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HARRIS COUNTY, TEXAS

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

\* \* \*

by

Penn Livingston and Samuel F. Turner

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

## HARRIS COUNTY, TEXAS

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### Introduction

by

Samuel F. Turner

Associate Hydraulic Engineer

United States Department of the Interior

Geological Survey

This pamphlet contains records of wells in Harris 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 Penn Livingston and Samuel F. Turner of the Geological Survey. The chemical 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 Harris County, Texas  
 (All wells are drilled unless otherwise noted in "Remarks" column.)  
 (Principal water-bearing beds are sand or gravel.)

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.)
1	3 miles north	-- Stokes	--	--	60	4	--	--
2	2 <sup>3</sup> / <sub>2</sub> miles north northwest	H. J. Voottcher	--	Old	31	10	--	--
e/ 3	1 <sup>1</sup> / <sub>2</sub> miles northwest	T. W. Ray	--	1870?	71	24	--	--
4	1/4 mile east	B. F. Quinn	U. S. Geological Survey	1931	20	3	15	5
5	1/4 mile northeast	Dr. Berry	--	--	42	24	--	--
a/ 6	In Waller	H. H. Strickland	H. H. Strickland	1918	30	10	--	--
7	do.	Bob Robinson	do.	1931	124	--	--	--
8	1/2 mile southeast	Elmer Bennett	--	--	100+	4	--	--
e/ 9	3/4 mile southeast	J. E. Ellison	-- Phillips	1911	120+	5	--	--
e/ 10	2 <sup>1</sup> / <sub>2</sub> miles east southeast	J. A. Hafner	U. S. Geological Survey	1931	21	3	19	2
e/ 11	do.	do.	H. Bennett	1905	70	6	--	--
c/ 12	2 <sup>3</sup> / <sub>4</sub> miles southeast	do.	H. H. Strickland	1900	61	6	60	--
13	do.	do.	--	Old	35	8	--	--
14	1 <sup>3</sup> / <sub>2</sub> miles east	do.	H. H. Strickland	1926	122	4	--	--
e/ 15	4 <sup>3</sup> / <sub>4</sub> miles north	W. P. Castle	W. Weaver	1925	90	4	--	--
a/ 31	4 miles east southeast	R. L. Burton	Layne-Texas Co.	1928	297	6	241	55
32	do.	do.	--	Old	40	8	--	--
e/ 33	5 miles east southeast	W. G. Nealey	--	1910?	61	10	--	--
34	6 <sup>1</sup> / <sub>2</sub> miles east southeast	O. M. Taylor	H. H. Strickland	1928	53	6	45	8
d/ 35	do.	do.	do.	Old	35	--	--	--
e/ 36	do.	do.	U. S. Geological Survey	1931	22	3	20	2

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, 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	2	20.1	Nov. 5, 1931	None	N	
2	--	--	--	None	N	Dry hole.
3	2	50.6	Nov. 6, 1931	None	N	Cased with 40 feet of 24-inch tile with 8-inch tile to 71 feet. Automatic water stage recorder installed on this well.
4	$\frac{1}{2}$	4.0	May 13, 1931	None	N	Test well used for water level measurement.
5	$2\frac{1}{2}$	36.6	Apr. 13, 1931	J,W	D,S	Also reported as 80 feet deep.
6	3	10.0	do.	B,H	D,S	Wood casing.
7	--	--	--	J,W	D,S	First water at 20 feet, second at 60 feet and third at 120 feet.
8	1	43.1	Nov. 5, 1931	J,H	N	
9	--	--	--	J,W	D,S	
10	$\frac{1}{2}$	4.6	May 13, 1931	None	N	Test well used for water level measurements.
11	$\frac{1}{2}$	45.2	Apr. 13, 1931	J,W	D,S	
12	3	48.2	do.	J,W	D,S	
13	0	21.0	do.	None	N	Tile casing. Well failed in dry seasons.
14	2	50.3	do.	J,W	N	
15	--	--	--	J,W	S	
31	$\frac{1}{2}$	43.8	Apr. 13, 1931	J, E, $\frac{S}{2}$	D, S	Casing; 6-inch 0 to 188 feet, 4-inch 163 to 291 feet. Screen set at 246 to 289 feet. Water level was 43.3 feet below ground in 1928 and would pump 60
32	0	29.0	do.	None	N	Unused well, <span style="border: 1px solid black; padding: 2px;">gallons a minute.</span> <u>f/</u> cased with cypress.
33	$1\frac{1}{2}$	32.1	do.	J,W	D,S	In Hockley.
34	--	--	--	J,G, 2	D,S	Ten or 12 feet of screen at bottom. Strong water supply in gravel.
35	1	20.4	Apr. 25, 1931	B,H	S	Tile casing.
36	1	21.0	Nov. 3, 1931	None	N	Test well used for water level measurement.

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company

h/ Measured by Layne-Texas Company

## Records of wells in Harris 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.)
37	8 miles east southeast	--	U. S. Geological Survey	1931	20	3	--	--
d/ 38	5½ miles east northeast	Louis Hugar	--	--	75+	7	--	--
d/ 39	7½ miles east	Mrs. Joe Blake	Joe Blake	1898	38	30	--	--

No.	Distance from Tomball	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
d/ 51	7¼ miles west	H. C. Nichols	--	1894?	64	42	--	--
d/ 52	5½ miles west	J. Hirsch	--	1907	37	42	--	--
d/ 53	3¼ miles west	E. Schultz	--	1913	33	6	--	--
d/ 54	1¼ miles west southwest	Bowers School	--	--	28	36	--	--
d/ 55	2¾ miles west southwest	Fritz Treichel	Fritz Treichel	1922	21	10	--	--
56	2¾ miles southwest	Hubert Reed Well 1	F. N. Bullock	1923	1,568	--	--	--
c/ 71	1¾ miles northeast	Stanolind Pipe Line Co.	N. B. Anderson	1923	65	4	--	--
72	In Tomball	Texas & Brazos Valley R.R.	do.	1919	67	12	47	20
73	do.	do.	Layne-Texas Co.	1907	211	9- 5/8	186	25
d/ 74	2¼ miles south	M. F. Michel	M. F. Michel	1917	23	36	--	--
d/ 75	3 miles south	T. J. Keuhn	T. J. Kuehn	1885	30	60	--	--
d/ 76	5¾ miles south	W. M. Buvinghausen	N. B. Anderson	1916	96	4	--	--
d/ 77	6 miles south	A. Buvinghausen	A. Buvinghausen	1931	26	36	--	--
d/ 78	6¾ miles south	S. Bloom	S. Bloom	1896?	30+	48	--	--

No.	Distance from Spring	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
91	1¼ miles northwest	Barbecue Stand	--	--	33	36	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, 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 b/	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
37	0	3.5	Mar. 15, 1932	None	N	Test well used for water level measurement.
38	--	--	--	J,W	D,S	
39	--	--	--	J,W	D,S	Dug well lined with brick.

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power b/	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
51	--	--	--	J,W	D,S	Dug well lined with brick.
52	--	--	--	J,W	D,S	Do.
53	--	--	--	J,H	D,S	
54	--	--	--	J,H	P	Dug well lined with brick.
55	--	--	--	J,H	D,S	Wooden casing.
56	--	--	--	None	N	Oil test, see driller's log.
71	--	--	--	J,E	D, Ind	Eight feet of screen in bottom. Water level was 36 feet below ground in 1923.
72	--	--	--	J,S	RR	Casing; 48 feet of 12-inch and 21 <u>f/</u> feet of 10-inch screen. Large water
73	--	--	--	None	N	Casing; <u>g/</u> supply from sand and gravel. 190 feet of 9 5/8-inch and 18 feet of 9 5/8-inch screen. Water level 39 feet
74	2 1/2	16.3	Sept. 4, 1933	J,W	D,S	Dug well <u>h/</u> below ground in 1907. <u>f/</u> lined with brick.
75	2	21.7	do.	J,G	D,S	Do.
76	--	--	--	J,H	D,S	
77	2	22.6	Sept. 4, 1933	J,H	D,S	Dug well lined with brick.
78	1 1/2	22.0	do.	J,H	D,S	Do.

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power b/	Use of water <u>c/</u>	Remarks
		Below bench mark (ft.)	Date of measurement			
91	2 1/2	26.1	June 1, 1931	B,H	D,S	Dug well with wooden curbing.

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layne-Texas Company.

## Records of wells in Harris County--Continued

No.	Distance from Spring	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/ 92	1½ miles west	E. N. Wunscho	--	--	35	36	--	--
d/ 93	In Spring	Missouri Pacific R.R.	--	--	1,070	8	984	86
e/ 94	1¼ miles west southwest	H. Reichert	--	--	25	33	--	--
95	1½ miles south southwest	H. C. Middlestead	--	--	32	72	--	--
96	1½ miles south southwest	do.	--	--	30	6	--	--
97	1½ miles southwest	do.	U. S. Geological Survey	1931	17	3	14	3
e/ 98	5½ miles southwest	R. W. Houk	H. L. Wilson	1925	137	4	--	--
99	5½ miles southwest	do.	do.	1925	556	6	--	--
e/100	do.	C. B. Bammel	--	--	24	48	--	--
e/101	do.	do.	A. E. Fawcett	1929	142	4	132	10
e/102	4¼ miles south	G. P. Addison	--	1926	20	48	--	--
c/103	do.	do.	--	--	40	6	--	--
e/104	do.	do.	--	1931	155	4	--	--
d/105	4¼ miles south southeast	Marshall Elzy	--	--	20	36	--	--
e/ 106	5½ miles south	Steve Pamuk	--	--	17	36	--	--
No.	Distance from Cypress	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/121	9½ miles west	Warren Ranch	--	--	--	6	--	--
c/122	8 miles west	do.	--	--	--	6	--	--
e/123	9 miles west	do.	--	1931	80+	6	--	--
124	do.	do.	--	--	--	4	--	--
e/125	10 miles west	do.	Texas Exploration Co. Well 3	--	2,151	6	--	--
e/126	10 miles west southwest	do.	--	1928	4,828	6	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, 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 b/	Use of water c/	Remarks
		Below bench mark (ft.)	Date of measure- ment			
92	2½	22.8	June 1, 1931	B,H	D,S	Dug well lined with brick.
93	--	+	--	F	P,RR	Temperature 82° F, Flow estimated at 50 gallons a minute in 1931.
94	--	--	--	J,E	D,S	
95	2	26.0	Nov. 9, 1931	J,H	N	Dug well lined with brick. Automatic water stage recorder installed on this well.
96	--	--	--	J,H	D,S	
97	½	16.5	Nov. 13, 1931	None	N	Test well used for water level measurements.
98	--	--	--	J,E, 5	D,S	
99	4	24.3	Oct. 28, 1932	A,G, 15	I	
100	½	19.7	Mar. 27, 1931	J,W	D,S	Dug well.
101	1	24.4	do.	J,G, 22	D,S	Ten feet of 2-inch screen set at bottom of well.
102	2	10.2	do.	A,E, ¼	D,S	Dug well.
103	2	18.4	Nov. 9, 1931	J,E	D,S	
104	1	28.3	do.	J,E	D,S	
105	2	12.7	June 1, 1931	J,H	P,D,S	Dug well.
106	1	14.0	Nov. 9, 1931	J,H	D,S	Do.

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power b/	Use of water c/	Remarks
		Below bench mark (ft.)	Date of measure- ment			
121	--	--	--	J,W	S	Oil test.
122	--	--	--	J,W	S	Do.
123	--	--	--	J,W	D,S	At Warren Ranch.
124	0	38.1	Oct. 28, 1931	None	N	
125	--	--	--	J,W	S	Oil test.
126	--	--	--	J,W	S	Do.

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layne-Texas Company.



Records of wells in Harris County--Continued

No.	Distance from Cypress	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/127	6 miles west	--	--	--	--	--	--	--
e/128	6 miles west southwest	--	--	--	--	--	--	--
129	4 $\frac{1}{4}$ miles west northwest	Gano Switch	U. S. Geological Survey	1931	9	3	--	--
130	4 $\frac{1}{2}$ miles southwest	--	--	--	100+	3	--	--
d/131 e/	5 $\frac{1}{4}$ miles southwest	C. E. House	Harry Bennett	1914	92	4	--	--
132	do.	do.	I. W. Lawson	1905	139	28	74 92 125	15 21 14
e/133	5 $\frac{3}{4}$ miles southwest	J. H. Huber	--	--	95+	--	--	--
134	9 miles southwest	Ira Southard	Ira Southard	1931	274	24	230	40
e/135	do.	do.	--	--	90	--	--	--
d/136 c/	do.	J. Freeman	--	--	138	24	--	--
137	8 miles southwest	W. E. Freeman	Layne-Texas Co.	1928	207	24	--	--
138	do.	do.	I. W. Lawson	1909	137	24	59 99	38 24
139	7 $\frac{3}{4}$ miles southwest	Oscar Kemp	Harry Bennett	1927	134	24	--	--
e/140	do.	do.	Layne-Texas Co.	1931	359	18	66 155 201 258 343	111 22 27 36 16
161	2 miles north	F. Kitzman	Harvey & Rusk	1930	4,425	--	--	--
162	do.	do.	do.	1930	81	6	--	--
163	do.	do.	do.	1926	80	4	--	--
164	do.	do.	do.	1926	4,200	--	--	--
e/165	1 mile northeast	P. H. Skinner	--	--	1,717	6	--	--
e/166	1 $\frac{3}{4}$ miles northwest	E. C. Smith	U. S. Geological Survey	1931	21	3	16	5
167	do.	do.	Layne-Texas Co.	1928	158	6	105	53
168	1 $\frac{1}{2}$ miles northwest	do.	U. S. Geological Survey	1931	13	3	--	--
d/169 e/	1 $\frac{1}{4}$ miles northwest	H. & T. C. R.R.		--	400	8	--	--
e/170	In Cypress	E. H. Juergen	Harry Bennett	1915	102	4	--	--

## 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			
127	--	--	--	J,W	S	
128	--	--	--	J,W	S	
129	$\frac{1}{2}$	2.9	Apr. 28, 1931	None	N	Test well used for water level measurement. Deepened to 21 feet on Nov. 4, 1931.
130	0	16.6	Oct. 28, 1931	None	N	
131	--	--	--	J,W	D,S	
132	$1\frac{1}{2}$	23.3	Oct. 28, 1931	T,G, 40	N	Casing; 62 feet of 28-inch and 9 5/8-inch to bottom. Water level reported as 16 feet below ground in 1905.
133	--	--	--	J,H	D,S	
134	--	--	--	T,E, 45	I	Casing; 80 feet of 24-inch and 10-inch to bottom. Yield 850 gallons a minute, measured Aug. 18, 1932.
135	--	--	--	J,W	D,S	
136	$\frac{1}{2}$	36.3	Mar. 24, 1931	T,E, 40	I	Temperature 71° F. Yield 1,360 gallons a minute, measured Aug. 18, 1932.
137	--	--	--	T,E, 5	I	Yield 980 gallons a minute, measured Aug. 23, 1932. Casing 80 feet of 24-
138	--	--	--	T,E, 25	I	Casing; 64 inch and 12-inch to bottom. 64 feet of 24-inch and 11 5/8-inch to bottom. Screen set at 69 to 127 feet.
139	1	35.8	Mar. 17, 1933	None	N	Casing; 70 feet of 24-inch and 12-inch to bottom.
140	--	--	--	T,E, 30	I	Temperature 71° F. Casing; 121 feet of 18-inch and 12-inch to bottom. Screens set at 73 to 113, 156 to 174, 208 to 228, 270 to 290 and 345 to 355 feet. Yield 960 gallons a minute, measured Aug. 18, 1933.
161	--	--	--	None	N	Oil test. Cypress Oil Company. Well 2.
162	1	7.8	Apr 3, 1931	None	N	Supplied water for drilling oil test.
163	1	7.3	do.	A,S	N	Do.
164	--	--	--	None	N	Oil test. Cypress Oil Company. Well 1.
165	--	+	--	F	S	Oil test, flowing about 1 gallon of water a minute with gas.
166	$\frac{1}{2}$	14.7	Oct. 31, 1931	None	N	Test well used for water level measurements.
167	3	6.9	Apr. 3, 1931	None	N	Six-inch casing from top to bottom. Screen set at 134 to 158 feet.
168	$\frac{1}{2}$	3.8	May 13, 1931	None	N	Test well used for water level measurements.
169	$\frac{1}{2}$	12.5	Apr. 3, 1931	C,O, 20	RR	Eight-inch drilled well in bottom of dug well, 35 feet deep and 20 feet in diameter.
170	--	--	--	J,G, 6	D,S	

## Records of wells in Harris County--Continued

No.	Distance from Cypress	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
171	In Cypress	E. H. Juergen	--	--	72	3	--	--
172	$\frac{3}{4}$ mile southeast	--	U. S. Geological Survey	1931	13	3	--	--
d/173 c/	$1\frac{1}{8}$ miles southeast	C. L. Nash	--	1931	110	4	--	--
c/174	do.	do.	Layne-Bowler Co.	1907	2,830	--	--	--
175	2 miles southeast	--	U. S. Geological Survey	1931	18	3	14	4
176	$2\frac{1}{2}$ miles southeast	E. E. Potry	--	1928	50	3	--	--
c/177	5 miles southeast	K. P. Black	J. H. Black	1929	65	3	--	--
178	do.	do.	--	Old	40	3	--	--
179	$5\frac{1}{2}$ miles southeast	T. A. Hill	H. Tanner	--	60	4	--	--
180	$5\frac{1}{2}$ miles southeast	J. Williams	U. S. Geological Survey	1931	13	3	--	--
c/181	do.	do.	--	--	60	4	--	--
182	$4\frac{1}{2}$ miles south	Joel Schmidt	Joel Schmidt	1930	239	24	--	--
c/183	$5\frac{1}{2}$ miles south	J. J. Sweeney	--	1926	234	24	--	--
184	6 miles southwest	-- Tucker, lossar	--	--	50	--	--	--
185	do.	do.	--	--	5,420 $\pm$	12 $\frac{1}{2}$	--	--
c/186	do.	do.	Layne-Texas Co.	1931	--	18	--	--
201	$5\frac{3}{4}$ miles southeast	J. E. Clark	--	1929	23	4	--	--
d/202 e/	6 miles southeast	R. H. Richards	H. Tanner	1928	48	6	--	--
203	do.	do.	U. S. Geological Survey	1931	16	3	--	--
204	$6\frac{1}{4}$ miles southeast	Humble Pipe Line Co.	--	--	125	6	--	--
e/205	do.	do.	--	--	700 $\pm$	6	--	--
e/206	$6\frac{1}{2}$ miles southeast	R. B. Tucker	Layne-Bowler Co.	Old	450 $\pm$	24	--	--
207	do.	do.	--	Old	7	10 $\pm$	--	--
208	$7\frac{1}{4}$ miles southeast	E. T. Weaver	--	--	65 $\pm$	3	--	--
209	do.	H. & T. C. R.R.	U. S. Geological Survey	1931	16	3	--	--
210	do.	--	--	--	63	4	--	--
e/211	$7\frac{1}{8}$ miles northeast	E. T. Weaver	--	Old	40	4	--	--

## 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			
171	2	8.5	Apr. 3, 1931	None	N	
172	1	4.3	Apr. 28, 1931	None	N	Test well used for water level measurements.
173	1	5.7	Apr. 3, 1931	J, E, 1	D, S	
174	--	+	--	F	P	Houston Hot Well, used for bathing. Temperature 104° F. Estimated flow, 50
175	$\frac{1}{2}$	17.3	Oct. 31, 1931	None	N	Test well used for water level measurements. Estimated flow, 50 gallons a minute.
176	--	--	--	J, H	D, S	
177	1	2.9	Apr. 3, 1931	J, E	D, S	
178	$\frac{1}{2}$	2.4	do.	None	N	
179	--	4.4	Apr. 24, 1930	J, G	D, S	Temperature 67° F.
180	$\frac{1}{2}$	3.6	Apr. 25, 1931	None	N	Deepened to 20 feet on Oct. 30, 1931.
181	1	5.7	May 19, 1931	J, H	D, S	
182	--	--	--	T, O, 80	I	Yield 1,270 gallons a minute, measured Aug. 1, 1932.
183	0	24.0	Mar. 12, 1931	T, G	I	Yield estimated as 800 gallons a minute
184	--	15.2	do.	None	N	
185	5	51.9	do.	None	N	Oil test. Cranfill and Reynolds well 1 Rorick.
186	1	21.6	do.	T, E	I	Yield 2,130 gallons a minute, measured Aug. 10, 1932.
201	--	--	--	J, H	D, S	Reported as strong supply of hard water.
202	$1\frac{1}{2}$	9.4	May 19, 1931	J, W	D, S	
203	$\frac{1}{2}$	7.8	May 5, 1931	None	N	Test well used for water level measurements.
204	--	--	--	A, O	P, Ind	
205	1	23.9	Apr. 2, 1931	A, O	P, Ind	Temperature 76° F.
206	$\frac{1}{2}$	22.5	do.	A, G	D, S	Formerly used for rice irrigation.
207	$\frac{1}{2}$	1.7	May 19, 1931	None	N	
208	$\frac{1}{2}$	20.2	Sept. 24, 1931	J, G, $1\frac{1}{2}$	S	
209	$\frac{1}{2}$	4.5	May 14, 1931	None	N	Test well used for water level measurements. Deepened to 20 feet, Oct. 31,
210	1	11.4	Apr. 2, 1931	J, W	N	1931.
211	2	7.8	do.	J, W	D, S	At Satsuma.

## Records of wells in Harris County--Continued

No.	Distance from Cypress	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
d/212 e/	8 miles southeast	H. & T. C. R.R.	H. Tanner	1924	56	6	--	--
e/213	8 $\frac{3}{4}$ miles southeast	R. B. Herring	R. B. Herring	1931	30	1 $\frac{1}{2}$	29	1
d/214	9 miles southeast	Mrs. J. A. Herring	--	1915?	66	--	--	--
e/215	do.	do.	--	1925	42	4	--	--
216	10 miles southeast	--	U. S. Geological Survey	1931	16	3	--	--
e/217	7 $\frac{3}{4}$ miles east	H. I. Mooney	H. I. Mooney	1928	40	6	--	--
218	8 miles east	do.	--	1930	13	4	--	--
d/219	do.	Tom Franklin	Tom Franklin	1926	19	18	--	--
d/220	9 miles east	Mrs. L. Hargrove	--	1931	28	3 $\frac{1}{2}$	--	--
e/221	10 $\frac{3}{4}$ miles east	-- Eubanks	H. L. Wilson	--	210+	6	--	--
e/222	10 $\frac{1}{2}$ miles east	S. Terpstra	do.	1928	194	3	--	--
d/223 e/	do.	G. Terpstra	do.	1930	94	4	--	--
e/224	12 miles east southeast	Ed Schoenfeld	H. Tanner	--	65	3	--	--
d/225 e/	11 $\frac{1}{2}$ miles east southeast	Trinity & Brazos Valley R. R.	McMasters & Pomeroy	1923	616	8	575	41

No.	Distance from Aldine	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/241	6 miles west southwest	C. H. Daniels	--	--	40	--	--	--
e/242	5 $\frac{1}{4}$ miles west southwest	Mrs. Anna Foldin	--	--	48	4	--	--
d/243 e/	6 miles west southwest	H. H. Radley	--	1930	67	4	--	--
e/244	do.	J. W. White	H. Klores	1929	44	3	--	--
e/245	do.	-- Forney	--	--	54	36	--	--
e/246	5 $\frac{3}{4}$ miles west southwest	S. H. Hilderbranna	--	--	48	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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

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

## Penn Livingston and Samuel E. 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			
212	--	--	--	J,W	P	
213	--	--	--	J,H	D,S	
214	--	--	--	J,W	D,S	
215	2	12.2	May 19, 1931	J,W	S	
216	$\frac{1}{2}$	4.5	May 22, 1931	None	N	Test well used for water level measurements.
217	0	5.5	Mar. 28, 1931	J,H	D,S	Water strata at 13, 20, 28 and 40 feet.
218	--	--	--	J,H	D,S	Reported to have fine quality soft water.
219	--	--	--	J,H	D,S	
220	--	--	--	J,H	D,S	
221	--	--	--	J,H	D,S	
222	--	--	--	J,W	D,S	
223	--	--	--	J,G, 3	D,S	Well deepened to 238 feet in 1932.
224	--	--	--	J,H	D,S	At North Houston.
225	--	--	--	J,O, 10	RR	576 feet of 8-inch casing and 40 feet of 8-inch screen. Water level was 13 feet below surface in 1923. <u>f/</u>

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			
241	--	--	--	J,H	D,S	
242	--	--	--	J,W	D,S	
243	--	--	--	J,W	D,S	
244	--	--	--	J,H	D,S	
245	--	--	--	J,W	D,S	Dug well, 27 feet with 27 foot drilled well in bottom. Water is reported to scald plants when used for irrigation.
246	--	--	--	J,H	D,S	

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layne-Texas Company.

## Records of wells in Harris County--Continued

No.	Distance from Aldine	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
d/247 e/	5 $\frac{1}{2}$ miles southwest	W. H. Wood	Geo. Walker	--	56+	4	--	--
c/248	do.	E. E. Radenz	E. E. Radenz	--	50+	4	--	--
c/249	7 $\frac{3}{4}$ miles southwest	A. Swanke	--	--	30	36	--	--
c/250	do.	do.	--	--	33	3	--	--
c/251	7 $\frac{1}{2}$ miles southwest	Ed. E. Fox	--	--	50+	--	--	--
c/252	5 $\frac{1}{2}$ miles southwest	Joe Polk	--	--	80	4	--	--
253	2 miles west	J. B. Batman	--	--	21	4	--	--
254	2 $\frac{1}{2}$ miles west northwest	J. M. Blake	U. S. Geological Survey	1931	20	3	--	--
e/255	do.	do.	--	--	41	60	--	--
e/256	do.	do.	H. L. Wilson	1927	189	6	150	39
e/257	3 miles northwest	M. C. Oldham	--	1927	80+	6	--	--
e/258	3 $\frac{3}{4}$ miles northwest	-- Lipper Well 1	Kelly et al	--	3,213	10	--	--
259	4 $\frac{1}{4}$ miles northwest	O. J. Spears	--	1930	35	--	--	--
e/260	5 miles northwest	Steve Pamuk	-- Hardy	1923	112	6	--	--
e/261	5 $\frac{1}{2}$ miles northwest	N. O. Alford	H. L. Wilson	--	200+	5	--	--
262	5 miles north northwest	John Williamson	John Logan	1927	174	6	120	51
c/263	4 miles north	O. D. Heath	O. D. Heath	--	45	6	--	--
264	3 miles north	H. Weary Place	P.S. Griffith	Old	1,610	9	200 650	-- --
e/265	2 $\frac{1}{2}$ miles north	do.	--	Old	--	4	950	--
266	2 $\frac{3}{4}$ miles north northwest	M. C. Oldham	--	1927	80	6	--	--
267	2 $\frac{3}{4}$ miles south southwest	A. J. Covert	A. J. Covert	1931	45	2	41	3
281	3 $\frac{3}{4}$ miles north northeast	M. P. Hodges	M. P. Hodges	1931	27	6	--	--
c/282	4 $\frac{1}{2}$ miles east southeast	L. M. Breno	L. M. Breno	1929	38+	2	--	--
e/283	4 $\frac{1}{2}$ miles southeast	H. Ritter	H. Ritter	--	22	48	22	--
c/284	do.	do.	do.	--	50	6	34 50	-- --
301	12 $\frac{1}{2}$ miles east northeast	J. H. Powell Well 1	Ralph C. Ely et al	--	2,108	--	--	--

## 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			
247	--	--	--	J,H	D,S	
248	--	--	--	J,W	D,S	Weak supply at 20 to 30 feet, strong supply at 40 to 50 feet.
249	--	--	--	J,H	N	Originally was 21 feet dug well with good water but dried up and 10 feet drilled well in bottom brought in bad
250	--	--	--	J,H	D,S	water.
251	--	--	--	J,G, 2	D,S	
252	--	--	--	J,H	D	
253	$\frac{1}{2}$	2.3	Mar. 27, 1931	J,H	S	
254	$\frac{1}{2}$	6.6	Dec. 9, 1931	None	N	Test well used for water level measurements.
255	2	11.7	Mar. 27, 1931	J,W	D,S	Dug well, strong supply.
256	1	26.5	do.	None	N	
257	--	--	--	J,G, $1\frac{1}{2}$	D,S	
258	0	17.0	Nov. 18, 1931	J,G, 2	D,S	Oil test, used as water well, measured depth as 50 feet.
259	--	--	--	J,H	D,S	
260	--	--	--	J,G	D,S	
261	--	--	--	J,E, $\frac{1}{4}$	D,S	
262	--	--	--	J,W	D,S	173 feet of 8-inch casing with screen set at 146 to 169 feet.
263	1	7.1	June 1, 1931	J,W	D,S	
264	1	3.0	May 29, 1931	None	N	Oil test, water flowed from 950 feet sand until 1930.
265	0	1.0	do.	None	N	
266	--	--	--	J,W	D,S	
267	$1\frac{1}{2}$	17.9	June 1, 1931	None	D,S, Ind	New well, pump not yet installed.
281	0	5.7	May 29, 1931	None	D,S	Do.
282	0	5.4	May 28, 1931	J,H	D,S	
283	0	9.5	do.	J,H	D,S	
284	--	--	--	J,H	D,S	Water level reported as 16 feet below ground in summer of 1930. <u>f/</u>
301	--	--	--	None	N	Oil test, see driller's log. Five miles east southeast of Humble.



Records of wells in Harris County--Continued

No.	Distance from Aldine	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/321	In Crosby	Texas & New Orleans R.R.	--	1910?	560+	8	--	--
e/322	do.	T. E. Reidland	T. E. Reidland	1925	270	3	--	--
323	do.	do.	do.	--	237	2	--	--
324	Crosby 1 mile east of	Harris County	do.	1930	76	4	--	--
e/325	Crosby, 1 1/8 miles south of	Harris Service Sta.	do.	1931	247	4	--	--
e/326	Crosby, 2 miles south of	Gulf Pipe Line Co.	Layne-Texas Co.	--	533	2	494	39
e/327	Crosby, 2 1/4 miles south	--	T. E. Reidland	--	220	2	--	--
e/328	Crosby, 2 1/2 miles northeast of	J. Bennett	do.	1931	86+	2	--	--
e/329	Crosby, 4 3/4 miles northeast of	Sam Sampson	Sam Sampson	1928	25	36	--	--
330	Crosby, 5 1/4 miles northeast of	Odem Bros.	--	Old	500+	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.)
351	6 1/2 miles north northwest	--	--	--	--	4	--	--
352	5 1/2 miles north	A. E. Thompson	I. W. Lawson	1909	470	24	45 127 375	66 48 75
e/353	5 1/2 miles north	do.	do.	1905	1,602	6	752 834 990 1,191	51 12 32 27
354	do.	do.	Layne-Texas Co.	1906	442	9-5/8	1,240 1,359	18 11
355	do.	do.	do.	1908	133	24	402 78	40 55
356	4 miles north	--	--	--	--	24	--	--
e/357	4 1/2 miles north northeast	P. V. Cook	--	--	--	30	--	--
358	4 miles north northeast	Freeman Est.	--	--	--	48	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, 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			
321	-3	18.6	Oct. 29, 1931	None	N	Well flowed until about 1920.
322	--	--	--	J, E, 5	P	
323	--	--	--	A	P	
324	3	12.6	Oct. 29, 1931	None	N	Drilled to supply water for building highway.
325	--	--	--	J, E	D, S	Water level reported as 39 feet below ground in 1931. <u>f/</u>
326	1	22.9	Oct. 29, 1931	A, O	D, S, Ind	463½ feet of 6-inch casing and 60 feet of 6-inch screen.
327	0	12.7	do.	J, H	N	
328	--	--	--	A, G, 2	D, S	
329	0	12.8	Oct. 30, 1931	B, H	D, S	Dug well.
330	½	20.4	do.	None	N	

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			
351	½	44.0	Apr. 28, 1931	J, W	D, S	
352	--	--	--	T, E, 35	I	Casing; 68 feet of 24-inch, 11 5/8-inch at 68 to 194 and 8¼-inch at 194 to 450 feet. Screens set at 68 to 180 and 392 to 450 feet. Yield, 780 gallons a minute.
353	--	+	--	F	N	Six-inch casing measured Aug. 18, 1932. set at 1,423 feet. Screens set at 753 to 796, 834 to 853, 984 to 1,028, 1,193 to 1,217, 1,237 to 1,259 and 1,364 to 1,385 feet. See driller's log.
354	--	--	--	None	N	9 5/8-inch casing set at 442 feet. Screen set
355	--	--	--	None	N	Casing; 72 feet of 24-inch and 9 5/8-inch to 134 feet. Screen set at 77 to 129 feet. Well
356	2½	45.5	Mar. 17, 1933	T	N	caved in and abandoned.
357	-1½	35.6	Mar. 24, 1931	T, E, 40	I	Temperature 71° F.
358	0	15.9	do.	T, E, 20	I	Casing; 100 feet of 24-inch and 11 5/8-inch to bottom.

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layne-Texas Company.

## Records of wells in Harris 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.)
359	5½ miles north northeast	H. F. Jordan	I. W. Lawson	1914?	140	24	--	--
360	4½ miles north northeast	E. G. Stockdick	--	1907	180	72	--	--
e/361	6½ miles northeast	Acme Planting & Developing Co.	A. T. Jones	1929	368	12	--	--
e/362	4 miles northeast	E. G. Stockdick	--	1930	500+	24	--	--
e/363	3 miles northeast	F. M. Morton	I. W. Lawson	1930	188	18	--	--
364	1½ miles east northeast	John Cape	Lawson & Hardin	1925	789	24	--	--
e/365	In Katy	M. K. & T. R.R.	--	--	202	120	55 160 200	-- -- --
366	1¼ miles east	H. C. Lamb	--	--	180	12	--	--
367	3¼ miles east northeast	W. C. Hickman	Layne-Texas Co.	1930	535	16	113 194 317 378	12 41 44 31
e/368	do.	do.	--	--	36	--	--	--
369	3 miles east	J. M. Johnson	Layne-Texas Co.	1929	110	4	90	20
d/370 e/	do.	do.	do.	1929	625	18	94 171 296 403 524	37 56 33 17 80
371	3 miles southeast	L. T. Morrison	I. W. Lawson	1925	374	24	--	--
381	7½ miles northeast	--	--	--	95+	6	--	--
382	6 miles northeast	C. Stockdick	--	1919?	185	24	--	--
383	do.	do.	Hardin & Lawson	1925?	380	24	--	--
384	do.	A. J. Jordan	I. W. Lawson	1930	505	18	--	--
385	do.	do.	Layne-Texas Co.	1931	359	18	--	--
386	5¾ miles east	W. R. Euten	Will Justman	1911?	254	24	--	--
e/387	4¾ miles east	H. B. Crowder	--	--	--	72	--	--
e/388	6½ miles east	--	--	--	180+	24	--	--

## 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			
359	--	--	--	None	N	
360	--	--	--	T, E, 20	I	Yield, 630 gallons a minute, Aug. 17, 1932.
361	0	29.2	Mar. 12, 1931	T, E, 50	I	Temperature 71° F. Yield, 1,200 gallons a minute, Aug. 10, 1932.
362	1	32.8	do.	T, E, 40	I	Temperature 73° F. Yield, 1,240 gallons a minute, Aug. 17, 1932.
363	--	--	--	T, E, 20	I	Yield, 525 gallons a minute, Aug. 20, 1932. Water level was 38 feet below
364	--	--	--	T, E, 75	I	Yield, 1,440 gallons a minute, Aug. 17, 1932. <u>ground when drilled. f/</u>
365	--	--	--	J	RR	Dug well 55 feet deep with 2 drilled wells in bottom, 162 and 202 feet deep.
366	$-\frac{1}{2}$	37.2	Mar. 12, 1931	None	N	Automatic water stage recorder installed on this well from May, 1931 to Feb.,
367	--	36	May, 1930 <u>f/</u>	T, E	I	Casing; 150 feet of 16-inch, 12-inch at 138 to 301 and 10-inch at 301 to 412 feet. Screens set at 110 to 125, 195 to 232, 318 to 358 and 377 to 407 feet. Yield 1,110 gallons a minute, Aug. 2, 1932.
368	--	--	--	J, H	D, S	
369	--	28	Mar. 1929 <u>f/</u>	J, G	D, S	Casing; 42 feet of 4-inch and 3-inch to bottom. Screen set at 104 to 110 feet.
370	0	34 36.3	Jan. 1929 <u>f/</u> Mar. 12, 1931	T, E, 75	I	Casing; 18-inch at 0 to 120, 16-inch at 120 to 164, 12-inch at 138 to 340, and 10-inch at 340 to 609 feet. Screen set at 119 to 129, 177 to 218, 299 to 320, 408 to 418 and 539 to 600 feet. Yield, 1,630 gallons a minute, Aug. 2, 1932.
371	--	--	--	T, E, 50	I	Casing; 70 feet of 24-inch, 10-inch to 200, and 8-inch to bottom. Yield, 1,100 gallons a minute, Aug. 19, 1932. Temperature 73° F.
381	$2\frac{1}{2}$	25.6	Mar. 12, 1931	None	N	
382	--	--	--	T, G	N	One hundred feet of 24-inch casing and 12-inch to bottom.
383	--	--	--	T, E, 50	I	Casing; 65 feet of 24-inch, 185 feet of 10-inch and 6-inch to bottom. Yield, 1,310 gallons a minute, August 17, 1932.
384	1	34.7	Mar. 17, 1933	None	N 4	Casing; 100 feet of 18-inch, 100 feet of 12-inch, 100 feet of 8-inch and 6-inch to bottom. Well did not yield
385	--	37.2	do.	T, E, 60	I	Casing; 125 feet of 18-inch and 12 $\frac{1}{2}$ -inch to bottom. Yield, 1,420 gallons a minute, August 17, 1932.
386	--	--	--	T, O, 32	I	Yield, 990 gallons a minute, Aug. 1, 1932.
387	2	40.7	Sept. 14, 1932	None	N	Abandoned rice well, has 6-foot pit about 40 feet deep with drilled well in
388	$1\frac{1}{2}$	29.5	do.	J, W	S	Formerly used for rice irrigation. <u>bottom.</u>

Records of wells in Harris 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.)
e/389	7½ miles east southeast	John Wendling	--	1912?	50+	4	--	--
e/390	8½ miles east southeast	-- Fitch	--	1918	33	2½	--	--
391	8¾ miles east	Mrs. -- Murphy	--	1910?	--	24	--	--
e/392	8 miles east	W. A. Euten	J. A. Matzke	1930	24	3	--	--
e/393	do.	-- Paddock	do.	1932	72	3	--	--
394	do.	-- Hammond	-- Hammond	1909?	37	3	--	--
e/395	7½ miles east northeast	A. J. Jordens	Chas. Schultz	1917	120	3	--	--
e/396	8 miles east northeast	H. Speckmaier	do.	1914	94	3	--	--
e/397	9¼ miles east northeast	August Otto	do.	--	--	3	--	--
398	9½ miles northeast	Gertie Rice Farm	I. W. Lawson	1906	280	24	117 171 229 242	38 49 10 30
e/399	9½ miles northeast	do.	do.	1906	326	30	65 167 182 234 269	63 3 11 26 10
400	11 miles northeast	-- Schmidt Est.	Schmidt Bros.	1926	258	12	--	--
e/401	12 miles northeast	W. H. Grisbee	W. H. Grisbee	1921	45	4	--	--
e/402	11 miles east northeast	Wm. Druessedow	Chas. Schultz	--	52	4	--	--
e/403	10½ miles east northeast	O. Beckendorf	O. Beckendorf	--	27	1½	--	--
e/404	10½ miles east	Bear Creek Gun Club	--	--	100+	3	--	--
e/405	10¾ miles east	Schulz Bros.	-- Schulz	--	34	4	--	--
e/406	do.	Addicks School	--	--	105	3	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, irrigation; Ind, industrial; RR, railroad; D, domestic; S, stock; E, 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			
389	--	--	--	J,W	D,S	
390	0	7.8	Sept. 21, 1932	None	N	
391	1	13.2	Sept. 2, 1931	None	N	
392	--	--	--	J,H	D	Barker School.
393	--	--	--	J,H	S	At Barker.
394	1	16.8	Sept. 2, 1931	J,H	D,S	
395	--	--	--	J,W	D,S	
396	--	--	--	J,W	D,S	
397	--	--	--	J,H	D,S	
398	-3	7.2	Aug. 5, 1931	T, None	N	Casing; 55 feet of 24-inch, 165 feet of 9 5/8-inch and 6-inch set to 272 feet. Screens set at 125 to 154, 170 to 220, 228 to 238, and 238 to 246 feet.
399	--	--	--	T, O	I	Casing; 63 feet of 30-inch, and 11 5/8-inch set at 281 feet. Screens set at 79 to 143, 165 to 172, 183 to 193, 234 to 262 and 269 to 279 feet. Yield, 1,240 gallons a minute. August 1, 1932.
400	--	--	--	T, G	I	Casing; 60 feet of 12-inch, 100 feet of 8-inch and 6-inch to bottom. Yield, 560 gallons a minute, Aug. 1, 1932.
401	--	--	--	J, G, 2 1/2	D, S	Temperature 70° F.
402	--	--	--	J, W	D, S	
403	--	--	--	J, W	D, S	
404	--	--	--	J, H	D	
405	--	--	--	J, E, 1/8	D	At Addicks.
406	-5	16.7	Sept. 3, 1931	J, E, 1/8	P	

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layne-Texas Company.

Records of wells in Harris County--Continued

No.	Distance from Fairbanks	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/421	4 $\frac{3}{4}$ miles west	Frank Edwards	Frank Edwards	--	70	1 $\frac{1}{2}$	--	--
e/422	5 miles west southwest	J. C. Byers	--	--	--	3	--	--
e/423	6 $\frac{1}{2}$ miles southwest	-- Koehn	Chas. Schultz	--	107	4	105	2
d/424	do.	L. Gastmann	--	--	20	36	--	--
e/425	6 miles southwest	J. J. Settegast Jr.	--	--	80+	4	--	--
e/426	5 $\frac{1}{4}$ miles south southwest	F. L. Sheckels	O. Luckenmeyer	--	42	3	--	--
c/427	4 $\frac{1}{2}$ miles southwest	G. C. Cox	--	--	55	4	--	--
e/428	3 miles west southwest	H. A. Seathoff	H. A. Seathoff	--	20	3	12	8
429	3 $\frac{1}{2}$ miles west southwest	--	--	--	26	4	--	--
430	2 miles west	G. E. Wilkins	Shelby or Lawson	1923?	2,000+	12	--	--
e/431	do.	do.	do.	1923?	200+	6	--	--
e/432	1 $\frac{3}{4}$ miles west	do.	--	--	--	3	--	--
d/433	2 $\frac{3}{4}$ miles west	L. Z. Pledger	Ed. Haven	1924	41	6	34	--
e/434	do.	do.	-- Tanner	1930	58	4	--	--
e/435	2 $\frac{1}{4}$ miles northwest	R. C. Peters	do.	1928	45	4	--	--
e/436	1 $\frac{3}{4}$ miles northwest	G. F. Brown	Carl Schultz	1930	49	4	34	15
37	do.	do.	U. S Geological Survey	1931	17	3	--	5
e/438	1 $\frac{1}{4}$ miles northwest	W. A. Summermyer	-- Tanner	1917?	56	6	--	--
d/439	$\frac{1}{2}$ mile northwest	F. V. Tanner	--	1896	57	4	--	--
440	do.	C. W. Hahl	U. S. Geological Survey	1931	16	3	--	--
e/441	$\frac{1}{4}$ mile northwest	J. F. Bloodworth	--	--	70	5	--	--
e/442	$\frac{1}{2}$ mile north northwest	Fairbanks School	-- Tanner	--	55+	--	--	--
e/443	$\frac{3}{4}$ mile north	J. F. Bane	--	--	50+	--	--	--
e/444	$\frac{1}{2}$ mile north	J. Stevens	J. Stevens	1926	10	6	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, 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			
421	--	--	--	J,H	D,S	Driven well with sand point on bottom of casing.
422	--	--	--	J,G, 1 $\frac{1}{2}$	D,S	
423	--	--	--	J,H	D,S,I	
424	--	--	--	J,H	D	
425	--	--	--	J,H	S	
426	--	--	--	J,H	D	
427	--	--	--	J,H	D	
428	--	--	--	J,W	D,S	
429	1	11.3	July 27, 1932	None	N	Drilled to supply water for drilling oil test.
430	1	5.3	June 24, 1932	None	N	Abandoned oil test.
431	5	+	--	Flow	S	Flow estimated at 100 gallons a minute, 5 feet above ground. Temperature 87° F
432	--	--	--	J,H	D,S	
433	--	--	--	J,G	D,S	
434	--	--	--	J,E, 1 $\frac{1}{2}$	D,S	
435	1	6.3	May 19, 1931	J,E, 1 $\frac{1}{2}$	D,S	
436	--	--	--	J,E, 1 $\frac{1}{2}$	D	
437	$\frac{1}{2}$	5.2	May 14, 1931	None	N	Test well used for water level measurement.
438	--	--	--	J,H	D,S	
439	2	5.1	Apr. 2, 1931	J,W	D,S	
440	$\frac{1}{2}$	8.7	May 19, 1931	None	N	Test well used for water level measurement.
441	0	5.3	do.	J,E	D,S	
442	--	--	--	J,E	P	
443	--	--	--	J,W	D,S	
444	2	5.4	Apr. 9, 1931	J,H	S	

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layno-Texas Company.



## Records of wells in Harris County--Continued

No.	Distance from Fairbanks	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/445	$\frac{3}{4}$ mile north northeast	H. Collett	H. Collett	1923	72	4	--	--
d/446 e/	$\frac{3}{4}$ mile northeast	C. W. Hahl Co.	-- Tanner	1930	60	4	--	--
e/447	$\frac{3}{4}$ mile east northeast	L. A. Reneau	L. A. Reneau	1912	20	6	--	--
e/448	1 mile east northeast	C. Schmidt	--	--	--	--	--	--
e/449	1 mile northeast	J. C. Guhn	J. C. Guhn	1916	44	6	--	--
450	$\frac{1}{2}$ mile north	C. W. Hahl Co.	--	--	90	10	--	--
e/451	$\frac{1}{2}$ mile north northeast	John Reese	-- Tanner	--	55	3	--	--
e/452	$\frac{1}{4}$ mile north	Henry Lange	--	1915	39	6	--	--
453	In Fairbanks	Mrs. -- Shulbert	-- Tanner	1929	55+	--	--	--
d/454 e/	do.	H. & T. C. R.R.	--	Old	124	16 feet	--	--
e/455	$\frac{1}{2}$ mile southeast	Aug. Walla	Aug. Walla	1931	47	4	18	25
456	do.	Frank Willberg	Layne-Texas Co.	1930	230	6	205	20
e/457	do.	do.	-- Tanner	1930	75+	--	--	--
e/458	$1\frac{3}{4}$ miles southeast	R. D. Wirt	-- Wright	1900?	300+	3	--	--
459	$1\frac{1}{2}$ miles southeast	C. W. Hahl	U. S. Geological Survey	1931	20	3	--	--
e/460	$1\frac{1}{2}$ miles south	T. Reuh	M. R. Pretty	1932	138	4	118	--
e/461	$1\frac{3}{4}$ miles south	R. F. Falk	H. Sauer	--	35	4	--	--
e/462	$2\frac{1}{4}$ miles south	J. L. Sampson	do.	1931	60+	3	--	--
e/463	$3\frac{1}{4}$ miles south southeast	C. E. Bang	--	Old	40+	2	--	--
e/464	do.	H. O. Bard	H. O. Bard	Old	24	36	--	--
d/465 e/	$3\frac{3}{4}$ miles south southwest	W. R. Sonnen	--	1926	30+	3	--	--
e/466	$4\frac{1}{2}$ miles south southwest	Bauer Lumber Co.	--	--	50	3	--	--
467	do.	Texas State Highway	--	1918?	800+	--	--	--
e/468	$4\frac{1}{2}$ miles south	H. A. Riedel	--	--	42	3	--	--
e/469	$5\frac{1}{4}$ miles south	S. T. Berry	--	--	40+	3	--	--
e/470	6 miles south	Henry Sauer	H. Sauer	--	75	3	--	--

## Penn Livingston and Samuel T. 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			
445	--	--	--	J,H	D,S	
446	1	3.5	Apr. 9, 1931	J,H	D,S	
447	--	--	--	J,H	D,S	
448	--	--	--	A,E	D,S	
449	--	--	--	J,H	D,S	
450	1	4.6	Apr. 2, 1931	None	N	Abandoned rice well, 300+ feet deep, is 20 feet south of this well.
451	$\frac{1}{2}$	2.9	do.	J,H	S	
452	--	--	--	J,W	D,S	
453	--	--	--	--	--	Tested for use in construction of concrete pavement at 200 gallons a minute.
454	2	4.5	Apr. 2, 1931	J,G, 6	D,S	Dug well 16 feet in diameter and 29 feet deep with 6-inch drilled well to 124 feet.
455	3	4.5	do.	J,H	D,S	
456	$\frac{1}{4}$	30.0	do.	None	N	Casing; 194 feet of 6-inch and 4-inch to bottom. Screen set at 198 to 220 feet.
457	$1\frac{1}{2}$	3.2	do.	A,E	D,S	
458	--	--	--	A,G	D,S	Ceased flowing about 1910.
459	$\frac{1}{2}$	9.5	Aug. 13, 1931	None	N	Test well used for water level measurements.
460	--	--	--	A,G, 20	I	Casing; 118 feet of 4-inch with 20 feet of 20 gauge sound wire screen. Tested at 75 gallons a minute when drilled. f/
461	--	--	--	J,H	D,S	
462	--	--	--	J,G	D,S	
463	--	--	--	J,G	D,S,I	
464	--	--	--	J,H	D,S	
465	--	--	--	J,G, 2	D,S	
466	--	10.5	June 27, 1932	J,H	D	
467	2	33.6	Sept. 16, 1932	None	N	At Hillendahl.
468	--	--	--	J,G	D,S	
469	--	--	--	J,H	D,S	
470	--	--	--	J,H	D,S	

Records of wells in Harris County--Continued

No.	Distance from Fairbanks	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/471	6 $\frac{1}{2}$ miles south	C. N. Ogden	Layne-Texas Co.	--	183	3	163	20
e/481	12 $\frac{1}{2}$ miles southwest	Chris Pillot	Ed. Beeler	1912	102	3	--	--
e/482	10 $\frac{1}{2}$ miles southwest	T. Gasaway	T. Gasaway	1921	50	2	--	--
e/483	9 $\frac{3}{4}$ miles southwest	V. Foster	V. Foster	1925	126	3	--	--
491	8 $\frac{1}{4}$ miles south southwest	W. F. Schneider	W. F. Schneider	1912?	113	2	--	--
d/492	8 $\frac{3}{4}$ miles south	G.H. & S.A. R.R.	G. C. Warnecke	--	220	9- 5/8	180	40
e/493	15 miles south	T. X. Schuchert	-- Nichols	1931	37	2	--	--
e/494	do.	A. H. Eicke	Layne-Texas Co.	1928	334	6	246	85
495	do.	E. C. McDonald	J. Hobbs	1931	327	2	318	9
496	15 $\frac{1}{2}$ miles south	Diamond "L" Ranch	Layne-Texas Co.	1928	315	6	267	48

No.	Distance from Houston Post Office	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/501	10 $\frac{1}{2}$ miles northwest	F. Christoph	F. Christoph	--	28	2	--	--
e/502	9 $\frac{3}{4}$ miles northwest	J. A. Grein	J. A. Grein	1930	27	1 $\frac{1}{2}$	--	--
e/503	9 $\frac{1}{2}$ miles northwest	B. E. Eisman	--	--	105	4	--	--
e/504	do.	A. B. Smith	A. B. Smith	--	35	4	--	--
e/505	8 $\frac{3}{4}$ miles northwest	Mrs. -- Rogers	--	--	80+	--	--	--
e/506	8 $\frac{1}{4}$ miles northwest	White Oak School	--	--	30+	1 $\frac{1}{2}$	--	--
e/507	9 $\frac{1}{4}$ miles west northwest	Otto Adams	Chas. Schultz	--	175	3	--	--
e/508	9 $\frac{1}{2}$ miles west northwest	W. Hearold	J. W. Kanaly	1931	175+	3	--	--
e/509	do.	do.	A. E. Fawcett	1931	51	3	48	3

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, 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			
471	--	--	--	J,G, 1½	D,S	Casing; 177 feet of 3-inch with 6 feet of 3-inch screen to 183 feet. Tested at 400 gallons a minute when drilled.f/
481	--	--	--	J,G	D,S	Two miles north of Clodine.
482	--	--	--	J,W	S	
483	--	--	--	J,H	D	
491	--	--	--	J,H	D,S	One and three-quarters miles north northeast of Alief.
492	--	--	--	--	RR	At Jeannotta. Railroad reports 33,000 gallons a day pumped from this well. Nine and five-eighths casing from top to 220 feet with 28½ feet of screen at
493	--	--	--	J,E	D,S	bottom.
494	0	20	F.b., 1928 f/	J,E	D,S	Casing; 296 feet of 6-inch with 4-inch to bottom. Screen set at 288 to 310
495	0	25	May 28, 1931 f/	J,H	D	feet.
496	0	24	June 9, 1928 f/	J,W	D,S	Casing; 64 feet of 6-inch and 4-inch to bottom. Screen set at 292 to 315 feet.

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			
501	--	--	--	J,G, 2	D,S	
502	--	--	--	J,G, 1½	D,S	
503	--	--	--	J,W	D,S	
504	--	--	--	J,H	D,S	
505	--	--	--	J,G, 1½	D,S	
506	--	--	--	J,H	D	
507	--	--	--	J,G, 3	D,S	Water level was 20 feet below surface when well was drilled.
508	1	7.3	May 21, 1931	J,E	D,S	
509	--	--	--	J,E	D,S	

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layno-Texas Company.

## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	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/510	9 $\frac{1}{8}$ miles west northwest	W. Hearold	--	--	25+	6	--	--
511	9 $\frac{1}{4}$ miles west northwest	Henry Kochler	-- Tanner	1929	52	6	--	--
e/512	8 $\frac{3}{8}$ miles west northwest	Ed. Nichols	--	1927	50	6	--	--
513	8 miles west northwest	-- Jancy	--	--	31	6	--	--
514	do.	--	U S. Geological Survey	1931	19	3	--	--
e/515	7 $\frac{1}{2}$ miles northwest	Melrose Stock Farm	--	--	65	4	--	--
e/516	do.	-- Sabbath	-- Sabbath	--	110+	--	--	--
517	7 miles west northwest	J. W. Beall	Buffalo Oil Co.	1929	4,600	24	--	--
518	do.	do.	do.	1929	153	6	--	--
e/519	6 $\frac{3}{4}$ miles west northwest	F. M. Myers	-- Tanner	1930	52	4	--	--
e/520	7 $\frac{1}{2}$ miles west northwest	Woodland Cemetery	J. W. Kanaly	1932	158	3	--	--
e/521	8 miles west northwest	M. R. Pretty	--	--	90+	4	--	--
e/522	6 miles west northwest	Bethel Cemetery	--	--	--	--	--	--
e/523	do.	M. L. Hilton	M. L. Hilton	--	60+	4	--	--
e/524	6 $\frac{1}{4}$ miles west northwest	W. T. Carter Jr.	Layne-Texas Co.	1929	293	6	226 273	21 20
e/525	6 miles west	H. C. Weiss	--	1930	173	6	140	33
e/526	6 $\frac{1}{4}$ miles west	C. H. Barnes	--	Old	80+	--	--	--
e/527	6 miles west	Chas. Fitch	--	--	150+	--	--	--
e/528	6 $\frac{1}{2}$ miles west	Judge Kennelly	A. E. Fawcett	1932	250	4	--	--
e/529	5 $\frac{3}{4}$ miles west	T. Bertani	do.	--	70	4	--	--
560	do.	do.	do.	1924?	165+	4	--	--
e/561	do.	U. H. Valintine	--	Old	118	--	--	--
e/562	do.	C. V. Wiseman	-- Powell	1932	118+	4	--	--
e/563	5 $\frac{1}{4}$ miles west	Tall Timber Stables	--	--	500+	3	--	--
e/564	5 miles west northwest	Hagan Service Station	--	--	--	--	--	--

## 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 measure- ment			
510	$\frac{1}{2}$	3.7	May 30, 1931	J,H	D,S	
511	--	--	--	J,G, 3	I	
512	$\frac{1}{2}$	5.4	Mar. 20, 1931	A,E	D,S	
513	2	10.4	May 23, 1931	None	N	
514	$\frac{1}{2}$	11.8	June 19, 1931	None	N	Test well used for water level measure- ments.
515	--	--	--	J,G, 2	D,S	
516	--	--	--	J,H	D,S	
517	1	6.7	May 21, 1931	None	N	Abandoned oil test. Casing pulled and present well about 50 feet deep.
518	1	34.6	do.	None	N	Well used to supply water for drilling oil test.
519	1	5.4	Mar. 30, 1931	J,E	D,S	
520	--	--	--	A,G, 5	D,S,P	
521	--	--	--	J,E	D,S	
522	--	--	--	J,G	D,S,I	
523	--	--	--	J,H	D,S	
524	0	30	July 3, 1929 f/	T,E, 5	D,S	Casing; 225 feet of 6-inch, 66 feet of 4 $\frac{1}{2}$ -inch and 3-inch to bottom. Screens set at 225 to 247, and 274 to 294 feet. Yield, 110 gallons a minute when com-
525	0	40	July 26, 1930 f/	J,E, 1 $\frac{1}{2}$	D,S	Casing; 172 feet of 6-inch <u>pleted. f/</u> with screen set at 148 to 170 feet. Yield, 20 gallons a minute when complet-
526	--	--	--	J,H	D,S	<u>ed. f/</u>
527	--	--	--	J,H	D,S	
528	--	--	--	J,H	D,S	
529	--	--	--	J,G, 1 $\frac{1}{2}$	D,S	Also has 2 dug wells about 40 feet deep.
560	1	31.6	June 20, 1932	None	N	
561	--	--	--	--	D,S	
562	--	--	--	A,G	D,S	Also have dug well about 40 feet deep.
563	--	--	--	A,G, 1 $\frac{1}{2}$	D,S	
564	--	--	--	--	D,S	

## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	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/565	5 miles west northwest	L. R. Bennett	--	Old	--	3	--	--
e/566	do.	Ida Zohn	M. R. Pretty	1932	204	4	190	--
e/567	4 $\frac{3}{4}$ miles west northwest	L. H. Georgi	--	1912?	53 $\frac{1}{2}$	4	--	--
d/568 e/	5 $\frac{1}{2}$ miles west northwest	W. M. Volmer	--	--	31	36	--	--
e/569	5 $\frac{1}{2}$ miles west northwest	N. Y. Niemann	--	--	40	36	--	--
e/570	5 $\frac{1}{4}$ miles northwest	O. M. Perkins	O. M. Perkins	1932	54	3	--	--
e/571	5 $\frac{1}{2}$ miles northwest	F. R. Schawath	--	--	260 $\frac{1}{2}$	--	--	--
e/572	5 $\frac{3}{4}$ miles northwest	J. G. Alexander	--	1931	120	3	--	--
e/573	6 miles northwest	-- Beinhorn	-- Beinhorn	--	255	2	--	--
e/574	6 $\frac{1}{4}$ miles northwest	Ed. Pendarvis	A. E. Fawcett	1932	300 $\frac{1}{2}$	2	--	--
d/575 e/	6 miles northwest	Heights Golf Course	-- Pollock	1932	162	3	--	--
e/576	5 $\frac{3}{4}$ miles northwest	Bill Monk	Bill Monk	--	120	3	--	--
e/577	9 miles northwest	John Rinkel	--	--	50 $\frac{1}{2}$	2 $\frac{1}{2}$	--	--
e/578	8 $\frac{1}{2}$ miles north northwest	-- Wright	--	--	48	3	--	--
d/579 e/	7 $\frac{1}{4}$ miles north northwest	G. E. Mack	G. E. Mack	1900	35	8	--	--
e/580	6 $\frac{3}{4}$ miles north northwest	V. McVaney	-- Wilson	1931	138	4	--	--
e/581	6 $\frac{1}{2}$ miles north northwest	H. R. Kerley	H. R. Kerley	--	44	2	--	--
582	5 $\frac{3}{4}$ miles north northwest	C. Terregrossa	A. E. Fawcett	1928	145	3	--	--
e/583	5 $\frac{1}{2}$ miles north northwest	J. W. Herridge	--	Old	90	36	--	--
e/584	do.	J. C. Lawton	--	1925	45	4	--	--
e/585	4 $\frac{1}{2}$ miles north	Houston Textile Mills	Taylor & Roberts	1924?	950	12	--	--
e/586	4 $\frac{1}{2}$ miles northwest	Heights Ice Co.	McMasters & Pomaroy	1927?	305	10	224 261	19 44
587	do.	South Texas Cotton Oil Co.	Layne-Texas Co.	1921	654	--	132 388	40 29
e/588	do.	Oriental Textile Mills	--	1909	800 $\frac{1}{2}$	6	589 --	66 --
d/589 e/	4 $\frac{1}{4}$ miles northwest	City of Houston	Layne-Texas Co.	1931	2,090	24	--	--
590	do.	do.	do.	1923	1,362	24	559 614 677 872 971	20 42 86 29 78

## 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			
565	--	--	--	J, E	D, S	
566	--	--	--	J, W	D, S	
567	--	--	--	J, H	D, S	
568	--	--	--	J, H	D, S	Dug well.
569	--	--	--	--	D, S	Do.
570	--	--	--	J, H	I	
571	--	--	--	--	--	
572	--	--	--	J, G	D, S	
573	--	--	--	A, G	D, I	
574	--	--	--	--	--	
575	--	--	--	A, G, 5	D, I	
576	--	--	--	J, H	D, S	
577	--	--	--	J, H	D, S, I	
578	--	--	--	J, H	D, S	
579	--	--	--	J, E, $\frac{1}{4}$	D	
580	--	--	--	J, H	D, S	
581	--	--	--	J, E, $\frac{1}{4}$	D	
582	--	--	--	A, E, 5	D, S, I	
583	--	--	--	J, H	D, S	
584	--	--	--	J, E, $\frac{1}{4}$	D, S	
585	1 $\frac{1}{2}$	54.6	Mar. 21, 1931	A, E, 15	D, Ind	
586	--	49	Mar. 7, 1929 f/	T, E, $\frac{1}{2}$	D, Ind	
587	--	43	Aug. 22, 1929 f/	None	N	Screens set at 143 to 163, 391 to 415, and 611 to 652 feet. Well reported
588	--	--	--	A, S	D, Ind	caved.
589	--	--	--	T, E, 150	P	Flowed when drilled.
590	0	55.7	Jan. 23, 1931	T,	N	Casing; 79 feet of 24-inch, 22 feet of 12-inch and 8-inch to 1,040 feet. Screens set at 514 to 564, 579 to 676, 692 to 740, 883 to 926, and 969 to 1,035 feet. Temperature 80 $\frac{10}{8}$ ° F. $\frac{3}{4}$ /



## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
591	4 $\frac{1}{4}$ miles northwest	City of Houston	--	--	--	--	--	--
d/ 592	4 miles northwest	do.	Layne-Texas Co.	1928	1,271	24	677	570
593	3 miles north northwest	Port City Ice Co.	do.	1927	359	10	156 282	69 36
594	3 miles northwest	Community Ice Co.	McMasters & Pomeroy	1927	250	8	173 207 220	30 8 30
595	3 $\frac{1}{2}$ miles northwest	International Vegetable Oil Co.	--	1917?	--	8	--	--
596	3 $\frac{1}{4}$ miles northwest	Swift & Co.	--	1911?	--	10	--	--
597	3 miles northwest	Community Cotton Oil Co.	--	1893	840	--	--	--
598	4 $\frac{1}{2}$ miles west northwest	-- Brooks Est.	--	--	--	6	--	--
599	3 $\frac{1}{4}$ miles west northwest	Houston Ice & Cold Storage Co.	Layne-Texas Co.	1922	583	12	181 287 532	50 38 30
d/600	3 miles west northwest	City of Houston	do	1917	558	24	109 267 490	30 55 63
d/601	do.	do.	do.	1918	1,465	24	668	664
e/602	4 miles west	River Oaks Country Club	do.	1929	1,038	10	675	189
603	2 $\frac{1}{2}$ miles west northwest	Guardian Trust Co.	--	Old	--	--	--	--
604	do.	West End Ice Co.	--	--	--	8	--	--
605	2 miles west northwest	Dickson Car Wheel Co.	Taylor & Roberts	1905?	900+	10	--	--
606	do.	Henke & Pillot	--	Old	575	6	290 391	45 19
e/607	do.	do.	McMasters & Pomeroy	1929	571	6	520 515	52 56
e/608	1 $\frac{3}{4}$ miles west northwest	Fidelity Products Co.	Layne-Texas Co.	1906	350	6	320	30
e/609	do	do.	--	1920?	825	8	--	--
e/610	do.	Standard Rice Milling Co.	Layne-Texas Co.	1908	853	6	760	78

## 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			
591	--	--	--	T, E, 75	P	
592	--	--	--	T, E, 150	P	Casing; 260 feet of 24-inch and 12-inch to 1,271 feet. Screens set at 677 to 698, 788 to 827, 875 to 895, 966 to 1,003, 1,072 to 1,091, 1,110 to 1,123, 1,156 to 1,176, and 1,197 to 1,253 feet.
593	--	55	Aug. 8, 1927 <u>f/</u>	T, E, 15	D, Ind	Casing; 313 feet of 10-inch. Screens set at 163 to 216 and 279 to 309 feet.
594	--	54 66.8	Mar. 13, 1928 <u>g/</u> Mar. 4, 1931	T, E	Ind	Set screen at <u>Temperature 72° F. f/</u> 173 to 203, 207 to 215, and 220 to 230 feet. Well was deepened to 465 feet in 1932.
595	9½	66.4	Jan. 23, 1931	A, S	Ind	
596	2	47.8	do.	A, S	Ind	
597	1	49.7	Jan. 11, 1931	A, S	Ind	
598	0	43.8	Mar. 20, 1931	None	N	
599	--	--	--	T	N	Casing; 79 feet of 12-inch and 6-inch to bottom. Screens set at 178 to 220, 299 to 319, and 540 to 561 feet.
600	--	20	Oct. 19, 1928 <u>h/</u>	T, E, 50	P	Casing; 95 feet of 24-inch and 13-inch to bottom. Screens set at 114 to 139, 269 to 322 and 495 to 553 feet. Yield, 900 gallons a minute with 60 feet draw-down, Oct. 19, 1928. <u>h/</u>
601	--	+18	Nov. 25, 1918 <u>h/</u>	T, E	P	Casing; 98 feet of 24-inch, 10-inch to 620 feet and 8-inch to bottom. Screens set at 686 to 708, 736 to 754, 795 to 850, 1,188 to 1,209, 1,226 to 1,266 and
602	2	48.5	Jan. 19, 1931	T, E, 30	P, I	Casing; 10-inch <u>1,311 to 1,332 feet.</u> to 776 feet and 8-inch to 887 feet. Well was originally 776 feet deep but was reworked and screens set at 673 to
603	2	60.3	Mar. 20, 1931	None	N	<u>864 feet.</u>
604	1½	71.3	Jan. 23, 1931	A	Ind	
605	--	--	--	A	Ind	
606	½	58.5	Jan. 22, 1931	None	N	
607	--	59	Aug. 15, 1929 <u>f/</u>	A, E	Ind	
608	3	69.4	Jan. 23, 1931	A	Ind	Three hundred and fifty feet of 6-inch casing with screen set at 315 to 350
609	3½	80.3	do.	A	Ind	<u>feet.</u>
610	--	51	Jan. 25, 1931	A	Ind	Eight hundred and forty nine feet of 6-inch casing with screen set at 807 to 849 feet.

Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
611	1½ miles northwest	Houston Car Wheel Co.	--	--	--	6	--	--
612	do.	Pheffer Rice Mill	--	1905?	300+	6	--	--
613	do.	Saxet Ice Cream Co.	--	Old	200+	4	--	--
614	do.	do.	--	--	800+	8	--	--
615	do.	do.	McMasters & Pomeroy	--	625	24	330 370 497	27 24 38
616	1 mile west northwest	City of Houston	Layne-Texas Co.	1927	1,975	24	546 904 1,121 1,368 1,417	58 18 72 176 18
617	do.	do.	do.	1927	1,509	24	888	--
618	do.	do.	do.	1927	1,944	24	893	--
619	do.	do.	--	--	--	6	--	--
d/620 e/	1½ miles west southwest	Public Laundries	Layne-Texas Co.	1927	1,379	6	1,282	95
621	do.	South End Ice Co.	--	--	560+	10	--	--
622	do.	do.	--	--	360+	8	--	--
d/651 e/	7½ miles north	Tony Frank	--	1927	60+	2¾	--	--
653	8 miles north northeast	August Grabe	August Grabe	--	40+	4	--	--
d/654 e/	5½ miles north	H. A. Burden	H. A. Burden	1929	110+	3	58?	--
e/655	4½ miles north	J. W. Lambert	--	1926	53	2	--	--
e/656	do.	Texas Greasoting Co.	McMasters & Pomeroy	--	665	8	622	40
657	4 miles north	Robert Linder	do.	1924?	672	6	--	--
658	3¾ miles north	S. V. Danna	--	--	215	4	--	--
659	3¾ miles north northeast	Waldena Tourist Camp	--	--	40+	3	--	--
660	do.	do.	--	--	80+	3	--	--

## Ponn 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			
611	--	--	--	A	Ind	
612	2	64.3	Jan. 22, 1931	A	Ind	
613	--	--	--	A	Ind	
614	--	--	--	A	Ind	
615	--	--	--	T, E, 30	Ind	Casing; 73 feet of 24-inch and 8-inch to bottom. Screens set at 339 to 361, 376 to 398, 498 to 540 and 561 to 605
616	--	71	May 18, 1928 h/	T, E, 125	P	Casing; 250 feet of 24-inch, 20 feet of 1.8-inch and 12-inch to 1,456 feet. Screens set at 894 to 914, 1,150 to 1,190, 1,249 to 1,401, and 1,416 to 1,438. Temperature 82 $\frac{1}{2}$ <sup>o</sup> F. h/ Sixteen feet drawdown, pumping 710 gallons
617	--	28 76	Apr., 1927 h/ July 23, 1931 h/	T, E, 125	P	Casing; 252 feet of 24-inch, 12-inch set at 1,503 feet. Screens set at 889 to 911, 932 to 953, 1,139 to 1,179, 1,249 to 1,324, 1,340 to 1,379, and 1,425 to 1,484 feet. a minute, May 21, 1907. h/
618	--	66.8	July 23, 1931 g/	T, E, 125	P	Casing; 263 feet of 24-inch, 12-inch set at 1,540 feet. Screens set at 893 to 929, 1,159 to 1,194, 1,235 to 1,296, 1,318 to 1,399 and 1,439 to 1,499 feet.
619	2 $\frac{1}{2}$	55.5	Jan. 30, 1931	None	N	
620	--	54	May 2, 1927 h/	T, E	Ind	Casing; 1,306 feet of 6-inch and 4-inch set at 1,379 feet. Screen set at 1,310 to 1,377 feet. Sixty six feet drawdown, pumping 150 gallons a minute, May 2, 1927. h/
621	2	71.3	Jan. 19, 1931	A	Ind	Screens set at 220 to 240 and 480 to 500 feet.
622	13	81.2	do.	A	Ind	
651	2	7.8	June 29, 1931	J, H	D, S	
653	0	12.1	June 28, 1931	None	N	
654	2	10.0	do.	A, G, 2	D, S	
655	1 $\frac{1}{2}$	5.8	do.	J, H	D	
656	5	62.7	Jan. 9, 1931	A	Ind	Casing; 622 feet of 8-inch and 44 feet of 6-inch screen.
657	--	--	--	T, E, 15	P	Supplies subdivision of city.
658	1	60.4	Mar. 18, 1931	J	N	
659	0	4.6	Jan. 9, 1931	J	P	
660	0	50.5	do.	J	P	

Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
661	2 $\frac{3}{4}$ miles north northeast	South Texas Cotton Oil Co.	Layne-Texas Co.	--	425	6	282 405	38 20
e/662	do.	do.	do.	1928	834	24	472 702 746 781	54 39 29 43
663	do.	do.	do.	1924	740	24	435 568	50 20
664	do.	Magnolia Provision Co.	do.	1907	462	6	669 711	35 29
665	do.	National Lumber & Creosoting Co.	--	1912?	552	--	429 --	25 --
666	2 miles north	do.	Taylor & Roberts	1912?	1,422	26	767 1,120 1,380	161 120 40
667	1 mile north	Sunshine Laundry	--	--	602	--	--	--
668	1 $\frac{1}{2}$ miles north	Harlock Ice Co.	Layne-Texas Co.	1928	353	8	198 301	44 42
e/669	1 $\frac{1}{2}$ miles north northwest	Willbergs Laundry	do.	1932	958	6	902	54
670	1 mile northwest	H. & T. C. R.R.	--	1913	761	8	720	--
671	do.	Port City Ice Co.	--	--	--	--	--	--
672	do.	do.	--	--	--	--	--	--
673	1 mile north	M. K. & T. R.R.	Layne-Texas Co.	1910	1,638	12 $\frac{3}{8}$	1,434 1,492 1,532 1,594	33 21 20 31
674	1 $\frac{1}{2}$ miles north northeast	Southern Pacific R.R.	--	1913	978	12	938	40
675	do.	do.	--	1913	562	12	522	40
676	$\frac{3}{4}$ mile northeast	Southern United Ice Co.	--	1906?	600	10	--	--
e/677	do.	Houston Lighting & Power Co.	Taylor & Roberts	--	373	8	736 812	66 61
678	$\frac{1}{2}$ mile northeast	Houston Gas & Fuel Co.	Layne-Texas Co.	1910	1,342	8	1,216 1,303	30 37

## 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			
661	--	--	--	None	N	Four hundred and twenty five feet of 6-inch casing with screens set at 299 to
662	--	51.6 62.9	Mar. 14, 1928 h/ Jan. 14, 1931	T,E, 50	Ind	Casing; 120 [ 320 and 410 to 425 feet... feet of 24-inch, 10-inch set at 695 feet and 8-inch to bottom. Screens set at 485 to 526, 702 to 740, 755 to 776, and 783 to 824 feet. Yield, 625 gallons a
663	--	56.3	do.	T,E	Ind	Casing; 108 feet [ minute, June 2, 1952. of 24-inch, and 10-inch to bottom.
664	--	--	--	None	N	Four hundred and fifty five feet of 6-inch casing with screen from 434 to 455
665	2 $\frac{1}{2}$	56.9	Jan. 14, 1931	A,S	Ind	feet.
666	--	--	--	T	N	Deepened from 1,240 to 1,422 feet by Layne-Texas Co. Casing; 81 feet of 25-inch, 10-inch set at 911, 8-inch to 950 and 6-inch to 1,422 feet. Temperature 81 $\frac{1}{2}$ ° F. Three other abandoned wells here. Screens set at 810 to 900, 1,132 to 1,242, and 1,382 to 1,422 feet.
667	--	--	--	T,E	Ind	
668	6	56 79.6	Mar. 14, 1928 Jan. 14, 1931	A	Ind	Casing; 353 feet of 8-inch with screen set at 200 to 240 and 303 to 344 feet. Thirty five feet drawdown, pumping 300 gallons a minute, Mar. 14, 1928. h/
669	--	70	Apr. 26, 1932	T,E, 7 $\frac{1}{2}$	Ind	Casing; 903 feet of 6-inch and 4 $\frac{1}{2}$ -inch to 958 feet. Screen set at 903 to 936 feet. Ten feet drawdown, pumping 110 gallons a minute, Apr. 26, 1932. h/
670	--	--	--	A,S	RR	Roundhouse well. Eight-inch casing with 40 feet of 6-inch screen at bottom.
671	1 $\frac{1}{2}$	65.8	Jan. 12, 1931	A	Ind	
672	4	78.1	do.	A	Ind	
673	$\frac{1}{2}$	52.3	Jan. 29, 1931	A	N	Roundhouse well. Casing; 52 feet of 12 $\frac{1}{2}$ -inch, 1,423 feet of 8 $\frac{1}{4}$ -inch and 6-inch to bottom. Screens set at 1,433 to 1,468, 1,492 to 1,513, 1,532 to 1,552,
674	--	--	--	A,S	RR	Shop well. [ and 1,594 to 1,625 feet. Casing; 90 feet of 12-inch, 848 feet of 8-inch, and 40 feet of 6-inch screen.
675	--	--	--	A,S	RR	Shop well. Casing; 90 feet of 12-inch, 432 feet of 8-inch, and 40 feet of 6-
676	--	38.7	Jan. 29, 1931	None	N	There are 5 other abandon- inch screen. ed wells at this plant, one 12-inch and four 8-inch wells, depths unknown.
677	--	73.1	do.	A,S	Ind	Casing; 798 feet of 8-inch, and 6-inch to bottom. Screens set at 741 to 796
678	--	--	--	None	N	1,342 feet of 8- [ and 818 to 873 feet. inch casing with screens set at 1,211 to 1,232, and 1,310 to 1,342 feet.

Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
679	$\frac{1}{8}$ mile northeast	Houston Gas & Fuel Co.	Layne-Texas Co.	1919	1,392	24	--	--
680	do.	Houston Electric Co.	--	--	1,350+	8	--	--
a/681	$\frac{1}{8}$ mile north	Southern Pacific R.R. Building	Taylor & Roberts	1923	861	8	632 782	42 79
682	$\frac{1}{4}$ mile north	Merchants & Manufacturers Bldg.	--	--	1,300	8	--	--
683	$\frac{1}{2}$ mile north	Henke Artesian Ice Co.	J. A. Walling	--	325	--	--	--
684	do.	Houston Ice & Cold Storage Co.	--	--	745+	6	--	--
685	do.	Lone Star Creamery	--	--	1,400+	--	--	--
686	do.	Dixon Packing Co.	--	--	--	8	--	--
687	$\frac{1}{2}$ mile north northwest	Brazos Hotel	Layne-Texas Co.	1905	1,328	8	1,222	106
a/688	$\frac{3}{4}$ mile northwest	City of Houston	do.	1925	1,535	24	1,144 1,260 1,399	65 86 118
689	do.	do.	do.	1925	1,213	24	700 802 890 1,135	30 53 89 74
d/690	do.	do.	--	--	--	--	--	--
691	$\frac{1}{2}$ mile north northwest	Henke & Pillot	J. A. Walling	1923	500+	6	--	--
692	$\frac{1}{4}$ mile north	Union National Bank	--	1911?	1,500+	6	--	--
693	$\frac{1}{4}$ mile north northeast	First National Bank	Layne-Texas Co.	1923	352	6	196 296	46 56
c/694	do.	do.	do.	--	350+	6	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.  
 c/ P, public; Irr, 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			
679	-2	27.7	Jan. 7, 1931	T, E	N	Casing; 54 feet of 24-inch and 8-inch to bottom.
680	--	33.3	Jan. 8, 1931	None	N	Water flowed at plant floor when well was drilled.
681	--	--	--	A	P	Casing; 780 feet of 8-inch and 6-inch to bottom. Also an abandoned 6-inch well, depth unknown, 416 feet to water from 1 foot above floor, Feb. 3, 1931.
682	--	54.2	Jan. 29, 1931	None	N	There are 9 other abandoned wells at this place, formerly owned by a brewery. Diameter and depths of wells unknown.
683	--	--	--	A	Ind	There are 9 wells on this property, part of Hamilton Estate (Brewery); 2 wells in use drilled by Walling, 825 and 400 feet deep; 7 abandoned wells, 6 with depths unknown and one 611 feet deep, 49.2 feet to water below top of casing, Jan. 7, 1931.
684	0	52.3	Jan. 7, 1931	A	Ind	Also have one abandoned well <u>1931</u> under sidewalk a short distance from
685	--	--	--	A	Ind	Part of Hamilton Estate <u>well 684</u> . (Brewery). There are 6 abandoned wells here, depths and diameter unknown.
686	0	37.9	Feb. 4, 1931	None	N	Another abandoned well is about 20 feet away.
687	--	--	--	None	N	1,328 feet of 8-inch casing. Screen set at 1,279 to 1,328 feet.
688	--	48	July, 1925 <u>h/</u>	T, E, 75	P	Casing; 155 feet of 24-inch and 10-inch to bottom. Screens set at 1,179 to 1,199, 1,279 to 1,356, and 1,411 to 1,514 feet. Temperature 83° F. Yield, 1,770 gallons a minute, July, 1925. <u>h/</u>
689	--	50	do.	T, E, 75	P	Casing; 155 feet of 24-inch and 10-inch to bottom. Screens set at 723 to 743, 823 to 864, 918 to 995, and 1,157 to 1,217 feet. Temperature 79° F. Yield, 1,680 gallons a minute, July, 1925. <u>h/</u>
690	--	--	--	None	N	Old central plant. About 50 wells were uncovered and sealed with concrete during the spring of 1934.
691	6	67.7	Feb. 6, 1931	A, E	P	
692	--	--	--	A	P	
693	--	--	--	A	N	Casing; 252 feet of 6-inch and 4-inch to bottom. Screens set at 206 to 248 and 322 to 363 feet. Water level was 40 below basement, May, 1923. <u>h/</u>
694	--	--	--	A	P	

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layne-Texas Company.



## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
695	$\frac{1}{2}$ mile north northeast	Harris County Court House	-- Roberts	1910?	--	6	--	--
696	do.	Fannin Bldg.	--	--	--	--	--	--
697	do.	Stewart Bldg.	--	--	--	6	--	--
698	$\frac{1}{4}$ mile north	Scanlon Bldg.	Gus Warniecke	1909?	--	4	--	--
699	$\frac{1}{4}$ mile north northwest	Binz Bldg.	--	--	--	--	--	--
e/700	do.	Rice Hotel	--	1914?	1,395	8	1,303	80
701	do.	do.	J. A. Walling	1929?	896	16	--	--
702	do.	Houston Chronicle Bldg.	--	--	--	--	--	--
703	$\frac{1}{2}$ mile northwest	Eureka Laundry	--	--	--	--	--	--
704	$\frac{1}{2}$ mile northwest	Ineeda Laundry	--	1922?	975+	4	--	--
705	$\frac{1}{2}$ mile west northwest	Rice Hotel Laundry	Taylor & Roberts	--	890+	--	--	--
706	$\frac{1}{4}$ mile northwest	Texas Theatre	do.	1924	515+	12	240 320 460	40 20 50
707	do.	Bankers & Mortgage Co.	--	1919?	--	6	--	--
708	do.	Hotel Bristol	--	--	--	--	--	--
709	$\frac{1}{4}$ mile west northwest	Second National Bank	--	1910?	927+	8	--	--
d/710	do.	Niels Esperson Bldg.	Layne-Texas Co.	1925	883	8	821	59
e/711	$\frac{1}{4}$ mile west	Bender Hotel	--	1930	884	6	--	--
712	do.	Lamar Hotel	McMasters & Pomeroy	1930	889+	--	--	--
713	$\frac{1}{2}$ mile west southwest	Humble Bldg.	--	1921?	840+	--	--	--
714	$\frac{1}{4}$ mile west southwest	Y. M. C. A.	J. A. Walling	1920?	400+	4	--	--
e/715	do.	Rossonion Apts.	Layne-Texas Co.	1910	800	8	775	100
716	$\frac{1}{2}$ mile west	West Building	--	1913?	750+	--	--	--
717	do.	Cotton Hotel	J. A. Walling	--	388	4	--	--
718	$\frac{1}{2}$ mile west northwest	Rusk Bldg.	--	--	600+	6	--	--
719	$\frac{1}{4}$ mile northwest	Mason Bldg.	Layne-Texas Co.	1913	940	6	662 799 857	28 33 75

## 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			
695	1	79.1	Feb. 4, 1931	None	N	Also have an abandoned 8-inch well near this well.
696	--	--	--	J	N	Abandoned well under sidewalk at entrance of building.
697	-6	59.5	Feb. 4, 1931	A	P	
698	--	--	--	A	P	
699	--	--	--	J	N	Abandoned well under Texas Avenue.
700	--	--	--	A	P	Casing; 1,221 feet of 8-inch and 4 $\frac{1}{2}$ -inch to bottom. Screen set at 1,303
701	--	--	--	A	P	to 1,383 feet.
702	--	--	--	None	N	Abandoned well.
703	--	--	--	--	Ind	
704	--	--	--	A, E	Ind	
705	0	70	Dec. 27, 1929 f/	T, E, 15	Ind	
706	--	--	--	T, E	P	Casing; 240 feet of 12-inch, 8-inch to 460 feet and 6-inch to bottom. Screens set at 240 to 280, 320 to 335 and 460
707	--	--	--	A	P	to 515 feet.
708	--	--	--	J	N	Has not been used for 12 years.
709	-1 $\frac{1}{2}$ -1 $\frac{1}{2}$	69 87.4	July 24, 1926 Feb. 3, 1931	A	P	Yield, 155 gallons a minute, Feb. 3, 1931.
710	-1	86.8	Feb. 18, 1931	A	P	Casing; 825 feet of 8-inch and 6-inch to bottom. Screens set at 843 to 893
711	--	--	--	T, E	P	Casing; 824 feet of 6-inch and 60 feet of 4-inch screen set at 824 to 884
712	-2	81.8	Feb. 5, 1931	A	P	Deepened from 708 feet by McMas- ters and Pomeroy. Oct. 1930. feet.
713	--	--	--	A	P	
714	--	--	--	A	P	Supplies water to swimming pool.
715	--	--	--	A	P	Casing; 755 feet of 8-inch and 6-inch to bottom. Screen set at 813 to 873
716	--	--	--	A	P	feet.
717	-8	84.0	Jan. 28, 1931	A	P	Four-inch casing inserted inside 6-inch casing as repair job.
718	--	--	--	A	N	
719	--	--	--	A	P	Casing; 940 feet of 6-inch with screens set at 662 to 684, 799 to 821 and 857 to 931 feet.

## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
720	2 blocks northwest	Kross Bldg.	McMasters & Pomeroy	1931	542	8	--	--
721	do.	Texas State Hotel	Layne-Texas Co.	1930	395	8	331 488 659 768	64 71 34 84
722	1 block northwest	Texas Co. Bldg.	-- Roberts	1915	1,335	8	--	--
723	1 block north	Post Dispatch Bldg.	J. A. Walling	--	--	--	--	--
724	2 blocks east	Petroleum Bldg.	Layne-Texas Co.	--	690±	6	--	--
725	¼ mile east	Union R.R. Station	--	--	--	8	--	--
726	do.	do.	McMasters & Pomeroy	1931	704	10	210 618 673	36 43 35
727	½ mile east	Burkharts Laundry	--	1911?	370±	8	350±	--
3/728	do.	do.	McMasters & Pomeroy	1931	1,402	8	1,358	44
729	½ mile southeast	Independent Elec. Ice Co.	Taylor & Roberts	1921?	380±	6	--	--
730	do.	do.	do.	1927?	308	8	--	--
3/731	1 mile east	I. & G. N. R.R.	Layne-Texas Co.	1907	1,390	8	1,249 1,363	74 27
3/732	do.	Gould Wet Wash Laundry	do.	1924	1,392	6	1,345	45
733	1 mile east northeast	Zero Ice Co.	do.	1923	865	16	--	--
734	do.	do.	do.	1923	646	24	305 453 615	51 63 21
735	1½ miles east northeast	Pritchard Rice Milling Co.	Gus Warniecke	1907?	500±	6	--	--
736	1½ miles east	Houston Packing Co.	--	--	1,700±	10	--	--
737	do.	do.	Layne-Texas Co.	1930	624	12	238 328 523	24 46 95
738	do.	do.	McMasters & Pomeroy	1918	417	8	240 345	22 72
739	do.	Trinity Portland Cement Co.	J. G. Taylor	--	700±	10	--	--

## Pana 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			
720	-2	66.8	Feb. 1, 1931	T, E	P	Well was redrilled in 1931 because old casing had failed.
721	--	79	July, 1930 h/	A	P	Casing; 50 feet of 12-inch, 10-inch from surface to 210 feet and 8-inch from surface to 792 feet. Screens set at 320 to 382, 479 to 538, 654 to 674 and 758 to 778 feet. Yield, 400 gallons a minute with 57 feet drawdown, July, 1930. h/
722	-10	50.0	Jan. 31, 1931	A	P	
723	--	--	--	A	P	
724	--	--	--	A	P	
725	-8	69.3	Jan. 7, 1931	None	N	
726	3	75.1	do.	T, E, 25	P	Casing; 325 feet of 10-inch, and 8-inch to 708 feet. Screens set at 220 to 240, 619 to 661 and 685 to 708 feet.
727	--	--	--	None	N	Screen set at 350 to 370 feet.
728	--	78	July, 1931 f/	T, E, 10	Ind	Casing; 1,344 feet of 8-inch and 6-inch to bottom. Screen set at 1,358 to 1,402 feet. Temperature 80° F. f/
729	--	--	--	A	Ind	
730	2	63 73.9	Apr. 1929 Jan. 29, 1931	None	N	Temporarily unused. Cleaned by McMasters and Pomroy. Apr., 1929.
731	--	--	--	T, E, 20	Ind	1,390 feet of 8-inch casing with screens set at 1,270 to 1,330 and 1,350 to 1,390
732	--	--	--	T, E, 15	Ind	1,341 feet of 6-inch casing and feet, 4-inch to 1,391 feet. Screen set at
733	--	--	--	T, E, 30	Ind	Casing; 145 feet, 1,347 to 1,391 feet; Screens distributed between 149 and 693
734	--	--	--	T, E, 7½	Ind	Casing; 79 feet of 24-inch and 10-inch to bottom. Screens set at 320 to 355, 457 to 516 and 626 to 646 feet,
735	--	--	--	A	Ind	Also had 288-foot well, now abandoned.
736	--	--	--	A	Ind	
737	--	54	May, 1930	T, E, 25	Ind	Casing; 133 feet of 12-inch and 8-inch to 619 feet. Screens set at 234 to 256, 339 to 362, 522 to 546, and 578 to 611
738	2	62.4	Jan. 8, 1931	None	N	Casing; 415 feet of 8-inch with feet, screens set at 243 to 264 and 354 to 415 feet. Also have abandoned well under the building, depth and diameter
739	2	72	Apr. 26, 1930	A	Ind	Casing; 10-inch to about 500 feet and 6-inch to bottom. unknow.

## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal Water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
d/740 e/	1 $\frac{3}{4}$ miles east	Houston Elec. Co.	Gus Warniecke	--	537	6	514	23
741	do.	do.	Layne-Texas Co.	1921	540	6	364 512	60 28
742	1 mile east	Merchants & Planters Oil Co.	--	1888?	--	6	--	--
743	2 $\frac{1}{2}$ miles east	Exporters Compress & Warehouse Co.	--	--	--	4	--	--
d/744 e/	3 miles northeast	City of Houston	McMasters & Pomeroy	1931	2,150	24	--	--
745	3 $\frac{1}{2}$ miles north northeast	Teneson Bros.	--	1928?	680+	4	--	--
746	3 $\frac{1}{4}$ miles northeast	Texas & New Orleans R.R.	J. W. Jackson	1925	677	6	615 642	21 5
e/747	do.	do.	do.	1925	948	8	693 789 828 913	94 20 30 30
e/748	5 miles northeast	Gulf Pipe Line Co.	Layne-Texas Co.	1911	721	6	537 688	41 29
e/749	6 miles east northeast	H. Jaschke	A. E. Fawcett	1930	179	3	--	--
750	do.	Texas Pipe Line Co.	--	--	--	6	--	--
751	do.	do.	Taylor & Walling	1915	540	6	--	--
752	do.	Houston Steel & Foundry	--	1918?	600+	6	--	--
753	4 $\frac{3}{4}$ miles east northeast	Ford Jarvis Plant	--	1923	--	4	--	--
754	4 $\frac{1}{2}$ miles east northeast	Lyon's Ave. Saw Mill	A. E. Fawcett	--	200+	--	--	--
755	do.	do.	do.	--	240	4	--	--
756	do.	do.	do.	--	500+	6	--	--
757	4 $\frac{1}{4}$ miles east	Layne-Bowler Co.	Layne-Texas Co.	1929	676	10	573 646	63 24

## 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			
740	--	--	--	A	Ind	
741	$\frac{1}{2}$	48.0	Jan. 8, 1931	None	N	Casing; 540 feet of 6-inch with screens set at 364 to 420 and 519 to 539 feet. Also have another abandoned well, seal-
742	4	37.6	Jan. 27, 1931	None	N	Two wells <u>ed with concrete in 1931.</u> not used for 10 years. Water level 46.7 feet below top of casing, 2 feet
743	--	--	--	A	Ind	also have <u>above ground in second well.</u> abandoned 6-inch well 20 feet south of pumped well. Water level, 61.6 feet below top of casing, 4 feet above ground
744	--	--	--	T, E, 200	P	Temperature 90° F. <u>in abandoned well.</u> Casing; 310 feet of 24-inch and 1,565 feet of 12 $\frac{1}{2}$ -inch with 20 feet overlap. Screens set at 1,015 to 1,025, 1,115 to 1,160, 1,225 to 1,245, 1,325 to 1,345, 1,370 to 1,390, 1,570 to 1,615, 1,785 to 1,830 and 1,850 to 1,870 feet.
745	2	50.4	Mar. 19, 1931	A, E, 5	P	Supplies water for a small subdivision.
746	6	63.2	Jan. 12, 1931	None	N	Casing; 593 feet of 6-inch and 4 $\frac{1}{2}$ -inch to bottom. Screen set at 613 to 655 feet. Also have an abandoned well, exact location, depth and diameter not
747	--	30	May, 1925	A	Ind	Creosote plant. Casing; 806 <u>known.</u> feet of 8-inch and 6-inch to bottom. Screens set at 739 to 757, 779 to 801, 847 to 868 and 927 to 947 feet.
748	2 $\frac{1}{2}$	+4 50.2	Nov. , 1911 h/ Jan. 14, 1931	A	D, Ind	720 feet of 6-inch casing. Screens set at 539 to 579 and 697 to 714 feet. Well had a flow of 40 gallons a minute when completed. h/
749	--	--	--	J, E, $\frac{1}{4}$	D, S	Formerly had 49-foot well but water was not good.
750	--	--	--	J, E	D	
751	4	54.1	Mar. 19, 1931	None	N	Well had a flow when drilled.
752	0	49.9	do.	J	N	Do.
753	--	--	--	A	Ind	
754	--	--	--	J, E	D	
755	--	--	--	S	Ind	
756	--	--	--	S	Ind	
757	0	54 57.6	Oct. 9, 1929 h/ Feb. 25, 1931	A	Ind	676 feet of 10-inch casing. Screens set at 577 to 635 and 649 to 670 feet. Yield, 660 gallons a minute with 46 feet draw-down, July 17, 1929. h/

Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	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/758	4 <sup>3</sup> / <sub>4</sub> miles east	J. H. Passmore	-- Reidland	1931	148	3	--	--
759	do.	Port City Com- press & Warehouse Co.	Morton & Son	--	396	4	--	--
760	do.	Houston Oil Terminal Co.	McMasters & Pomeroy	1920?	732	6	--	--
761	3 <sup>1</sup> / <sub>4</sub> miles east	Reed Roller Bit	do.	1930	--	--	--	--
e/781	6 <sup>3</sup> / <sub>4</sub> miles west southwest	Southern Floral Co.	-- Morton	--	196	4	--	--
e/782	6 <sup>1</sup> / <sub>4</sub> miles west	Post Oak School	Layne-Texas Co.	1928	244	4	222	20
e/783	6 miles west	Houston Riding & Polo Club	--	1927?	350+	4	--	--
e/784	5 <sup>1</sup> / <sub>4</sub> miles west	Houston Gun Club	--	1930	360+	--	--	--
785	5 <sup>1</sup> / <sub>2</sub> miles west	Mrs. Hugh Wheeler	--	--	--	--	--	--
786	4 miles west southwest	Kerr Florists	--	--	160	6	--	--
787	2 <sup>1</sup> / <sub>2</sub> miles west southwest	Marshall Ice Co.	-- Taylor	1926?	700+	10	--	--
e/788	1 <sup>1</sup> / <sub>4</sub> miles southwest	Sheperd Laundries	McMasters & Pomeroy	1930	1,416	8	1,323 1,395	55 21
e/789	do.	Henke & Pillot	J. A. Walling	1923?	565	6	494	66
790	2 miles south southwest	Southern United Ice Co.	Layne-Texas Co.	1926	606	16	358 405 516 579	37 60 58 22
791	2 <sup>3</sup> / <sub>4</sub> miles southwest	Warwick Hotel	McMasters & Pomeroy	1932	576	10	--	--
792	3 miles southwest	City of Houston	Layne-Texas Co.	1917	1,394	24	--	--
d/793	do.	do.	do.	1931	2,121	24	--	--
e/ 794	do.	do.	do.	--	777	24	260	--
d/795	do.	do.	do.	--	1,340	24	489	--
796	do.	do.	do.	1919	1,127	24	377	--
e/797	3 <sup>1</sup> / <sub>2</sub> miles southwest	Rice Institute	do.	1910	910	6	833	69
798	do.	do.	do.	1916	900+	6	--	--

## Penn Livingston and Samuel F. Turner

No.	Height of bench mark above (+) ground (ft.) a/	Water level		Pump and kin' and amount of power b/	Use of water c/	Remarks
		Below bench mark (ft.)	Date of measur - ment			
758	$\frac{3}{4}$	33.9	Mar. 31, 1931	J, H	D, P	Well supplies Slumberland Tourist Camp.
759	$1\frac{1}{2}$	56.9	Feb. 26, 1931	A, E, 15	D, Ind	Well was redrilled in 1930.
760	--	--	--	A, S	D, Ind	Screen set at 672 to 732 feet.
761	--	--	--	T, E	Ind	
781	0	26.9	Apr. 7, 1931	A	I	
782	--	34	Apr. 20, 1928 h/	J, H	D, P	Casing; 224 feet of 4-inch and $2\frac{1}{2}$ -inch to bottom. Screen set at 223 to 243
783	--	--	--	A, G, 5	D, S	Two similar wells about 10 feet feet. apart.
784	--	--	--	J, W	D	
795	2	33.1	June 20, 1932	None	N	
786	--	--	--	A, E, 5	D, I	
787	--	--	--	T	Ind	
788	--	80	July, 1930 f/	T, E, 15	Ind	Casing; 1,295 feet of 8-inch and 6-inch to bottom. Screens set at 1,336 to 1,377 and 1,395 to 1,416 feet.
789	--	--	--	A	Ind	
790	$1\frac{1}{2}$	57.0	Jan. 17, 1931	T, E, 40	Ind	Casing; 122 feet of 16-inch, and 10-inch to bottom. Screens set at 365 to 386, 420 to 458, 539 to 560, and 579 to 597
791	0	57.9	July 7, 1932	T, E	P	feet.
792	--	15	Apr., 1917 h/	None	N	Sealed with concrete after casing collapsed.
793	--	--	--	T, E, 200	P	Screens set at 1,280 to 1,290, 1,340 to 1,440; and 1,455 to 1,595 feet.
794	--	--	--	T, E, 75	P	Casing; 100 feet of 24-inch and 10-inch to bottom. Screens set at 260 to 282, 347 to 409, 442 to 464, 500 to 514, 526 to 547, 590 to 611, 686 to 707, and 714
795	--	--	--	T, E, 75	P	Casing; 119 feet of 24- to 776 feet. inch, 12-inch set at 1,030 feet and 8 and 10-inch to bottom. Well plugged at 975 feet. Screens set at 489 to 569, 644 to 824, and 964 to 975 feet.
796	0	47.3	May 23, 1933	None	N	Casing; 131 feet of 24-inch, 12-inch set at 806 feet and 8-inch to bottom. Screens set at 377 to 471, 525 to 588, 730 to 806, 847 to 911, 947 to 1,002, 911 feet of and 1,052 to 1,115 feet.
797	$1\frac{1}{2}$	68.4	Jan. 24, 1931	A	P	6-inch casing with screen set at 847 to
798	4	71.3	do.	A	P	903 feet.



## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
799	4 $\frac{1}{2}$ miles southwest	West University Place	J. A. Walling	--	540+	10	--	--
800	do.	do.	do.	--	600+	6	--	--
801	5 $\frac{1}{2}$ miles southwest	Crane Ready Cut House Co.	do.	1926?	600+	8	--	--
802	5 $\frac{1}{2}$ miles west southwest	West University Place	do.	1931	595	--	--	--
803	do.	do.	--	1924	125	2	--	--
804	do.	do.	J. A. Walling	1925?	650+	6	--	--
805	6 $\frac{1}{2}$ miles southwest	T. G. Board	Layne-Texas Co.	1922	413	4	--	--
806	7 miles west southwest	Gam Elec. Co.	--	1900?	965+	4 $\frac{1}{2}$	--	--
807	do.	do.	--	1927?	115+	4	--	--
d/808 e/	do.	do.	McMasters & Pomeroy	1929	340	8 $\frac{1}{4}$	203	29
e/809	do.	do.	--	--	1,100+	4 $\frac{1}{2}$	--	--
e/810	7 $\frac{1}{2}$ miles west southwest	Harris County	Layne-Texas Co.	1917?	650+	8	--	--
d/811 e/	do.	do.	McMasters & Pomeroy	1931	385	6	348	32
812	do.	do.	--	1913?	400+	6	--	--
e/813	4 miles south southwest	-- Grant	--	--	28+	--	--	--
c/814	4 $\frac{3}{4}$ miles south southwest	R. C. Wood	--	--	60+	2 $\frac{1}{2}$	--	--
e/815	5 miles south southwest	Greenwood Sanitarium	Layne-Texas Co.	1912	892	6	801	78
e/816	5 $\frac{1}{2}$ miles southwest	Hans Peterson Nursery	--	--	--	48	--	--
e/817	6 miles southwest	Main Street Air Port	--	--	--	2 $\frac{1}{2}$	--	--
e/818	5 $\frac{1}{2}$ miles south southwest	-- Redford	--	--	36+	2 $\frac{1}{2}$	--	--
d/819	do.	R. Ramon	--	--	30+	2 $\frac{1}{2}$	--	--
820	5 $\frac{1}{2}$ miles south southwest	Institute Place	Layne-Texas Co.	1928	310	8	254	56
d/821 e/	6 $\frac{1}{4}$ miles south southwest	Houston Gulf Gas Co.	--	1929	211+	3	--	--
e/822	6 $\frac{1}{2}$ miles south southwest	Humble Pipe Line Co.	--	1929	256	4	--	--
e/823	7 miles south southwest	Moody Corporation	--	1912?	275	4	--	--

## 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			
799	--	--	--	A, E	P	
800	0	48.5	Feb. 12, 1931	A, E	P	
801	1 $\frac{1}{2}$	39.4	Jan. 24, 1931	A, E, 15	P	Yield, 80 gallons a minute with 50 foot drawdown, Oct. 20, 1931.
802	--	--	--	T, E	P	Screens set at 383 to 405, 426 to 447, 509 to 532, and 552 to 595 feet.
803	1	5.6	Jan. 21, 1931	None	N	
804	--	42	Mar. 14, 1931	None	N	College View water plant, standby well.
805	--	--	--	A, E, 2	D	Well had a flow when completed.
806	--	--	--	None	N	Now obstructed at 17 feet below top of casing.
807	0	17.4	Feb. 16, 1931	A	N	
808	--	21	Apr., 1929 f/	T, E, 20	P	Eight and one-fourth-inch casing with screen set at 204 to 232 feet.
809	4	43.6	Feb. 16, 1931	A	P	Well had a flow when completed.
810	--	--	--	T, E, 5	P	Harris County School for Girls.
811	7	33.1	Apr. 17, 1931	T, E	P	Harris County School for Girls. Yield, 220 gallons a minute with 21 feet draw-
812	--	--	--	A	P	Harris County School for Girls. down, April, 1931. f/
813	--	--	--	J	D	
814	--	--	--	J, E	D, S	
815	--	--	--	A, E, 5	P	892 feet of 6-inch casing. Screen set at 818 to 880 feet.
816	--	--	--	J, W	D, I	
817	--	--	--	J, G	D, I	
818	--	--	--	J, H	D	
819	--	--	--	J, W	S	
820	--	24 29.0	Apr. 25, 1928 h/ Sept. 24, 1931	None	N	Casing; 100 feet of 8-inch and 6-inch to bottom. Screens set at 277 to 300 feet. Yield, 100 gallons a minute, with 75 foot drawdown, April 25, 1928. h/
821	--	--	--	J, E	D	
822	--	--	--	A, E	D	
823	--	--	--	A, E, 15	D	

## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	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/824	7 $\frac{1}{4}$ miles south southwest	Geo. Jones	--	1923	65	2	--	--
e/825	do.	Navarro Oil Co.	Humble Oil & Refining Co.	1921	385	4	--	--
e/826	7 $\frac{1}{2}$ miles south southwest	J. D. Hughes	--	1921	30+	--	--	--
d/827	do.	C. H. Driskoll	Burt Taylor	1933	34	2	--	--
d/828	7 $\frac{1}{4}$ miles south southwest	Rio Bravo Oil Co.	Layne-Texas Co.	1926	248	10	200	--
d/829	8 miles south southwest	C. S. Settogast	--	1928	350+	8	--	--
e/830	7 $\frac{3}{4}$ miles south southwest	Sam Taylor	--	1930	40+	4	--	--
e/831	do.	do.	Sam Taylor	1872	30	48	--	--
e/832	do.	Burt Taylor	-- Tiller	1930	100	4	--	--
d/833	do.	W. E. Taylor	Sam Taylor	1913	60	2 $\frac{1}{2}$	--	--
e/834	do.	Navarro Oil Co.	--	--	380	4 $\frac{1}{2}$	--	--
e/835	do.	Gulf Production Co.	--	1921	220	6	--	--
836	do.	do.	--	1927	210	6	--	--
d/837	8 $\frac{1}{2}$ miles south southwest	C. W. Mowery	C. L. Mowery	1922	260	4	--	--
d/838	8 $\frac{1}{2}$ miles south southwest	E. E. Kelly	--	--	60+	4	--	--
e/839	7 $\frac{1}{2}$ miles southwest	L. N. Liesman	Layne-Texas Co.	1931	231	2	--	--
851	1 $\frac{1}{4}$ miles south	Polar Wave Ice Co.	Taylor & Roberts	1924	386	12	150 270	40 46
852	do.	do.	do.	1921?	660+	12	360	26
853	1 mile east southeast	Port City Ice Co.	--	--	--	6	--	--
854	do.	do.	Layne-Texas Co.	1925	919	16	224	--
855	2 $\frac{1}{2}$ miles south southeast	City of Houston	do.	1926	1,620	24	1,323	--
856	do.	do.	do.	1925	1,603	24	651	--

## 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			
824	--	--	--	J,H	D,S	
825	--	--	--	A,E, 15	D, Ind	
826	--	--	--	J,E	D,S	
827	--	--	--	J,W	D,S	
828	--	--	--	T,E	D, Ind	Set 50 feet of 4 $\frac{1}{2}$ -inch screen on bottom.
829	--	--	--	J,W	S	
830	--	--	--	J,W	D,S	
831	--	--	--	J,H	D,S	Dug well with brick curbing.
832	--	--	--	J,E, $\frac{2}{3}$	D,S	
833	--	--	--	J,W	D,S	
834	--	--	--	--	D	
835	--	--	--	A,E	D	
836	--	--	--	A	D, Ind	
837	--	--	--	J,W	D,S	
838	--	--	--	A,E	D	
839	--	--	--	A,E	D	
851	30	91.7	Jan. 17, 1931	A	Ind	Casing; 386 feet of 12-inch with screens set at 163 to 182, 222 to 264 and 364 to
852	--	--	--	T,E, 20	Ind	Temperature 76° F. Yield, 386 feet. 230 gallons a minute, May, 1932.
853	$\frac{1}{2}$	71.3	Jan. 8, 1931	None	N	
854	--	46	July, 1923	T,E	Ind	Casing; 116 feet of 16-inch, 10-inch set at 544 feet and 6-inch set at 854 feet. Yield, 510 gallons a minute with 49 feet drawdown, Aug., 1925. <u>h/</u> Screens set at 224 to 266, 366 to 388, 421 to 442, 542 to 564, 704 to 764, and 831 to
855	0	22 73.3	Jan., 1926 <u>h/</u> May 23, 1933	T,E, 100	P	Temperature 84 $\frac{1}{2}$ ° F. Casing; 156 feet of 24-inch, 1,204 feet of 16-inch and 8-inch to 1,521 feet. Screen set at 1,323 to 1,521 feet. Yield, 1,775 gallons a minute, Jan. 11, 1926. <u>h/</u>
856	--	48.8 77.9	June 5, 1925 <u>h/</u> May 23, 1933	T,E, 60	P	Temperature 77 $\frac{1}{2}$ ° F. Casing; 155 feet of 24-inch, 18-inch to 663 feet and 10-inch to 902 feet. Screens set at 651 to 711, 731 to 791 and 831 to 900 feet.

Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
d/857	2½ miles south southeast	City of Houston	Layne-Texas Co.	1928	1,366	24	553	--
d/858	do.	do.	do.	1931	2,145	24	1,037	--
859	3 miles south southeast	do.	do.	1916	482	6	454	23
860	1¾ miles east southeast	Henke & Pillot	do.	1931	--	--	--	--
861	1½ miles east southeast	Arctic Ice Co.	--	--	595+	8	--	--
e/862	do.	Houston Belt & Terminal R.R.	McMasters & Pomeroy	1924	832	8	--	--
863	2¼ miles southeast	Standard Ice Co.	do.	1928	1,000+	10	--	--
864	do.	do.	do.	1929	400+	8	--	--
865	do.	Texas & Fuel Co.	do.	1928	276	5	--	--
866	do.	do.	do.	1928	400+	10	--	--
867	3 miles southeast	do.	Taylor & Roberts	--	870	10	251	--
868	do.	Hughes Tool Co.	Layne-Texas Co.	1923	697	16	338 509 643	51 41 44
869	do.	do.	do.	1926?	1,192	24	811 945 1,056	66 108 49
e/870	2½ miles east southeast	Hygeia Ice Co.	McMasters & Pomeroy	1928	728	10	--	--
871	3¼ miles south southeast	Houston Belt & Terminal R.R.	--	--	--	--	--	--
872	4¼ miles south southeast	do.	McMasters & Pomeroy	1924	832	8	780	40
873	4¼ miles east southeast	Geo. H. Graham	--	--	--	3	--	--
874	4 miles east southeast	Bailey-Nytex	--	--	--	4	--	--
875	do.	Markus Brothers	--	--	800+	3	--	--
876	3½ miles southeast	Houston Country Club	Layne-Texas Co.	--	--	--	--	--

## 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 b/	Use of water c/	Remarks
		Below bench mark (ft.)	Date of measurement			
857	--	62	Aug. 4, 1928 <u>h/</u>	T, E, 150	P	Temperature 79° F. Casing; 265 feet of 24-inch, 16-inch set at 703 feet and 12-inch to 1,350 feet. Screens set at 553 to 576, 638 to 661, 671 to 724, 756 to
858	--	58	May, 1931 <u>h/</u>	T, E, 150	P	Casing; 320   777, and 816 to 919 feet. foot of 24-inch and 12 $\frac{1}{2}$ -inch set at 1,756 feet. Screens set at 1,030 to 1,045, 1,061 to 1,082, 1,108 to 1,151, 1,344 to 1,366, 1,409 to 1,428, 1,472 to 1,513, 1,535 to 1,556, 1,586 to 1,606 and 1,668 to 1,750 feet.
859	--	5	Nov., 1916 <u>h/</u>	--	Ind	486 feet of 6-inch casing with screen set at 449 to 479 feet.
860	2	72.1	Aug. 12, 1931	T, E	D, Ind	
861	--	--	--	A	Ind	
862	--	--	--	A	RR	
863	--	--	--	T, E, 25	Ind	
864	--	50	Feb. 17, 1928 <u>g/</u>	T, E, 10	Ind	
865	--	--	--	A	D, Ind	Screen set at 256 to 276 feet.
866	--	--	--	A	D, Ind	Screens set at 256 to 276 and 360 to 400 feet.
867	12	23.5 72.9	-- 1921 <u>f/</u> Jan. 16, 1931	A	D, Ind	870 feet of 10-inch casing. Screens set at 251 to 288, 374 to 415, 553 to 573, 682 to 720 and 830 to 870 feet.
868	--	50.3	Jan. 8, 1931	--	N	Casing; 110 feet of 16-inch and 10-inch to bottom. Screens set at 369 to 389, 520 to 562, and 657 to 694 feet.
869	--	32 62.6	May 3, 1926 <u>h/</u> Jan. 8, 1931	T, E	Ind	Casing; 162 feet of 24-inch and 10-inch to 1,096 feet. Screen set at 838 to 877, 959 to 1,040, and 1,057 to 1,096 feet. Yield, 1,300 gallons a minute with 30-foot drawdown. May 3, 1926. <u>h/</u>
870	+1 $\frac{1}{2}$	60.6	Jan. 13, 1931	T, E, 15	Ind	
871	--	--	--	A	RR, S	
872	--	27	July, 1924	A	RR	Casing; 777 feet of 8-inch and 6-inch to bottom. Screen set at 780 to 815
873	--	--	--	A, E, 2	D	feet.
874	--	--	--	A	Ind	
875	--	--	--	A	N	
876	--	51.4	Jan. 16, 1931	T, E, 15	I	Also supplies water for swimming pool.

## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
877	3½ miles southeast	Navigation Ice Co.	McMasters & Pomeroy	1928	508	--	--	--
d/878	4¾ miles southeast	Houston Compress Co.	Layne-Texas Co.	1929	905	15½	716 780 875	27 22 20
d/879	4¼ miles southeast	City of Houston	do.	1925	1,037	24	475	--
880	do.	do.	McMasters & Pomeroy	--	1,011	17	737	--
881	5½ miles southeast	Terminal Compress & Warehouse Co.	--	1911?	650+	6	--	--
882	6½ miles southeast	Humble Oil & Refining Co.	--	--	300+	4	--	--
e/883	6¾ miles southeast	Carnegie Steel Co.	McMasters & Pomeroy	1927	841	6	592 787	63 54
884	5½ miles southeast	City of Houston	--	--	--	10	--	--
885	do.	American Service Co.	--	--	--	--	--	--
886	do.	Texas Alkali Works	J. A. Walling	1930	540	10	--	--
887	6 miles southeast	Deepwater Oil & Refining Co.	McMasters & Pomeroy	1919?	1,350+	8	--	--
888	do.	do.	do.	1922	950+	6	--	--
889	do.	Texas Chemical Co.	--	1918	640	6	--	--
890	do.	do.	Layne-Texas Co.	1926	1,284	24	586	--
891	6¼ miles southeast	Long Star Cement Co.	do.	1915	658	10	585 632	37 19
d/892 e/	do.	do.	do.	1921	1,284	12	767	--
893	do.	American Maid Flour	--	--	600+	6	--	--
894	do.	Southern Pacific R.R.	--	--	--	--	--	--
d/895	6½ miles east southeast	City of Houston	Layne-Texas Co.	1930	1,664	24	1,027	--

## 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 measur - ment			
877	--	--	--	T, E	Ind	
878	0	42	Aug. 5, 1929	T, E	Ind	Casing; 177 feet of 15 $\frac{1}{2}$ -inch and 8-inch to bottom. Screens set at 713 to 754, 796 to 817, and 870 to 888 feet.
		47.8	Jan. 21, 1931			
879	--	40	June 5, 1925	T, E, 75	P	Casing; 125 feet of 24-inch and 12-inch to bottom. Screens set at 475 to 496, 513 to 533, 565 to 586, 685 to 705, 746 to 767, 787 to 806, 869 to 888, and 987
880	--	--	--	None	N	Casing; 86 feet of 17- to 1,025 feet. inch and 10-inch to bottom. Screens set at 737 to 815, 838 to 861, 880 to 916 and 925 to 1,011 feet. Temperature
881	+3 $\frac{1}{2}$	54.4	Jan. 21, 1931	A	Ind	78° F.
882	--	--	--	A	D, S	Also have an abandoned 6-inch well about 600 feet deep.
883	--	--	--	A	D	Screens set at 617 to 660 and 798 to 841 feet.
884	0	11.4	Feb. 20, 1931	None	N	Flowed until 1919.
885	--	--	--	A	Ind	Two wells, 18 feet apart; no information available.
886	+4	54.7	Feb. 3, 1931	A	Ind	
887	--	--	--	A	Ind	
888	--	--	--	A	Ind	Also have an abandoned 3-inch well; depth unknown.
889	+2	67.3	Jan. 13, 1931	None	N	Flowed in 1918.
890	--	46.6	Aug., 1926	T, E	Ind	Casing; 142 feet of 24-inch and 10-inch to bottom. Screens set at 605 to 628, 752 to 809, 1,052 to 1,106 and 1,127 to 1,147 feet.
		63.9	Jan. 13, 1931			
891	+1	59.3	Jan. 21, 1931	None	N	Casing; 658 feet of 10-inch. Screens set at 583 to 621, and 629 to 651 feet.
892	+2 $\frac{1}{2}$	40	May 25, 1928	A	Ind	Casing; 99 feet. Flowed when drilled. of 12-inch, 3-inch to 1,030 feet, and 6-inch to bottom. Screens set at 767 to 808, 945 to 1,044, 1,050 to 1,090, 1,150 to 1,171 and 1,237 to 1,380. Flowed in 1928.
		68	June 27, 1930			
		72.3	Jan. 21, 1931			
893	--	--	--	A	Ind	
894	--	--	--	A	RR	
895	--	60	Sept. 5, 1930 <u>h/</u>	T, E, 160	P	Casing; 500 feet of 24-inch, and 12 $\frac{1}{2}$ -inch to bottom. Screens set at 1,084, 1,128 to 1,158, 1,176 to 1,195, 1,239 to 1,259, 1,526 to 1,566 and 1,588 to 1,648 feet. Temperature 86° F. Yield, 2,145 gallons a minute with 45 feet drawdown. Sept. 8, 1930. <u>h/</u>



## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
896	8 miles east southeast	F. E. Maxwell	-- Powell	1929	466	6	--	--
897	2 $\frac{1}{4}$ miles east southeast	Glenbrook Sub-division	--	--	800+	6	--	--
898	6 $\frac{1}{2}$ miles east southeast	City of Houston	--	--	--	6	--	--
899	5 $\frac{1}{2}$ miles east southeast	Golf Crest Club	-- Miller	1930	870+	6	--	--
e/900	do.	do.	Golf Crest Oil Co.	1930	2,560	10	--	--
901	4 $\frac{1}{2}$ miles east southeast	G. L. Harris	--	--	750+	2	--	--
902	do.	City of Houston	--	--	--	6	--	--
903	4 $\frac{1}{2}$ miles south	M. E. Foster	-- Jackson	1928	580+	6	--	--
904	do.	do.	do.	--	350+	6	--	--
905	7 $\frac{1}{2}$ miles south southeast	City Prison Farm	--	--	--	--	--	--
d/906 c/	7 $\frac{1}{2}$ miles south southeast	Gardenvilla Subdivision	Layne-Texas Co.	1929	875	8	640 655	10 20
907	do.	do.	do.	--	--	--	768	28
908	9 miles south southeast	J. W. Madden	--	--	600+	30	--	--
909	do.	do.	--	--	900+	30	--	--
910	9 $\frac{1}{2}$ miles south southeast	O'Donald Estate	--	--	530+	30	--	--
911	8 $\frac{1}{2}$ miles south southeast	do.	--	--	500+	30	--	--
912	9 miles south	Geo. A. Swengel	Layne-Texas Co.	--	653	24	--	--
921	8 $\frac{1}{2}$ miles northeast	J. M. Cordell	--	--	--	3	--	--
922	do.	Harris County Home	McMasters & Pomeroy	1922	585	8	--	--
923	9 miles northeast	F. P. Schalles	--	1920	130	2	100	30
e/924	do.	do.	--	--	130	2	100	30
925	9 $\frac{1}{2}$ miles east northeast	Texas Company	Texas Company	--	640+	--	--	--
926	7 miles east	R. E. Brooks	--	1930	490+	6	--	--

## 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			
896	--	--	--	J	N	Water stood 3 feet below surface in 1929.
897	--	25	June 16, 1926 <u>g/</u>	A, E, 15	P	Yield, 200 gallons a minute, June 16, 1926. <u>g/</u>
898	--	32	Sept., 1926	A	N	Two similar wells, about 25 feet apart. Measurement made on well nearest main door to pump house.
	$\frac{1}{2}$	58.5	Jan. 8, 1931			
899	--	--	--	A	I	60 feet of screen at bottom.
900	+1	48.7	Feb. 19, 1931	None	N	Oil test with 350 feet of 10-inch casing, and mud-filled hole below. Also have two abandoned wells, one 6-inch well about 800 feet deep, and one 3-
901	--	--	--	J, E, $\frac{1}{2}$	D	inch well about 300 feet deep.
902	--	--	--	A	N	Old Brookline Addition well.
903	--	--	--	T, E, $7\frac{1}{2}$	P	
904	--	--	--	J, E, 1	P	20 feet of screen at bottom. Seldom used now.
905	0	15.9	Apr. 9, 1931	T, E, 20	N	
906	--	31	June, 1929	T, E, 15	P	833 feet of 8-inch casing. Screens set at 631 to 671, and 753 to 793 feet.
907	--	--	--	T, E, 15	P	
908	$+\frac{1}{2}$	23.9	Apr. 9, 1931	None	N	Automatic water-stage recorder installed on this well.
909	$+1\frac{1}{2}$	20.3	do.	J, H	D	Flowed when drilled.
910	$+1\frac{1}{2}$	9.6	do.	J, T	D	Do.
911	0	-33.3	do.	None	N	Another abandoned well was reported near this well.
912	--	--	--	T	N	Casing; 53 feet of 24-inch and 10 to 13 inch casing to bottom. Screen set at 564 to 642 feet. A similar abandoned rice well is about one-fourth
921	--	--	--	A	Ind	Well <u>    </u> miles northwest of this well, supplies water for brick factory.
922	$+1\frac{1}{2}$	36.6	Mar. 31, 1931	A, G, 6	D, S	Water stood 5 feet below surface when well was completed.
923	$+1\frac{1}{2}$	29.0	do.	None	N	Owner reports good water sand at 100 to 130 feet. Coarse gravel at 165 feet and fine sand at 45 and 65 feet. Eight
924	--	--	--	J, H	D, S	feet of screen set in bottom.
925	--	--	--	--	D, Ind	Have had four wells here; three are now abandoned.
926	--	--	--	J, E	Ind, P, S	Supplies small subdivision.

## Records of wells in Harris County--Continued

No.	Distance from Houston Post Office	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
927	10 miles east	-- Graff	--	--	120+	6	--	--
e/928	10 $\frac{1}{2}$ miles east	Harris County	--	--	125+	4	--	--
929	10 $\frac{1}{2}$ miles northeast	do.	--	--	--	4	--	--
e/930	13 $\frac{1}{2}$ miles northeast	Sheldon Kota	--	--	30	2	--	--
931	16 miles northeast	Riverside Prod. Co.	--	--	25+	6	--	--
e/932	do.	B. N. Garrett	A. E. Fawcett	--	240+	4	225	15

No.	Distance from Goose Creek <u>1/</u>	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/941	7 $\frac{1}{2}$ miles northwest	W. H. Gilbert	Theo. Reidland	1924	128	3	--	--
942	6 $\frac{1}{2}$ miles north northwest	E. W. McLean	A. Jonesee	1927	120+	2	--	--
e/951	9 $\frac{1}{2}$ miles north	P. C. Ulrich	--	--	400+	10	--	--
e/952	do.	A. F. Ulrich	T. Reidland	1927	88	2	--	--
e/953	do.	Frank Casino	do.	1928	97	4	76	17
e/954	8 $\frac{1}{2}$ miles north	N. P. Whisenhart	--	--	100+	3	--	--
e/955	7 $\frac{1}{2}$ miles north	-- Whitlock	--	--	160	3	--	--
956	do.	J. W. Plummer	Amos Jennische	--	260	4	--	--
e/957	do.	do.	--	--	100	4	90	--
958	8 miles north	F. F. Petersen	A. Jennische	1919	98	4	90	8
e/959	do.	S. M. Johnson	S. M. Johnson	1930	--	8	--	--
e/960	do.	J. M. Johnson	Amos Jennische	--	344	4	--	--
e/961	7 miles north	J. W. Wilson	--	1929	94	4	--	--
e/962	4 $\frac{1}{2}$ miles north	C. Spenser	Theo. Reidland	1930	102	4	--	--
e/963	4 miles north northeast	Mrs. J. E. Portis	--	--	360	3	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, irrigation; Ind, industrial; RR, railroad; D, domestic; S, stock; N, not used. 1/ Records of all wells in Goose Creek area were furnished by P. A. Vacher, Humble Oil and Refining Co., Baytown.

## 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			
927	+1 $\frac{1}{2}$	29.5	Mar. 29, 1931	None	N	Well formerly supplied sawmill.
928	+4	8.4	do.	J, H	N	Well drilled to supply water for building bridge piers.
929	+3 $\frac{1}{2}$	38.7	Mar. 31, 1931	None	N	Well drilled to supply water for concrete on highway.
930	--	--	--	J, H	D, S	Water level was 11.2 feet below top of casing at ground-level in nearby 6-inch
931	0	13.4	Oct. 29, 1931	J, H	N	Well at cotton gin. well, 30 feet deep.
932	--	--	--	J, W	D, S	Water level reported as 18 feet below surface.

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			
941	--	--	--	J, E	D	
942	--	--	--	A, G	D, S	
951	--	--	--	J, W	D, S	Temperature 70° F.
952	--	10	Jan. 22, 1932	J, E, $\frac{1}{4}$	D	
953	--	--	--	J, H	D	Water level reported as 41 feet below surface, Jan. 14, 1928.
954	--	--	--	J, H	D	
955	--	--	--	J, H	D	Temperature 71° F.
956	--	16	Jan. 22, 1932	None	N	Well sanded up.
957	--	10	do.	J, W	D	Temperature 71° F.
958	--	$\frac{1}{2}$	--	J, W	N	Well pumped oil at first and water was bad.
959	--	8	Jan. 21, 1932	J, H	D	
960	--	54	do.	J, W	D	Temperature 72° F.
961	--	10	do.	J, H	D	
962	--	--	--	J, W	D	
963	--	--	--	J, W	D	Temperature 74° F.

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for test of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layne-Texas Company.

## Records of wells in Harris County--Continued

No.	Distance from Goose Creek	Owner	Driller	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Principal water- bearing bed	
							Depth to top of bed (ft.)	Thick- ness (ft.)
e/964	4 <sup>1</sup> / <sub>2</sub> miles northeast	H. F. Passey	-- Byrd	1931	330	2	--	--
e/965	5 <sup>1</sup> / <sub>4</sub> miles northeast	C. Thompkins	--	1931	344	4	318	10
966	do.	-- Thompkins	R. J. Thompkins	--	312	2	--	--
e/967	5 miles northeast	J. W. Newton	Amos Jennische	--	333	4	--	--
e/968	do.	Mrs. L. Terry	do.	1924	365	4	--	--
e/969	4 <sup>3</sup> / <sub>4</sub> miles northeast	Saul Donalley	do.	1921	360	4	--	--
e/970	4 <sup>1</sup> / <sub>4</sub> miles northeast	S. R. Brooks	do.	--	337	4	312	18
e/971	do.	R. O. Smith	do.	1928	315	2	290	25
e/972	4 miles north northeast	W. R. Rendon	--	1916	95	6	--	--
e/973	do.	G. M. Hamor	G. L. Hamor	1931	106	--	--	--
974	3 <sup>3</sup> / <sub>4</sub> miles north northeast	J. B. Gurley	M. Genossee	--	480	2	--	--
e/975	4 miles northeast	Cedar Bayou School	A. Jennische	1931	315	4	--	--
e/976	do.	Z. T. Wilburn	Z. A. Williams	1928	320	4- 5/8	290	30
e/977	do.	A. W. Fayle	Byrd & Cannon	1929	327	4	300	27
e/978	do.	Fayle Estate	S. Williams	1912	330	4	300	27
e/979	do.	E. Ilfrey	M. Genossee	--	320	4	--	--
e/980	do.	E. G. Casey	--	1929	320	2	300	320
1001 e/	2 <sup>1</sup> / <sub>2</sub> miles north northwest	Bush Terrace Water Co.	--	1930	437	3	417	20
1002 e/	2 <sup>1</sup> / <sub>2</sub> miles north northwest	do.	--	--	437	4	417	20
1003 e/	1 <sup>1</sup> / <sub>2</sub> miles northwest	S. G. Davidson	--	--	20	4	--	--
1004 e/	1 <sup>1</sup> / <sub>2</sub> miles northwest	-- Beilstein	--	1923	110	4	100	10
1005 e/	1 <sup>1</sup> / <sub>2</sub> miles northwest	do.	Gulf Production Co.	--	640	4	--	--
1006 e/	do.	Gullen & West	Fred Asher	1920	320	10	--	--
1007 e/	3/4 miles west northwest	Crown Oil Co.	A. Parker	1916	575	8	--	--
1008 e/	3/4 miles north	S. Leidmeyer	Amos Genossee	1925	109	4	99	10
1009	1 mile north	City of Pally	-- Riggs	1928	408	6	335	75

## Pom 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			
964	--	--	--	J,H	D	
965	--	20	Jan. 21, 1932	J,H	D	
966	--	20.3	do,	J,H	D	
967	--	--	--	A,C	D	Casing; 40 feet of four-inch and 2-inch to bottom.
968	--	--	--	J,G, 2 $\frac{1}{2}$	D	
969	--	--	--	J,W	D	
970	--	31	July, 1931	J,W	D	Sand and gravel reported at 75 to 100 feet below surface.
971	--	--	--	A,E	D	
972	--	30	Jan. 19, 1932	A,G, 2	D	
973	--	--	--	J,H	D	
974	--	--	--	None	N	Well flowed when first completed.
975	--	15	Jan. 19, 1932	J,W	D	
976	--	--	--	J,W	D	Temperature 71° F.
977	--	--	--	J,E, 2	D	
978	--	30	Jan. 19, 1932	J,W	D	
979	--	--	--	A,E, 1	D	Temperature 72° F.
980	--	--	--	A,E, 1	D	
1001	--	40	Nov. 11, 1931	A,G, 1 $\frac{1}{2}$	P	
1002	--	--	--	J,V	P	Casing; 30 feet of 4-inch and 2-inch to bottom.
1003	--	--	--	J,H	D	Dug well.
1004	--	22	Nov. 12, 1931	J,V	D	Temperature 75° F.
1005	--	--	--	J,H	D	
1006	--	55	Nov. 18, 1931	Steam	Ind	
1007	--	--	--	A	D, Ind	
1008	--	2	Nov. 19, 1931	J,V	D	
1009	--	--	--	T,E, 15	P	

Records of wells in Harris County--Continued

No.	Distance from Goose Creek	Owner	Driller	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Principal water- bearing bed	
							Depth to top of bed (ft.)	Thick- ness (ft.)
1010 e/	2 $\frac{1}{2}$ miles north	John Gillard	--	1931	19	30	--	--
1011 e/	3 $\frac{1}{8}$ miles northeast	J. L. Sims	Amos Jennische	1918	325	4	300	25
1012 e/	do.	A. M. Wilburn	A. F. Genesee	--	320	4	--	--
1013 e/	3 $\frac{1}{4}$ miles northeast	C. McKinney	--	1926	325	4	305	20
1014 e/	do.	M. George	A. Jennische	1913	515	2	475	40
1015 c/	do.	Mrs. L. Sheperd	do.	1926	365	2	345	20
1016 e/	3 miles east northeast	John Kilgore	A. F. Genesee	--	490	2 $\frac{1}{2}$	--	--
1017 e/	2 $\frac{1}{2}$ miles east northeast	W. G. Bayliss	do.	--	100+	--	--	--
1018 c/	2 $\frac{3}{4}$ miles east northeast	W. Wright	A. Jennische	1930	85	4	60	18
1051 e/	3 $\frac{1}{2}$ miles northwest	Humble Oil & Ref. Co. Well 12	Layne-Texas Co.	1925	562	24	399	158
1052	do.	Humble Oil & Ref. Co. Well 17	do.	1926	988	24	424 756 821 916	117 40 65 72
1053 e/	do.	Humble Oil & Ref. Co. Well 19	do.	1929	1,001	24	412 468 757 837 924	44 69 36 53 60
1054 e/	3 $\frac{1}{4}$ miles northwest	Humble Oil & Ref. Co. Well 15	do.	1926	572	24	305 422	38 146
1055	3 miles northwest	Humble Oil & Ref. Co. Well 8	do.	1922	962	24	--	--
1056 e/	3 $\frac{1}{4}$ miles northwest	Humble Oil & Ref. Co. Well 9	do.	1924	922	24	355 803	149 116
1057 e/	3 miles northwest	Humble Oil & Ref. Co. Well 7	do.	--	515	24	372	112
1058 e/	2 $\frac{3}{4}$ miles northwest	Humble Oil & Ref. Co. Well 13	do.	1925	542	24	385 491	100 19
1059 e/	do.	Humble Oil & Ref. Co. Well 18	do.	1927	1,687	26	1,008 1,325 1,456 1,527 1,546 1,645	12 18 19 13 61 42

## 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			
1010	--	13	Nov. 18, 1931	J,H	D	Temperature 72° F. Dug well.
1011	--	40	Jan. 19, 1932	A,G, 20	D	
1012	--	30	do.	A,E, 2	D	
1013	--	--	--	A,E, 2	D	
1014	--	--	--	A,E	D	
1015	--	--	--	A,G, 3 $\frac{1}{2}$	D	
1016	--	--	--	A,G	D	
1017	--	--	--	J,H	D	
1018	--	8	Jan. 19, 1932	J,W	D	
1051	--	66.6	Oct., 1931	T,E 125	Ind	Casing; 145 feet of 24-inch. 297 feet of 16-inch and 8-inch to bottom. Screen set at 385 to 535 feet. Temperature
1052	--	72.4	Aug., 1928	None	N	Well abandoned in 1928. Casing; 78° F. 438 feet of 24-inch, 257 feet of 16-inch, and 10-inch to bottom. Screens set at 493 to 589, 771 to 789, 832 to
1053	--	74.5	Oct., 1931	T,E, 150	Ind	Temperature 87 $\frac{1}{2}$ , and 927 to 984 feet. 80° F. Casing; 415 feet of 24-inch, and 12-inch to 974 feet. Screens set at 427 to 448, 467 to 530, 751 to 772, 833 to 874, 916 to 936, and 953 to 974
1054	--	61.5	do.	T,E, 125	Ind	Temperature 74° F. Casing; 310 feet. feet of 24-inch, 64 feet of 18-inch, 94 feet of 12-inch and 8-inch to bottom. Screens set at 310 to 349 and 451 to 571
1055	--	--	do.	None	N	Well abandoned about 1925. feet.
1056	--	63.1	Oct., 1931	T,E, 150	Ind	Temperature 75° F. Casing; 334 feet of 24-inch, 206 feet of 18-inch, 265 feet of 12-inch and 217 feet of 6-inch. Screens set at 360 to 495 and 786 to
1057	--	59.8	do.	T,E, 200	Ind	Temperature 76° F. Casing; 914 feet. 325 feet of 24-inch and 18-inch to bottom. Screen set at 354 to 505 feet.
1058	--	65.1	do.	T,E, 125	Ind	Temperature 77° F. Casing; 145 feet of 24-inch, 259 feet of 16-inch and 10-inch to bottom. Screen set at 406 to 509
1059	--	19.2	do.	None	N	Temperature 89° F. Casing; 260 feet. feet of 26-inch, 1,313 feet of 12-inch and 10-inch to bottom. Screens set at 937 to 958, 999 to 1,016, 1,335 to 1,373, 1,452 to 1,474, 1,516 to 1,554, 1,567 to 1,606 and 1,606 to 1,681 feet.



Records of wells in Harris County--Continued

No.	Distance from Goose Creek	Owner	Driller	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Principal water- bearing bed	
							Depth to top of bed (ft.)	Thick- ness (ft.)
1060	2 <sup>3</sup> / <sub>4</sub> miles northwest	Humble Oil & Ref. Co. Well 5	Layne-Texas Co.	1922	973	24	386 785	130 185
1061	do.	Humble Oil & Ref. Co. Well 3	--	--	869	12	509 781 840	83 36 27
1062	do.	Humble Oil & Ref. Co. Well 2	--	--	968	12	873	56
1063 e/	2 <sup>1</sup> / <sub>2</sub> miles northwest	Humble Oil & Ref. Co. Well 6	Layne-Texas Co.	1922	968	24	279 384 866	26 108 97
1064 e/	do.	Humble Oil & Ref. Co. Well 4	do.	1920	960	24	368 649 715 779	148 45 47 160
1065	3 miles northwest	Humble Oil & Ref. Co. Well 16	do.	1926	1,010	--	--	--
1066	2 <sup>1</sup> / <sub>4</sub> miles northwest	Humble Oil & Ref. Co. Well 1	--	--	743	16	663	59
1067 e/	2 <sup>3</sup> / <sub>4</sub> miles west northwest	Humble Oil & Ref. Co. Well 10	Layne-Texas Co.	1925	545	24	293 361 399	56 22 138

No.	Distance from South Houston	Owner	Driller	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Principal water- bearing bed	
							Depth to top of bed (ft.)	Thick- ness (ft.)
1101	8 <sup>1</sup> / <sub>2</sub> miles east northeast	Harris County	--	--	800+	24	--	--
1102	9 <sup>1</sup> / <sub>2</sub> miles east northeast	Strang Petroleum Corp.	--	--	--	6	--	--
1103 d/ e/	12 miles east	G. H. & S. A. R.R.	--	1909?	770+	10	--	--
1104 e/	13 miles east	City of La Porte	--	1925	570	10	--	--
1105	do.	A. A. Womack	Allen Bros.	1892?	--	6	--	--
1106	13 <sup>1</sup> / <sub>2</sub> miles east	G. R. Hamilton	--	1912	500+	2	--	--
1151 d/ e/	4 miles north	Southern Pacific R.R.	J. W. Jackson	1926	773	8	630 721	82 50
1152 e/	4 <sup>1</sup> / <sub>2</sub> miles north	Kirby Lumber Co.	--	--	--	6	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, 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			
1060	--	--	--	None	N	Casing; 83 feet of 24-inch and 12-inch to bottom. Screens set at 422 to 507 and 871 to 958 feet. Well abandoned
1061	--	--	--	None	N	Casing; 130 feet of 12-inch, about 1926. and 10-inch to bottom. Screens set at 512 to 592, 781 to 815, and 839 to 869
1062	--	--	--	None	N	Set 10-inch screen at 843 to 944 feet.
1063	--	47.7	Oct., 1931	T, E, 150	Ind	Temperature 77° F. Casing; 100 feet of 24-inch and 12-inch to bottom. Screens set at 284 to 306, 388 to 489 and 879
1064	--	49.6	do.	T, E, 150	Ind	Temperature 78° F. Casing; 112 feet of 24-inch and 10 feet to bottom. Screens set at 428 to 504, 677 to 698, 742 to 761, 826 to 882 and 901
1065	--	--	--	None	N	Well was first developed in 500-foot stratum but was not satisfactory and well was ruined while attempting to drill it deeper.
1066	--	42.0	Oct., 1931	None	N	Casing; 62 feet of 16-inch, 120 feet of 12-inch, 683 feet of 10-inch and 60 feet
1067	--	50.3	do.	T, E, 100	Ind	Temperature 76° F. Casing; 126 feet of 24-inch, 172 feet of 16-inch, and 8-inch to bottom. Screens set at 338 to 378, and 443 to 543 feet.

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			
1101	0	60.5	Nov. 28, 1932	None	N	Abandoned rice well in highway.
1102	+1	32.8	Apr. 2, 1931	None	N	Well drilled to supply water to oil test-drilling rig.
1103	--	--	--	A	RR	Two similar wells at Strong.
1104	+2	54.6	Apr. 2, 1931	A, E	P	Screen set at 500 to 570 feet.
1105	+2	54.1	Nov. 28, 1932	None	N	Reported flow 20 feet above ground when drilled.
1106	+2	19.1	Apr. 2, 1932	None	N	Reported flow 12 feet above ground when drilled.
1151	--	--	--	A, F	RR	Casing; 712 feet of 8-inch and 6-inch to bottom. Screens set at 643 to 703
1152	--	--	--	A, E	P	Supplies town and 731 to 771 feet. of Clinton.

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layne-Texas Company.

## Records of wells in Harris County--Continued

No.	Distance from South Houston	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
1153	4 $\frac{1}{2}$ miles north	Kirby Lumber Co.	Layne-Texas Co.	1924	549	3	287 501	19 21
1154	4 $\frac{3}{4}$ miles north	Sea Port Realty Co.	--	--	720+	8	--	--
1155 e/	4 $\frac{1}{4}$ miles north	Gulf Ref. Co.	Layne-Texas Co.	1922	752	24	504 595 702	36 54 48
1156	do.	do.	--	--	750+	6	--	--
1157	4 miles north	Clarion Oil Co.	--	--	--	4	--	--
1158	3 $\frac{3}{4}$ miles north	Gulf Compress Co.	--	--	500+	--	--	--
1159	3 $\frac{1}{2}$ miles north	Manchester Terminal	Layne-Texas Co.	1932	--	12	--	--
1160 e/	2 $\frac{3}{4}$ miles north northwest	Allendale Sub-division	McMasters & Pomeroy	--	318	8	293	25
1160a d/	do.	do.	--	--	160	--	--	--
1161	3 miles north	Sinclair Ref. Co.	Layne-Texas Co.	1924	1,228	24	730 905 1,085	55 70 65
1162 e/	3 $\frac{1}{4}$ miles north	do.	do.	1924	1,223	24	625 704 1,105	67 51 118
1163	do.	do.	do.	1931	1,301	24	885 985 1,149	54 44 108
1164	3 $\frac{1}{8}$ miles north	do.	--	1918	800+	8	1,264 --	32 --
1165	do.	do.	Layne-Texas Co.	1920	1,104	12	967 1,031 1,059 1,083	48 16 17 20
1166	3 $\frac{1}{2}$ miles north	do.	do.	1920	974	16	872	102
1167	do.	do.	do.	1918	800+	8	--	--
1168 d/	4 $\frac{1}{2}$ miles north	Houston Lighting & Power Co.	Southern Well Drilling Co.	1923	823	12	630 685	70 118
1169 d/	do.	do.	Layne-Texas Co.	1924	821	12	590 731	76 78
1170 e/	do.	do.	do.	1929	836	16	598 744	78 72
1171 e/	3 $\frac{1}{2}$ miles north northeast	Houston Pipe Line Co.	-- Morton	--	264	6	--	--
1172	4 $\frac{1}{4}$ miles north northeast	Texas Company	Layne-Texas Co.	1929	1,376	24	282 771 864 1,018 1,315	28 22 21 61 60

## 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			
1153	4 $\frac{1}{2}$	52.1	Mar. 27, 1931	None	N	Casing; 245 feet of 3-inch and 2-inch to bottom. Screens set at 288 to 310
1154	--	--	--	A, E, 10	P	Supplies small and 504 to 525 feet. subdivision.
1155	0	61.2	Mar. 27, 1931	T, E	D, Ind	Casing; 93 feet of 24-inch and 8-inch to bottom. Screens set at 499 to 543, 594 to 657, and 701 to 747 feet.
1156	+2	68.5	do.	None	N	
1157	--	--	--	J	N	Not used since about 1928.
1158	+4	15.4	Mar. 27, 1931	A	Ind	Also have two unused wells, one 8-inch and one 4-inch diameter.
1159	--	--	--	T, E	P, RR	
1160	--	--	--	J, G, 4	P	
1160a	--	--	--	J, W	P	Near well 1160
1161	--	--	--	T, E, 150	Ind	Casing; 156 feet of 24-inch, 12-inch to 1,118 feet and 8-inch to bottom. Screens set at 741 to 781, 925 to 965, and
1162	--	--	--	T, E, 150	Ind	Casing; 162 feet 1,118 to 1,228 feet. of 24-inch, 12-inch to 1,013 feet, and 8-inch to bottom. Screens set at 658 to 697, 718 to 758, 1,099 to 1,119 and
1163	0	82	June 24, 1931	T, E	Ind	Screens set at 1,139 to 1,223 feet. 936 to 979, 1,029 to 1,068, 1,197 to 1,236, 1,219 to 1,240 and 1,256 to
1164	--	--	--	A	N	1,277 feet.
1165	--	--	--	T, E, 75	Ind	Casing; 113 feet of 12-inch, 8-inch set at 922 feet, and 6-inch to bottom. Screen set at 965 to 1,009, 1,027 to 1,042, 1,054 to 1,072 and 1,081 to
1166	--	--	--	T, E, 150	Ind	Casing; 253 feet of 16- 1,099 feet. inch, 8-inch set at 824 feet, and 6-inch to bottom. Screen set at 887 to
1167	--	--	--	A	N	968 feet.
1168	--	--	--	A	Ind	Casing; 318 feet of 12-inch and 10-inch to bottom. Screens set at 630 to 670, 705 to 725, and 744 to 805 feet. Tom-
1169	--	--	--	A	Ind	Casing; 310 feet of temperature 78° F. 12-inch, and 10-inch to bottom. Screens set at 624 to 661 and 723 to 805 feet.
1170	+1	56.8	Feb. 25, 1931	T, E, 50	Ind	Casing; 145 feet of 16-inch, and 10-inch to bottom. Screens set at 612 to
1171	--	--	--	J, G	D	672 and 752 to 811 feet.
1172	+ $\frac{1}{2}$	40.1	Mar. 25, 1931	T, E, 100	Ind	Casing; 251 feet of 24-inch, 16-inch set at 275, 12-inch set at 1,294, and 8-inch to bottom. Screens set at 289 to 309, 772 to 793, 872 to 892, 1,046 to 1,111 and 1,307 to 1,373 feet.

## Records of wells in Harris County--Continued

No.	Distance from South Houston	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
1173	4 $\frac{3}{4}$ miles north northeast	Texas Company	J. A. Walling	--	682	8	--	--
1174	do.	do.	Layne-Texas Co.	1930	802	2 $\frac{1}{2}$	419 600 743	19 67 56
1175	do.	do.	--	--	--	8	--	--
1176	5 $\frac{1}{4}$ miles north northeast	do.	McMasters & Pomeroy	--	800+	8	--	--
1177	do.	do.	do.	--	800+	8	--	--
1178	5 $\frac{3}{4}$ miles north northeast	American Petroleum Co.	--	1922?	720+	6	--	--
1179	do.	do.	McMasters & Pomeroy	1931	707	10	633	74
c/ 1180	5 $\frac{1}{4}$ miles north northeast	Horton & Horton	--	1925	420+	6	--	--
1181	4 $\frac{1}{2}$ miles north northeast	Philip Petroleum Co.	--	--	691	4	--	--
c/ 1182	4 $\frac{1}{2}$ miles north northeast	Houston Belt & Terminal Co.	--	--	--	6	--	--
1183	do.	Crown Oil Ref.	--	--	--	10	--	--
1184	do.	do.	McMasters & Pomeroy	--	--	10	--	--
1185	do.	do.	do.	--	--	10	--	--
1186	3 $\frac{1}{4}$ miles north northeast	American Service Co.	do.	--	220	6	--	--
1187	3 $\frac{1}{2}$ miles north northeast	City of Pasadena	do.	1930	--	--	648 726	62 29
c/ 1188	do.	J. E. Pomeroy	--	--	--	--	793	19
1189	3 $\frac{1}{4}$ miles north northeast	Long Star Cement Co.	--	--	--	3	--	--
1190	do.	do.	McMasters & Pomeroy	1930	--	3	--	--
1191	5 miles northeast	Talford Jones	--	1902?	518	4	--	--
1192	do.	do.	--	--	850+	36	--	--
1193	do.	Jones Estate	McMasters & Pomeroy	1930	--	6	--	--
1194	do.	Deepwater Sub-division	Layne-Texas Co.	--	811	--	--	--
e/ 1195	do.	Deepwater School	--	--	130+	2	--	--
d/ e/ 1196	5 $\frac{1}{2}$ miles east northeast	Talford Jones	--	--	550+	8	--	--
1197	6 $\frac{1}{2}$ miles northeast	do.	McMasters & Pomeroy	1928	823	12	--	--

## Pan 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			
1173	--	--	--	A	Ind	Casing; 632 feet of 8-inch, and 6-inch to bottom. Screen set at 642 to 682
1174	+1 $\frac{1}{2}$	43.6	Mar. 25, 1931	T, E, 100	Ind	Casing; 250 feet of 24-inch, and 12-inch to bottom. Screens set at 428 to 469, 621 to 661, and 750 to 791 feet.
1175	--	--	--	None	N	Had not been used for several years.
1176	+1	28.0	Mar. 25, 1931	None	N	Had not been used for four or five years.
1177	+2 $\frac{1}{2}$	24.0	do.	None	N	
1178	--	--	--	A, E	N	Well kept as emergency supply.
1179	0	37	Mar. 4, 1931	T, E, 20	Ind	707 feet of 10-inch casing and screen. Screen set at 646 to 707 feet.
1180	+ $\frac{1}{2}$	35.5	Feb. 20, 1931	J, G, 3	D, S	
1181	--	--	--	A, U, 1	Ind	
1182	0	55	Feb. 25, 1929	--	RR	
1183	--	--	--	A	Ind	
1184	--	--	--	A	Ind	
1185	--	--	--	T, E, 30	Ind	
1186	--	--	--	T, E, 7 $\frac{1}{2}$	Ind	Pump removed and now used as observation well.
1187	--	--	--	T, E, 15	P	
1188	--	--	--	--	P	Supplies part of Pasadena subdivision.
1189	--	--	--	None	N	Abandoned in 1930.
1190	--	--	--	A	Ind	
1191	+2 $\frac{1}{2}$	8.8	Apr. 1, 1931	None	N	Old rice irrigation well.
1192	--	--	--	None	N	
1193	--	--	--	A, E	D	
1194	--	--	--	T, E, 7 $\frac{1}{2}$	P	
1195	--	--	--	J, H	P	
1196	+1	52.0	Apr. 1, 1931	A, O	D, Ind	
1197	+1	57.7	Apr. 2, 1931	T, E, 50	D, Ind	



## 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	Date of bench measurement (ft.)			
1198	--	--	--	T, E, 150	Ind	Casing; 202 feet of 16-inch, and 12-inch to bottom.
1199	--	--	--	T, E, 150	Ind	Casing; 199 feet of 16-inch, and 12-inch to bottom.
1200	--	--	--	T, E, 50	Ind	Sands at 83 to 127, 236 to 266, 330 to 374, and 382 to 463 feet.
1201	--	--	--	T, E, 150	Ind	Casing; 211 feet of 16-inch, and 12-inch to bottom.
1202	--	--	--	T, E	P	Deer Park public supply.
1203	+ $\frac{1}{2}$	34.7	Apr. 3, 1931	None	N	Well had flow until 1913.
1204	+1	34.2	do.	None	N	
1205	--	--	--	A, E	P	South Houston public supply.
1206	--	--	--	None	N	Well once flowed. Now plugged at 2 feet below surface.
1207	--	--	--	J, H	N	Reported to have yielded good sulphur water; now plugged.
1208	--	--	--	None	N	Well never flowed.
1209	+4	39.5	Oct. 6, 1932	A	N	
1210	--	--	--	None	N	Now abandoned and plugged with rocks and sticks.
1211	--	--	--	J, O, 10	N	
1212	--	--	--	J, E, 12	P	
1213	--	--	--	J, W	D, S	Casing; 40 feet of 24-inch, and 9 5/8-inch to bottom. Screen set at 71 to 91 feet.
1214	--	--	--	J, G, $\frac{1}{2}$	D, S	
1215	--	--	--	J, H	S	
1216	--	--	--	None	N	Had good water for one year; water turned bad and well abandoned and filled.
1217	--	--	--	None	N	Had a 120-foot well and good water for about a year and water turned bad. Drilled deeper without success.
1218	--	--	--	J, H	S	
1219	--	--	--	A, G, 15	Ind	Reported to have bad effect on land.
1220	--	--	--	J, H	D, S	
1221	--	--	--	J, H	S	Dug for 13 feet and bored to 35 feet.



Records of wells in Harris County--Continued

No.	Distance from South Houston	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
1222 e/	2 miles east	Vincent Lopez	M. R. Pretty	1932	100	4	90	10
1223 e/	2½ miles east	C. A. Graham	C. A. Graham	1932	103	4	75	28
1224	3½ miles east southeast	C. S. Woods	--	1908	1,800+	10	--	--
1225 e/	3 miles east southeast	W. S. Craig	--	--	36+	4	--	--
1226	4 miles east southeast	Schoenmann Produce Co.	M. R. Pretty	1932	106	4	96	10
1227 e/	do.	do.	--	--	35	2½	--	--
1228	do.	do.	M. R. Pretty	1932	100	4	90	10
1251	11½ miles west southwest	C. F. Smith	Layne-Texas Co.	--	723	30	--	--
1252	9½ miles west southwest	J. M. Burkett	do.	1904	630	28	600 612	10 18
1271	8½ miles west southwest	--	--	--	1,240+	6	--	--
1272	7½ miles west southwest	Emil Able	--	--	1,600+	30	--	--
1273	do.	do.	--	--	600+	6	--	--
1274	7 miles west southwest	Mike Martin	--	--	975+	30	--	--
1275 d/ e/	do.	do.	--	--	40	1½	--	--

No.	Distance from Webster	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
1301	8 miles northwest	-- Burnett	--	--	700	6	--	--
1302 d/ e/	7½ miles northwest	City of Genoa	Layne-Texas Co.	1928	332	6	657 701	18 16
1303	do.	do.	--	--	600	--	306	26
1304 e/	do.	G. H. & H. R.R.	--	1899	635	6	661	22
1305 e/	do.	-- Davidson	--	--	100+	3	--	--
1306 e/	7 miles northwest	C. D. Rogers	--	--	17	6	--	--

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

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

## Pom 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 b/	Use of water c/	Remarks
		Below bench mark (ft.)	Date of measurement			
1222	--	--	--	A,G, 1½	Irr,D	
1223	+2½	11.6	Sept. 29, 1932	A,G, 22	D,S, Irr	Screen set at 85 to 103 feet.
1224	--	--	--	None	N	Oil test. Reported flow of good water until casing collapsed.
1225	+1	10.5	Sept. 29, 1932	J,H	D,S	
1226	--	--	--	A,G	Irr	Screen set at 96 to 106 feet.
1227	--	--	--	J,H	D,S	
1228	--	--	--	A,G	Irr	Screen set at 89 to 100 feet. Reported yield, 100 gallons per minute.
1251	--	--	--	J,E	D	Casing; 50 feet of 30-inch and 9 5/8-inch to bottom. Well 484 in Water-
1252	+1	10.9	Apr. 9, 1931	None	N	Casing; 38 feet of <u>Supply Paper 335.</u> 28-inch bit, 8½-inch set at 593 and screen to bottom. Well 483 in Water-
1271	+1½	13.1	do.	None	N	Drilled as oil test. <u>Supply Paper 335.</u> Reported 200 feet of casing sand.
1272	+1½	40.0	do.	T	N	Abandoned.
1273	--	6.5	do.	J,H	D	
1274	+1½	35.1	do.	None	N	Formerly used for rice irrigation.
1275	--	--	--	J,H	D,S	

No.	Height of bench mark above (+) ground (ft.) <u>a/</u>	Water level		Pump and kind and amount of power b/	Use of water c/	Remarks
		Below bench mark (ft.)	Date of measurement			
1301	--	--	--	None	N	Well plugged at 9 feet. Well 517 in Water-Supply Paper 335. Flowed in 1891.
1302	+1	48.1	Apr. 3, 1931	J,W	P	In Genoa.
1303	--	--	--	None	N	Well flowed 4 feet above ground in 1902. Now abandoned under highway.
1304	--	--	--	J,O	RR	Also reported as about 100 feet deep.
1305	--	--	--	J,E, 1	D,S	In Genoa.
1306	--	--	--	J,H	D,S	

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Layno-Texas Company.

## Records of wells in Harris County--Continued

No.	Distance from Webster	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
1307	7 miles northwest	C. D. Rogers	-- Anshutz	--	110	3	100	10
1308	6½ miles northwest	J. M. West	--	--	101	2	--	--
1309	do.	do.	--	--	85	6	--	--
1310	6 miles northwest	Layne & Woodburn	Layne-Texas Co.	--	1,003	12	355 575 676 726 802 854	192 29 31 20 23 37
1311	7 miles west northwest	T. C. Dunn	H. W. Boehm	--	550	24	938	23
1312	do.	do.	Layne-Texas Co.	1905	885	24	690 762	40 83
1313	do.	do.	--	--	100+	10	--	--
1314	5½ miles west northwest	do.	-- Lowry	1930	87	2	--	--
1315	5 miles northwest	Steve Waldrip	do.	--	105	4	--	--
1316	6 miles northwest	William Jacobs	--	--	100	2	--	--
1317	5½ miles northwest	J. W. Alford	--	--	20	6	--	--
1318	do.	J. M. West	-- Cronshaw	--	90	2	--	--
1319	6 miles northwest	Ellington Field	--	--	85	2	--	--
1320	5½ miles northwest	do.	--	--	210	8	--	--
1321	5 miles northwest	Abandoned Fig plant	--	--	78	4	--	--
1322	2¾ miles northwest	Roy West	--	--	--	--	--	--
1323	do.	J. M. West	--	--	90+	2	--	--
1324	1½ miles northwest	do.	--	1895?	400+	3	--	--
1325	1½ miles north northwest	do.	--	--	--	30	--	--
1326	2¼ miles west	G. R. Peck	Pat O'Day	1923	510	4	470	40
1327	3¼ miles west	Frank Peck	Layne-Texas Co.	1906	733	30	464	140
1328	4 miles west	J. W. Goar	--	--	32	10	--	--
1329	do.	do.	Pat O'Day	1924	473	3	--	--
1330	do.	J. T. Cantwell	do.	1924	243	4	--	--
1331	3 miles west	G. D. Scott	--	--	30+	2	--	--

## 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			
1307	+1	13.7	Sept. 30, 1932	None	N	12 foot strainer at bottom.
1308	--	--	--	J, W	D, S	
1309	0	9.8	Oct. 6, 1932	None	N	
1310	--	--	--	None	N	Rice irrigation well, now caved in. Casing; 377 feet of 12-inch, 11 5/8-inch set at 547 feet, and 9 5/8-inch to 961 feet. Screens set at 377 to 547, 584 to 604, 675 to 707, 730 to 746, 805 to 825, 859 to 891, and 941 to 961
1311	--	--	--	T	N	Formerly used for rice irrigation. <span style="border: 1px solid black; padding: 0 5px;"> </span> feet.
1312	+1	28.1	Apr. 3, 1931	T	N	Do.
1313	+ $\frac{1}{2}$	4.2	do.	J, W	S	
1314	--	--	--	J, H	D, S	
1315	+2	4.9	Oct. 6, 1932	J, E	D, S	
1316	--	--	--	J, W	D, S	
1317	--	--	--	J, E	--	Used at filling station.
1318	+1	11.6	Oct. 6, 1932	None	N	
1319	--	--	--	J, W	S	
1320	+3	9.5	Oct. 6, 1932	None	N	
1321	0	4.3	do.	None	N	
1322	--	--	--	T, E	Irr	
1323	--	--	--	J, W	S	
1324	+1	42.9	Oct. 7, 1932	J, W	S	
1325	+3 $\frac{1}{2}$	52.1	do.	T	N	
1326	--	--	--	J, W	D, S	
1327	+1	43.2	Sept. 11, 1931	T	N	679 feet of 9 5/8-inch casing. Screens set at 450 to 550 and 649 to 669 feet.
1328	--	--	--	J, H	D, S	
1329	--	--	--	J, H	D, S	Screen set at 433 to 473 feet.
1330	0	10.3	Oct. 7, 1932	J, H	D, S	Screen set at 220 to 240 feet.
1331	--	--	--	J, G	S	

## Records of wells in Harris County--Continued

No.	Distance from Webster	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness (ft.)
1332	2 $\frac{1}{2}$ miles west	Robert Bruce	--	1902?	500	24	--	--
1333	2 $\frac{1}{8}$ miles west southwest	do.	--	--	500	4	--	--
1334	1 $\frac{1}{2}$ miles west southwest	Banker's Mortgage Co.	--	1928	600+	4	--	--
1335	1 $\frac{1}{2}$ miles southwest	Raymond Pearson	Layne-Bowler Co.	1907	700	30	600	--
1336	3 $\frac{1}{4}$ miles southwest	--	--	--	20	4	--	--
1337	do.	Thomas Heitling	F. A. Boehm	1909	662	30	491 557 636	61 73 20
1338	1 $\frac{1}{2}$ miles west southwest	H. W. Bouton	H. W. Bouton	1906	185	3	--	--
1351	2 $\frac{1}{2}$ miles north northeast	S. T. Nishimura	-- Price	--	475	10	--	--
1352	1 $\frac{1}{2}$ miles north northeast	Y. Koniski	Layne-Texas Co.	--	700+	10	--	--
1353	$\frac{3}{4}$ miles north	L. Onishi	do.	--	615+	9- 5/8	--	--
1354	$\frac{1}{8}$ mile northwest	Roy West	do.	--	677	24	--	--
1355	$\frac{1}{8}$ mile north	T. Onishi	Layne-Bowler Co.	1907	670+	10	--	--
1356	$\frac{1}{8}$ mile northwest	A. A. Polk	-- Wilson	1932	130	4	103	22
1357	In Webster	G. H. & H. R.R.	--	--	565+	--	--	--
1358	do.	D. F. Erwin	--	1890?	500+	4	--	--
1359	do.	G. H. Whitcomb	Aberson & Altemus	--	563	2	--	--
1360	$\frac{1}{4}$ mile east	Mrs. -- Pain	N. J. Bratcher	1903?	659	24	525	134
1361	$\frac{1}{4}$ mile southwest	F. M. Benschoter	F. M. Benschoter	--	20	14	--	--
1362	do.	Webster School	Wylie Burns	1927	500+	3	--	--
1363	$\frac{1}{2}$ mile south southwest	Mrs. A. L. Smith	--	--	570	24	--	--
1364	$\frac{1}{2}$ mile south	Humble Pipe Line Co.	--	--	81	4	--	--
1365	1 $\frac{1}{2}$ miles southeast	do.	Layne-Texas Co.	1927	652	10	560	92
1366	2 miles south southeast	Galveston-Houston Electric Co.	do.	1910	788	6	564 609	21 44

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; F, flow; C, centrifugal; J, jack or suction; B, bucket; E, electric; S, steam; O, oil; G, gas; H, hand.

c/ P, public; Irr, 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			
1332	--	--	--	T	N	Well 533 in Water-Supply Paper 335.
1333	+2 $\frac{1}{2}$	38.5	Oct. 7, 1932	A	N	
1334	--	--	--	A, G, 3	D, S	
1335	+ $\frac{1}{2}$	32.4	Oct. 7, 1932	J, V	D, S	
1336	+1	16.2	Oct. 6, 1932	None	N	
1337	+1	18.1	do.	T	N	Casing; 55 feet of 30-inch and 11 5/8-inch to bottom. Screens set at 493 to 550 and 565 to 653 feet. Formerly used
1338	--	--	--	J, W	D, S	for rice irrigation.
1331	--	--	--	None	N	Well 526 in Water-Supply Paper 335.
1352	--	--	--	None	N	Well 532 in Water-Supply Paper 335.
1353	--	--	--	None	N	Well 527 in Water-Supply Paper 335.
1354	0	31.9	Apr. 3, 1931	T	N	
1355	--	--	--	None	N	Well 531 in Water-Supply Paper 335.
1356	--	--	--	J, E, $\frac{1}{2}$	D, S	
1357	--	--	--	--	RR	
1358	--	--	--	J, E, $\frac{1}{2}$	D, S	Reported flow 13 feet above ground in 1893.
1359	+2	39.2	Sept. 30, 1932	J, E, 1	D, S	Reported water level as 17 feet below ground in 1920.
1360	+2	31.5	Apr. 3, 1931	J, E	D, S	Well 522 feet in Water-Supply Paper 335. Head reported as 18 feet above ground
1361	--	--	--	J, H	S	in 1903.
1362	--	--	--	J, E, $\frac{3}{4}$	D	
1363	+3	36.9	Oct. 7, 1932	T, O, 50	Irr	
1364	--	--	--	J, V	D, S	
1365	0	15.7	Sept. 15, 1927	T, E, 25	Ind	Casing; 102 feet of 10-inch and 8-inch to bottom. Screen set at 583 to 649
1366	--	--	--	A, E	D, RR	788 feet of 6-inch casing. feet. Screens set at 568 to 587 and 611 to 653 feet.

d/ See table of analyses for analysis of water from this well.

e/ See "Table of field tests" for tests of hardness, chloride and sulphate in water from this well.

f/ Reported by driller.

g/ Measured by Southern Engine and Pump Company.

h/ Measured by Inyo-Texas Company.

Records of field tests of samples from wells in Harris 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 <sub>3</sub> a/	Chloride (Cl)	Sulphate (SO <sub>4</sub> ) b/
3	T. W. Ray	Nov. 6, 1931	71	70	60	5
6	H. H. Strickland	Apr. 13, 1931	30	350	200	30
9	J. E. Ellison	-	120±	120	60	5
10	J. A. Hafner	May 13, 1931	21	190	90	-
11	do.	Apr. 13, 1931	70	85	65	1
12	do.	do.	61	50	60	4
15	W. P. Castle	-	90	90	60	3
31	R. L. Burton	Apr. 13, 1931	297	130	60	5
33	W. G. Neely	do.	61	150	85	20
34	O. M. Taylor	-	53	120	70	5
35	do.	Apr. 25, 1931	35	240	160	5
71	Stanolind Pipe Line Co.	-	65	50	20	-
92	E. N. Wunsche	June 1, 1931	35	75	190	25
93	I. & G. N. R. R.	-	1,070	40	40	5
98	R. W. Houk	-	137	190	35	2
100	C. B. Bammel	Mar. 27, 1931	24	110	60	5
101	do.	do.	142	120	40	5
102	C. P. Addison	do.	20	120	95	-
103	do.	Nov. 9, 1931	40	80	40	1
104	do.	do.	155	110	25	1
105	Marshall Elzy	June 1, 1931	20	300	160	30
121	Warren Ranch	-	-	60	40	1
122	do.	-	-	70	50	1
123	do.	-	80±	100	40	1
125	do.	-	2,151	90	30	1
126	do.	-	4,828	110	30	1
127	-	-	-	75	50	1
128	-	-	-	90	65	1
131	C. E. House	-	92	110	50	2
133	J. H. Huber	-	95±	120	55	2
135	Ira Southard	-	90	140	40	5
136	J. Freeman	Mar. 24, 1931	138	130	40	5
140	Oscar Kemp	-	359	150	40	10
165	P. H. Skinner	-	1,717	100	800	5
166	E. C. Smith	Oct. 31, 1931	21	120	15	5
169	H. & T. C. R. R.	Apr. 3, 1931	400	110	50	5
170	E. H. Juerzen	-	102	150	50	2
173	C. L. Nash	Apr. 3, 1931	110	170	45	5
174	do.	-	2,830	300	3,500	30
177	K. P. Black	Apr. 3, 1931	65	300	20	5
181	J. Williams	May 19, 1931	60	240	15	5
183	J. J. Sweeney	Mar. 12, 1931	284	200	60	5
186	-- Tucker, leaser	do.	-	180	50	10
202	R. H. Richards	May 19, 1931	48	260	20	10
205	Humble Pipe Line Co.	Apr. 2, 1931	700±	220	50	10
206	R. B. Tucker	do.	450±	400	160	25
211	E. T. Weaver	do.	40	400	90	-
212	H. & T. C. R. R.	-	56	1,000	700	20
213	R. B. Herring	-	30	330	35	5
214	Mrs. J. A. Herring	-	66	550	190	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 Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO <sub>3</sub> a/	Chloride (Cl)	Sulphate (SO <sub>4</sub> ) b/
215	Mrs. J. A. Herring	May 19, 1931	42	300	95	10
217	H. I. Mooney	Mar. 28, 1931	40	-	12	-
221	-- Eubanks	-	210+	220	50	10
222	S. Terpstra	-	194	250	50	5
223	G. Terpstra	-	94	340	80	5
224	Ed Schoenfield	-	65	300	20	5
225	Trinity & Brazos Valley Rr.	-	616	180	74	10
241	C. H. Daniels	-	40	340	80	10
242	Mrs. Anna Foldin	-	48	390	130	15
243	H. H. Radley	-	67	1,100	750	20
244	J. W. White	-	44	310	200	30
245	-- Forney	-	54	500	450	40
246	S. H. Hilderbranna	-	48	300	100	10
247	W. H. Wood	-	56+	400	160	10
248	E. E. Radenz	-	50+	330	120	5
249	A. Swanke	-	30	2,000	2,000	90
250	do.	-	33	300	100	15
251	Ed E. Fox	-	50+	310	70	15
252	Joe Polk	-	80	310	65	5
255	J. M. Blake	Mar. 27, 1931	41	330	130	30
256	do.	do.	189	100	80	5
257	M. C. Oldham	-	80+	300	90	15
258	-- Lipper Well No. 1	Nov. 18, 1931	3,213	220	40	10
260	Steve Pamuk	-	112	300	65	5
261	N. O. Alford	-	200+	125	20	5
263	O. D. Heath	June 1, 1931	45	110	55	5
265	H. Weary Place	May 29, 1931	-	30	115	5
269	L. M. Bronc	May 28, 1931	38	120	40	10
283	H. Ritter	do.	23	230	110	30
294	do.	-	50	340	120	40
321	T. & N O. Rr.	Oct. 29, 1931	560	1	-	-
322	T. E. Reidland	-	270	45	35	1
325	Harris Service Sta.	-	247	45	35	1
326	Gulf Pipe Line Co.	Oct. 29, 1931	533	45	30	10
327	-	do.	220	50	35	5
328	J. Bennett	-	86	210	40	1
329	Sam Sampson	Oct. 30, 1931	25	240	30	5
353	A. E. Thompson	-	1,602	500	2,000	40
357	P. V. Cook	Mar. 24, 1931	-	150	50	5
361	Acme Planting & Developing Co.	Mar. 12, 1931	368	170	55	5
362	E. G. Stockdick	do.	500	180	65	10
363	F. W. Morton	-	188	65	50	2
365	M. K. & T. R.R.	-	202	190	65	-
368	W. C. Hickman	-	36	200	30	5
370	J. M. Johnson	Mar. 12, 1931	625	180	60	10
387	H. B. Crowder	Sept. 14, 1932	-	120	45	50
388	-	do.	180	160	40	5
389	John Wendling	-	50	170	50	5
390	-- Fitch	Sept. 21, 1932	33	90	20	5
392	W. A. Euton	-	24	280	40	5

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 Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO <sub>3</sub> a/	Chloride (Cl)	Sulphate (SO <sub>4</sub> ) b/
393	-- Paddock	-	72	260	50	10
395	A. J. Jordens	-	120	250	40	5
396	H. Steckmaier	-	94	230	40	5
397	August Otto	-	-	280	60	5
399	Gertie Rice Farm	-	326	170	60	5
401	W. H. Grisbee	-	45	260	70	5
402	Wm. Druesedow	-	52	220	75	10
403	C. Beckendorf	-	27	300	40	5
404	Bear Creek Gun Club	-	100	270	65	5
405	Schulz Bros.	-	24	280	65	5
406	Addicks School	Sept. 3, 1931	105	280	50	5
401	Frank Edwards	-	70	400	70	5
422	J. C. Byers	-	-	500	70	5
423	-- Koehn	-	107	260	45	15
424	L. Gastmann	-	20	280	240	10
425	J. J. Settegast Jr.	-	80	280	70	5
426	F. L. Sheckels	-	42	460	95	5
427	G. C. Cox	-	53	320	50	10
428	H. A. Seathoff	-	20	280	35	5
431	G. E. Wilkins	-	200	20	55	5
432	do.	-	-	140	75	-
433	L. Z. Pledger	-	41	190	50	5
434	do.	-	58	170	50	5
435	R. C. Peters	May 19, 1931	45	250	35	5
436	G. F. Brown	-	49	240	35	5
438	W. A. Summermeier	-	56	340	75	5
439	F. W. Tanner	Apr. 2, 1931	57	320	65	20
441	J. F. Bloodworth	May 19, 1931	70	360	30	20
442	Fairbanks School	-	55	380	110	10
443	J. F. Bane	-	50	430	160	10
444	J. Stevens	Apr. 9, 1931	10	550	380	40
445	H. Collett	-	72	450	240	10
446	C. W. Hahl Co.	do.	60	600	500	15
447	E. A. Reneau	-	20	380	90	5
448	C. Schmidt	-	-	450	80	5
449	J. C. Guhn	-	44	380	210	10
451	John Reese	Apr. 2, 1931	55	850	650	20
452	Henry Lange	-	39	450	65	10
454	H. & T. C. Br.	Apr. 2, 1931	124	450	150	35
455	Aug. Wolla	do.	47	340	50	5
457	Frank Willberg	do.	75	520	50	5
458	R. D. Wirt	-	300	300	75	5
460	T. Rauh	-	138	340	80	40
461	R. F. Falk	-	35	330	45	5
462	J. L. Sampson	-	60	300	10	5
463	C. E. Barg	-	40	300	20	5
464	H. C. Bard	-	24	300	35	5
465	W. R. Sonnen	-	30	440	210	5
466	Bauer Lumber Co.	June 27, 1932	50	280	75	25
468	H. A. Riedel	-	42	360	25	5
469	S. T. Berry	-	40	340	50	5
470	Henry Sauer	-	75	420	70	10
471	C. N. Ogden	-	183	240	65	5

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 Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO <sub>3</sub> a/	Chloride (Cl)	Sulphate (SO <sub>4</sub> ) b/4
481	Chris Pillot	-	102	240	75	5
482	J. Gasaway	-	50	240	120	25
483	V. Foster	-	126	280	120	1
493	T. X. Schuchert	-	37	260	40	5
494	A. H. Eicke	Feb., 1928	334	240	130	10
501	F. Christoph	-	28	330	25	5
502	J. A. Grein	-	27	360	70	5
503	B. E. Eisman	-	105	330	60	10
504	A. B. Smith	-	35	260	70	5-
505	Mrs. -- Rogers	-	80	300	20	5-
506	White Oak School	-	30	270	60	5-
507	Otto Adams	-	175	360	120	10
508	W. Hearold	May 21, 1931	175	340	85	-
509	do.	-	51	300	110	15
510	do.	May 30, 1931	25	370	25	10
512	Ed. Nichols	Mar. 20, 1931	50	400	100	10
515	Melrose Stock Farm	-	65	310	45	5
516	-- Sabbath	-	110	400	100	5
519	F. M. Myers	Mar. 30, 1931	52	400	35	5
520	Woodlawn Cemetery	-	158	-	70	-
521	M. R. Pretty	-	90	240	70	5
522	Bethel Cemetery	-	-	300	65	5-
523	M. L. Hilton	-	60	-	35	-
524	W. T. Carter Jr.	July 3, 1929	293	210	75	5-
525	H. C. Weiss	July 26, 1930	173	-	60	-
526	C. H. Barnes	-	80	-	70	-
527	Chas. Fitch	-	150	-	60	-
528	Judge Kennelly	-	250	-	60	-
529	T. Bertani	-	70	-	35	-
561	U. H. Valintino	June 20, 1932	118	-	55	-
562	C. V. Wiseman	-	118	-	60	-
563	Tall Timber Stables	-	50	-	40	-
564	Hegan Service Sta.	-	-	320	40	-
					85	35
565	L. R. Bennett	-	-	350	50	140
566	Ida Zohn	-	204	260	70	10
567	L. H. Georgi	-	53	440	140	10
568	W. H. Volmer	-	51	360	270	20
569	K. Y. Niemann	-	40	420	180	25
570	O. M. Perkins	-	54	490	30	5
571	F. R. Schawatk	-	260	220	100	10
572	J. G. Alexander	-	120	190	65	10
573	-- Beinhorn	-	255	240	70	15
574	Ed. Pendarvis	-	300	250	65	5
575	Heights Golf Course	-	162	250	75	20
576	Bill Monk	-	120	300	90	20
577	John Rinkel	-	50	290	35	5-
578	-- Wright	-	48	240	70	10
579	G. H. Mack	-	35	340	55	10
580	V. McVaney	-	135	270	80	10
581	H. R. Kerley	-	44	360	60	5
583	J. W. Herridge	-	90	380	45	5-

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 Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO <sub>3</sub> a/	Chloride (Cl)	Sulphate (SO <sub>4</sub> ) b/4
584	J. C. Lawton	-	45	400	40	15
585	Houston Textile Mills	Mar. 21, 1931	950	-	-	-
586	Heights Ice Co.	Mar. 7, 1929	35	21	65	5
588	Oriental Textile Mills	-	800+	110	30	3
589	City of Houston	-	2,100	8	70	5
612	River Oaks Country Club	Jan. 19, 1931	1,338	150	35	2
617	Henke & Pillot	Aug. 15, 1929	571	22	70	5-
618	Fidelity Products Co.	Jan. 23, 1931	35	26	6	5
619	do.	do.	825	14	35	1
610	Standard Rice Milling Co.	Jan. 25, 1931	853	140	30	1
621	Public Laundries	May 2, 1927	1,379	65	4	5-
651	Tony Frank	June 29, 1931	60+	410	130	25
654	H. A. Burden	June 28, 1931	110+	300	60	10
655	J. W. Lambert	do.	55	28	45	10
656	Texas Creosoting Co.	Jan. 9, 1931	665	150	35	30
662	South Texas Cotton Oil Co.	Jan. 14, 1931	834	15	40	30
669	Willbergs Laundry	Apr. 26, 1932	958	9	35	5
677	Houston Lighting & Power Co.	Jan. 29, 1931	873	12	3	25
681	Southern Pacific Rr. Building	-	661	12	3	15
694	First National Bank	-	350+	190	45	10
700	Rice Hotel	-	1,395	15	40	10
710	Niels Esperson Bldg.	Feb. 18, 1931	883	13	3	10
715	Rossonion Apts.	-	820	135	30	10
728	Burkherts Laundry	July, 1931	1,402	3	40	10
731	I. & G. N. R.R.	-	1,390	3	50	5-
732	Gould Wet Wash Laundry	-	1,392	3	55	5-
741	Houston Elec. Co.	-	537	15	30	1
744	City of Houston	-	2,150	15	90	5-
747	Texas & New Orleans R.R.	May 1925	948	120	30	5
748	Gulf Pipe Line Co.	Jan. 14, 1931	721	24	160	-
749	H. Jaschke	-	179	25	70	15
758	J. H. Fassmore	Mar. 31, 1931	148	23	7	30
781	Southern Floral Co.	Apr. 7, 1931	196	25	70	5
782	Post Oak School	Apr. 20, 1928	244	23	5	5
783	Houston Riding & Polo Club	-	350+	-	40	-
784	Houston Gun Club	-	360+	-	60	-
788	Sheperd Laundries	July, 1930	1,416	70	60	5-
789	Henke & Pillot	-	565	23	50	5
793	City of Houston	-	2,121	65	55	1
797	Rice Institute	Jan. 24, 1931	910	110	25	15
808	Gem Elec. Co.	Apr. 1929	34	23	50	1
809	do.	Feb. 16, 1931	1,100+	55	50	5-
810	Harris County	-	650+	18	40	5
811	do.	Apr. 17, 1931	385	23	5	10
813	-- Grant	-	28+	310	210	30
814	R. C. Wood	-	60+	370	250	100
815	Greenwood Sanitarium	-	892	110	3	1

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 Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as $\text{CaCO}_3$ a/	Chloride (Cl)	Sulphate ( $\text{SO}_4$ ) b/4
816	Hans Peterson Nursery	-	-	24	13	3
817	Main Street Air Port	-	-	21	4	3
818	-- Redford	-	36+	3	2	3
819	R. Ramon	-	30+	70	6	15
821	Houston Gulf Gas Co.	-	211+	20	5	5-
822	Humble Pipe Line Co.	-	256	22	55	5
823	Moody Corporation	-	275	2	35	2
824	Geo. Jones	-	65	23	18	5-
825	Navarro Oil Co.	-	385	27	65	5-
826	J. D. Hughes	-	30+	390	100	5
830	Sam Taylor	-	40+	350	35	5-
831	do.	-	3	4	100	5
832	Burt Taylor	-	170	34	6	5-
833	W. E. Taylor	-	60	350	45	5-
834	Navarro Oil Co.	-	38	160	30	5-
835	Gulf Production Co.	-	22	130	310	25
838	L. E. Kelly	-	60+	420	220	5
839	L. N. Liesman	-	231	21	5	3
862	Houston B lt & Terminal Rr.	-	852	1	55	5
870	Hygeia Ice Co.	Jan. 16, 1931	728	190	35	5
883	Carnegie Steel Co.	-	841	9	30	2
892	Lone Star Cement Co.	Jan. 21, 1931	1,284	35	45	3
900	Golf Crest Club	Feb. 19, 1931	2,560	30	40	5
906	Gardenville Subdivision	June, 1929	875	85	35	15
924	F. P. Schallies	-	13	180	4	25
928	Harris County	Mar. 28, 1931	125+	11	45	5
930	Sheldon Kota	-	3	45	4	3
932	B. N. Garrett	-	247+	85	30	5

Well No.	Owner	Date of collection	Depth of well (ft.)	Bicarbonate ( $\text{HCO}_3$ )	Chloride (Cl)	Sulphate ( $\text{SO}_4$ ) b/4
941	W. H. Gilbert	-	128	6	8	5
951	P. C. Ulrich	-	400+	21	240	-
952	A. E. Ulrich	Jan. 22, 1932	88	33	250	-
953	Frank Casino	-	97	34	22	-
954	N. E. Whisenhart	-	100+	35	160	-
955	-- Whitlock	-	160	34	120	-
957	J. W. Flummer	Jan. 22, 1932	1	350	55	-
959	S. M. Johnson	Jan. 21, 1932	-	44	130	-
960	J. M. Johnson	do.	344	37	105	-
961	J. W. Wilson	do.	94	39	50	-
962	C. Spenser	-	102	350	110	-
963	Mrs. J. E. Portis	-	360	26	4	-
964	H. F. Massey	-	53	35	17	-
965	C. Thompkins	Jan. 21, 1932	344	26	65	-
967	J. W. Newton	-	333	27	50	-
968	Mrs. L. Terry	-	365	27	55	-
969	Saul. Donelley	-	36	270	40	-
970	S. R. Brooks	July, 1931	337	29	120	-
971	R. C. Smith	-	315	26	45	-

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 Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Bicarbonate (HCO <sub>3</sub> )	Chloride (Cl)	Sulphate (SO <sub>4</sub> ) b/
972	W. R. Rendon	Jan. 19, 1932	95	330	140	-
973	C. M. Hamor	-	106	310	140	-
975	Cedar Bayou School	Jan. 19, 1932	315	270	50	-
976	Z. T. Wilburn	-	320	260	50	-
977	A. W. Fayle	-	327	250	45	-
978	Fayle Estate	Jan. 19, 1932	330	330	40	-
979	E. Ilfrey	-	320	250	45	-
980	E. G. Casey	-	520	260	50	-
1001	Bush Terrace Water Co.	Nov. 11, 1931	437	320	60	-
1002	do.	-	437	290	60	-
1003	S. G. Davidson	-	20	35	70	-
1004	-- Beilstein	Nov. 12, 1931	110	340	70	-
1005	do.	-	640	330	110	-
1006	Cullen & West	Nov. 18, 1931	320	360	110	-
1007	Crown Oil Co.	-	575	370	290	-
1008	S. Leidmeyer	Nov. 1, 1931	109	310	250	-
1010	John Gillard	Nov. 18, 1931	19	-	65	-
1011	J. L. Sims	Jan. 19, 1932	325	280	460	-
1012	A. M. Wilburn	do.	320	260	490	-
1013	C. McKinney	-	325	270	50	-
1014	M. George	-	515	320	240	-
1015	Mrs. L. Sheperd	-	365	260	50	-
1016	John Kilgore	-	490	380	130	-
1017	W. G. Bayliss	-	100+	340	170	-
1018	W. Wright	Jan. 19, 1932	85	370	140	-
1051	Humble Oil & Ref. Co. Well 12	Oct., 1931	562	260	50	-
1053	Humble Oil & Ref. Co. Well 19	do.	1,001	320	140	-
1054	Humble Oil & Ref. Co. Well 15	do.	572	280	60	-
1056	Humble Oil & Ref. Co. Well 9	do.	922	380	92	-
1057	Humble Oil & Ref. Co. Well 7	do.	515	300	62	-
1058	Humble Oil & Ref. Co. Well 13	do.	542	300	99	-
1059	Humble Oil & Ref. Co. Well 18	do.	1,637	430	1,300	-
1063	Humble Oil & Ref. Co. Well 6	do.	968	310	100	-
1064	Humble Oil & Ref. Co. Well 4	do.	960	340	110	-
1067	Humble Oil & Ref. Co. Well 10	do.	545	290	75	-
Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO <sub>3</sub> a/	Chloride (Cl)	Sulphate (SO <sub>4</sub> ) b/
1103	G. H. & S. A. B.S.	-	770+	35	130	5
1104	City of La Porte	Apr. 2, 1931	570	40	85	5
1151	Southern Pacific Fr.	-	773	85	30	15

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 Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO <sub>3</sub> a/	Chloride (Cl)	Sulphate (SO <sub>4</sub> ) b/4
1152	Kirby Lumber Co.	-	-	160	35	15
1155	Gulf Ref. Co.	Mar. 27, 1931	752	120	30	15
1160	Allendale Subdivision	-	318	150	130	5
1162	Sinclair Ref. Co.	-	1,223	60	45	10
1170	Houston Lighting & Power Co.	Feb. 25, 1931	836	85	40	1
1171	Houston Pine Line Co.	-	254	130	35	10
1179	American Petroleum Co.	Mar. 4, 1931	707	95	40	5
1181	Philip Petroleum Co.	-	681	110	30	10
1187	City of Pasadena	-	-	50	35	15
1194	Deepwater Subdivision	-	811	70	50	15
1195	Deepwater School	-	130±	400	200	20
1200	Shell Petroleum Corp.	-	487	75	50	10
1201	do.	-	860	60	45	5
1202	-- Seabold	-	504	75	45	5
1205	City of South Houston	-	780±	30	45	5
1212	-- Head	-	106	320	70	5
1213	H. W. Boehm	-	91	370	45	5
1214	R. B. McCollough	-	502	100	70	5
1215	A. Howard	-	125	340	190	5
1218	J. K. Lee	-	125±	500	460	5
1220	Joe Hansen	-	25±	1,100	1,200	120
1221	Vincent Lopez	-	35±	1,300	1,400	40
1222	do.	-	100	430	270	25
1223	C. A. Graham	Sept. 29, 1932	103	310	140	5
1225	W. S. Craig	do.	36±	330	80	5
1227	Schoemann Produce Co.	-	35	390	30	5
1275	Mike Martin	-	40	500	400	50
1302	City of Genoa	Apr. 3, 1931	832	50	85	5
1304	G. H. & H. Rr.	-	683	250	55	5
1305	-- Davidson	-	100±	270	45	5
1306	C. D. Rogers	-	17	360	30	20
1308	J. M. West	-	101	300	60	5
1313	T. C. Dunn	Apr. 3, 1931	100±	350	75	10
1314	do.	-	87	400	140	5
1315	Steve Waldrip	Oct. 6, 1932	105	370	140	15
1317	J. W. Alford	-	20	500	270	20
1322	Roy West	-	-	70	70	5
1323	J. M. West	-	90±	400	130	10
1324	do.	Oct. 7, 1932	40±	40	50	5
1326	G. R. Peck	-	510	125	60	5
1328	J. W. Goar	-	32	550	550	30
1329	do.	-	473	85	65	5
1331	G. D. Scott	-	30±	700	600	10
1334	Banker's Mortgage Co.	-	600±	60	50	5
1336	Raymond Pearson	Oct. 7, 1932	700	450	320	15
1338	H. W. Bouton	-	185	140	120	5
1356	A. A. Polk	-	130	300	340	20
1357	G. H. & H. Rr.	-	565±	80	70	5
1358	D. F. Irvin	-	50±	45	45	5
1359	G. H. Whitcomb	Sept. 30, 1932	563	50	45	5
1361	F. M. Benschoter	-	20	430	460	45
1362	Webster School	-	50±	60	45	5
1364	Humble Pipe Line Co.	-	81	550	600	45
1365	do.	Sept. 15, 1927	652	45	1300	5

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 Harris County, Texas

Well No.	Owner	Date of collection	Depth of well (ft.)	Total dissolved solids (calc.)	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)
6	H. H. Strickland	Aug. 2, 1933	30	-	-	-	-	-
12	J. A. Hafner	do.	61	2/ 122	-	4.1	12	3.2
35	O. M. Taylor	do.	35	-	-	-	-	-
38	Louis Hegar	Aug. 8, 1933	75	-	-	1.3	-	-
39	Mrs. Joe Blake	Aug. 5, 1933	38	-	-	0.95	-	-
51	H. C. Nichols	do.	64	-	-	0.43	-	-
52	J. Hirsch	do.	37	-	-	0.34	-	-
53	E. Schultz	Aug. 4, 1933	37	2/ 76	-	0.35	5.1	3.1
54	Bowers School	do.	28	-	-	0.3	-	-
55	Fritz Treichel	do.	21	-	-	0.63	-	-
74	M. F. Michel	do.	25	-	-	0.64	-	-
75	T. J. Kuehn	do.	30	2/ 164	-	0.4	17	9.2
76	W. M. Euvinghausen	do.	96	-	-	-	-	-
77	A. Euvinghausen	do.	26	-	-	10	-	-
78	S. Bloom	do.	30+	-	-	0.54	-	-
93	Missouri Pacific R.R. Co.	Mar. 31, 1935	1,070	2/ 344	-	0.05	16	5.9
105	Marshall Elzy	Aug. 8, 1933	20	-	-	-	-	-
131	C. E. House	Aug. 9, 1935	92	2/ 213	-	0.02	36	5.7
136	J. Freeman	Aug. 7, 1933	138	2/ 252	-	0.35	61	3.4
139	H. & T. C. R.R.	Sept. 28, 1929	400	2/ 203	26	-	25	3.2
173	C. L. Nash	Aug. 2, 1933	110	2/ 243	-	0	50	5.5
202	R. H. Richards	Aug. 19, 1932	48	2/ 400	-	1.3	87	15
212	H. & T. C. R.R.	May 9, 1952	56	2/ 1,344	28	0.41	278	59
214	Mrs. J. A. Herring	Aug. 2, 1933	66	-	-	-	-	-
219	Tom Franklin	Aug. 4, 1933	19	-	-	0.56	-	-
220	Mrs. L. Hargrove	do.	28	-	-	-	-	-
223	G. Terpstra	Aug. 3, 1933	94	2/ 474	-	1.2	81	36
225	Trinity & Brazos Valley R.R.	Oct. 27, 1931	616	2/ 332	40	-	65	5.7
243	H. H. Radley	May 9, 1932	67	1,429	24	0.15	266	99
247	W. H. Woods	Aug. 3, 1933	56	-	-	-	-	-
370	J. M. Johnson	Aug. 2, 1932	625	327	31	0.1	68	7.3
396	H. Speckmaier	Aug. 7, 1933	94	2/ 300	-	0.92	75	9.6
399	Gertie Rice Farm	Aug. 1, 1932	326	2/ 285	-	0.03	39	7.0
424	Louis Gastman	Aug. 7, 1933	20	-	-	-	-	-
435	L. Z. Pledger	Aug. 2, 1933	41	2/ 276	-	0.02	57	11
449	F. W. Tanner	Aug. 19, 1932	57	2/ 491	-	0.05	73	29
446	C. W. Hahl Co.	do.	60	2/ 959	-	0.05	104	50
454	H. & T. C. R.R.	Sept. 27, 1929	124	2/ 512	29	-	118	17
465	W. R. Sonnen	Aug. 7, 1933	30	-	-	1	-	-
492	G. H. & S A R.R.	May 5, 1931	220	2/ 484	6.5	3/ 1.6	77	21
568	W. M. Volmer	Aug. 27, 1932	31	2/ 969	-	0.08	102	24
575	Heights Golf Course	July 25, 1933	162	2/ 405	-	0.18	66	22
579	C. H. Mack	July 21, 1933	35	2/ 546	-	0.08	83	29
4/ 589-S	City of Houston	Arr. 22, 1931	2,090	2/ 618	14	3/ 8.0	6	1.8
5/ 589-S	do.	July 22, 1931	2,090	2/ 508	5	3/ 2	23	7.6

1/ Combined figures for sodium and potassium were not determined, but were calculated as sodium.

2/ Sum of constituents reported.

3/ Iron and aluminum oxides.

4/ Sample collected with well flowing.

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

Well No.	Sodium	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub>	Analyst
6	-	-	24	23	196	240	336	Margaret D. Foster
12		31	50	3.3	46	1.7	43	Do.
35	-	-	35	2	138	84	177	Do.
38	-	-	16	1	8.0	28	36	Do.
39	-	-	38	2	22	2.1	35	Do.
51	-	-	28	1	14	6.7	26	Do.
52	-	-	44	2	30	44	51	Do.
53		16	20	2.2	15	25	25	Do.
54	-	-	103	5	16	9.2	111	Do.
55	-	-	12	1	31	47	51	Do.
74	-	-	12	2	84	327	172	Do.
75		34	26	2.7	72	36	80	Do.
76	-	-	134	3	24	0.2	114	Do.
77	-	-	70	3	52	2	60	Do.
78	-	-	124	4	207	22	255	Do.
93		119	25	11	52	0.05	64	Do.
105	-	-	285	13	149	13	318	Do.
131		41	167	3.7	44	0.4	113	Do.
136		52	237	4.0	35	0	175	Do.
169		41	124	4.4	42	-	76	C. S. Wilson
173		39	205	4.8	42	0.5	148	Margaret D. Foster
202		55	446	8	17	0.55	279	Do.
212	122	2.6	415	10	540	100	937	Do.
214	-	-	458	20	156	25	444	Do.
219	-	-	21	2	42	16	33	Do.
220	-	-	407	4	18	0.30	288	Do.
223		71	458	16	80	0.42	350	Do.
225		41	189	12	75	-	186	Do.
243	112	3.6	252	31	762	0	1,071	Do.
247	-	-	443	30	165	0.2	372	Do.
370	40	1.8	254	11	47	0.1	200	F. W. Lohr
396		30	271	13	39	0.3	227	Margaret D. Foster
399		35	260	4	42	0.2	201	Do.
424	-	-	361	18	294	3.3	234	Do.
433		34	200	4.4	59	12	188	Do.
439		83	432	19	59	0	301	Do.
446		203	532	25	315	0	465	Do.
454		46	427	29	55	8	365	C. S. Wilson
465	-	-	339	5	246	0.3	399	Margaret D. Foster
492		81	341	16	113	Trace	279	C. S. Wilson
538		216	380	40	242	158	353	Margaret D. Foster
575		63	303	10	94	0.3	255	Do.
579		98	548	14	50	6.2	323	Do.
4/ 589-S		210	439	7	110	-	24	Curtis Labs.
5/ 589-S		177	385	14	89	-	89	Do.

5/ Sample collected after pumping started.

6/ Composite sample.

7/ Screens

8/ Approximate

9/ Ship channel at deep water.



## Analyses of water from wells in Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Total dissolved solids (calc.)	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)
5/ 589-S	City of Houston	Sept. 12, 1931	2,090	2/ 451	19	3/ 0.2	25	9.1
6/ 589 & 592	do.	May 9, 1932	-	-	-	-	-	-
600	do.	Oct. 7, 1929	558	2/ 400	12	3/ 14	63	14
6/ 600 & 601	do.	May 9, 1932	-	-	-	-	-	-
620	Public Laundries	Mar. 30, 1935	1,379	2/ 328	-	0.03	8.2	2.3
651	Tony Frank	Aug. 8, 1933	50	-	-	2.3	-	-
654	H. A. Burden	July 21, 1933	110	2/ 404	-	0.08	78	21
6/ 688 & 690	City of Houston	May 9, 1932	-	2/ 362	20	0.17	22	5.8
710	Niels-Esperson Bldg.	Mar. 9, 1927	883	2/ 305	10	-	29	11
732	Gould Wet Wash Laundry	do.	1,392	2/ 415	6.5	-	7.2	11
740	Houston Electric Co.	July 21, 1933	537	2/ 258	-	0.56	32	10
744	City of Houston	May 9, 1932	2,150	-	-	-	-	-
793	do.	Sept. 12, 1931	2,150	2/ 542	17	3/ 1.2	15	4.8
6/ 793 & 795	do.	May 9, 1932	-	2/ 306	22	0.59	27	7.2
808	Gem Electric Co.	July 21, 1933	340	2/ 510	-	0.14	62	14
811	Harris County	do.	385	2/ 298	-	0.09	71	12
819	R. Ramon	May 10, 1932	30	1,482	21	0.12	140	79
821	Houston Gulf Gas Co.	Aug. 27, 1932	211	2/ 334	-	0.08	53	14
827	C. H. Driskell	Aug. 10, 1933	34	-	-	-	-	-
828	Rio Bravo Oil Co.	Aug. 12, 1933	248	-	-	0.15	-	-
829	C. S. Settegast	do.	350	-	-	-	-	-
833	W. E. Taylor	July 21, 1933	60	2/ 647	-	1	137	40
837	C. W. Mowery	Aug. 10, 1933	260	-	-	0.45	-	-
838	E. E. Kelly	July 21, 1933	60	2/ 626	-	3.2	80	38
6/ 857 & 858	City of Houston	May 9, 1932	-	-	-	-	-	-
878	Houston Compress Co.	Nov. 9, 1929	905	2/ 267	15	3/ 4.2	23	8.4
879	City of Houston	May 9, 1932	1,037	2/ 286	23	0.16	34	7.5
892	Lone Star Cement Co.	Feb. 4, 1929	1,284	2/ 425	14	3/ 1.4	8.4	2.4
895	City of Houston	May 9, 1932	1,050- 1,664	-	-	-	-	-
906	Gardenvilla Sub-division	June 7, 1929	875	2/ 316	15	3/ 2.6	26	5.6
1103	G. H. & S A R.R.	Oct. 6, 1931	770	2/ 726	10	3/ 4.6	5.7	2.6
1151	Southern Pacific R.R.	Sept. 19, 1930	773	2/ 301	35	-	24	4.1
1160 <sup>a</sup>	Allendale Sub-division	Aug. 1, 1933	160	-	-	2.9	-	-
1168	Houston Lighting & Power Co.	Mar. 1, 1922	823	2/ 281	11	3/ 1.4	18	6.7
1169	do.	do.	821	2/ 302	14	3/ 4.8	9.3	5.1
1195	Deepwater School	Aug. 11, 1933	130	-	-	-	-	-
1220	Joe Hansen	Aug. 1, 1933	25	-	-	-	-	-

Analyses of water from wells in Harris County--Continued  
Parts per million.

Well No.	Sodium	Potas- sium (K)	Bicar- bonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chlo- ride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub>	Analyst
5/ 589-S		144	330	9	82	-	10	Houston Labs.
6/ 589 & 592	-	-	313	8	62	0	74	E. W. Lohr
600		64	293	24	65	-	215	Curtis Labs.
6/ 600 & 601	-	-	260	12	50	0.2	182	E. W. Lohr
620		127	297	2	42	0.64	30	Margaret D. Foster
651	-	-	476	5	76	0.25	375	Do.
654		53	402	8.1	44	0	281	Do.
6/ 688 & 690	108	1.9	301	7.8	48	0	79	E. W. Lohr
710		75	230	21	31	-	118	Curtis Labs.
732		148	373	8.6	50	-	63	W. W. Curtis
740		58	234	13	30	0	121	Margaret D. Foster
744	-	-	380	1	91	0	18	E. W. Lohr
793		112	268	11	49	-	57	Houston Labs.
6/ 793 & 795	76	1.9	256	14	32	0.1	97	E. W. Lohr
808		41	270	12	48	0	212	Margaret D. Foster
811		29	254	9.2	51	0.4	227	Do.
819	298	4.8	342	136	640	0.25	674	Do.
821		60	276	17	54	0.20	190	Do.
827	-	-	504	8	107	0.5	294	Do.
828	-	-	276	11	32	0.2	183	Do.
829	-	-	272	14	31	1.1	183	Do.
833		46	440	10	126	71	506	Do.
837	-	-	281	14	27	0.3	132	Do.
838		112	377	17	142	1.2	356	Do.
6/ 857 & 858	-	-	301	10	46	0	63	E. W. Lohr
878		69	220	14	28	-	83	Houston Labs.
879	59	2.1	239	16	26	0.2	116	E. W. Lohr
892		159	354	12	53	-	31	Houston Labs.
895	-	-	402	1	36	-	4.5	E. W. Lohr
906		88	256	16	38	-	88	Houston Labs.
1103		289	570	-	133	0.9	25	C. M. Wilson
1151		79	228	16	31	0.5	77	C. S. Wilson
1160	-	-	358	8	445	0.96	154	Margaret D. Foster
1168		83	229	14	35	0.3	72	Penn. Power & Light Comm.
1169		103	227	12	41	0.5	44	Do.
1195	-	-	495	5	151	0.2	204	Margaret D. Foster
1220	-	-	287	72	570	1	428	Do.

## Analyses of water from wells in Harris County--Continued

Well No.	Owner	Date of collection	Depth of well (ft.)	Total dissolved solids (calc.)	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	
1275	Mike Martin	Aug. 11, 1933	40	-	-	-	-	-	
1302	City of Genoa	Mar. 30, 1935	832	2/ 461	-	0.12	11	3.7	
1314	T. C. Funn	Aug. 1, 1933	87	-	-	3.6	-	-	
1317	J. W. Alford	do.	20	-	-	3.3	-	-	
1329-A	J. W. Goar	July 20, 1933	473	2/ 429	-	1.9	16	8.5	
1329-B	do.	Mar. 29, 1935	473	2/ 522	-	1.5	24	15	
1331	G. D. Scott	Aug. 1, 1933	30	-	-	-	-	-	
1338	H. W. Bouton	July 20, 1933	185	2/ 644	-	0.59	22	16	
1356	A. A. Polk	do.	130	2/ 958	-	0.61	48	32	
1558	D. F. Ervin	July 19, 1933	500?	2/ 334	-	0.16	15	4.1	
1364	Humble Pipe Line Co.	Aug. 1, 1933	81	-	-	0.65	-	-	
1365-A	do.	July 18, 1933	652	465	30	0.07	11	3.0	
1365-B	do.	Mar. 29, 1935	652	-	-	-	-	-	
9/1366	G-H Electric Co.	-	1924	788	2/1,175	10	3/5	44	45

1/ Combined figures for sodium and potassium were not determined, but were calculated as sodium.

2/ Sum of constituents reported.

3/ Iron and aluminum oxides.

4/ Sample collected with well flowing.

Analyses of water from wells in Harris County--Continued  
Parts per million

Well No.	Sodium	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub>	Analyst
1275	-	-	452	8/ 112	328	1	282	Margaret F. Foster
1302	177	-	338	3.1	75	0.12	43	Do.
1314	-	-	476	7	137	1.1	518	Do.
1317	-	-	502	32	524	0.3	420	Do.
1329-A	151	-	378	1.2	86	0.12	75	Do.
1329-B	169	-	392	4.1	115	1.7	122	Do.
1331	-	-	705	14	595	14	675	Do.
1338	223	-	542	1.2	114	0.25	121	Do.
1356	289	-	468	22	335	1.4	251	Do.
1358	119	-	302	1.4	46	0	54	Do.
1364	-	-	458	60	645	0.6	352	Do.
1365-A	163	2.9	324	1.3	94	0.1	40	Do.
1365-B	-	-	326	1	94	-	36	Do.
9/1366	333	-	110	96	588	-	294	-

5/ Sample collected after pumping started.

6/ Composite sample.

7/ Screens.

8/ Approximate.

9/ Ship channel at deep water.

Table of Drillers' Logs, Harris County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 31</u>		
R. L. Barton, owner.		
Soil - - - - -	2	2
Clay - - - - -	10	10
Sand - - - - -	27	47
Clay - - - - -	7	49
Good sand - - - - -	10	59
Sand rock - - - - -	1	60
Fair sand - - - - -	2	62
Clay - - - - -	7	69
Sand - - - - -	46	117
Sand rock - - - - -	1	118
Sand - - - - -	4	142
Broken sand and sand rock - - - - -	23	165
Sand - - - - -	20	185
Oily - - - - -	4	189
Sand - - - - -	32	221
Clay - - - - -	20	241
Sand - - - - -	55	296
Sand rock - - - - -	1	297

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 56</u>		
F. N. Bullock's Hubert Reed No. 1, owner.		
Soil - - - - -	6	6
Sand - - - - -	6	12
Clay - - - - -	18	30
Sand - - - - -	10	40
Clay - - - - -	20	60
Sand - - - - -	7	67
Hard rock - - - - -	4	9
Gumbo - - - - -	51	150
Fine and soft sand - - - - -	130	280
Shale and boulders - - - - -	25	305
Gumbo - - - - -	15	320
Sticky shale - - - - -	25	345
Sand - - - - -	20	365
Sticky shale - - - - -	13	381
Gumbo - - - - -	15	396
Gray water sand - - - - -	41	437
Shale and boulders - - - - -	53	490
Gumbo - - - - -	22	512
Shale - - - - -	14	526
Gumbo - - - - -	14	540
Shale and boulders - - - - -	33	573
Thin and lavender gumbo - - - - -	77	650
fana - - - - -	40	690
Gumbo - - - - -	1	691
Sand - - - - -	41	732
Gumbo - - - - -	8	740
Shale - - - - -	21	761
Pink and lavender gumbo and lime - - - - -	10	771
Sand - - - - -	20	809

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 56--Continued</u>		
Sticky shale - - - - -	20	829
Sand - - - - -	27	856
Gumbo - - - - -	10	866
Blue sticky shale - - - - -	32	898
Gumbo - - - - -	13	911
Shale and boulders - - - - -	29	940
Blue gumbo - - - - -	40	980
Pink gumbo - - - - -	58	1038
Sticky shale - - - - -	17	1055
Gumbo and blue lime - - - - -	36	1091
ink gumbo - - - - -	18	1109
Gray sand - - - - -	46	1155
Gumbo and blue lime - - - - -	2	1157
Pink gumbo - - - - -	37	1194
Gray water sand - - - - -	15	1209
Gumbo and blue lime - - - - -	42	1251
Shale and boulders - - - - -	50	1301
Gray water sand - - - - -	20	1321
Gumbo and blue lime - - - - -	94	1415
Sand - - - - -	6	1421
Gumbo and blue lime - - - - -	55	1476
Red gumbo - - - - -	59	1535
Gumbo and blue lime - - - - -	27	1562
Shale and lime - - - - -	6	1568

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 72</u>		
Texas & Brazos Valley Railroad, owner.		
Clay with iron gravel - - - - -	20	20
Fine quicksand - - - - -	5	25
Heaven joint clay - - - - -	15	40
Fine quicksand - - - - -	7	47
Coarse sand and gravel - - - - -	20	67

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 93</u>		
International & Great Northern Railroad.		
Clay - - - - -	82	82
Fine sand - - - - -	41	123
Clay - - - - -	41	164
Sand - - - - -	60	224
Clay - - - - -	83	307
Sand - - - - -	40	355
Clay - - - - -	38	393
Rock - - - - -	2	395
Clay - - - - -	11	406
Rock - - - - -	8	414
Clay - - - - -	32	446
Boulders and fine sand - - - - -	41	487
Lime rock - - - - -	21	508
Gumbo - - - - -	41	549
Rock - - - - -	2	551
Gumbo - - - - -	18	569
Rock - - - - -	2	571

(continued on next page)

Table of Drillers' Logs, Harris County -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Driller's log of well 93 -- Continued</u>				<u>Driller's log of well 262 -- Continued</u>			
Sand	-	18	589	Sand	-	10	90
Rock	-	3	591	Clay	-	30	120
Sand	-	18	609	Sand	-	51	171
Gumbo	-	22	631	Clay	-	3	174
Gumbo and rock	-	163	794	<u>Driller's log of well 301</u>			
Clay	-	39	833	Ralph C. Ely et al, J. H. Powell No. 1, owners.			
Rock	-	3	836	Soil	-	25	25
Clay	-	4	840	Brown water sand	-	75	100
Sand	-	22	862	Soft gumbo	-	110	210
Gumbo	-	41	903	Gravel and shell	-	20	230
Shale	-	40	943	Shale and mud	-	110	340
Gumbo	-	41	984	Gumbo	-	30	370
Water-bearing sand	-	86	1070	Sand	-	12	382
<u>Driller's log of well 167</u>				Gumbo and shale	-	36	418
E. C. Smith, owner.				Hard sand	-	25	443
Soil	-	5	3	Gumbo	-	37	480
Clay	-	6	9	Artesian sand	-	97	577
Sand	-	4	13	Gumbo	-	5	582
Clay	-	5	18	Artesian sand	-	20	602
Sand	-	14	32	Gumbo and shale	-	93	695
Clay	-	15	47	Gravel	-	10	705
Sand	-	14	61	Hard sandy shale	-	10	715
Clay	-	9	70	Gumbo	-	10	725
Sand	-	25	95	Artesian sand	-	40	765
Clay	-	10	105	Gumbo	-	10	775
Sand	-	53	158	Artesian sand	-	70	845
<u>Driller's log of well 225</u>				Sandy shale and sand	-	45	890
Trinity & Brazos Valley Railroad, owner.				Gray gumbo	-	22	912
Surface soil, clay,				Hard sandy shale	-	6	918
layers of rock, red				Gumbo	-	67	985
sand and good sand				Sandy shale	-	10	995
	-	100	100	Gumbo	-	10	1005
Yellow clay	-	180	220	Sand	-	45	1050
Coarse sand	-	22	242	Sandy shale	-	10	1060
Rock	-	2	244	Gumbo	-	27	1087
Sand	-	16	260	Sand	-	10	1097
Clay and boulders	-	30	290	Gumbo	-	21	1118
Coarse sand	-	65	355	Sand	-	17	1135
Clay	-	15	370	Gumbo	-	15	1150
Gumbo	-	100	470	Sand and blue sandy shale-			
Soft gumbo	-	28	498		-	10	1160
Rock	-	3	501	Blue gumbo	-	30	1190
Gumbo	-	17	518	Gumbo and sandy shale	-	10	1200
Rock	-	4	522	Gumbo	-	10	1210
Gumbo and boulders	-	53	575	Sand	-	50	1260
Sand and gravel	-	41	616	Blue gumbo	-	28	1288
<u>Driller's log of well 262</u>				TOTAL DEPTH			
John Williamson, owner.							2108
Surface	-	4	4				
Clay	-	26	30				
Sand	-	15	45				
Clay	-	35	80				

Table of Drillers' Logs, Harris County -- Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 326</u>		
Gulf Pipe Line Co., owner.		
Soil - - - - -	1	1
Clay - - - - -	153	154
Sand - - - - -	15	169
Gumbo - - - - -	77	246
Sand - - - - -	6	252
Gumbo - - - - -	57	289
Sand - - - - -	14	303
Gumbo - - - - -	30	333
Sand - - - - -	45	378
Gumbo - - - - -	116	494
Sand - - - - -	39	533

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 353</u>		
A. E. Thompson, owner.		
Clay - - - - -	18	18
Quicksand - - - - -	20	58
Tough red clay - - - - -	37	75
Water-bearing gravel - - - - -	53	128
Sand and hard rock - - - - -	35	163
Boulders and clay - - - - -	40	203
Sand and gravel - - - - -	41	244
Shale rock - - - - -	3	247
Soft clay - - - - -	35	282
Boulders and clay - - - - -	22	304
Hard rock - - - - -	2	306
Tough blue and red gumbo- - - - -	25	351
Clay and boulders - - - - -	15	346
Hard rock - - - - -	3	349
Sand and gravel- - - - -	12	361
Boulders and clay - - - - -	43	404
Sand and gravel (splendid water) - - - - -	50	454
Blue shale and iron rock- - - - -	3	457
Gravel and clay- - - - -	64	521
Blue shale - - - - -	22	543
Boulders and clay - - - - -	72	615
Hard rock - - - - -	2	617
Fine blue sand - - - - -	10	627
Hard red clay - - - - -	38	665
Rock, hard and soft layers - - - - -	15	680
Fine blue sand - - - - -	4	684
Hard rock - - - - -	10	694
Fine blue sand - - - - -	5	699
Soft clay and boulders - - - - -	37	736
Brown shale- - - - -	9	745
Hard rock - - - - -	7	752
Sand and gravel- - - - -	16	768
Blue clay - - - - -	5	773
Sand and gravel- - - - -	30	803
Blue gumbo and rock- - - - -	51	854
Artesian sand - - - - -	12	846
Blue gumbo and hard rock- - - - -	27	875

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 353 -- Continued</u>		
Clay - - - - -	97	970
Gumbo - - - - -	20	990
Sand - - - - -	22	1012
Clay - - - - -	4	1016
Sand - - - - -	3	1019
Clay - - - - -	1	1020
Sand - - - - -	10	1030
Clay and gumbo - - - - -	28	1058
Rock - - - - -	4	1062
Sand - - - - -	8	1070
Rock - - - - -	4	1074
Gumbo and soft clay- - - - -	67	1141
Gravel and clay- - - - -	14	1155
Gumbo and clay - - - - -	36	1191
White sand - - - - -	27	1218
Gumbo - - - - -	22	1240
Water sand - - - - -	18	1258
Hard rock, gumbo and clay to		
TOTAL DEPTH		1602

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 399</u>		
Gertie Rice Farm.		
Clay - - - - -	10	10
Sand - - - - -	5	15
Red clay - - - - -	5	20
Quicksand - - - - -	30	50
Red clay - - - - -	15	65
Water sand - - - - -	35	100
White clay - - - - -	3	103
Sand - - - - -	25	128
Clay - - - - -	3	131
Sand - - - - -	12	143
Gumbo - - - - -	7	150
Rock - - - - -	17	167
Sand - - - - -	3	170
Rock - - - - -	4	174
Red clay - - - - -	8	182
Sand - - - - -	11	193
Rock - - - - -	7	200
Shale - - - - -	15	215
Boulders and clay - - - - -	12	227
Rock - - - - -	7	234
Extra good water sand - - - - -	26	260
Gumbo - - - - -	9	269
Sand - - - - -	10	279
Gumbo and gravel - - - - -	16	295
Sand - - - - -	15	310
Red clay - - - - -	16	326

Table of Drillers' Logs, Harris County -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Driller's log of well 456</u>				<u>Driller's log of well 589 -- Continued</u>			
Frank Willborg, owner.				Sand - - - - - 38 714			
Soil and clay - - -	15	15	Sand and shale - - -	29	743	Hard sand - - - - -	12 755
White sand - - - - -	10	25	Gumbo - - - - -	10	765	Sand - - - - -	40 805
Rock - - - - -	1	26	Layers of sand and				
Sand - - - - -	7	33	shale- - - - -	21	826		
Shale - - - - -	10	43	Gumbo - - - - -	35	861		
Sand - - - - -	5	48	Sand - - - - -	36	897		
Red gumbo - - - - -	70	118	Tough gumbo- - - - -	76	973		
Gumbo - - - - -	77	195	Sand and shale - - -	14	987		
Red shale - - - - -	10	205	Gumbo with layers of				
Sand and gumbo - - -	20	225	sand and shale - - -	4	991		
Rock - - - - -	1	226	Sandy shale - - - - -	35	1026		
Gumbo - - - - -	4	230	Tough gumbo- - - - -	27	1053		
<u>Driller's log of well 492</u>				Fine sand - - - - - 57 1110			
Galveston, Houston and San Antonio Rail-				Sand and layers of gumbo-			
road, owner.				Gumbo - - - - - 51 1176			
Clay - - - - -	85	85	Sandy clay - - - - -	5	1181		
Sand - - - - -	33	118	Sand - - - - -	38	1219		
Clay - - - - -	7	125	Fine sand and shale-	22	1241		
Sand - - - - -	10	135	Gumbo - - - - -	76	1317		
Clay - - - - -	7	142	Sand - - - - -	8	1325		
Sand - - - - -	8	150	Gumbo - - - - -	5	1330		
Clay - - - - -	30	180	Fine hard sand - - -	15	1345		
Sand - - - - -	40	220	Gumbo - - - - -	70	1415		
<u>Driller's log of well 589</u>				Hard sandy shale and			
City of Houston, owner.				boulders - - - - - 22 1437			
Soil - - - - -	8	8	Gumbo - - - - -	11	1448		
Clay - - - - -	18	26	Gumbo and boulders -	5	1453		
Sand - - - - -	22	48	Gumbo - - - - -	40	1493		
Clay - - - - -	69	117	Sand and gumbo - - -	14	1507		
Sandy clay - - - - -	30	147	Gumbo - - - - -	55	1562		
Clay - - - - -	29	176	Hard sandy shale - -	16	1578		
Sandy clay - - - - -	20	196	Gumbo - - - - -	18	1596		
Clay - - - - -	41	237	Sand and shale - - -	17	1613		
Sand - - - - -	15	252	Sand - - - - -	22	1635		
Clay - - - - -	10	262	Hard sand with layers				
Sand and shale - - -	23	285	of shale - - - - -	26	1661		
Clay and gravel- - -	18	303	Shale - - - - -	12	1673		
Clay - - - - -	31	334	Gumbo - - - - -	18	1691		
Sandy clay - - - - -	22	356	Shale and water sand	36	1727		
Hard clay and boulders	30	386	Gumbo - - - - -	53	1780		
Hard sand - - - - -	5	391	Shale and water sand	33	1813		
Water sand - - - - -	20	411	Gumbo - - - - -	8	1821		
Clay - - - - -	22	433	Hard shale and sand-	22	1843		
Sand - - - - -	20	453	Rock - - - - -	2	1845		
Sandy clay - - - - -	18	471	Hard shale and sand-	2	1847		
Gumbo - - - - -	25	496	Sand - - - - -	4	1851		
Clay and gravel- - -	65	561	Rock - - - - -	1	1852		
Sand - - - - -	14	575	Sand and shale - - -	13	1865		
Gumbo and boulders -	47	622	Gumbo and shale- - -	225	2090		
Sand - - - - -	21	643					
Gumbo - - - - -	33	676					



Table of Drillers' Logs, Harris County -- Continued

		Thickness	Depth			Thickness	Depth
		(feet)	(feet)			(feet)	(feet)
<u>Driller's log of well 744</u>				<u>Driller's log of well 744 -- Continued</u>			
City of Houston, owner.				Sand - - - - - 10 1574			
Rotary to surface	- -	5	5	Boulders and rock	- -	57	1631
Shale	- - - -	107	112	Gumbo	- - - -	53	1684
Shale and fine sand	- -	12	130	Rock	- - - -	2	1686
Shale	- - - -	15	145	Sand	- - - -	2	1688
Sand	- - - -	42	187	Gumbo and shale	- - -	102	1700
Gumbo and shale	- - -	105	292	Rock	- - - -	2	1792
Sand	- - - -	3	295	Sandy shale	- - - -	9	1801
Gumbo and shale	- - -	17	312	Fine sand	- - - -	31	1832
Gumbo and boulders	- -	90	402	Sand	- - - -	12	1844
Rock	- - - -	14	416	Shale	- - - -	6	1850
Gumbo, shale and lime	- -	36	452	Sand	- - - -	26	1876
Sandy shale	- - - -	10	462	Gumbo	- - - -	25	1899
Shale and gumbo	- - -	3	465	Hard shale	- - - -	11	1910
Sand and shale	- - -	5	468	Gray sandy shale	- - -	3	1913
Sand and boulders	- -	3	471	Blue sand and pink			
Gumbo and boulders	- -	70	541	shale	- - - -	10	1923
Sand	- - - -	96	637	Pink shale	- - - -	8	1931
Shale and boulders	- -	2	639	Shale	- - - -	5	1936
Shale and sand	- - -	29	668	Gumbo	- - - -	40	1976
Shale and gumbo	- - -	22	690	Broken lime	- - - -	8	1984
Sand and gravel	- - -	34	724	Blue shale	- - - -	29	2013
Shale and gumbo	- - -	48	772	Gumbo	- - - -	52	2065
Rock, shale and lime	- -	32	804	Sand	- - - -	40	2105
Gumbo	- - - -	12	816	Sand and boulders	- - -	26	2131
Gumbo, lime and boulders	- -	40	856	Gumbo	- - - -	3	2134
Tough gumbo	- - - -	43	899	Sand	- - - -	12	2146
Sand	- - - -	10	909	Gumbo	- - - -	4	2150
Gumbo	- - - -	12	921				
Sand and boulders	- -	104	1025	<u>Driller's log of well 793</u>			
Sand	- - - -	15	1040	City of Houston, owner.			
Shale and gumbo	- - -	60	1100	Surface	- - - -	6	6
Boulders	- - - -	12	1112	Fine sand	- - - -	6	12
Sand	- - - -	8	1120	Clay	- - - -	20	32
Sand rock	- - - -	8	1128	Sand	- - - -	22	54
Boulders	- - - -	34	1162	Rock	- - - -	1	55
Hard gummy sand	- - -	10	1172	Sand	- - - -	11	66
Gumbo	- - - -	40	1212	Clay	- - - -	267	333
Hard sand	- - - -	8	1220	Sand	- - - -	70	403
Sand and gravel	- - -	33	1253	Sandy clay	- - - -	38	441
Gummy sand	- - - -	15	1268	Sand	- - - -	21	462
Water sand	- - - -	8	1276	Clay	- - - -	41	503
Blue shale	- - - -	36	1312	Sand	- - - -	11	514
Fine water sand	- - -	8	1320	Clay, some sand and			
Hard gummy sand	- - -	11	1331	gravel	- - - -	39	553
Gumbo and boulders	- - -	39	1370	Sandy shale	- - - -	12	565
Sand rock	- - - -	2	1372	Gumbo	- - - -	2	567
Boulders	- - - -	20	1392	Sand	- - - -	4	571
Blue shale	- - - -	7	1399	Gumbo and shale	- - -	11	582
Sand and shale	- - -	49	1448	Sand	- - - -	16	598
Gumbo, boulders and				Sandy shale	- - - -	73	671
hard sand	- - -	39	1487	Sand	- - - -	26	697
Ledges of rock	- - -	62	1549	Sandy shale	- - - -	14	711
Sand, shale and boulders	- -	15	1564				

(Continued on next page.)

Table of Drillers' Logs, Harris County -- Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 793 -- Continued</u>		
Sand - - - -	52	765
Sandy shale - - - -	10	773
Sand - - - -	23	796
Gumbo - - - -		800
Sand, hard streaks - -	46	846
Gummy shale - - - -	12	858
Sand, streaks of shale-	30	888
Gumbo - - - -	35	923
Sand and shale - - - -	29	952
Gummy shale - - - -	11	963
Sand, streaks of shale -	14	977
Gummy shale - - - -	11	988
Hard sand, streaks of shale - - - -	19	1007
Gummy shale- - - -	5	1012
Sand, streaks of shale - - - -	29	1041
Sand - - - -	17	1058
Hard shale - - - -	4	1062
Sandy shale- - - -	30	1092
Gumbo - - - -	10	1102
Sand, hard layers - -	26	1128
Gumbo - - - -	38	1166
Gummy shale- - - -	21	1187
Gumbo - - - -	79	1266
Sand, hard layers - -	13	1279
Rock - - - -	1	1280
Layers of sandy shale -	12	1292
Gumbo - - - -	36	1328
Sand, hard layers - -	69	1397
Sandy shale - - - -	3	1400
Rock - - - -	1	1401
Layers of sand and shale-	23	1424
Gumbo - - - -	19	1443
Sand, streaks of shale -	50	1501
Good sand - - - -	35	1536
Gumbo - - - -	7	1543
Layers of sand and shale-	15	1558
Good sand - - - -	38	1596
Gumbo and shale- - - -	94	1690
Sand - - - -	14	1704
Shale and boulders - -	6	1710
Rock and shale - - - -	18	1728
Gumbo - - - -	6	1734
Sand - - - -	2	1736
Rock and gumbo - - - -	278	2014
Sandy shale- - - -	4	2018
Gumbo - - - -	45	2063
Sandy shale- - - -	13	2076
Gumbo - - - -	32	2108
Sand - - - -	13	2121

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 895</u>		
City of Houston, owner.		
Clay - - - -	159	159
Shale - - - -	63	222
Sand - - - -	43	265
Gumbo - - - -	89	354
Sand - - - -	37	391
Gumbo - - - -	72	463
Sand - - - -	44	507
Gumbo - - - -	10	517
Sand - - - -	26	543
Gumbo - - - -	74	617
Sand - - - -	51	668
Gumbo - - - -	134	802
Coarse sand- - - -	55	857
Gumbo - - - -	79	936
Sand - - - -	71	1007
Gumbo - - - -	18	1025
Sand - - - -	73	1098
Gumbo - - - -	22	1120
Sand - - - -	44	1164
Gumbo - - - -	13	1177
Sand - - - -	25	1202
Gumbo - - - -	23	1225
Sand - - - -	5	1230
Gumbo - - - -	5	1235
Sand - - - -	35	1260
Gumbo - - - -	95	1363
Hard shale - - - -	63	1426
Gumbo - - - -	42	1468
Shale - - - -	33	1501
Gumbo - - - -	23	1524
Sand - - - -	54	1578
Gumbo - - - -	5	1583
Sand - - - -	81	1664

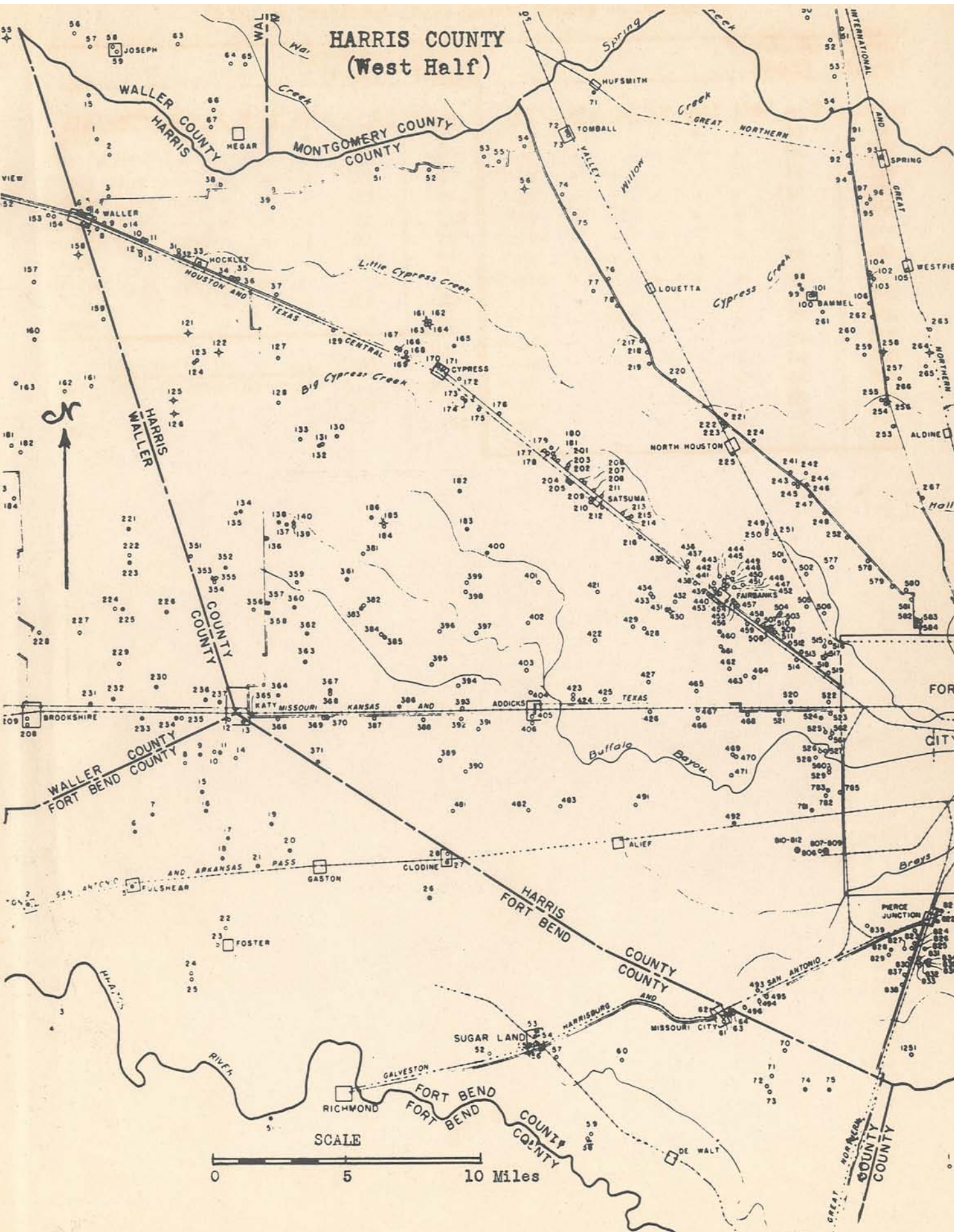
<u>Driller's log of well 1064</u>		
Humble Oil & Refining Co.'s No. 4 at Baytown.		
Clay- - - -	86	86
Fine sand - - - -	10	96
Sand and clay - - - -	40	139
Gumbo - - - -	140	282
Fine sand - - - -	48	330
Gumbo - - - -	22	352
Sand - - - -	8	360
Gumbo - - - -	8	368
Coarse white sand - -	148	516
Gumbo - - - -	28	544
Sand - - - -	8	552
Gumbo - - - -	43	595
Sand - - - -	17	612

(Continued on next page.)

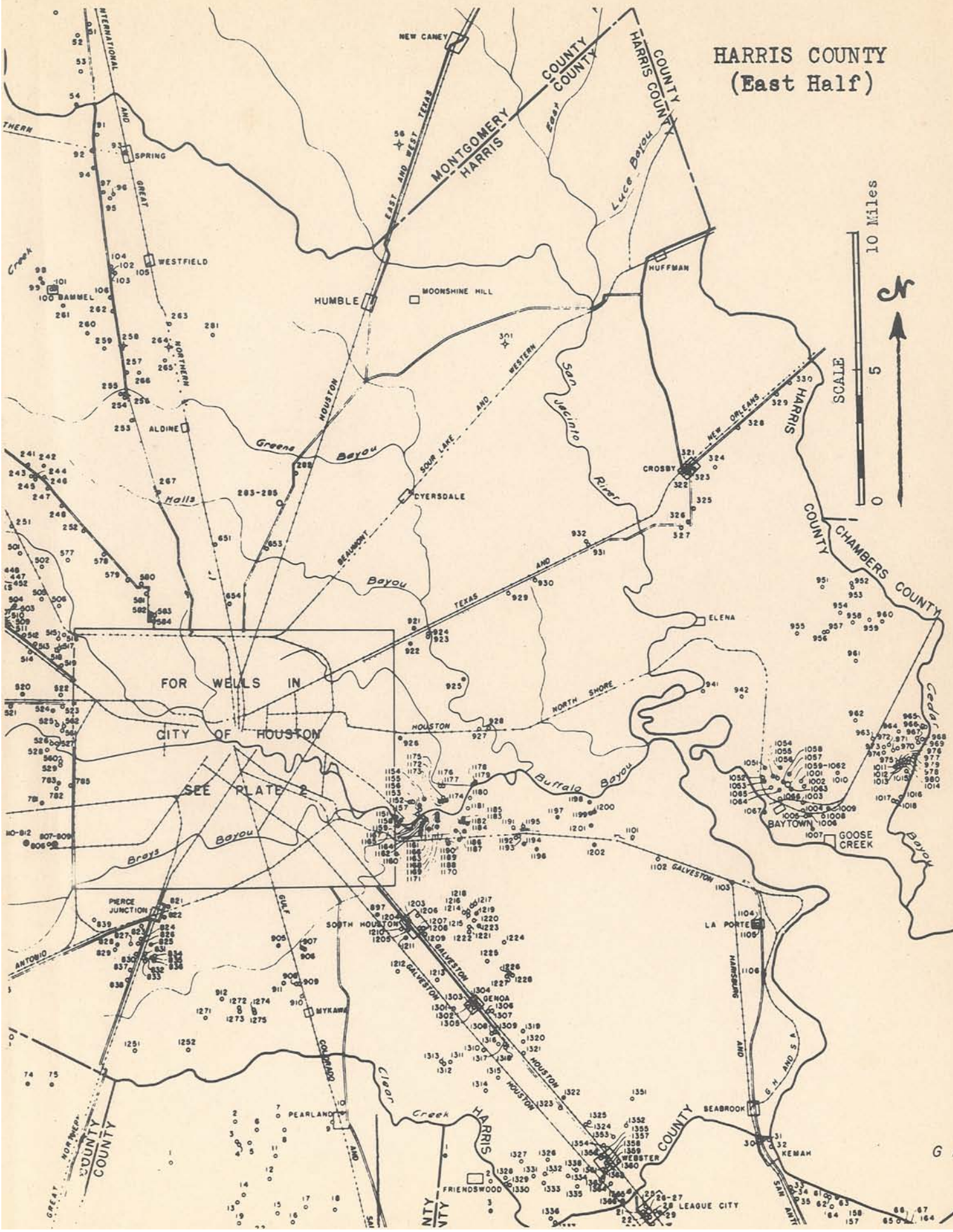
Table of Drillers' Logs, Harris County -- Continued

		Thickness	Depth			Thickness	Depth
		(feet)	(feet)			(feet)	(feet)
<u>Driller's log of well 1064 -- Continued</u>				<u>Driller's log of well 1366 -- Continued</u>			
Gumbo-	-	-	17	629	Clay	-	14
Fine sand-	-	-	6	635	Sand	-	54
Sandy clay	-	-	14	649	Clay	-	118
Medium gray sand	-	-	45	694	Sand	-	234
Gumbo-	-	-	21	715	Clay	-	301
Medium gray sand	-	-	47	762	Gumbo	-	426
Gumbo	-	-	17	779	Sand	-	442
Medium salt and pepper					Gumbo	-	486
sand	-	-	160	939	Sand	-	502
Gumbo	-	-	2	941	Gumbo	-	534
<u>Driller's log of well 1366</u>							
Galveston-Houston Electric Co., owner.							
Clay	-	-	24	24	Sand	-	585
Sand	-	-	12	36	Gumbo	-	609
					Sand	-	653
					Gumbo	-	735
					Sand	-	743
					Gumbo	-	788

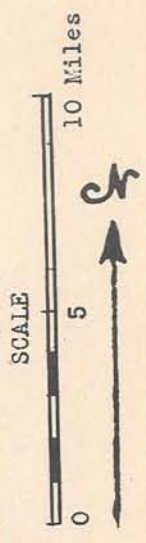
# HARRIS COUNTY (West Half)



# HARRIS COUNTY (East Half)



FOR WELLS IN  
CITY OF HOUSTON  
SEE PLATE 2



ADDENDUM NO. 1, JULY 1959

to

LIST OF GROUND-WATER PUBLICATIONS, JULY 1957

STATEWIDE REPORTS

- 2a. Large springs in the United States, D. E. Meinzer, 1927: U. S. Geol. Survey Water-Supply Paper 557.
37. Water levels and artesian pressures in observation wells in the United States, 1955, pt. 4, south-central states, U. S. Geol. Survey, 1957: U. S. Geol. Survey Water-Supply Paper 1407, p. 118-216.

AREA OR DISTRICT REPORTS

EL PASO AREA

4. Ground-water resources of the Hueco Bolson, northeast of El Paso, Tex., D. B. Knowles and R. A. Kennedy, 1959: U. S. Geol. Survey Water-Supply Paper 1426.

HIGH PLAINS AREA

- 9a. Ground-water resources of the area southwest of Amarillo, Texas, W. H. Alexander, Jr., and J. H. Dante, 1946: Tex. Bd. Water Eng., duplicated report.

HOUSTON-GALVESTON-TEXAS CITY AREA

20. Pumpage of ground water and fluctuations of water levels in the Houston district and the Baytown-LaPorte area, Texas, 1955-57, L. A. Wood, 1958: Tex. Bd. Water Eng. Bull. 5805, 40 p.

COUNTY REPORTS

BELL COUNTY

Records of water-level measurements in Bell, McLennan, and Somervell Counties, Tex., 1930 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5902.

BRAZORIA COUNTY

Records of water-level measurements in Brazoria, Fort Bend, and Waller Counties, Tex., 1931 through June 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5904.

COUNTY REPORTS--Continued

BREWSTER COUNTY

Ground-water geology of the Alpine area, Brewster, Jeff Davis, and Presidio Counties, Tex., R. T. Littleton and G. L. Audsley, 1957: Tex. Bd. Water Eng. Bull. 5712.

CHAMBERS COUNTY

Records of water-level measurements in Chambers, Liberty, and Montgomery Counties, Tex., 1931 through April 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5901.

COLLINGSWORTH COUNTY

Records of water-level measurements in Collingsworth, Hemphill, Roberts, and Wheeler Counties, Tex., 1937 through July 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5806.

CRANE COUNTY

Records of water-level measurements in Crane and Midland Counties, Tex., 1937 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5906.

CROCKETT COUNTY

Records of water-level measurements in Crockett, Glasscock, Reagan, Upton, and Terrell Counties, Tex., 1937 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5903.

FORT BEND COUNTY

Records of water-level measurements in Brazoria, Fort Bend, and Waller Counties, Tex., 1931 through June 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5904.

GALVESTON COUNTY

Geology and ground-water resources of Galveston County, Tex., B. M. Petitt, Jr. and A. G. Winslow, 1957: U. S. Geol. Survey Water-Supply Paper 1416.

Pumpage of ground water and changes in water levels in Galveston County, Tex., 1952-57, Leonard A. Wood: Tex. Bd. Water Eng. Bull. 5808.

GLASSCOCK COUNTY

Records of water-level measurements in Crockett, Glasscock, Reagan, Upton, and Terrell Counties, 1937 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5903.

COUNTY REPORTS--Continued

GOLIAD COUNTY

Ground-water resources of Goliad County, Tex., O. C. Dale, E. A. Moulder, and Ted Arnow, 1957: Tex. Bd. Water Eng. Bull. 5711.

GUADALUPE COUNTY

Correction to Item 3: Delete authors and insert E. S. Altgelt and E. J. Michal.

HEMPHILL COUNTY

Records of water-level measurements in Collingsworth, Hemphill, Roberts, and Wheeler Counties, Tex., 1937 through July 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5806.

JACKSON COUNTY

Records of water-level measurements in Jackson, Matagorda, and Wharton Counties, Tex., 1934 to April 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5804.

JEFF DAVIS COUNTY

Ground-water geology of the Alpine area, Brewster, Jeff Davis, and Presidio Counties, Tex., R. T. Littleton and G. L. Audsley, 1957: Tex. Bd. Water Eng. Bull. 5712.

LIBERTY COUNTY

Records of water-level measurements in Chambers, Liberty, and Montgomery Counties, Tex., 1931 through April 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5901.

MATAGORDA COUNTY

Records of water-level measurements in Jackson, Matagorda, and Wharton Counties, Tex., 1934 to April 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5804.

McLENNAN COUNTY

Water-level measurements in Bell, McLennan, and Somervell Counties, Tex., 1930 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5902.

MIDLAND COUNTY

Records of water-level measurements in Crane and Midland Counties, Tex., 1937 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5906.



COUNTY REPORTS--Continued

MITCHELL COUNTY

Records of water-level measurements in Mitchell, Nolan, Sterling, and Tom Green Counties, Tex., 1938 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5907.

MONTGOMERY COUNTY

Records of water-level measurements in Chambers, Liberty, and Montgomery Counties, Tex., 1931 through April 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5901.

Records of wells, drillers' logs, water analyses and map showing locations of wells in Montgomery County, Tex., N. A. Rose, 1943: Tex. Bd. Water Eng., duplicated report.

NOLAN COUNTY

Records of water-level measurements in Mitchell, Nolan, Sterling, and Tom Green Counties, Tex., 1938 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5907.

OLDHAM COUNTY

Delete Item 4. Refer to High Plains Area.

POTTER COUNTY

Delete Item 4. Refer to High Plains Area.

PRESIDIO COUNTY

Ground-water geology of the Alpine area, Brewster, Jeff Davis, and Presidio Counties, Tex., R. T. Littleton and G. L. Audsley, 1957: Tex. Bd. Water Eng. Bull. 5712.

RANDALL COUNTY

Delete Item 4. Refer to High Plains Area.

REAGAN COUNTY

Records of water-level measurements in Crockett, Glasscock, Reagan, Upton, and Terrell Counties, Tex., 1937 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5903.

REAL COUNTY

Ground-water geology of Real County, Tex., A. T. Long, Jr., 1958: Tex. Bd. Water Eng. Bull. 5803.

COUNTY REPORTS--Concluded

ROBERTS COUNTY

Records of water-level measurements in Collingsworth, Hemphill, Roberts, and Wheeler Counties, Tex., 1937 through July 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5806.

SOMERVELL COUNTY

Records of water-level measurements in Bell, McLennan, and Somervell Counties, Tex., 1930 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5902.

STERLING COUNTY

Records of water-level measurements in Mitchell, Nolan, Sterling, and Tom Green Counties, Tex., 1938 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5907.

TERRELL COUNTY

Records of water-level measurements in Crockett, Glasscock, Reagan, Upton, and Terrell Counties, Tex., 1937 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5903.

TOM GREEN COUNTY

Records of water-level measurements in Mitchell, Nolan, Sterling, and Tom Green Counties, Tex., 1938 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5907.

UPTON COUNTY

Records of water-level measurements in Crockett, Glasscock, Reagan, Upton, and Terrell Counties, Tex., 1937 through 1957, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5903.

WALLER COUNTY

Records of water-level measurements in Brazoria, Fort Bend, and Waller Counties, Tex., 1931 through June 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5904.

WHARTON COUNTY

Records of water-level measurements in Jackson, Matagorda, and Wharton Counties, Tex., 1934 to April 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5804.

WHEELER COUNTY

Records of water-level measurements in Collingsworth, Hemphill, Roberts, and Wheeler Counties, Tex., 1937 through July 1958, Frank A. Rayner: Tex. Bd. Water Eng. Bull. 5806.

OPEN-FILE REPORTS

P. 65, second line, change address to: 807 Brazos Street.

WINTER GARDEN DISTRICT

5. Development of ground water from the Carrizo sand and Wilcox group in Dimmit, Zavala, Maverick, Frio, Atascosa, Medina, Bexar, Live Oak, McMullen, La Salle, and Webb Counties, Tex., E. A. Moulder, 1957.

ATASCOSA COUNTY

See Winter Garden District, p. 68, no. 5.

BEXAR COUNTY

See Winter Garden District, p. 68, no. 5.

Ground water geology of Bexar County, Texas, Ted Arnow, March 1959.

BREWSTER COUNTY

Water supply for Persimmon Gap and Santa Elena Ranger Stations, Big Bend National Park, Brewster County, Tex., R. C. Baker, 1958.

DIMITT COUNTY

Geology and ground-water resources of Dimmit County, Texas, C. C. Mason, 1958.

FRIO COUNTY

See Winter Garden District, p. 68, no. 5.

HARRIS COUNTY

Delete Item 5.

KINNEY COUNTY

Geology and ground-water resources of Kinney County, Tex., R. R. Bennett and A. N. Sayre, 1958.

LA SALLE COUNTY

See Winter Garden District, p. 68, no. 5.

LIVE OAK COUNTY

See Winter Garden District, p. 68, no. 5.

McMULLEN COUNTY

See Winter Garden District, p. 68, no. 5.

OPEN-FILE REPORTS--Concluded

MEDINA COUNTY

See Winter Garden District, p. 68, no. 5.

SCURRY COUNTY

Ground-water conditions in the Roby-Camp Springs area, Texas, J. W. Lang,  
1944.

SMITH COUNTY

Results of pumping test of municipal wells at Tyler, Tex., W. L.  
Broadhurst, 1944.

TYLER COUNTY

Delete.

WEBB COUNTY

See Winter Garden District, p. 68, no. 5.