

Please do not destroy or throw away this publication.
If you have no further use for it, write to the State
Board of Water Engineers, Austin, requesting return
postage.

* * *

TEXAS

* * *

STATE BOARD OF WATER ENGINEERS
C. S. Clark, Chairman ✓
A. H. Dunlap, Member
J. W. Pritchett, Member

* * *

WALLER COUNTY, TEXAS

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

* * *

by

Samuel F. Turner and Penn Livingston

Mimeographed by
WORKS PROGRESS ADMINISTRATION
PROJECT 10443

* * *

Prepared in cooperation with the United States
Department of the Interior, Geological Survey.

* * *

Austin, Texas
April 10, 1939

WALLER COUNTY, TEXAS

* * *

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

This pamphlet contains records of wells in Waller County, Texas, with tables of well logs, well water analyses, and a map which shows all the wells described, each well having a number on the map corresponding to the number assigned to it in the well tables.

The records were obtained in the course of an investigation which was undertaken as part of a statewide study of the underground water resources of Texas. The investigation was made by the State Board of Water Engineers, in cooperation with the U. S. Department of the Interior, Geological Survey. The field work was carried out by Samuel F. Turner and Penn Livingston of the Geological Survey. The analyses were made in the laboratory of the Geological Survey at Washington by Margaret D. Foster. The field tests were made in Houston by Samuel F. Turner.

The well records serve as a guide to land owners and well drillers who may need information regarding wells and pumping plants, the depth to ground water in different parts of the county and the quantity and quality of water yielded by wells. They afford a basis for the more intensive investigation which is now being carried on.

These records were typed, assembled, and mimeographed by employees of Works Progress Administration Project 10443, which is sponsored by the Texas Board of Water Engineers in cooperation with the Geological Survey.

Records of wells in Waller County, Texas

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

(Principal water-bearing beds are sand or gravel.)

No.	Distance from Howth	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
1	2 $\frac{1}{4}$ miles west northwest	E. F. O'Connor	E. F. O'Connor	--	23	48	20	3
2	2 miles west northwest	T. D. Woods	W. E. Rinn	--	135	3	--	--
3	do.	do.	H. H. Strickland	--	62	4	--	--
4	1 $\frac{3}{4}$ miles west northwest	E. F. O'Connor	W. E. Rinn	1932	80	4	72	8
5	At Howth	H. Kloecker	--	Old	40	48	--	--
6	$\frac{1}{2}$ mile south	C. E. T. Hicks	W. E. Bush	1932	45	10	--	--
d/ 7	$\frac{1}{4}$ mile east	A. H. Deweese	A. H. Deweese	1931	55	30	49	6
8	2 miles east	Negro church	--	--	30	8	--	--
e/ 10	3 $\frac{1}{4}$ miles north	Weaver Well 1 A. Weaver	Waller Oil Co.	1917	1,363	8 $\frac{1}{2}$	--	--
11	3 $\frac{1}{4}$ miles north northeast	A. Kloecker	--	1900?	40	8	--	--
12	3 miles north northeast	do.	--	--	60	6	--	--
13	2 $\frac{1}{4}$ miles north northeast	-- Sourley	H. H. Strickland	--	50	6	--	--
d/ 14	2 miles north northeast	E. M. Taylor	W. E. Bush	--	57	8	--	--
15	do.	George Bennett	--	--	50	5	--	--
16	2 $\frac{1}{2}$ miles north northeast	-- Sourley	--	--	47	6	--	--
17	2 miles north northeast	H. C. Stephens	--	--	60	36	57	3
18	do.	Charley Marshall	--	--	30	6	--	--
19	2 $\frac{1}{2}$ miles northeast	Vivian Harris	Vivian Harris	--	50	30	--	--
20	6 miles northeast	--	--	--	60	30	--	--

No.	Distance from Joseph (Bradbury's Gin)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
51	5 $\frac{1}{2}$ miles northwest	W. W. Cook	W. E. Cook	--	60	8	--	--

a/ Bench mark is point from which water-level measurement was made and was usually top of casing, top of pump base or top of water pipe clamp.

b/ T turbine; A, air; C, centrifugal; J, jack; B, rope and bucket; E, electric; G, gasoline engine (includes tractors); F, fuel oil engines; W, windmill; H, hand.

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

Records obtained by Penn Livingston and Samuel F. Turner
(See "Table of field tests" for tests of hardness, chloride and sulphate.)

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power <u>b/</u>	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
1	--	--	--	B,H	D,S	Dug well.
2	--	--	--	J,W	D,S, Ind	
3	--	--	--	J,H	D,S	
4	--	--	--	J,H	D,S	
5	--	--	--	J,G, $1\frac{1}{2}$	D,S	Reported salt water in abandoned 35-foot well 100 yards north.
6	--	--	--	--	--	Well just finished, casing and pump not installed.
7	--	--	--	J,H	D,S	Dug well lined with tile.
8	--	--	--	B,H	D,S	
10	--	--	--	None	N	Oil test. See partial log.
11	$\frac{1}{2}$	24.0	Apr. 14, 1931	B,H	S	Reported all wells close as having bad water.
12	--	--	--	B,H	D,S	
13	--	--	--	B,H	D,S	Temperature 70° F.
14	--	--	--	B,H	D,S	Do.
15	--	--	--	J,H	D,S	
16	--	--	--	B,H	D,S	
17	--	--	--	B,H	D,S	Dug well.
18	--	--	--	B,H	D,S	
19	--	--	--	B,H	D,S	Dug well lined with tile.
20	--	--	--	B,H	D,S	Do.

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power <u>b/</u>	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
51	--	--	--	B,H	D,S	Water is reported as hard in rainy season and soft in dry season.

d/ For analysis of water see under well number in table of analyses.

e/ No field tests made on water from this well.

f/ Taylor, T. U., Underground waters of Coastal Plain of Texas; U. S. Geological Survey Water-Supply Paper 190, 1907.

g/ Reported by driller.

Records of wells in Waller County--Continued

No.	Distance from Joseph (Bradbury's Gin)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
52	4½ miles northwest	A. Karsteter	--	1916	50	8	--	--
53	4¾ miles west northwest	-- Dawson	-- Imhoff	--	110	8	--	--
54	4¾ miles west	R. A. Hooker	--	--	60	4	--	--
e/ 55	4 miles west	T. F. Maxwell well 2	Ren Oil Co.	1926	1,200	--	--	--
56	1½ miles west northwest	School (Fields)	--	--	40	4	--	--
57	1 mile west	R. H. Jones	--	--	36	12	--	--
58	At Joseph	W. A. Bradbury	Andrew Bradbury	--	90	4	--	--
d/ 59	do.	do.	--	1915	20	12	--	--
60	7 miles northeast	Cordell's Mill	Andrew Bradbury	1915	150	6	--	--
61	do.	John Rodgeson	John Rodgeson	--	67	6	--	--
62	3¾ miles east northeast	F. F. Sneigi	F. F. Sneigi	1932	51	2	--	--
63	2¼ miles east	T. B. Stenhenson	--	--	52	6	--	--
64	4 miles east	T. S. Dinkins	--	Old	42	36	--	--
d/ 65	4½ miles east	J. E. Turpin	J. H. Turpin	--	50	8	--	--
66	4 miles southeast	Lisle McPherson	Andrew Bradbury	1923	86	4	--	--
67	4¼ miles southeast	J. H. Turpin	J. H. Turpin	1924	21	8	--	--

No.	Distance from Hempstead	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
101	4 miles northwest	Giddings Est.	--	Old	125	6	--	--
102	1¾ miles northwest	G. W. Heard	--	Old	62	36	--	--
e/103	3 miles north	Roy Chapman Well 1	W. P. Morris	--	2,640	--	--	--
104	2½ miles north	-- Beard	--	--	40+	6	--	--
105	4½ miles east northeast	H. M. Cooke	--	Old	60	12	--	--

a/ Bench mark is point from which water-level measurement was made and was usually top of casing, top of pump base or top of water pipe clamp.

b/ T, turbine; A, air; C, centrifugal; J, jack; B, rope and bucket; E, electric; G, gasoline engine (includes tractors); F, fuel oil engines; W, windmill; H, hand.

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

Penn Livingston and Samuel F. Turner

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power <u>b/</u>	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
52	--	--	--	B,H	D,S	
53	--	--	--	J,H	D,S	
54	--	--	--	J,G, 3	D,S	
55	--	--	--	--	--	Oil test. See partial log.
56	--	--	--	J,H	D	
57	--	--	--	B,H	D,S	
58	--	--	--	J,G, 3	D,S, Ind	Water used for boilers at gin.
59	--	--	--	B,H	D,S	
60	--	--	--	J,H	D,S	At Fetzer.
61	--	--	--	J,H	D,S	Do.
62	--	48	Aug. 10, 1932	None	--	New well, pump not yet installed.
63	--	--	--	B,H	D,S	
64	--	--	--	J,H	D,S	Dug well.
65	--	--	--	B,H	D,S	
66	--	--	--	J,W	D,S	
67	--	--	--	B,H	D,S	

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power <u>b/</u>	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
101	--	--	--	J,W	D,S	
102	--	--	--	B,H	D,S	Very old dug well, lined with brick.
103	--	--	--	--	--	Oil test. See partial log.
104	--	--	--	J,W	S	
105	--	--	--	B,H	D,S	

d/ For analysis of water see under well number in table of analyses.

e/ No field tests made on water from this well.

f/ Taylor, T. U., Underground waters of Coastal Plain of Texas; U. S. Geological Survey Water-Supply Paper 190, 1907.

g/ Reported by driller.

PUBLIC WATER SUPPLIES

COUNTY: Waller

CITY: Brookshire

POPULATION: _____

SOURCE OF INFORMATION: _____

OWNERSHIP: _____

SOURCE OF SUPPLY: _____

PUMPAGE: MINIMUM: _____

MAXIMUM: _____

AVERAGE: _____

STORAGE: SURFACE RESERVOIR: _____

ELEVATED TANK: _____

TREATMENT: _____

SAMPLED, DATE _____ TEMPERATURE: _____

NUMBER OF CUSTOMERS: DOMESTIC: _____

INDUSTRIAL: _____

REMARKS: _____

DATA COLLECTED BY: _____ DATE: _____

Records of wells in Waller County--Continued

No.	Distance from Hempstead	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
106	At Hempstead	E. T. Hitt	H. H. Strickland	--	95	6	--	--
d/107	do.	B. R. Rehms	do.	--	85	4	--	--
d/108	do.	Texas-Louisiana Power Co.	Layne-Texas Co.	1930	868	--	212 481	60 33
e/109	do.	do.	G. Warkiecke	1897	1,100+	8	683	36
110	$\frac{1}{2}$ mile south southwest	J. S. Weatherford	-- Phillips	1910?	50	8	--	--
111	$\frac{1}{2}$ mile south southeast	Hempstead Cemetery	H. H. Strickland	1928	168	6	--	--
112	1 $\frac{1}{2}$ miles east southeast	Southern Pacific Ry.	Andrew Bradbury	1914	180	10	--	--
e/113	2 $\frac{1}{2}$ miles east southeast	--	--	Old	55	6	50	5
114	do.	-- MacDonald	D. D. Feagin	--	85	4	--	--
d/115	3 miles east southeast	D. D. Feagin	do.	1899	38	12	--	--
e/116	do.	do.	--	1931	30	3	29	1
e/117	4 $\frac{1}{2}$ miles east southeast	Mrs. H. L. Milam	--	1931	20	3	--	--
118	4 $\frac{1}{4}$ miles east southeast	do.	H. H. Strickland	1926	60	4	--	--
d/119	5 miles east	Prairie View State College	Layne-Texas Co.	1930	576	12 $\frac{1}{2}$	--	--
d/120	do.	do.	do.	1920	571	6	483	50
e/121	do.	do.	--	Old	600+	--	--	--
122	3 $\frac{1}{2}$ miles south southwest	J. J. Perry	--	--	50	30	--	--
123	3 miles south	--	--	--	40	30	--	--
124	3 $\frac{1}{4}$ miles south	Mrs. Bob Robinson	--	Old	70	4	--	--
125	5 miles south	Judge Hardy	--	--	--	--	--	--
126	do.	do.	--	--	50	10	--	--
127	6 miles south	do.	H. H. Strickland	--	65	4	--	--

a/ Bench mark is point from which water-level measurement was made and was usually top of casing, top of pump base or top of water pipe clamp.

b/ T, turbine; A, air; C, centrifugal; J, jack; B, rope and bucket; E, electric; G, gasoline engine (includes tractors); F, fuel oil engines; W, windmill; H, hand.

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

Penn Livingston and Samuel F. Turner

No.	Height of bench mark above (+) ground (ft.) a/	Water level		Pump and kind and amount of power b/	Use of water c/	Remarks
		Below bench mark (ft.)	Date of measurement			
106	--	--	--	J, E, $\frac{1}{2}$	Ind	
107	1	54.6	Apr. 14, 1931	J, E, $\frac{1}{2}$	D, S	
108	--	--	--	T, E, 15	P	Each water-bearing stratum tested, see table of analyses.
109	$\frac{1}{2}$	5.6	Apr. 14, 1931	A, F, --	P	Had a flow of 100 gallons a minute prior to 1907. g/
110	--	--	--	J, W	D, S	
111	--	--	--	J, H	D	
112	1	2.5	Nov. 7, 1931	J, H	D, RR	
113	--	--	--	J, H	D, S	First water stratum at 25 feet not used.
114	--	--	--	J, H	D, S	Very weak supply of water.
115	1	24.8	May 13, 1931	J, W	D, S	
116	0	29.0	Nov. 7, 1931	None	N	Test well drilled by Geological Survey.
117	$\frac{1}{2}$	4.4	May 28, 1931	None	N	Do.
118	1	43.5	Apr. 13, 1931	J, W	D, S	At Prairie View.
119	--	--	--	T, E, 25	P	
120	--	--	--	A, -	P	Casing; 571 feet of 6-inch casing. Screens set at 519 to 529 and 550 to 571
121	--	--	--	A, -	P	feet.
122	1	46.0	Aug. 3, 1932	J, W	D, S	Dug well.
123	--	--	--	B, H	D, S	Do.
124	--	--	--	J, W	D, S	
125	--	--	--	J, E	D, S	Flow of 15 gallons a minute prior to 1907. Reported, f/ stopped flowing 3
126	--	--	--	B, H	D, S	years ago.
127	--	--	--	J, W	D, S	

d/ For analysis of water see under well number in table of analyses.

e/ No field tests made on water from this well.

f/ Taylor, T. U., Underground waters of Coastal Plain of Texas; U. S. Geological Survey Water-Supply Paper 190, 1907.

g/ Reported by driller.

Records of wells in Waller County--Continued

No.	Distance from Waller	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
e/151	3 $\frac{1}{4}$ miles west	-- Stokes	--	Old	68	8	--	--
e/152	3 miles west	--	--	1931	20	3	10	10
e/153	1 mile west	G. O. Vaught	--	--	65	4	--	--
154	do.	W. D. Weaver	W. D. Weaver	Old	58	5	51	7
155	4 $\frac{1}{8}$ miles west southwest	L. L. Monke	A. Bradbury	1910	105	4	98	7
156	4 miles west southwest	do.	B. D. Weaver	1928	143	6	140	8
157	2 $\frac{3}{4}$ miles southwest	--	--	--	80	4	--	--
158	1 mile south	W. H. Carter Well 1	Dom. Oil Co.	--	3,527	--	--	--
d/159	3 $\frac{1}{8}$ miles south	R. S. Montgomery	Harry Bennett	--	28	6	--	--
160	4 $\frac{1}{4}$ miles south southwest	W. M. Brumby	B. D. Weaver	--	81	6	--	--
e/161	5 $\frac{1}{2}$ miles south	Jack Means	Elmer Gray	Old	50	12	--	--
d/162	6 miles south	Clyde Fuller	do.	1924	65	8	--	--
163	6 miles south southwest	F. H. Wawarofsky	do.	1919	54	9	27	27
164	6 $\frac{1}{2}$ miles south southwest	W. M. Pohl	Jim White	1926	60	4	--	--
165	6 $\frac{1}{4}$ miles south southwest	W. O. Wawarofsky	do.	--	55	14	--	--
166	6 $\frac{1}{2}$ miles southwest	Frank Wawarofsky	Andrew Bradbury	1920	104	4	--	--
167	7 miles southwest	E. C. Boethe	B. D. Weaver	--	63	4	--	--
168	7 $\frac{1}{2}$ miles southwest	H. Boethe Est.	do.	--	54	4	--	--
e/169	8 miles southwest	H. Lass	--	--	1,018	--	--	--
170	7 miles southwest	Lizzie Davis	--	--	60	6	--	--
171	do.	M. A. Dodd	H. H. Strickland	1916	62	4	--	--
172	7 $\frac{1}{4}$ miles southwest	do.	B. D. Weaver	1928	60	4	--	--
173	8 miles southwest	do.	--	Old	50	4	--	--
e/174	9 miles southwest	John R. Young Well 1	--	--	--	--	--	--

a/ Bench mark is point from which water-level measurement was made and was usually top of casing, top of pump base or top of water pipe clamp.

b/ T, turbine; A, air; C, centrifugal; J, jack; B, rope and bucket; E, electric; G, gasoline engine (includes tractors); F, fuel oil engines; W, windmill; H, hand.

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

Penn Livingston and Samuel F. Turner

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power <u>b/</u>	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
151	$\frac{1}{8}$	43.3	May 28, 1931	B, H	D, S	
152	$\frac{1}{8}$	3.5	do.	None	N	Test well drilled by Geological Survey.
153	--	--	--	J, W	D, S	
154	1	13.2	May 28, 1931	J, W	D, S	Well originally 45 feet deep but was deepened for better water.
155	--	--	--	J, W	S	Screen, 4-inch Stancliff, $4\frac{1}{2}$ feet long at bottom.
156	--	--	--	J, W	D, S, I	Screen, 4-inch Stancliff, 4 feet long at bottom.
157	--	--	--	J, W	D, S	
158	--	--	--	--	--	Oil test. See partial log.
159	--	--	--	J, W	D, S	
160	--	--	--	J, W	D, S	Two similar wells.
161	--	--	--	None	N	Well caved in and now being repaired.
162	1	50	July 28, 1932	B, H	D, S	
163	--	--	--	J, W	D, S	Water in gravel.
164	--	--	--	J, H	D, S	
165	--	--	--	J, W	D, S	Tile casing. Water in gravel.
166	--	--	--	J, W	D, S	
167	--	--	--	J, W	D, S	
168	--	--	--	J, W	D, S	
169	--	--	--	--	--	Oil test, see log.
170	--	--	--	J, W	D, S	
171	--	--	--	J, W	D, S	Formerly had a dug well 35 feet deep.
172	--	--	--	J, W	D, S	
173	--	--	--	J, W	D, S	
174	--	--	--	--	--	Oil test. See partial log.

d/ For analysis of water see under well number in table of analyses.

e/ No field tests made on water from this well.

f/ Taylor, T. U., Underground waters of Coastal Plain of Texas; U. S. Geological Survey Water-Supply Paper 190, 1907.

g/ Reported by driller.

Records of wells in Waller County--Continued

No.	Distance from Waller	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
175	9½ miles southwest	F. S. Styers	--	1905	32	4	--	--
176	10½ miles southwest	F. A. Holik	-- Bennett	1899	57	12	--	--
177	13 miles southwest	Fritz Frey	--	--	48	30	--	--
178	12 miles southwest	M. W. Kerr	A. Bradbury	1924	45	6	--	--
179	11½ miles southwest	H. Lass	Harry Bennett	1926	738	6	690	42
180	9 miles south southwest	John Bonner	-- Bennett	1876	60	24	--	--
181	8 miles south southwest	-- Frey	--	--	70	4	--	--
182	8½ miles south southwest	G. A. Menke	--	--	68	4	--	--
183	10 miles south southwest	J. B. Adams	W. M. Wenzel	--	37	10	--	--
184	do.	A. Miller	-- Bennett	--	74	4	70	4

No.	Distance from Katy	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
e/201	16 miles west northwest	J. R. Garrett	Garrett Well 1	1927	840	--	--	--
202	12 miles west northwest	Mrs. J. B. Adams	--	--	1	--	--	--
203	do.	do.	W. M. Wenzel	--	20	6	--	--
204	do.	Will Clemons	--	Old	35	8	--	--
205	11½ miles west northwest	Mrs. G. T. Patterson	--	--	30	1½	--	--
206	11½ miles west northwest	G. L. Buller, Sr.	--	--	20	6	--	--
207	12 miles west	Texas Construction Materials Co.	Thos. Haskit	1931	54	6	49	5
208	7½ miles west	Geo Harrison	do.	1930	82	6	58	24
e/209	do.	do.	-- Schulty	1901	66	5	--	--
221	7½ miles north northwest	Harry Hebert	Harry Hebert	1930	524	16	80 286 358 383 478	70 40 15 22 43

a/ Bench mark is point from which water-level measurement was made and was usually top of casing, top of pump base or top of water pipe clamp.

b/ T, turbine; A, air; C, centrifugal; J, jack; B, rope and bucket; E, electric; G, gasoline engine (includes tractors); F, fuel oil engines; W, windmill; H, hand.

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

Penn Livingston and Samuel F. Turner

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power <u>b/</u>	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
175	--	--	--	J,W	D,S	
176	--	--	--	J,W	D,S	
177	--	--	--	J,W	D,S	
178	--	--	--	J,W	D,S	
179	--	+	--	F,C,G	S,I	Water stood 7 feet above ground when first drilled and flowed 30 gallons a minute. Barely flowed in Sept., 1931.
180	--	--	--	B,H	D,S	
181	--	--	--	J,W	S	Weak supply of water.
182	1	63.0	July 28, 1932	J,W	S	
183	--	32.0	do.	B,H	D,S	
184	--	--	--	J,W	D,S	

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power <u>b/</u>	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
201	--	--	--	--	--	Oil test, see log.
202	--	+	July 28, 1932	Non	D,S	Spring in Iron's Creek valley. Estimated flow 5 gallons a minute.
203	3	18	do.	B,H	D,S	
204	1	25	do.	B,H	N	Strong sulphur smell.
205	--	--	--	J,H	D,S	
206	--	--	--	J,H	D,S	
207	--	--	--	J,E, 1 1/2	D	
208	--	--	--	J,E, 3	P	At Brookshire. Water in gravel.
209	--	--	--	J,E,W	P	At Brookshire.
221	5	49.8	Feb. 10, 1931	T,E, 75	I	Temperature 72° F. Yield 1,510 gallons a minute, Aug. 18, 1932. Casing; 150 feet of 16-inch and 374 feet of 12-inch. Screens set at 110 to 150, 286 to 326, 358 to 375, 385 to 405 and 478 to 518 feet.

d/ For analysis of water see under well number in table of analyses.

e/ No field tests made on water from this well.

f/ Taylor, T. U., Underground waters of Coastal Plain of Texas; U. S. Geological Survey Water-Supply Paper 190, 1907.

g/ Reported by driller.

Records of wells in Waller County--Continued

No.	Distance from Katy	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
c/222	7 miles northwest	T. B. Tucker	--	Old	--	26	--	--
223	6 $\frac{3}{4}$ miles northwest	do.	Layne-Texas Co.	1928	767	16	114 167 304 328 426 465	26 30 19 14 16 22
224	5 $\frac{1}{2}$ miles northwest	L. F. Morrison	--	--	--	--	592 691	41 22
225	do	do.	Layne-Texas Co.	1929	643	24	-- 160 204 313	-- 11 10 36
c/226	4 $\frac{1}{4}$ miles northwest	Campbell & Jones	W. M. Justman	1930	470	16	385 527	60 48
c/227	6 miles west northwest	American Rice Milling Co.	Layne-Texas Co.	1927	900	--	605 --	15 --
c/228	7 $\frac{1}{2}$ miles west northwest	Morris Cassner	do.	1908	432	24	62 360 80 120	102 60 35 30
c/229	4 $\frac{1}{2}$ miles west northwest	C. J. Ritter	do.	1906	464	9- 5/8	206 375 413 87	12 15 19 15
d/230	3 miles west northwest	Francis Young	-- Olsen	1922	273	26	388 429	32 12
231	5 miles west	Texas Co., Pipe Line	--	--	--	--	449 70	15 153
e/232	4 $\frac{1}{2}$ miles west	Shell Pipe Line Corp.	--	1929	128	6	233 --	40 --
e/233	3 $\frac{1}{4}$ miles west	John Alt	--	1927	256	12	-- 130 210	-- 40 46
234	2 miles west	John Cope	I. W. Lawson	1909	545	24	98 172 471	47 50 44
c/235	do.	do.	do.	1932	--	--	--	--
236	1 $\frac{1}{2}$ miles west northwest	W. J. Alderson	--	1904	174	48	--	--
c/237	$\frac{3}{4}$ mile west northwest	J. A. Bartlett	I. W. Lawson	1909	545	24	--	--

a/ Bench mark is point from which water-level measurement was made and was usually top of casing, top of pump base or top of water pipe clamp.

b/ T, turbine; A, air; C, centrifugal; J, jack; B, rope and bucket; E, electric; G, gasoline engine (includes tractors); F, fuel oil engines; W, windmill; H, hand.

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

Penn Livingston and Samuel F. Turner

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power <u>b/</u>	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
222	1	47.8	Apr. 28, 1931	None	N	
223	$\frac{1}{2}$	49.2	Feb. 10, 1931	T, E, --	I	Temperature 71° F. Estimated yield 1,400 gallons a minute, June 12, 1931. Casing; 115 feet of 16-inch, 93 feet of 12-inch and 8-inch to bottom. Screens set at 117 to 145, 165 to 198, 304 to 343, 425 to 445, 467 to 488, 596 to 630 and 693 to
224	--	--	--	J, H	D, S	Shallow well for domestic use. 714 feet.
225	--	52g/	Apr. 1929	T, E, 60	I	Yield 950 gallons a minute, Aug. 18, 1932. Casing; 125 feet of 24-inch, and 12-inch to bottom. Screens set at 155 to 165, 201 to 211, 321 to 341, 381 to 443, 529
226	--	--	--	T, E	D, S, I	Yield to 572 and 607 to 628 feet. 1,910 gallons a minute, August 23, 1931.
227	--	--	--	None	N	
228	0	55.5	Sept. 30, 1931	None	N	Reported yield when drilled, 905 gallons a minute. <u>g/</u> Casing; 60 feet of 24-inch and 9 5/8-inch to bottom. Screened at 80 to 100, 133 to 152, 207 to 227, 377 to
229	--	--	--	None	N	Casing; 464 396 and 416 to 432 feet. feet of 9 3/8-inch. Screens set at 88 to 102, 340 to 420, 429 to 464 feet. Well reported as caved and abandoned.
230	--	--	--	T, F, --	I	Yield, 470 gallons a minute, Aug. 1, 1932. Casing; 68 feet of 26-inch and 12-inch to
231	--	--	--	J, E, --	Ind	bottom.
232	--	--	--	J, E, 5	Ind	
233	--	--	--	T, E, 40	I	Casing; 256 feet of 12-inch. Screens set at 130 to 170 and 210 to 256 feet. Yield, 1,080 gallons a minute, Aug. 11, 1932.
234	$\frac{1}{2}$	46.7	Mar. 12, 1931	T, T, 30	I	Yield 560 gallons a minute, Aug. 11, 1932. Casing; 65 feet of 24-inch, 159 feet of 12-inch and 292 feet of 8 1/4-inch set at 516 feet. Screens set at 106 to 142, 182
235	--	--	--	--	--	New well to 219 and 454 to 511 feet. being drilled to replace well 234 which
236	--	--	--	T, E, 30	D, S, I	has caved. Casing; 60 feet of 48-inch, with one 8 1/4-inch and one 11 5/8-inch well in bottom of pit. Yield, 510 gallons a
237	--	--	--	T, E, 40	I	Yield, 430 a minute, Aug. 18, 1932, gallons a minute, Aug. 10, 1932.

d/ For analysis of water see under well number in table of analyses.

e/ No field tests made on water from this well.

f/ Taylor, T. U., Underground waters of Coastal Plain of Texas; U. S. Geological Survey Water-Supply Paper 190, 1907.

g/ Reported by driller.

Records of field tests of samples from wells in Waller County, Texas
(Analyzed by Samuel F. Turner. Parts per million. For records
of wells see corresponding numbers in well tables.)

Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO ₃ a/	Chloride (Cl)	Sulphate (SO ₄) b/4
1	E. F. O'Connor	-	23	400	170	10
2	T. D. Woods	-	135	90	15	5
3	do.	-	62	360	100	5
4	E. F. O'Connor	-	80	360	65	10
5	H. Kloecker	-	40	200	230	25
6	C. E. T. Hicks	-	45	180	250	20
7	A. H. Deweese	-	55	330	330	15
8	Negro church	-	30	410	380	45
11	A. Kloecker	Apr. 14, 1931	40	2,000	2,500	400
12	do.	-	60	500	190	15
13	-- Spurley	-	50	75	50	10
14	E. M. Taylor	-	57	1,000	800	40
15	George Bennett	-	50	85	25	3
16	-- Spurley	-	47	550	400	25
17	H. C. Stenhens	-	60	750	700	70
18	Charley Marshall	-	30	400	150	20
19	Vivian Harris	-	50	500	240	10
20	-	-	60	400	175	20
51	W. E. Cook	-	60	100	70	3
52	A. Karsteter	-	50	85	75	5
53	-- Dawson	-	110	75	20	3
54	R. A. Hooker	-	60	70	40	1
56	School (Fields)	-	40	85	85	7
57	R. H. Jones	-	36	30	30	7
58	W. A. Bradbury	-	90	35	35	2
59	do.	-	20	80	60	30
60	Cordell's Mill	-	150	200	50	10
61	John Rodgeson	-	67	210	270	7
62	F. F. Sneigi	Aug. 10, 1932	51	140	80	20
63	T. B. Stephenson	-	52	200	220	2
64	T. S. Dinkins	-	42	270	230	40
65	J. H. Turpin	-	50	280	360	20
66	Lisle McPherson	-	86	110	30	5
67	J. H. Turbin	-	21	170	80	35
101	Giddings Est.	-	125	125	15	10
102	G. W. Heard	-	62	150	65	7
104	-- Beard	-	40±	110	65	5
105	H. M. Cooke	-	60	35	20	10
106	E. T. Hitt	-	95	150	230	100
107	B. R. Rhems	Apr. 14, 1931	85	210	70	8
108	Texas-Louisiana Power Co.	-	868	85	55	1
110	J. S. Weatherford	-	50	320	220	35
111	Hempstead Cemetery	-	168	250	70	5
112	Southern Pacific R.R.	Nov. 7, 1931	180	150	25	10
114	-- MacDonald	-	85	55	20	10
115	D. D. Feagin	May 13, 1931	38	65	40	20
118	Mrs. H. L. Milam	Apr. 15, 1931	60	75	40	5
119	Prairie View State College	-	576	-	-	-
122	J. J. Perry	Aug. 3, 1932	50	330	100	25

a/ Hardness as calcium carbonate by the soap method.

b/ Sulphate by turbidity method and may be as much as 25 per cent in error.

Records of field tests of samples from wells in Waller County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO ₃ a/	Chloride (Cl)	Sulphate (SO ₄) b/4
123	-	-	40	550	210	15
124	Mrs. Bob Robinson	-	70	300	75	2
125	Judge Hardy	-	-	150	150	50
126	do.	-	50	450	130	200
127	do.	-	65	330	100	120
154	W. D. Weaver	May 28, 1931	68	130	115	10
155	L. L. Menke	-	105	40	30	2
156	do.	-	148	30	25	1
157	-	-	80	95	20	1
158	W. H. Carter Well 1	-	3,527	-	-	-
159	R. S. Montgomery	-	28	30	20	5
160	W. M. Brumby	-	81	45	35	1
162	Clyde Fuller	July 28, 1932	65	60	40	1
163	F. H. Wawarofsky	-	54	40	20	1
164	W. M. Pohl	-	60	15	20	2
165	T. O. Wawarofsky	-	55	30	20	1
166	Frank Wawarofsky	-	104	140	20	1
167	T. C. Boethe	-	63	150	20	3
168	H. Boethe Est.	-	54	190	70	5
170	Lizzie Davis	-	60	180	70	3
171	M. A. Dodd	-	62	15	12	1
172	do.	-	60	45	15	1
173	do.	-	50	120	35	2
175	F. S. Styers	-	32	160	50	3
176	F. A. Holik	-	57	220	25	5
177	Fritz Frey	-	48	280	140	2
178	M. E. Kerr	-	45	290	130	15
179	H. Lass	-	738	210	140	35
180	John Bonner	-	60	75	45	1
181	-- Frey	-	70	45	25	5
182	G. A. Menke	July 28, 1932	68	50	30	3
183	J. B. Adams	do.	37	60	90	1
184	A. Miller	-	74	115	40	2
202	Mrs. J. B. Adams	do.	1	140	9	5
203	do.	do.	20	450	20	8
204	Will Clemons	do.	35	750	130	5
205	Mrs. G. T. Patterson	-	30	200	18	10
206	G. L. Buller, Sr.	-	20	600	160	40
207	Texas Construction Materials Co.	-	54	450	110	40
208	Geo. Harrison	-	82	200	150	5
221	Harry Hebert	Feb. 10, 1931	524	180	50	5
223	T. B. Tucker	do.	767	140	55	5
224	L. E. Morrison	-	-	170	65	2
225	do.	Apr., 1929	643	160	55	10
230	Francis Young	-	273	180	55	5
231	Texas Co., Pipe Line	-	-	180	100	5
234	John Cope	Mar. 12, 1931	345	150	70	15
236	W. J. Alderson	-	174	240	65	2

a/ Hardness as calcium carbonate by the soap method.

b/ Sulphate by turbidity method and may be as much as 25 per cent in error.

Analyses of water from wells in Waller County, Texas

Well No.	Owner	Date of collection	Depth of well (ft.)	Total dissolved solids (calc.)	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)
7	A. H. Deweese	Aug. 2, 1933	55	-	-	-	-	-
14	E. M. Taylor	Aug. 19, 1932	57	1,604	-	0.07	376	24
59	W. A. Bradbury	Aug. 5, 1933	20	114	-	-	8	5.5
65	J. H. Turpin	do.	50	-	-	-	-	-
107	E. R. Rehms	Aug. 19, 1932	85	237	-	0.21	58	6.1
108-A	Texas Louisiana Power Co.	Jan. 2, 1930	2/485-518	517	29	3/15	40	11
108-B	do.	Jan. 6, 1930	2/687-723	451	-	3/20	50	7.5
115	I. I. Feagin	Aug. 2, 1933	38	139	-	0.13	15	6.1
119	Prairie View State College	1930	576	309	10	-	34	11
120	do.	Mar. 24, 1928	571	415	33	-	36	5.5
159	R. S. Montgomery	Aug. 9, 1933	28	66	-	0.72	2.8	1.6
162	Clyde Fuller	Aug. 19, 1932	65	115	-	0.12	8.0	5.1
230	Francis Young	Aug. 1, 1932	273	240	-	0.02	63	5.9

1/ Sum of constituents reported.

2/ Collected while drilling; total depth of well 868 feet.

(Parts per million. Well numbers correspond to numbers in table of records of wells.)

Well No.	Sodium and potassium (Na-K) (calc.)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Total hardness as CaCO ₃	Analyst
7	-	89	12	340	11	363	Margaret D. Foster
14	189	35	71	770	0.25	1,038	Do.
59	24	31	7.8	30	23	43	Do.
65	-	40	8	388	313	321	Do.
107	25	168	7	53	5.3	170	Do.
118-A	138	390	6.7	85	-	145	Curtis Laboratories
118-B	115	372	10	66	-	156	Do.
115	21	23	9.3	30	46	63	Margaret D. Foster
119	70	255	23	36	-	130	National Supply Co.
120	111	336	30	34	-	113	International Filter Co.
159	19	18	9.9	18	6.3	14	Margaret D. Foster
162	29	48	2	41	6.0	41	Do.
230	24	220	2	37	0.15	182	Do.

3/ Iron and aluminum oxides.

Table of Drillers' Logs, Waller County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 101</u>		
A. Weaver Number 1.		
Sand	2	2
Clay	10	12
Rock	2	14
Clay	3	17
Gypsum	3	20
Rock	1	21
Clay	9	30
Gypsum	3	33
Clay and rock	104	137
Gumbo	33	170
Rock	2	172
Hard shale	16	188
Sand	19	207
Gumbo	3	210
shale	8	218
sand	8	226
shale, gumbo and rock	65	291
Gypsum	2	293
Sand	27	520
Gumbo	6	326
Hard shale	14	340
Rock	4	344
Shale and gumbo	129	473
Gypsum	12	485
Hard sand	20	505
Rock	4	509
TOTAL DEPTH		1363

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 55</u>		
W. F. Maxwell Number 2.		
Sand and clay	16	16
Sand	6	22
Sandy clay	96	118
Clay and boulders	22	140
Gumbo	204	344
Hard sand	10	354
Gumbo	18	372
Hard sand	11	383
Gumbo	25	408
Hard sand	10	418
Gumbo	78	496
TOTAL DEPTH		1200

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 103</u>		
Roy Chapman Number 1.		
Clay	20	20
Sand	20	40
Clay	30	70
Sand	35	105
Clay	45	150
Black rock	4	154
Clay	33	187
Sand and shells	73	260
Shale	85	345

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 103--Continued</u>		
Sand	59	404
Shale	36	440
Sand and gravel	30	470
Gummy shale	60	530
Sand	30	560
Shale	54	614
Gumbo	46	660
Shale	68	728
Hard sand	6	734
Gumbo	36	770
Broken chalk and rock	20	790
Shale	215	1005
Sand, strong gas showing	20	1025
Gummy shale	8	1033
Broken chalk and sand	8	1041
Sandy shale	64	1105
Sand	32	1137
Sandy shale	18	1155
Sand	10	1165
Sandy shale	35	1200
TOTAL DEPTH		2640

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 108</u>		
Texas-Louisiana Power Co., owner.		
Soil	2	2
Clay	47	49
Coarse sand	38	87
Clay	20	107
Fine sand	12	119
Clay	8	127
Soft rock	9	136
Clay	34	170
Rock	1	171
Clay	8	179
Rock	1	180
Sand	31	211
Rock	1	212
Sand, hard layers test No. 1 static level 50 feet	60	272
Rock	1	273
Gumbo	84	357
Sand	19	376
Gumbo	12	388
Sand	14	402
Gumbo	26	428
sand	19	447
Gumbo	34	481
Sand, test No. 2 static level 63 feet	33	514
Gumbo	169	683
Sand, test No. 3 static level 45 feet	36	719
Gumbo	149	868

Table of Drillers' Logs, Weller County--Continued

	Thickness (feet)	Depth (feet)
Driller's log of well 120		
Prairie View State College Number 2.		
Surface soil - - - -	20	20
Red sand - - - -	60	80
Clay - - - -	220	300
Soft rock - - - -	1	301
Packed sand - - - -	30	331
Clay - - - -	23	354
Hard rock - - - -	1	355
Clay - - - -	90	445
Rock (?) - - - -	38	483
Sand - - - -	50	533
Clay - - - -	17	550
Sand - - - -	21	571

	Thickness (feet)	Depth (feet)
Driller's log of well 158		
W. H. Carter Number 1.		
Surface sand - - - -	10	10
Clay - - - -	40	50
Sand - - - -	30	80
Gravel - - - -	5	85
Gumbo - - - -	19	104
Sand - - - -	51	155
Gumbo - - - -	80	235
Shale and sand - - - -	39	274
Gumbo - - - -	42	316
Sand - - - -	41	357
Gumbo - - - -	83	440
Rock - - - -	5	445
Gumbo - - - -	8	453
Rock - - - -	12	465
Gumbo - - - -	25	489
Shale - - - -	14	502
Gumbo - - - -	157	639
Rock - - - -	1	640
Gumbo - - - -	60	700
Shale and boulders - - - -	45	745
Gumbo - - - -	303	1048
Boulders - - - -	20	1068
Gumbo - - - -	41	1109
Sand and shale - - - -	21	1130
Shale streaked with sand	15	1145
Gumbo - - - -	286	1431
Gypsum - - - -	8	1439
Rock - - - -	2	1441
Shale, rock and gypsum - - - -	59	1500
Water sand - - - -	35	1535
Shale and boulders - - - -	40	1575
TOTAL DEPTH - - - -		3527

	Thickness (feet)	Depth (feet)
Driller's log of well 169		
H. Laas oil test.		
Yellow clay - - - -	24	24
Red clay - - - -	19	43
Water sand, flowed - - - -	121	164
Sand rock - - - -	21	185
Blue gumbo - - - -	58	243
Dry sand - - - -	12	255
Blue gumbo - - - -	16	271
Sand and boulders - - - -	63	334
Blue gumbo, and sand rock	228	562
Sandy shale - - - -	7	569

	Thickness (feet)	Depth (feet)
Driller's log of well 169--Continued		
Sand and shale - - - -	10	579
Blue gumbo - - - -	4	583
Sand and shale - - - -	6	589
Blue gumbo - - - -	22	611
Sand and shale - - - -	59	670
Blue gumbo - - - -	12	682
Gray sand - - - -	9	691
Gray lime rock - - - -	8	699
Blue gumbo - - - -	70	769
Blue sand - - - -	12	781
Blue gumbo - - - -	114	895
Sandy shale - - - -	7	902
Blue gumbo - - - -	8	910
Hard sand rock - - - -	13	923
Sand and shale - - - -	4	927
Blue gumbo - - - -	5	932
Sand and shale - - - -	7	939
Blue sand - - - -	25	964
Blue gumbo - - - -	21	985
Blue sand - - - -	5	990
Blue gumbo - - - -	18	1008
Blue sand - - - -	10	1018
White shale - - - -	--	1018

	Thickness (feet)	Depth (feet)
Driller's log of well 174		
John R. Young Number 1.		
Surface soil - - - -	25	25
Sand - - - -	10	35
Water sand - - - -	12	47
Clay - - - -	2	49
Clay - - - -	7	56
Clay - - - -	5	61
Gravel and sand - - - -	18	79
Clay - - - -	17	96
Gumbo - - - -	8	104
Sand and boulders - - - -	10	114
Gumbo - - - -	12	126
Hard sand - - - -	17	143
Gumbo - - - -	15	158
Sand - - - -	26	184
Gumbo - - - -	31	215
Sticky shale - - - -	12	229
Sand - - - -	23	252
Gumbo - - - -	30	282
Sand - - - -	1	283
Gumbo and boulders - - - -	13	296
Gumbo - - - -	11	307
Sand - - - -	1	308
Hard sand - - - -	7	315
Gumbo - - - -	27	342
Sandy shale and boulders - - - -	29	371
Rock - - - -	2	373
Hard sand - - - -	3	376
Gumbo - - - -	35	411
Brown gumbo - - - -	82	493
Gray sand - - - -	11	504
Soft water sand - - - -	22	526
Hard - - - -	9	535
Hard sand - - - -	5	540
Blue gumbo and shale - - - -	26	566
Gumbo - - - -	55	621
Blue-gray soft sand - - - -	42	663
Boulders and gumbo - - - -	37	700
Sand and shale - - - -	7	707

(Continued on next page)

Table of Drillers' Logs, Waller County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 174--Continued</u>		
Loose hard gumbo	51	758
Gumbo and lime	26	784
Hard rough sand	9	793
Gumbo	80	873
Hard sand rock	3	876
Sand and boulders	43	919
Hard gumbo	89	1008
TOTAL DEPTH		2028

<u>Driller's log of well 179</u>		
H. Laas, owner.		
Clay	18	18
Sand	16	34
Red clay	2	36
Coarse sand	35	71
Gravel	5	76
Clay, rock and shale	64	140
Gravel and sand	35	175
Clay	3	178
Rock, sand and gravel	4	182
Clay	6	188
Sand	3	191
Rock and blue gumbo	6	197
Rock and sand	25	220
Sand, shale and gumbo	60	280
White sand	20	300
Blue gumbo	110	410
Hard rock	1	411
Blue sand	36	447
Hard lime rock	1	448
Red sand and clay	38	486
Green sand	2	488
Hard lime	24	512
Gray sandy shale	178	690
Sand	42	732
Blue gumbo	2	734
White sand	4	738
White gumbo		738

<u>Driller's log of well 201</u>		
J. R. Garrett, Number 1.		
Clay	20	20
Sand	18	38
Clay	10	48
Sand	15	63
Red gumbo	12	75
Yellow gumbo	20	95
Gravel	4	99
Gumbo	36	135
Sand	6	141
Gumbo	25	166
Blue shale	4	170
Lime rock	6	176
Gravel	6	182
Lime rock	15	197

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 201--Continued</u>		
Gumbo	6	203
Gumbo and lime	62	265
Gravel	12	277
Gumbo	8	285
Sand	71	356
Gumbo and lime	168	524
Hard packed sand	12	536
Soft sand	11	547
Hard packed sand	2	549
Gumbo, lime and shale	73	622
Lime rock	3	625
Blue shale, lime and brown gumbo	106	731
Blue sandy shale and lime	18	749
Blue gumbo and lime	24	773
Lime and sandy shale	29	802
Sandy lime rock and pyrites	4	806
Blue sandy shale	3	809
Sticky shale	4	813
Packed sand	4	817
Blue shale	23	840

<u>Driller's log of well 225</u>		
L. E. Morrison, owner.		
Sandy soil	2	2
Clay	15	17
Sand	10	27
Clay	27	54
Coarse sand	25	79
Clay	10	89
Sand and gravel	12	101
Gumbo and clay	35	136
Rock	3	139
Tough gumbo	21	160
sand and coarse gravel	11	171
Rock	1	172
Clay	20	192
Rock	2	194
Clay	10	204
Coarse sand, good	10	214
Tough gumbo	76	290
Sand	8	298
Tough gumbo	15	313
Fine sand	18	331
Rock	1	332
Fine sand	17	349
Tough gumbo	8	357
Rock	1	358
Gumbo	27	385
Sand, medium coarse	60	445
Gumbo	6	451
Shale	12	463
Tough gumbo	24	487

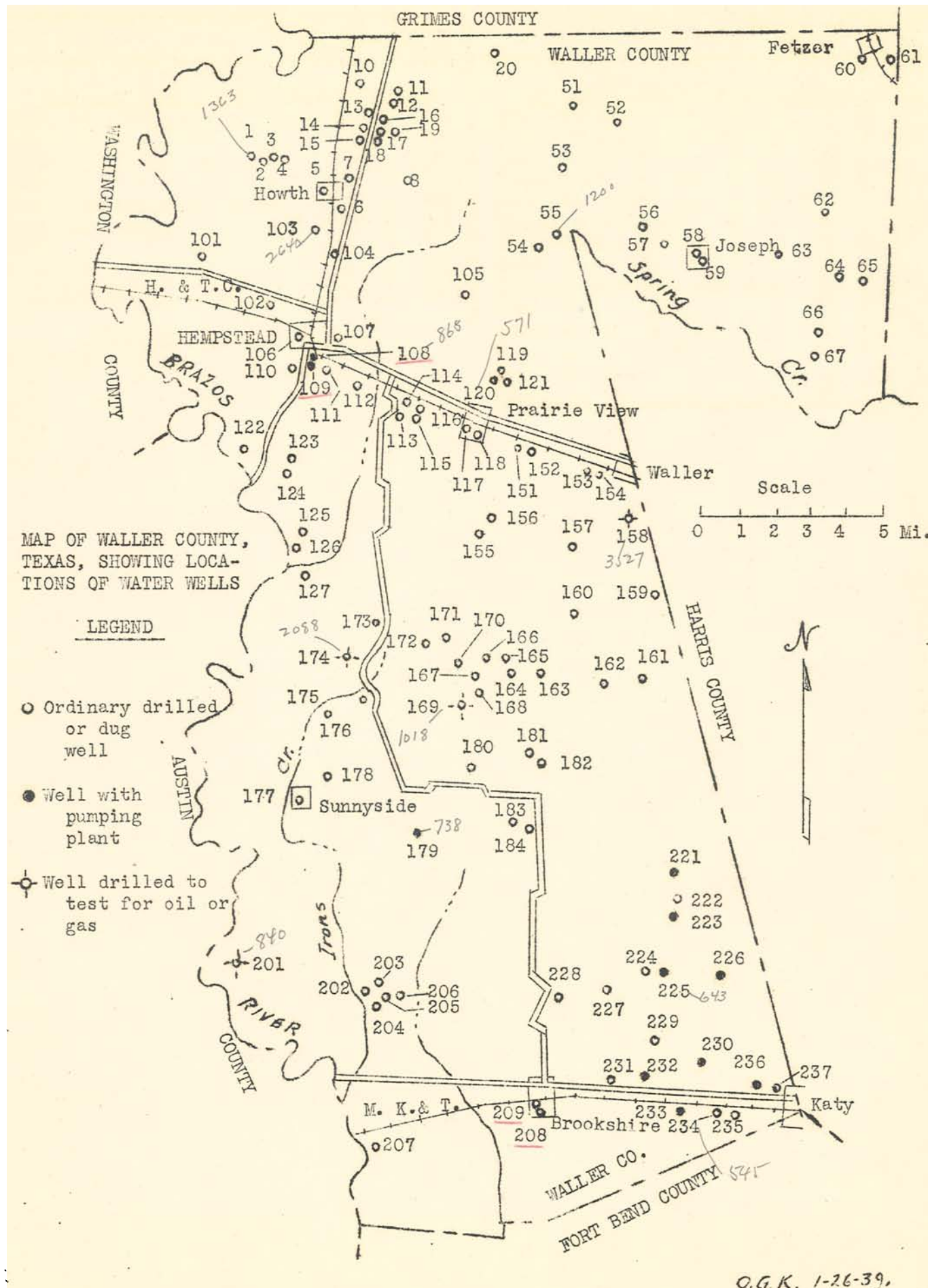
(Continued on next page)

Table of Drillers' Logs, Waller County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 225--Continued</u>		
Sand - - - -	12	499
Gumbo - - - -	8	507
Sand - - - -	10	517
Gumbo - - - -	10	527
Coarse packed sand, good-	48	575
Gumbo and shale - -	30	605
Sand - - - -	15	620
Rock - - - -	1	621
Sand and rock - -	22	643

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 234</u>		
John Cope, owner.		
Soil and clay - -	18	18
Sand - - - -	27	45
Clay - - - -	6	51
Sand - - - -	21	72
Red clay - - - -	26	98

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 234--Continued</u>		
Sand and gravel - - -	47	145
Clay - - - -	9	154
Pack sand - - - -	12	166
Tough clay - - - -	6	172
Sand and gravel - - -	50	222
Boulders and clay - -	6	228
Honey-combed rock - -	32	260
Sand - - - -	10	270
Honey-combed rock and clay	86	356
Sand - - - -	29	385
Shale - - - -	54	439
Hard sand and rock - -	32	471
Sand and gravel - - -	44	515
Gumbo - - - -	30	545



MAP OF WALLER COUNTY, TEXAS, SHOWING LOCATIONS OF WATER WELLS

LEGEND

- Ordinary drilled or dug well
- Well with pumping plant
- ⊕ Well drilled to test for oil or gas

