930	62	6
94	12 miles west	SW $\frac{1}{4}$ SW $\frac{1}{4}$	G. Bunson sur. 66	Tom Yantis	--	--	14	36
95	10 $\frac{1}{2}$ miles west	NE $\frac{1}{4}$ SE $\frac{1}{4}$	C. M. Calvit sur. 109	Carl Greer	--	--	160	8 $\frac{1}{4}$
97	8 $\frac{1}{2}$ miles southwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$	C. J. Carrier sur. 60	J. M. Fields	--	--	140	6
d/ 98	12 $\frac{1}{2}$ miles southwest	W end	A. Arrocha sur. 205	W. R. Guthrie	Amerada Pet. Corp.	1928	742	8 $\frac{1}{4}$
100	14 $\frac{1}{2}$ miles southwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$	E. Votaw sur. 229	--	--	--	27	24
105	do.	SW $\frac{1}{4}$ SW $\frac{1}{4}$	J. P. Riddle sur. 143	Dulin School	--	--	18	60
106	12 miles south	NE $\frac{1}{2}$	J. P. Davis sur. 176	-- Warnock	--	--	34	24

Dan A. Davis, Project Superintendent

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
		Depth below measuring point (ft.)	Date of measurement				
62	1.5	19.9	Nov. 27, 1937	C, W	D, S	Flat	Dug well; stone curb and casing.
63	--	--	--	C, W	D, S	Gentle slope	Reported strong supply.
64	2.5	9.3	Dec. 10, 1937	C, W	Ind	Creek bottoms	Dug well; concrete curb and casing. Uses suction pump.
65	1.3	3.5	Jan. 11, 1938	B, H	S	Hill-side	Dug well; iron curb, stone casing. Reported only well in vicinity that
66	0.5	135.9	Nov. 29, 1937	C, W	D, S	Ridge-top	Galvanized casing. did not fail in 1934.
67	1.5	11.8	Nov. 30, 1937	C, H	S	Gentle slope	Dug well; stone curb and casing.
68	--	--	--	C, W	D, S	Hill-side	
69	2.3	74.6	Dec. 10, 1937	C, W	D, S	Ridge-top	Stone curb.
70	--	--	--	None	N	--	Oil test. See log.
71	1	10.9	Dec. 7, 1937	C, W	S	Gentle slope	Steel casing.
72	--	--	--	None	N	--	Oil test. See log.
73	0.7	72.2	Nov. 27, 1937	B, F	S	Hill-side	Galvanized casing. Strong supply reported in blue sand from 161 to
74	2.5	11.4	Nov. 25, 1937	B, H	D, S	Gentle slope	Dug well; brick curb and casing. Reported water in gray sand. 185 feet.
75	1.5	31.3	Feb. 26, 1938	B, F	D, S	Ridge-top	Steel casing.
79	--	80	c/	C, W	D, S	do.	
82	0.5	192.2	Dec. 8, 1937	C, W	D, S	Slope	Galvanized casing. Reported yield, 4 to 5 gallons a minute.
83	9	12.4	Nov. 25, 1937	Cf, E, & S	P	Flat	Dug well; concrete curb, brick casing. Reported water in white sand.
84	1.5	15.4	do.	Cf, E, & S	P	do.	Dug well; tile curb and casing. Reported water in white sand.
85	0.5	18.9	Nov. 27, 1937	C, W	S, I	Gentle slope	Irrigates flower garden.
93	1.2	18.9	Mar. 1, 1938	None	N	Slope	Galvanized casing. Reported weak supply.
94	2.3	9.6	Feb. 7, 1938	C, W	D, S	Edge of draw	Dug well; stone curb and casing.
95	0.3	108.7	do.	C, W	D, S	Slope	Steel casing.
97	0.4	93	do.	C, W	D, S, I	Ridge-top	Galvanized casing. Irrigates small garden.
98	--	--	--	None	N	--	Oil test. See log.
100	2.7	13.2	Feb. 7, 1938	B, E	S	Gentle slope	Dug well; stone curb and casing.
105	2.5	15.9	Nov. 30, 1937	None	N	do.	Do.
106	1.2	12.9	Feb. 10, 1938	Cf, G, & -	I	Hill-side	Do.

Records of wells in Brown County--Continued

No.	Distance from Brownwood	Section	Survey or block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
107	8 $\frac{1}{2}$ miles southwest	SE $\frac{1}{4}$ SW $\frac{1}{4}$	E. W. Estes sur. 64	-- Fields	--	--	75	6
108	7 miles south	W end	Kerr C.S.L. sur. 272	T. K. Ward	--	--	105	--
109	5 miles south	cen.	Kerr C.S.L. sur. 275	T. C. Brown	--	--	20	24
110	10 $\frac{1}{2}$ miles southeast	do.	J. Kellogg sur. 34	J. R. Cross, Sr.	--	--	60	6
d/111	12 $\frac{1}{2}$ miles southeast	cen.S side	G. A. Parker sur. 4	M. I. Smith	--	--	56	6
112	do.	E cor.	T. Smith sur. 5	do.	--	--	75	6
113	do.	SW $\frac{1}{4}$ NE $\frac{1}{4}$	J. B. Chambers sur. 827	-- Kobbol	--	--	129	6
114	10 miles southeast	cen. NW $\frac{1}{4}$	D. Y. Pyron sur. 7	Ed. Counts	--	--	56	24
115	7 $\frac{1}{2}$ miles southeast	NE end	E. Velasco sur. 11	Mrs. -- Hagans	--	--	147	--
116	5 $\frac{1}{2}$ miles east	SE side	Brown C.S.L. sur. 360	State of Texas	--	--	25	--
117	9 miles east	NE $\frac{1}{4}$ NE $\frac{1}{4}$	S. Collins sur. 319	--	--	Old	79	6
d/118	10 miles east	NW $\frac{1}{4}$ NW $\frac{1}{4}$	Wm Wharton sur. 318	A. B. Dabney	Beasley-Cook Oil Co.	1929	1,615	10
121	11 miles east	NW $\frac{1}{4}$ NE $\frac{1}{4}$	do.	G. G. Douglas	--	--	106	6
123	9 $\frac{1}{2}$ miles east	SE $\frac{1}{4}$ SW $\frac{1}{4}$	J. Harris sur. 330	--	--	--	65	6
125	11 $\frac{1}{2}$ miles east	62, SW $\frac{1}{4}$ NE $\frac{1}{4}$	H.T & B.R.R. sur.	J. A. and H. W. Kesler	--	--	108	6
126	12 $\frac{1}{2}$ miles east	63, SW $\frac{1}{4}$ SE $\frac{1}{4}$	S.F.R.R. sur.	-- Howton Est.	--	Old	141	6
127	13 $\frac{1}{2}$ miles east	NE $\frac{1}{4}$ NE $\frac{1}{4}$	J. Forrester sur. 316	Preston Tucker	--	--	120	6
128	do.	SW $\frac{1}{4}$ SW $\frac{1}{4}$	J. Bollinger sur. 315	Edgar McKenzie	-- Baker	1936	116	6
d/131	15 miles east	SE $\frac{1}{4}$ SE $\frac{1}{4}$	P. A. Ackerman sur. 314	Mrs. C. W. Witton	--	1936	168	6
132	16 miles east	NW $\frac{1}{4}$ SW $\frac{1}{4}$	sur. 342	J. W. Keating	--	--	133	6

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

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

Dan A. Davis, Project Superintendent

No.	Height of measuring point above ground (ft.) g/	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
		Depth below measuring point (ft.) e/	Date of measurement				
107	0.7	32.1	Jan. 15, 1938	C, W, G, & I	S	Side of draw	Galvanized casing.
108	--	25	e/	C, V	S	Slope	
109	2.5	19.8	Nov. 30, 1937	C, W	D, S	Hill-side	Dug well; brick curb and casing.
110	--	--	--	C, V	D, S	Slope	Reported weak supply.
111	0.1	54.8	Feb. 11, 1938	None	N	Ridge-top	Old school well.
112	0.2	22.8	do.	C, W	D, S	Hill-side	Galvanized casing. Reported altitude, 1,450 feet.
113	0	93.4	Jan. 7, 1938	C, V	S	Ridge-top	
114	1.7	51.6	Feb. 21, 1938	C, W	D, S	Gentle slope	Dug well; stone curb and casing.
115	--	144.9	e/	C, V	D, S	Hill-side	Water reported in sand.
116	--	--	--	C, H	D	Slope	Located on U. S. Highway 84 right-of-way.
117	0.3	59.2	Feb. 3, 1938	None	N	Hill-side	Galvanized casing.
118	--	--	--	None	N	--	Oil test. See log.
121	0.5	79.7	Feb. 8, 1938	C, W	D, S	Gentle slope	Galvanized casing.
123	--	--	--	C, W	S	Hill-side	Reported water in sand.
125	--	95	e/	C, W	D, S	Gentle slope	Wood curb; galvanized casing.
126	1.2	135.4	Mar. 2, 1938	C, V	D, S	Hill-side	Galvanized casing. Reported water in sand.
127	0.8	113.2	Feb. 16, 1938	C, W	D, S	Slope	Reported water in sand.
128	0.5	91.6	Feb. 8, 1938	B, H	D, S	Hill-side	Do.
131	0.6	95.3	Feb. 4, 1938	C, W	S	Gentle slope	Do.
132	0.6	48.3	do.	C, V, C, & I	S	Hill-side	Do.

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, Brown County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 4</u>		
C. W. Jones farm, 20 $\frac{1}{2}$ miles north of Brownwood.		
Sand - - - - -	20	20
Blue clay - - - - -	77	97
Lime - - - - -	3	100
Blue clay - - - - -	20	120
Shale - - - - -	30	150
Water sand - - - - -	23	173
Shale - - - - -	7	180
Lime - - - - -	20	200
Sandy shale - - - - -	41	241
Water sand - - - - -	20	261
Shale - - - - -	89	350
Lime - - - - -	45	395
Shale and sand - - - - -	90	485
Lime - - - - -	10	495
Blue shale - - - - -	3	498
Red shale - - - - -	7	505
Blue shale - - - - -	5	510
Sandy limestone - - - - -	8	518
Sand (some oil) - - - - -	5	523
Blue shale - - - - -	17	540
Lime - - - - -	95	635
Shale - - - - -	20	655
Lime - - - - -	35	690
Blue mud - - - - -	5	695
Lime - - - - -	10	705
Shale - - - - -	5	710
Lime - - - - -	38	745
Sandy shale - - - - -	35	780
Blue shale - - - - -	45	825
Shale - - - - -	50	875
Lime - - - - -	5	880
Shale - - - - -	7	887
Lime - - - - -	25	912
Shale - - - - -	30	942
Red shale - - - - -	4	946
Lime - - - - -	10	956
Red beds - - - - -	19	975
Shale - - - - -	123	1098
Lime - - - - -	10	1108
Shale - - - - -	3	1111
Lime - - - - -	5	1116
Shale - - - - -	34	1150
TOTAL DEPTH - - - - -		1150

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 19</u>		
J. C. Plummer farm, 17 miles north of Brownwood.		
Surface materials - - - - -	3	3
Gravel - - - - -	13	16
Dry sand - - - - -	29	45
Water sand - - - - -	10	55
Red rock - - - - -	5	60
Sandy lime - - - - -	16	76

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 19--Continued</u>		
Water sand - - - - -	6	82
Sandy lime - - - - -	4	86
Yellow clay - - - - -	21	107
Brown lime - - - - -	38	145
Blue shale - - - - -	3	148
Lime - - - - -	3	151
Blue shale - - - - -	34	185
White lime - - - - -	22	207
Blue shale - - - - -	13	220
Lime - - - - -	5	225
Blue shale - - - - -	23	248
Lime - - - - -	15	263
Light-colored shale - - - - -	6	269
Lime - - - - -	6	275
Water sand - - - - -	20	295
Blue shale - - - - -	75	370
Black shale - - - - -	15	385
Blue shale - - - - -	50	435
Yellow shale - - - - -	10	445
Sand - - - - -	10	455
Brown shale - - - - -	10	465
Blue shale - - - - -	89	554
Gray lime - - - - -	29	583
Blue shale - - - - -	87	670
Black shale - - - - -	45	715
Lime - - - - -	3	718
Blue shale - - - - -	7	725
Brown shale - - - - -	5	730
Sandy shale - - - - -	6	736
White lime - - - - -	6	742
Blue shale - - - - -	2	744
Dry sand - - - - -	2	746
Brown shale - - - - -	34	780
Blue shale - - - - -	11	791
Sand - - - - -	7	798
Blue shale - - - - -	2	800
Dry sand - - - - -	12	812
Water sand - - - - -	32	844
Blue shale - - - - -	64	908
Water sand - - - - -	16	924
Sandy lime - - - - -	2	926
Hard-packed sand - - - - -	12	938
Sandy blue shale - - - - -	12	950
Lime - - - - -	13	963
Water sand - - - - -	40	1003
Blue shale - - - - -	5	1008
Water sand - - - - -	25	1033
Blue shale - - - - -	157	1190
Water sand - - - - -	5	1195
Blue shale - - - - -	41	1236
Sandstone - - - - -	12	1248
Blue shale - - - - -	66	1314
TOTAL DEPTH - - - - -		1314

Table of Drillers ' Logs Brown County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 43</u>		
-- Boharc farm. 9 miles northeast of Brownwood.		
Surface materials	15	15
Water sand	4	19
Shale	11	30
Red beds	65	95
Blue shale	25	120
Water sand	5	125
Blue shale	75	200
Light-colored shale	135	335
Gray limestone	5	390
Light-colored shale	45	435
Broken limestone	10	445
Sand	5	450
Sandy shale	20	470
Gray limestone	4	474
Light-colored shale	19	493
Sand	62	555
Blue shale	392	947
Sand	6	953
Blue shale	46	999
Sand	2	1001
Blue shale	9	1010
Sand	20	1030
Blue shale	155	1185
Sand	10	1195
Blue shale	20	1215
Sand	10	1225
Sandy shale	110	1335
Sand	60	1395
Blue shale	50	1445
Dark-colored shale	105	1550
Black shale	95	1645
Brown shale	30	1675
Black shale	210	1885
Gray limestone	25	1910
Broken limestone	87	1997
Sandy gray limestone	8	2005
Gray limestone	95	2100
Chalky gray limestone	98	2198
Hard shale	2	2200
Sandy limestone	7	2207
Limestone and shells	113	2320
Water sand	5	2325
Limestone and hard shells	1	2326
Sandy limestone	14	2540
TOTAL DEPTH		2340

<u>Driller's log of well 48</u>		
C. F. Evans tract. 7½ miles northeast of Brownwood.		
Surface materials	6	6
Water sand	36	42
Red clay	23	65
Red shale	61	126

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 48--Continued</u>		
Blue shale	174	300
Gray limestone	8	308
Water sand	38	346
Limestone	46	392
Sandy limestone	25	417
Limestone and shells	2	419
Coarse-grained sand	45	464
Gray limestone	10	474
Sand and shale	6	480
Sandy shale and limestone	21	501
Sand	59	560
Gray limestone	17	577
Sand	4	581
Blue shale	17	598
Sand	13	611
Blue shale	5	616
Sandy limestone	9	625
Blue shale	12	637
Sand	10	647
Sandy shale	6	653
Blue shale	28	681
Limestone and sand	8	689
Blue shale	7	696
Conglomerate	5	701
Blue shale	39	740
Limestone and shells	2	742
Blue shale	38	780
White limestone	6	786
Blue shale	75	861
Limestone and shells	3	864
Blue shale	72	936
Sand, salt water	22	958
Blue shale	147	1105
Sand	4	1109
Blue shale	16	1125
Sandy blue shale	13	1138
Blue shale	22	1160
Sandy blue shale	31	1191
Sandy limestone	4	1195
Brown shale	5	1200
Sandy blue shale	45	1245
Blue shale	51	1296
Sandy shale	10	1306
Sand, salt water	2	1308
TOTAL DEPTH		2216

<u>Driller's log of well 54</u>		
B. W. Millhollen farm. 4 miles southwest of Brownwood.		
Surface materials	10	10
Limestone	40	50
Shale	120	170
Limestone	5	175
Blue shale	15	190
(Continued on next page)		

Table of Drillers' Logs, Brown County--Continued

		Thickness (feet)	Depth (feet)
<u>Driller's log of well 54--Continued</u>			
Limestone	- - - -	14	204
Blue shale	- - - -	111	315
Sandy shale	- - - -	25	340
Limestone	- - - -	5	345
Blue shale	- - - -	30	375
Brown shale	- - - -	10	385
Limestone	- - - -	5	390
Blue shale	- - - -	44	434
Limestone	- - - -	6	440
Blue shale	- - - -	5	445
Red shale	- - - -	5	450
Blue shale	- - - -	32	482
Sand	- - - -	8	490
Blue shale	- - - -	10	500
Limestone	- - - -	10	510
Blue shale	- - - -	28	538
Sandy blue shale	- - - -	82	620
TOTAL DEPTH	- - - -		620

		Thickness (feet)	Depth (feet)
<u>Driller's log of well 56</u>			
-- Hale farm. 4 $\frac{3}{4}$ miles southwest of Brownwood.			
Surface materials	- - - -	4	4
Broken limestone	- - - -	8	12
Limestone	- - - -	10	22
Shale	- - - -	6	28
Limestone	- - - -	5	33
Shale	- - - -	12	45
Red beds	- - - -	7	52
Limestone	- - - -	13	65
Shale	- - - -	6	71
Sand	- - - -	7	78
Shale	- - - -	3	81
Limestone	- - - -	2	83
Shale	- - - -	3	86
Red beds	- - - -	8	94
Sand	- - - -	3	97
Red beds	- - - -	7	104
Limestone	- - - -	4	108
Sand, water and oil	- - - -	14	122
Sandy shale	- - - -	78	200
Limestone	- - - -	24	224
Sandy shale	- - - -	86	310
Red beds	- - - -	8	318
Sandy shale	- - - -	273	591
Sand	- - - -	2	593
Sand and red beds	- - - -	6	599
Loose-packed sand	- - - -	11	610
Red beds	- - - -	12	622
Shale	- - - -	10	632
Limestone	- - - -	6	638
Shale	- - - -	2	640
Sand	- - - -	4	644
Water sand	- - - -	2	646
TOTAL DEPTH	- - - -		646

		Thickness (feet)	Depth (feet)
<u>Driller's log of well 57</u>			
T. E. Byrd farm. 3 $\frac{1}{4}$ miles southwest of Brownwood.			
Limestone	- - - -	28	28
Shale	- - - -	7	35
Red beds	- - - -	63	98
Limestone	- - - -	2	100
Shale	- - - -	90	190
Limestone	- - - -	30	220
Shale	- - - -	167	387
Oil sand	- - - -	12	399
TOTAL DEPTH	- - - -		399

		Thickness (feet)	Depth (feet)
<u>Driller's log of well 58</u>			
W. H. Mayes farm. 5 miles west of Brownwood.			
Surface materials	- - - -	5	5
Limestone	- - - -	30	35
Shale	- - - -	57	92
Sand, gas	- - - -	10	102
Shale	- - - -	83	185
Limestone	- - - -	40	225
Shale	- - - -	328	553
Sandy limestone	- - - -	10	563
Water sand	- - - -	12	575
Shale	- - - -	40	615
Limestone	- - - -	3	618
Shale	- - - -	7	625
Sand	- - - -	15	640
Shale	- - - -	32	672
Limestone	- - - -	3	675
Sandy shale	- - - -	5	680
Sand	- - - -	8	688
Sandy shale	- - - -	7	695
Shale	- - - -	25	720
Limestone	- - - -	3	723
Shale	- - - -	32	755
Limestone	- - - -	20	775
Shale	- - - -	482	1257
Limestone	- - - -	11	1268
Shale	- - - -	7	1275
Limestone	- - - -	10	1285
Shale	- - - -	5	1290
Limestone	- - - -	7	1297
Shale	- - - -	351	1648
Limestone	- - - -	147	1795
Black shale	- - - -	130	1925
Limestone	- - - -	175	2100
TOTAL DEPTH	- - - -		2100

		Thickness (feet)	Depth (feet)
<u>Driller's log of well 59</u>			
-- Sears farm. 4 $\frac{3}{4}$ miles west of Brownwood.			
Surface materials	- - - -	2	2
Red beds	- - - -	6	8
Shale	- - - -	10	18

(Continued on next page)

Table of Drillers' Logs, Brown County—Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Driller's log of well 69—Continued</u>				<u>Driller's log of well 70—Continued</u>			
Limestone	-	5	23	Shale	-	20	345
Red beds	-	10	33	Lime	-	12	357
Limestone	-	3	36	Shale	-	9	366
Shale	-	10	46	Lime	-	6	372
Yellow shale	-	2	55	Shale	-	6	378
Limestone	-	37	92	Lime	-	10	388
Red beds	-	18	110	Shale	-	30	418
Limestone	-	15	125	Lime	-	13	431
Sand, salt water	-	25	150	Sandy shale	-	29	460
Sand and limestone	-	5	155	Water sand	-	6	466
Shale	-	5	160	Shale	-	67	533
Limestone	-	5	165	Lime	-	31	564
Water sand	-	15	180	Shale	-	5	569
Shale	-	10	196	Lime	-	3	572
Limestone	-	5	201	Shale	-	18	590
Shale	-	19	220	Water sand	-	24	614
Limestone	-	6	226	Shale	-	41	653
Shale	-	31	257	Lime	-	10	663
Limestone	-	31	288	Shale	-	10	673
Shale	-	57	345	Lime	-	11	684
Limestone	-	5	350	Shale	-	19	703
Shale	-	326	676	Water sand	-	10	713
Sand, some oil	-	5	681	Shale	-	77	790
Limestone	-	9	690	TOTAL DEPTH	-	-	1553
Shale and sand, some oil	-	31	711	<u>Driller's log of well 72</u>			
Sand	-	6	717	John Beck farm, 12 $\frac{1}{2}$ miles west of Brown-			
Shale	-	15	730	wood.			
Sand, salt water	-	2	732	Red sand	-	25	25
TOTAL DEPTH	-	-	732	Blue shale	-	5	30
<u>Driller's log of well 70</u>				Lime	-	5	35
I. B. Gaines farm, 14 $\frac{1}{2}$ miles northwest				Blue shale	-	20	55
of Brownwood.				Red rock	-	5	60
Surface materials	-	1	1	Blue shale	-	35	95
Sand rock	-	14	15	Sandy lime	-	15	110
Shale	-	13	28	Blue shale	-	36	146
Yellow clay	-	8	36	Water sand	-	20	166
Clay	-	9	45	Blue shale	-	54	220
Red beds	-	16	61	Red rock	-	2	222
Shale	-	12	73	Blue shale	-	23	245
Red beds	-	4	77	Lime	-	25	270
Shale	-	23	105	Shale	-	20	290
Lime (water)	-	10	115	Lime	-	20	310
Red rock	-	5	120	Blue shale	-	45	355
Brown shale	-	10	130	Lime	-	5	360
Red rock	-	8	138	Blue shale	-	50	410
Lime	-	4	142	Lime	-	35	445
Shale	-	2	144	Light-colored shale	-	20	465
Red beds	-	21	165	Water sand	-	35	500
Shale	-	13	213	Blue shale	-	40	540
Lime	-	5	218	Lime	-	10	550
Shale	-	72	290	Shale	-	10	560
Red beds	-	10	300	Red rock	-	5	565
Lime	-	8	308	Sandy shale	-	95	660
Water sand	-	17	325	(Continued on next page)			

Table of Drillers' Logs, Brown County--Continued

	Thickness (foot)	Depth (feet)
<u>Driller's log of well 72--Continued</u>		
Lime - - - - -	40	700
Dark-colored slate - - - - -	5	705
Lime - - - - -	10	715
Light-colored slate - - - - -	5	720
Red rock - - - - -	5	725
Light-colored shale - - - - -	7	732
Lime - - - - -	18	750
Red rock - - - - -	5	755
Dark-colored shale - - - - -	5	760
Lime - - - - -	15	775
Shale- - - - -	130	905
Red rock - - - - -	5	910
Blue shale - - - - -	85	995
Red rock - - - - -	10	1005
TOTAL DEPTH - - - - -		1395

	Thickness (foot)	Depth (feet)
<u>Driller's log of well 93</u>		
W. R. Guthrie farm. 12½ miles southwest of Brownwood.		
Yellow clay - - - - -	15	15
Red beds - - - - -	20	35
Blue gumbo - - - - -	13	48
Lime - - - - -	2	50
Blue shale - - - - -	66	116
Lime- - - - -	32	148
Blue shale - - - - -	64	212
Lime- - - - -	3	215
Blue shale - - - - -	10	225
Light-colored shale - - - - -	15	240
Pink shale - - - - -	20	260
Blue shale - - - - -	30	290
Red rock- - - - -	10	300
Lime- - - - -	5	305
Gray shale - - - - -	20	325
Blue shale - - - - -	77	402
Lime- - - - -	2	404
Blue shale - - - - -	36	440

	Thickness (foot)	Depth (feet)
<u>Driller's log of well 98--Continued</u>		
Lime - - - - -	6	446
Blue shale - - - - -	60	506
Brown lime - - - - -	10	516
Red rock - - - - -	18	534
Gray lime- - - - -	3	537
Dry sand - - - - -	13	550
Water sand - - - - -	2	552
Blue shale - - - - -	190	742
TOTAL DEPTH - - - - -		742

	Thickness (foot)	Depth (feet)
<u>Driller's log of well 118</u>		
A. P. Dabney farm. 10 miles east of Brownwood.		
Surface materials- - - - -	5	5
Lime - - - - -	15	20
Blue shale - - - - -	73	93
Sandy shale - - - - -	17	110
Sand - - - - -	18	128
Bentonite- - - - -	16	144
Blue shale - - - - -	8	152
Sandy shale - - - - -	55	207
Gray shale - - - - -	12	219
Dark-colored shale - - - - -	14	233
Blue shale - - - - -	77	310
Dark-gray shale - - - - -	45	355
Gray sand- - - - -	15	370
Light-gray shale - - - - -	43	413
Hard gray lime - - - - -	83	496
Shale- - - - -	22	518
Soft-packed sand - - - - -	37	555
Hard-packed gray sand- - - - -	35	590
Gray shale - - - - -	43	633
White sand - - - - -	5	638
Gray shale - - - - -	96	734
Hard-packed gray sand- - - - -	58	792
Sand (some oil) - - - - -	1	793
Shale- - - - -	22	815
TOTAL DEPTH - - - - -		1815

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

	Thickness (feet)	Depth (feet)
<u>Well 20</u>		
Side of draw, side of county road, SW $\frac{1}{4}$ -SE $\frac{1}{4}$ sec. 81, H.T. & B.R.R. survey, 15 miles north of Brownwood.		
Sandy reddish-brown top soil	1	1
Sandy light-brown clay-	1	2
Sandy white lime and clay -	2	4
Sandy yellow clay - - -	1	5
Rock - - - - -	-	5
Jan. 26, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 22</u>		
Slope, side of county road, NW $\frac{1}{4}$ -SE $\frac{1}{4}$ sec. 80, H.T. & B. R. R. survey 79, 15 miles north of Brownwood.		
Dark-brown clay- - - -	1	1
Sandy yellow clay - - -	4	5
White clay- - - - -	1	6
Sandy brown clay - - -	1	7
Rock - - - - -	-	7
Jan. 26, 1938		

	Thickness (feet)	Depth (feet)
<u>Well 23</u>		
Gentle slope, side of county road, NW $\frac{1}{4}$ -SE $\frac{1}{4}$ sec. 79 H.T.&B. R. R. survey, 13 $\frac{1}{2}$ miles north of Brownwood.		
Reddish-yellow clay - - -	7	7
Red clay - - - - -	1	8
Yellow clay - - - - -	4	12
Rock - - - - -	-	12
Jan. 26, 1938		

	Thickness (feet)	Depth (feet)
<u>Well 24</u>		
Gentle slope, side of county road, SE $\frac{1}{4}$ -NE $\frac{1}{4}$ sec. 78, H. T. & B. R. R. survey, 12 $\frac{1}{2}$ miles north of Brownwood.		
Brown sand- - - - -	1	1
Yellow clay - - - - -	2	3
Reddish-yellow clay - - -	3	6
Red clay - - - - -	1	7
Rock - - - - -	-	7
Jan. 25, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 25</u>		
Gentle slope, side of county road, SW $\frac{1}{4}$ -SE $\frac{1}{4}$ sec. 78, H. T. & B. R. R. survey, 12 miles north of Brownwood.		
Red clay with sand and lime	1	1
Yellow clay with sand and lime-	1	2
Sandy red clay- - - - -	1	3
Rock - - - - -	-	3
Jan. 25, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 29</u>		
Creek bottoms, side of county road, NW $\frac{1}{4}$ -SE $\frac{1}{4}$ sec. 85, H. T. & B. R. R. survey, 11 $\frac{1}{2}$ miles northeast of Brownwood.		
Sandy brown top soil - - -	3	3
Sandy gray clay - - - - -	2	5
Rock - - - - -	-	5
Jan. 27, 1938		

	Thickness (feet)	Depth (feet)
<u>Well 30</u>		
Creek bottoms, side of county road, SW $\frac{1}{4}$ -SW $\frac{1}{4}$ J. Smalzer survey, 11 $\frac{1}{2}$ miles northeast of Brownwood.		
Sandy brown top soil - - -	3	3
Sandy yellow clay - - - - -	8	11
Sandy brown clay - - - - -	2	13
Sandy gray clay - - - - -	3	16
Rock - - - - -	-	16
Jan. 27, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 32</u>		
Side of draw, side of county road, NE $\frac{1}{4}$ -NE $\frac{1}{4}$ D. Cole survey 81, 11 miles northeast of Brownwood.		
Sandy yellow clay - - - - -	5	5
Yellow lime and clay - - -	4	9
Fine-grained yellow sand -	3	12
Rock - - - - -	-	12
Jan. 31, 1938		

	Thickness (feet)	Depth (feet)
<u>Well 33</u>		
Hillside, side of county road, NE corner E. Armstrong survey 82, 11 $\frac{1}{2}$ miles northeast of Brownwood.		
Brown clay - - - - -	1	1
Yellow clay- - - - -	1	2
White clay - - - - -	1	3
Yellow clay- - - - -	2	5
Pale-green clay- - - - -	5	10
Rock - - - - -	-	10
Jan. 31, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 34</u>		
Side of draw, side of county road, NW $\frac{1}{4}$ -NE $\frac{1}{4}$ J. H. Brown survey 84, 12 miles northeast of Brownwood.		
Sandy yellow clay - - - - -	2	2
Brown lime and clay- - - -	2	4
Yellow clay - - - - -	6	10
Rock - - - - -	-	10
Jan. 28, 1938.		

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

	Thickness (feet)	Depth (feet)
<u>Well 35</u>		
Slope, side of county road, NW $\frac{1}{4}$ NW $\frac{1}{4}$ Comanche C. S. L. survey 43, 14 $\frac{1}{2}$ miles northeast of Brownwood.		
Brown lime and clay - - - -	1	1
Yellow clay - - - - -	5	6
Rock - - - - -		6
Jan. 29, 1939.		

<u>Well 37</u>		
Slope, side of county road, NE $\frac{1}{4}$ NE $\frac{1}{4}$ Comanche C. S. L. survey 43, 15 miles northeast of Brownwood.		
Yellow lime and clay - - - -	2	2
White clay - - - - -	1	3
Rock - - - - -		3
Jan. 29, 1938.		

<u>Well 76</u>		
Hillside, side of county road, SW $\frac{1}{4}$ SW $\frac{1}{4}$ J. Hernandez survey 350, 11 miles west of Brownwood.		
Brown sand- - - - -	1	1
Brownish-yellow clay - - - -	1	2
Red clay - - - - -	6	8
Pale-green clay - - - - -	1	9
Red clay - - - - -	2	11
Rock - - - - -		11
Dec. 1, 1937.		

<u>Well 77</u>		
Flat, side of county road, NE $\frac{1}{4}$ NE $\frac{1}{4}$ M. James survey 121, 10 miles west of Brownwood.		
Brown clay- - - - -	4	4
Sandy yellow clay - - - - -	5	9
Rock - - - - -		9
Struck water at 4 feet. Water level, 3.3 feet below top of ground 2 hours after hole completed. Dec. 2, 1937.		

<u>Well 78</u>		
Hillside, side of county road, NE $\frac{1}{4}$ NW $\frac{1}{4}$ J. Otter survey 120, 10 miles west of Brownwood.		
Dark-brown clay- - - - -	4	4
Sandy yellow clay - - - - -	2	6
Sandy pink clay- - - - -	10	16
Rock - - - - -		16
Struck water at 6 feet. Water level, 5.6 feet below top of ground 1 hour after hole completed. Dec. 14, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 80</u>		
Gentle slope, side of county road, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, E. T. & B. R. R. survey, 9 miles west of Brownwood.		
Sandy gray clay - - - - -	1	1
Sandy pale-green clay - - - -	2	3
White lime and sand - - - - -	6	9
Pale-green sand - - - - -	1	10
White sand- - - - -	1	11
Rock - - - - -		11
Feb. 10, 1938.		

<u>Well 81</u>		
Side of draw, side of county road, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, F. T. & B. R. R. survey, 8 $\frac{1}{2}$ miles west of Brownwood.		
Dark-brown clay - - - - -	3	3
Sandy white clay - - - - -	6	9
Lime and yellow sand - - - - -	10	19
Lime and white sand - - - - -	1	20
Rock - - - - -		20
Struck water at 3 feet. Water level, 2.8 feet below top of ground 3 hours after hole completed. Nov. 30, 1938.		

<u>Well 86</u>		
Creek bed, City of Brngs, NE $\frac{1}{4}$ SE $\frac{1}{4}$ S. Barge survey 108, 8 $\frac{1}{2}$ miles west of Brownwood.		
Brown sand- - - - -	2	2
Sandy gray clay - - - - -	1	3
Sandy yellow clay - - - - -	5	8
Rock - - - - -		8
Struck water at 4 feet. Water level, 3.7 feet below top of ground 2 hours after hole completed. Feb. 16, 1938.		

<u>Well 87</u>		
Slope, side of county road, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, F. T. & B. R. R. survey, 8 miles west of Brownwood.		
Yellow lime and clay - - - - -	3	3
Pale-green clay - - - - -	4	7
Red and yellow clay - - - - -	3	10
Yellow clay - - - - -	3	13
Rock - - - - -		13
Dec. 8, 1937.		

<u>Well 83</u>		
Slope, side of county road, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, E. T. R. R. survey, 7 $\frac{1}{2}$ miles west of Brownwood.		
Brown clay- - - - -	2	2
Light-colored brown clay - - - -	3	5
Yellow clay- - - - -	5	10

(Continued on next page)

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

	Thickness (feet)	Depth (feet)
<u>Well 88--Continued</u>		
Purple clay - - - -	2	12
Reddish-yellow clay - - -	3	15
Rock - - - -	-	15
Feb. 18, 1933.		

	Thickness (feet)	Depth (feet)
<u>Well 89</u>		
Hillside, side of county road, center T. Fratt survey 107, 9 miles west of Brownwood.		
Black clay - - - -	3	5
Brown clay - - - -	1	4
Yellow clay - - - -	2	6
Brownish-yellow clay with lime pebbles - - - -	4	10
Rock - - - -	-	10
Feb. 15, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 90</u>		
Flat, side of county road, SW $\frac{1}{4}$ -SW $\frac{1}{2}$ M. Goodman survey 119, 10 $\frac{1}{2}$ miles west of Brownwood.		
Brown clay- - - -	2	2
Brownish-red clay - - -	1	3
Sandy red clay- - - -	1	4
Reddish-yellow clay - - -	1	5
Yellow clay - - - -	4	9
Rock - - - -	-	9
Struck water at 6 feet. Water level, 5.7 feet below top of ground 1 hour after hole completed. Feb. 11, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 91</u>		
Gentle slope, side of county road, SE $\frac{1}{4}$ -SW $\frac{1}{4}$ M. James survey 121, 10 $\frac{1}{2}$ miles west of Brownwood.		
Black clay- - - -	1	1
Yellow lime and clay - - -	2	3
Sandy reddish-yellow clay -	2	5
Rock - - - -	-	5
Feb. 21, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 92</u>		
Side of county road, SW $\frac{1}{4}$ -SW $\frac{1}{2}$ J. Bird survey 122, 11 miles west of Brownwood.		
Brown clay- - - -	1	1
Yellow clay - - - -	13	14
Rock - - - -	-	14
Nov. 27, 1937.		

	Thickness (feet)	Depth (feet)
<u>Well 96</u>		
Gentle slope, side of county road, SW $\frac{1}{4}$ -NW $\frac{1}{4}$ J. Robinett survey, 8 miles southwest of Brownwood.		
Brown lime and clay - - -	1	1
Yellow lime and clay - - -	4	5

	Thickness (feet)	Depth (feet)
<u>Well 96--Continued</u>		
Greenish-gray clay and gypsum - - - -		
Yellow clay - - - -	3	9
Ochre-colored clay- - - -	1	10
Red and gray clay - - - -	6	16
Rock - - - -	-	16
Feb. 23, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 99</u>		
Side of draw, side of county road, SW $\frac{1}{4}$ -SE $\frac{1}{4}$ E. Votaw survey 229, 14 miles southwest of Brownwood.		
Black clay- - - -	1	1
White clay and chalk - - -	2	3
Yellow lime and clay - - -	4	7
Sandy reddish-yellow clay -	3	10
Rock - - - -	-	10
Struck water at 7 feet. Water level, 1.7 feet below top of ground 2 hours after hole completed. Feb. 7, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 101</u>		
Gentle slope, side of county road, center west side A. D. Neill survey 41, 15 $\frac{1}{2}$ miles southwest of Brownwood.		
Dark-brown clay - - - -	3	3
Light-brown lime and clay -	1	4
Yellow lime and clay - - -	2	6
White clay and chalk - - -	4	10
Rock - - - -	-	10
Feb. 7, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 102</u>		
Gentle slope, side of county road, SW $\frac{1}{4}$ -SW $\frac{1}{4}$ R. Overton survey, 16 $\frac{1}{2}$ miles southwest of Brownwood.		
Light-brown lime and clay -	2	2
Yellow clay - - - -	8	10
Rock - - - -	-	10
Feb. 7, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 103</u>		
Slope near draw, side of county road, SW $\frac{1}{4}$ -SE $\frac{1}{2}$ R. Overton survey, 16 $\frac{1}{2}$ miles southwest of Brownwood.		
Black clay- - - -	1	1
Brown clay- - - -	3	4
Sandy yellowish-brown clay-	1	5
Yellow clay - - - -	1	6
Rock - - - -	-	6
Feb. 7, 1938.		

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

	Thickness (feet)	Depth (feet)
<u>Well 104</u>		
Bottom of draw, side of county road, center C. Messer survey 127, 19 miles southwest of Brownwood.		
Brown lime and clay - - -	1	1
Light-brown clay - - -	1	2
Yellow clay - - - - -	10	12
Rock - - - - -	-	12
Struck water at 6 feet. Water level, 5.5 feet below top of ground 3 hours after hole completed. Feb. 8, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 119</u>		
Slope, side of county road, NE $\frac{1}{4}$ SW $\frac{1}{4}$ Wm. Wharton survey 318, 10 $\frac{1}{2}$ miles east of Brownwood.		
Brown lime and clay - - -	1	1
Yellow lime and clay - - -	2	3
Limestone gravel with white clay- - - - -	2	5
Yellow clay - - - - -	6	11
Rock - - - - -	-	11
Feb. 1, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 120</u>		
Flat, side of county road, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Wm. Wharton survey 318, 11 miles east of Brownwood.		
Black clay- - - - -	2	2
Sandy yellow silt - - -	6	8
Yellow lime and clay - - -	1	9
Rock - - - - -	-	9
Feb. 1, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 122</u>		
Side of draw, side of county road, center H. Rosin survey 317, 11 miles east of Brownwood.		

	Thickness (feet)	Depth (feet)
<u>Well 122--Continued</u>		
Sandy brown top soil - - -	1	1
Sandy light-brown clay - - -	1	2
Yellow lime and clay - - -	5	7
Rock - - - - -	-	7
Feb. 1, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 124</u>		
Slope, side of county road, SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 60, H. T. & B. R. R. survey, 11 $\frac{1}{2}$ miles east of Brownwood.		
Brown lime and clay - - -	1	1
Light-brown clay - - - - -	8	9
Rock - - - - -	-	9
Feb. 1, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 129</u>		
Hillside, side of county road, NW $\frac{1}{4}$ NE $\frac{1}{4}$ S. P. Williams survey 313, 13 miles east of Brownwood.		
Brown lime and clay- - - -	2	2
White clay - - - - -	2	4
Yellow clay - - - - -	4	8
Rock - - - - -	-	8
Feb. 3, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 130</u>		
Slope, side of county road, NE $\frac{1}{4}$ NE $\frac{1}{4}$ P. A. Ackerman survey 314, 14 $\frac{1}{2}$ miles east of Brownwood.		
Yellow sand - - - - -	2	2
Sandy brown clay- - - - -	2	4
Sandy light-brown clay - - -	2	6
White lime and clay - - -	3	9
Sandy yellow clay- - - - -	1	10
Rock - - - - -	-	10
Feb. 3, 1938.		

Samples collected from streams in Brown County, Texas

No.	Name of stream	Distance from Brownwood	Location	Estimated flow in second-feet	Depth of stream (feet)
201	Jim Ned Creek	15½ miles northwest	SE¼SE¼, J. C. Wofford sur. 501	0.1	--
202	Colorado River	20 miles southwest	S end, E. Grumbles sur. 123	--	--
203	Clear Creek	13½ miles southwest	S½, I. Flores sur. 203	0.1	--
204	Adams Branch	2½ miles west	SW¼SE¼, P. Mangle sur. 604	0.1	--
205	Pecan Bayou	8 miles southeast	W end, O. Robinson sur. 9	No visible flow	--
206	Blanket Creek	13 miles east	SW¼SE¼, Ewing Wilson sur.	0.2	--
207	do.	12 miles east	SW¼SW¼ sec. 63, S. P. R. R. sur.	0.1	--

a/ Nitrate less than 20 parts per million.

Representative earthen tanks in Brown County, Texas

No.	Distance from Brownwood	Section	Survey	Owner	Topographic situation of tank	Estimated catchment area in acres	Topographic situation of catchment area
301	15½ miles north	SW¼SW¼	S. R. Windham sur. 9	--	In draw	1,280	Hilly
302	8 miles north	SW¼SW¼	Garcia, Montes & Durar Sur. 113	Brown County Water Board	Creek bottoms	--	Rolling
303	17 miles southwest	cen. NW¼	B. Sims sur. 158	--	do.	320	Slope
304	12 miles south	cen. N side	J. P. Davis sur. 176	-- Warnock	In draw	640	Rolling

c/ S, stock; P, public.

Dan A. Davis, Project Superintendent
 Partial chemical analyses

No.	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Total hardness as CaCO ₃ (calculated)	Nitrate (NO ₃)
201	Jan. 11, 1938	296	57	5	21	171	36	25	163	a/
202	Dec. 31, 1937	566	78	26	94	232	96	144	501	a/
203	Feb. 7, 1938	207	--	--	--	169	20	15	--	a/
204	Feb. 26, 1938	712	--	--	--	207	38	310	--	a/
205	Feb. 11, 1938	634	--	--	--	163	29	315	--	a/
206	Mar. 2, 1938	b/	--	--	--	--	--	--	--	--
207	Mar. 3, 1938	421	--	--	--	226	80	60	--	22

b/ Water sample bottle broken.

Dan A. Davis, Project Superintendent

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

No.	Dam			Use c/	Remarks
	Length (feet)	Height (feet)	Material		
301	150	8	Shale	S	Limestone and yellow shale bottom and sides. Water turbid. Vegetation: mesquite, oak, live oak, grass.
302	1,600	80	Rock and shale	P	Limestone and shale bottom and sides. Water clear. Spillway at north end. Vegetation: mesquite, oak, live oak.
303	100	8	Shale	S	Yellow shale bottom and sides. Water reported turbid. Vegetation: mesquite and live oak.
304	400	15	do.	S	Sandy yellow shale bottom and sides. Rip-rap spillway at west end. Reported never goes dry. Water turbid. Vegetation: mesquite and live oak.

Partial analyses of water from wells in Brown 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. Stulken, D. F. Riddell, H. T. Davidson, Floyd H. Ward, and F. G. Steer, Chemists; and J. A.

Harmaza, Martin Wieland, and Jack Ramsey, Assistant Chemists. Nitrate determined by E. W. Lohr, U. S.

Geological Survey. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calculated)
1	Ansel Martin Est.	98	Nov. 29, 1937	2,877	-	-	-	268	228	1,490	a/	-
2	-- Anderson	23	do.	694	92	22	152	598	32	72	30	319
3	-- Oil Company	16	Feb. 18, 1938	969	156	30	150	372	243	190	a/	514
5	C. W. Jones	140	Jan. 8, 1938	2,530	198	26	629	299	565	590	375	601
6	-- Jones	80	do.	933	9	5	372	708	78	152	a/	43
7	N. A. Drinkard	84	Mar. 3, 1938	1,021	56	18	317	421	98	325	a/	216
8	D. D. Milner	28	Dec. 1, 1937	1,175	167	109	121	592	114	370	a/	862
9	J. T. Newton	27	do.	906	147	11	180	453	61	245	49	412
10	J. A. Furage Est.	29	Dec. 2, 1937	1,328	214	79	182	397	129	530	59	859
11	M. J. Lee Est.	115	Dec. 3, 1937	823	118	53	94	262	89	270	65	536
12	C. G. Schultz	97	Dec. 2, 1937	513	107	45	17	323	32	114	39	453
13	Mrs. E. L. Holaman	157	--	415	80	32	35	317	32	30	a/	330
14	A. P. Spence	32	Mar. 3, 1938	1,471	-	-	-	590	145	600	a/	-
15	Wessie Hardy	107	do.	404	80	30	37	390	21	44	a/	324
16	Mrs. -- Suidus	65	Feb. 3, 1938	702	-	-	-	470	37	166	a/	-
17	C. E. Weathersby	100	Dec. 10, 1937	425	84	43	19	542	25	36	a/	386
21	--	18	Jan. 8, 1938	763	136	15	133	433	74	164	28	399
26	George Newell	52	Feb. 3, 1938	850	234	51	6	476	55	240	30	797
27	Clio School	18	do.	1,718	104	243	197	933	230	485	a/	1,260
28	--	18	do.	2,153	-	-	-	354	431	800	a/	-
31	Mrs. G. W. Maulkner	67	Feb. 2, 1938	551	101	55	24	427	105	44	a/	479
36	E. R. Bush	114	do.	846	129	5	76	542	46	62	300	493
38	John Reeves	164	--	319	94	7	15	268	34	21	a/	264
39	Dr. R. Cobb	98	Feb. 3, 1938	799	-	-	-	220	213	170	39	-
40	W. Heppinstall	126	Feb. 2, 1938	67	110	19	37	392	143	27	a/	352
41	-- Arden	200	Feb. 2, 1938	577	98	67	21	427	105	76	a/	521
42	A. J. McLaughlin	80	do.	-	-	-	-	-	34	54	200	-
44	Clara and Edith Stewart	38	do.	562	-	-	-	464	16	102	a/	-
45	Mrs. -- Townsend	184	do.	520	76	50	52	421	71	64	a/	396

a/ Nitrate less than 20 parts per million.

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

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calculated)
46	L. W. Reagan	147	Feb. 2, 1928	407	69	48	20	421	59	4	a/	369
47	J. W. Richmond	98	do.	888	-	-	-	451	117	225	a/	-
49	Cliver Steel	39	do.	2,078	270	173	243	628	197	820	61	1,387
50	Mrs. Hugh Davis	50	do.	3,155	366	279	340	293	456	1,520	50	2,162
51	M. E. Malone	125	Dec. 1, 1937	1,051	44	-	354	262	151	340	30	110
52	Bob Parker	49	Feb. 6, 1938	2,571	215	122	554	434	501	950	a/	1,041
53	A. C. Snyder	2,402	--	13,178	196	49	4,905	384	14	7,420	a/	690
60	A. G. Norton	22	Dec. 7, 1937	315	-	-	-	409	96	220	a/	-
61	--	19	do.	316	46	16	58	329	23	11	a/	180
62	F. P. Seward	20	Nov. 27, 1937	290	-	-	-	299	14	12	a/	-
63	Mrs. A. N. King	50	--	1,878	-	-	-	521	345	610	a/	-
64	Brownwood Water Board	32	Dec. 10, 1937	907	-	-	-	415	250	136	a/	-
65	-- Brady Est.	8	Jan. 11, 1938	444	-	-	-	378	46	33	a/	-
66	Isaac Hubank Est.	159	Nov. 29, 1937	-	-	-	-	-	343	170	-	-
67	Bob Fry Est.	25	Nov. 30, 1937	2,375	174	74	529	153	343	340	240	741
68	W. M. Riley	80	--	900	-	-	-	366	170	225	a/	-
69	W. F. Talley	94	Dec. 10, 1937	1,413	244	81	130	194	532	126	a/	910
71	Coker White	96	Dec. 7, 1937	753	17	12	256	403	160	110	a/	93
73	Mrs. J. L. Riordan	169	Nov. 27, 1937	712	62	22	167	390	43	100	126	744
74	do.	31	Nov. 25, 1937	2,927	538	107	258	464	1,560	230	a/	1,736
75	D. Strange	51	Feb. 26, 1938	529	-	-	-	415	42	66	a/	-
77	W. P. A. test	9	Dec. 2, 1937	2,086	-	-	-	634	502	420	150	-
78	do.	16	Dec. 14, 1937	1,314	58	18	452	653	188	290	a/	171
79	A. Brewer	340	Dec. 7, 1937	1,666	35	19	584	365	214	470	a/	167
81	W. P. A. test	20	Nov. 30, 1937	2,040	-	-	-	299	649	560	a/	-
82	John Stevens	250	Dec. 8, 1937	1,060	15	4	401	561	129	235	a/	52
83	City of Bangs	24	Nov. 25, 1937	587	143	13	56	409	50	78	46	413
84	do.	18	do.	1,327	205	55	236	586	236	315	a/	667
85	Mrs. J. L. Riordan	44	Nov. 27, 1937	2,580	304	266	212	458	257	1,010	306	1,854
86	W. P. A. test	8	Feb. 16, 1938	553	106	26	14	366	63	114	a/	496
90	do.	9	Feb. 11, 1938	14,464	582	182	4,515	348	2,532	6,430	52	2,202
93	Frank Brooks	62	Mar. 1, 1938	2,205	78	42	675	427	535	630	a/	366
94	Tom Yantis	14	Feb. 7, 1938	745	121	12	120	281	132	112	110	353
95	Carl Greer	160	do.	3,398	21	12	1,315	573	8	1,760	a/	103

a/ Nitrate less than 20 parts per million.

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

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	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)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calculated)
97	J. M. Fields	140	Feb. 7, 1938	488	7	17	168	372	30	74	a/	85
99	W. P. A. test	10	do.	2,672	278	57	597	324	350	1,000	228	830
100	--	27	do.	333	-	-	-	266	18	24	a/	-
104	W. P. A. test	12	Feb. 8, 1938	403	66	16	70	354	42	35	a/	230
105	Dulin School	18	Nov. 30, 1937	782	132	22	104	275	257	76	56	419
106	-- Warnock	34	Feb. 10, 1938	2,481	275	144	178	122	327	560	817	1,529
107	-- Fields	75	Jan. 15, 1938	1,851	-	-	-	409	233	700	a/	-
108	T. K. Ward	105	Nov. 30, 1937	2,705	24	10	927	293	419	1,100	a/	101
109	T. C. Brown	20	do.	672	90	104	-	299	26	205	96	652
110	J. P. Cross, Sr.	60	--	1,359	85	39	328	421	263	198	249	374
112	M. L. Smith	75	Feb. 11, 1938	450	-	-	-	363	19	67	20	-
113	-- Kobbol	129	Jan. 7, 1938	218	29	25	22	226	13	13	a/	176
114	Ed Counts	56	Feb. 21, 1938	545	82	82	3	512	36	53	a/	550
115	Mrs. -- Hagans	147	Feb. 24, 1938	1,729	129	122	99	462	566	350	a/	849
116	State of Texas	25	--	1,252	55	110	247	732	293	116	71	598
117	--	79	Feb. 8, 1938	457	-	-	-	427	25	16	a/	-
121	G. G. Douglas	106	do.	1,068	81	70	218	476	320	170	a/	488
123	--	65	--	324	74	44	9	343	54	32	a/	367
125	J. A. and N. T. Kesler	108	Mar. 2, 1938	656	64	81	63	372	153	124	a/	420
126	-- Howton Est.	141	do.	521	20	66	27	445	83	56	a/	471
127	Preston Tucker	120	Feb. 16, 1938	991	62	59	216	439	260	150	22	396
128	Edgar McKenzie	116	Feb. 8, 1938	551	66	51	67	415	99	46	a/	377
132	J. W. Keating	133	Feb. 4, 1938	195	42	21	3	201	18	12	a/	193

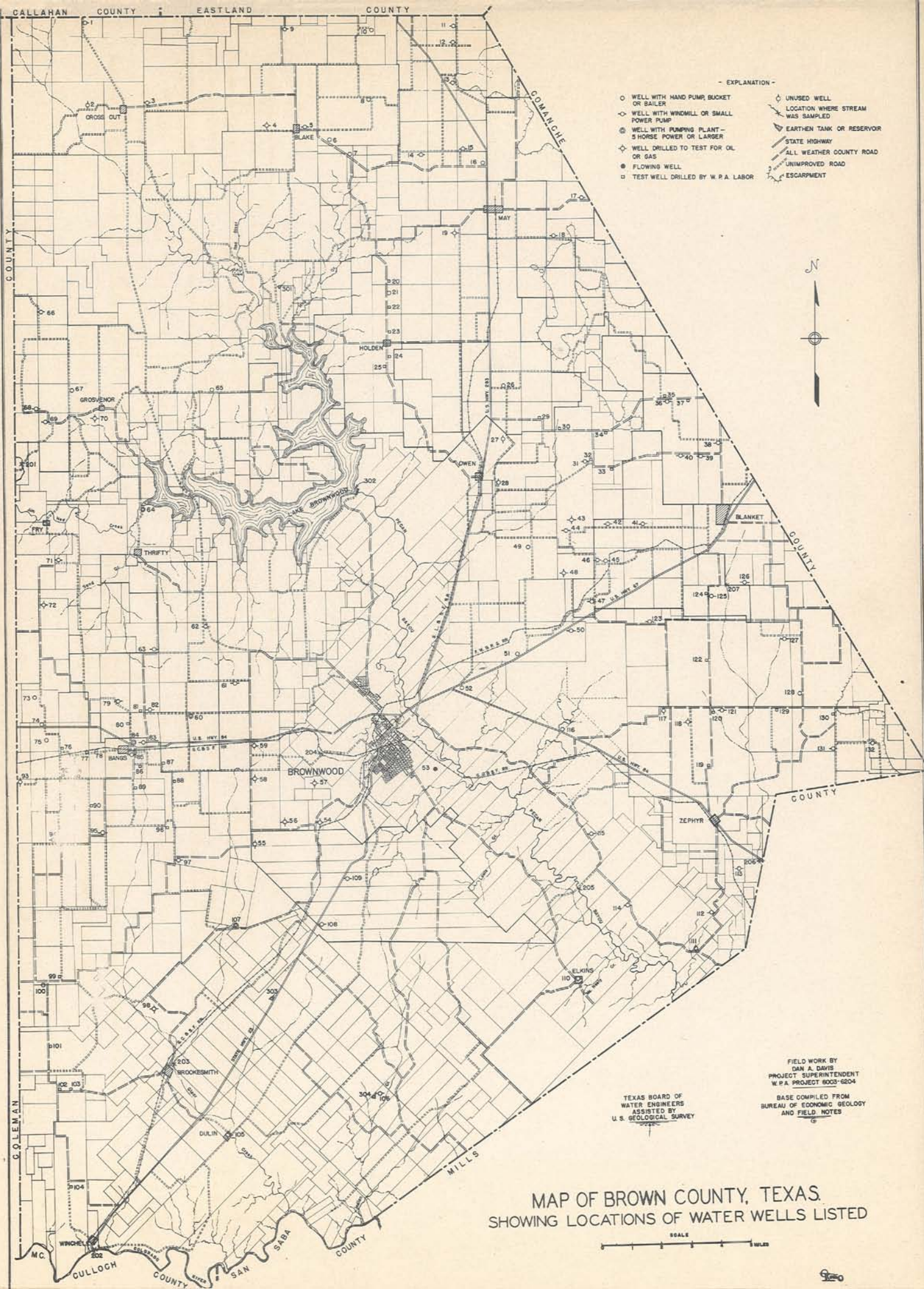
a/ Nitrate less than 20 parts per million.

Partial analyses of water from earthen tanks in Brown County, Texas

Results are in parts per million.

Tank No.	Owner	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calculated)
301	--	Feb. 25, 1938	132	2	7	42	122	12	9	a/	34
302	Brown County Water Board	Feb. 23, 1938	204	44	10	20	153	25	30	a/	151
303	--	Feb. 10, 1938	188	27	5	35	98	50	23	a/	88
304	-- Warnock	do.	121	28	6	11	116	11	8	a/	94

a/ Nitrate less than 20 parts per million.



- 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
- ◇ LOCATION WHERE STREAM WAS SAMPLED
- ▽ EARTHEN TANK OR RESERVOIR
- STATE HIGHWAY
- ALL WEATHER COUNTY ROAD
- UNIMPROVED ROAD
- ESCARPMENT



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

FIELD WORK BY DAN A. DAVIS PROJECT SUPERINTENDENT W. P. A. PROJECT 6003-6204

BASE COMPILED FROM BUREAU OF ECONOMIC GEOLOGY AND FIELD NOTES

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

