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

JEFFERSON COUNTY, TEXAS

PREPARED IN COOPERATION WITH THE UNITED STATES
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY

APRIL 1942

JEFFERSON COUNTY, TEXAS

WATER WELL DATA

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

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

April 1942

C O N T E N T S

I L L U S T R A T I O N S

WELL DATA, JEFFERSON COUNTY, TEXAS

By

Penn Livingston and G. H. Cromack

INTRODUCTION

This publication consists of a tabulation of data that were obtained by the writers in a field investigation which was made as part of a State-wide plan for investigations and reports on the ground-water resources of Texas by the Geological Survey, U. S. Department of the Interior, in co-operation with the Texas State Board of Water Engineers. These studies are under the general supervision of O. E. Meinzer and W. N. White of the Geological Survey. The chief immediate purpose of the investigation in Jefferson County was to obtain information regarding the ground-water resources available for industrial purposes and national defense.

A report is being prepared in which the general geology of the county, the history of ground-water development, the movement of ground water, the quality of ground water, and the occurrence of ground water by areas are briefly discussed. The present publication is expected to serve the immediate needs for the well records and quality of water data.

The field work was begun on February 8, 1941, carried on simultaneously with field work in Orange and Chambers Counties, and completed on February 4, 1942. During the field work, 292 water wells were visited and all available information about them recorded. Water samples from 211 wells were collected and analyzed in the laboratory of the Federal Geological Survey at Austin, Texas. The altitude of a measuring point at many of the deep water wells was determined by instrumental leveling. In the level traverses, 35 miles of double circuit levels were run and the altitude of water levels in many of the wells was determined.

This survey also consisted of the drilling by the Work Projects Administration of 72 shallow test holes and one deep test hole. Water samples from 71 of the test holes were collected. The chemical analyses of these samples were made by the Work Projects Administration under the direction of Dr. E. P. Schoch, Director, Bureau of Industrial Chemistry.

This release was mimeographed by employees of the Work Projects Administration Project No. 17276.

A limited number of copies of this publication are available for free distribution. They may be obtained by addressing a request to the Federal Geological Survey, or Mr. C. S. Clark, Chairman, Texas State Board of Water Engineers, 302 West 15th Street, Austin, Texas.

Records of wells in Jefferson County, Texas
All wells are drilled unless otherwise stated under "Remarks"

Well No.	Distance from post office in China	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
1	5.2 miles northwest	R. A. Welsh	S. H. Mixon	1940	96	1½	Top of casing at union.
2	5.0 miles northwest	Tyrrell Trust	-	1903	300	4	Top of casing.
3	2.3 miles northeast	Dr. N.E. Laidacker	-- Gunn	1915	208	3	Top of reducer on casing.
4	2.8 miles north	do.	Paul Acheson	1938	198	3	-
5	3.7 miles north	Chas. C. Huff	-	1936	250	2	-
6	3.3 miles northeast	C. C. Dailey	C. C. Dailey	1939	26	3	-
7	do.	Mrs. Raymond Lewis	Paul Acheson	1940	229	2	-
8	4.1 miles northeast	Magnolia Pipe Line Co.	do.	1940	208	2	-
9	5.2 miles northeast	Edmund LeJune	Edmund LeJune	1941	17	1¾	-
10	5.0 miles northeast	Mrs. E. Abel	Pitre Water Well Drilling Co.	1938	102	4	Top of casing.
11	4.8 miles northeast	Al Jagneaux	J. B. Jordan	1938	115	3	-
12	4.9 miles northeast	J. S. McCormack	J. S. McCormack	1924	23	30	-
13	2.0 miles northeast	F. M. & S. W. Aldridge	-	1902	300	6	-
14	2.8 miles northeast	Broussard Trust	-	Old	19	42	Top of curb.
15	2.6 miles east	Walter Higginbotham	-	-	16	6	do.
16	1.3 miles northeast	do.	-	1927	14	36	do.
17	0.4 mile southeast	China School Dist.	Paul Acheson	1933	250	2	-
18	0.2 mile southeast	E. A. Luce	do.	1940	252	2	-
19	0.1 mile southwest	Southern Pacific Co.	-	1931	246	2½,2	-
20	do.	Ed. Goudet	Paul Acheson	1940	142	1½	-
21	0.3 mile northwest	Dr. N.E. Laidacker	do.	1940	225	2	-
22	1.0 mile north	L. Thibodeaux	L. Thibodeaux	1929	11	36	Top of curb.
23	1.0 mile northwest	J. C. Blanch	Paul Acheson	1940	204	2	-
24	1.3 miles northwest	R. Blake Mackan	do.	1940	72	2	-

a/ Altitudes determined by instrumental leveling from government bench marks and from U. S. Department of Agriculture drainage map with 1 foot contour intervals.
b/ Plus (+) indicates water level above measuring point.
c/ Pump or lift: T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, rope and bucket. Power: E, electric; S, steam; G, gasoline engine; W, windmill; H, hand. Figure indicates horsepower.

Chemical analyses of water from these wells are shown in a table of analyses

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
1	0.5	33	4.91	June 10, 1941	C,H	D	Screen from 92 to 96 feet. Salty water reported at 22 feet.
2	0	38	6.74	Mar. 11, 1941	C,W	D,S	Flowed when drilled.
3	2.5	43	17.83	May 17, 1941	C,W	S	
4	-	41	-	-	C,W	S	
5	0	34	e/ 10	1936	C,G,1½	D,S	
6	0	39	e/ 9	1939	C,H	D,S	
7	-	38	-	-	C,H	D,S	Screen from 223 to 229 feet.
8	0	42	e/ 8	1940	C,E,¼	D,S	Screen from 200 to 208 feet.
9	0	39	e/ 4	1941	C,H	D	Sand from 3 to 4 feet.
10	1.0	39	9.00	Mar. 11, 1941	None	N	Screen from 96 to 102 feet.
11	-	38	-	-	C,H	D,S	
12	-	36	-	-	C,H	S	Dug well.
13	0	36	e/ 10	1907	None	N	One of two wells formerly used for irrigation. Caved and abandoned. Deussen No. 697 f/.
14	2.5	33	9.61	June 10, 1941	C,H	D,S	Dug well. Water in limey gravel.
15	1.0	27	2.48	do.	C,H	D	
16	2.2	35	4.91	do.	C,E,¼	D,S	Dug well. Black silty sand from 0 to 14 feet.
17	0	34	e/ 17	1933	C,E,½	P	Water salty.
18	-	39	-	-	C,E,¼	D	Screen from 244 to 252 feet.
19	0	39	e/ 10	1941	C,W	D	
20	0	39	e/ 10	1940	C,E,¼	D,S	Screen from 138 to 142 feet.
21	-	42	-	-	C,H	D,S	Screen from 217 to 225 feet.
22	1.0	44	4.80	Mar. 11, 1941	C,H	D,S	Dug well.
23	-	45	-	-	C,E,½	D	Screen from 198 to 204 feet.
24	-	42	-	-	C,E,¼	D,S	Screen from 66 to 72 feet.

a/ P, public supply; Ind, industrial; Irr, irrigation; RR, railroad; Sw, swimming pool; D, domestic; S, stock; N, none.

e/ Water level reported by driller or owner.

f/ Number under which well is listed in U. S. Geol. Survey Water-Supply Paper 335, Alexander Deussen, 1914.

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in China	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
25	1.4 miles west	Dr. N.E. Laidacker	Paul Acheson	1921	206	1½	-
26	2.2 miles southwest	Mrs. C.O. Thompson	-	-	15	36	Top of curb.
27	3.1 miles southwest	Dr. -- Beaver	-	Old	12	42	do.
28	3.3 miles west	Garth Est.	-	1900	146	-	-
29	4.3 miles southwest	Nelson Laidacker	Bud Ansoline	1931	176	4	Hole in side of casing.
30	4.8 miles southwest	Jimmie Gober	Paul Acheson	1940	125	2	-
31	5.2 miles west	W. G. Frenzel	do.	1940	118	1¼	-
32	5.4 miles west	Southern Pacific Co.	-	1940	98	12	-
33	do.	do.	Gust C. Warnecke	1906	692	8	-
34	6.4 miles southwest	C. L. Freeman	R. F. Garrett	1926	30	36	-
35	5.5 miles southwest	Hugh Long	-	1902	132	8	-
36	5.4 miles southwest	Chas. Pagni	-	1902	225	-	-
37	5.9 miles southwest	Hugh Long	-	1929	30	48	-
38	6.3 miles southwest	-- Aldridge	-	1902?	200±	6	-
39	5.2 miles southwest	Willis McDermott	-	Old	20±	-	-
40	3.5 miles southwest	Texas Public Service Co.	-	1935	120	2	-
41	2.5 miles south	B. H. Willis	Pitre Water Well Drilling Co.	1938	200	4	-
42	do.	Wallace Est.	E. Dennison	1911	350	-	-
43	3.2 miles south	Cleveland Jeanise	Cleveland Jeanise	1937	19	6	-
44	4.5 miles south	J. F. Broussard	-	1923	20	42	Top of curb.
45	4.9 miles southwest	R. Blake Mackan	-	1920	260	6	Top of tee on casing.
46	7.2 miles southwest	Texas Public Service Co.	-- Gunn	1928	176	2	-
47	7.0 miles southwest	do.	-	1900	150±	8	Top of curb.
48	6.8 miles southwest	Lawrence Leger	Golden Hardy	1934	20	36	-

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
25	0	44	e/ 12	1921	C,W	D,S	Sand and gravel from 120 to 140 feet.
26	2.5	36	3.32	June 10, 1941	C,H	D,S	Dug well.
27	.0	29	.0	do.	B,H	D	Do.
28	-	44	-	-	None	N	One of four wells formerly used for irrigation. Caved and abandoned.
29	2.0	48	13.10	May 17, 1941	C,W	D,S	
30	-	44	-	-	C,E,¼	D	Screen from 119 to 125 feet.
31	0	43	e/ 11	1940	C,E,¼	D	Screen from 114 to 118 feet.
32	0	42	e/ 9	1940	Cf,E,5	RR	Screen from 77 to 97 feet. Drawdown 52 feet after pumping 25 gallons a minute for 104 hours.
33	0	42	e/+ 2	1907	None	N	Reported flow of 8 gallons a minute when drilled. Formerly supplied water to railroad. Deussen No. 701 f/. See log.
34	-	45	-	-	C,G,¼	D,S	Dug well. Can be pumped dry in 30 minutes.
35	0	34	e/+	1902	None	N	Sands from 16 to 34 feet and 90 to 132 feet. Used for irrigation until 1906. Deussen No. 702 f/.
36	-	31	-	-	None	N	Formerly used for irrigation but yield inadequate. Caved and abandoned.
37	0	33	e/ 4	1929	C,W	D,S	Dug well.
38	0	32	e/+	1902	None	N	One of two wells formerly used for irrigation. Caved and abandoned.
39	-	31	-	-	C,H	D,S	
40	-	27	-	-	C,H	D,S	Screen from 116 to 120 feet.
41	-	26	-	-	None	N	Formerly supplied water for drilling. Plugged and abandoned. See log.
42	0	26	e/+	1911	None	N	Water reported too salty for domestic use or irrigation.
43	-	27	-	-	C,H	D,S	Well is capped.
44	2.5	26	3.51	Mar. 28, 1941	C,H	S	Dug well.
45	4.5	30	1.40	June 10, 1941	Flows C,H	D,S	Drilled for irrigation but supply reported inadequate.
46	0	33	e/ 18	1941	C,W	D,S	Screen from 166 to 176 feet.
47	2.5	29	4.28	Jan. 28, 1942	C,H	D,S	Formerly used for irrigation.
48	0	26	e/ 4	1941	C,H	D,S	Dug well.

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in China	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
49	6.6 miles southwest	Texas Pipe Line Co.	Pitre Water Well Drilling Co.	1941	255	4	Top of concrete apron.
50	7.7 miles southwest	J. N. Gilbert Est.	Paul Acheson	1938	135	2	-
51	9.0 miles southwest	G. R. Bauer	do.	1940	150	2	-
52	10.5 miles southwest	C. W. Howth	Glen McCathy, Inc.	1935	300±	4	-
53	11.5 miles southwest	do.	-	1929	150±	2	-
54	10.4 miles southwest	Lohman Bros.	N. C. Gilbert	1915?	135±	2	-
55	8.2 miles south	J. N. Gilbert Est.	Paul Acheson	1939	150±	2	-
56	7.5 miles south	do.	J. B. Jordan	1939	160	2	Top of curb.
57	5.1 miles southeast	Dr. D. S. Wier	-	Old	7	36	-
58	5.7 miles southeast	Beal Garrett	-	-	18	36	-
59	5.3 miles east	J. W. Cooley	J. W. Cooley	1925	28	10	-
60	5.6 miles east	J. H. Stagg	J. H. Stagg	1932	70	4,1½	-
61	4.5 miles east	Broussard Trust	Lee Fontenot	1940	17	36	-
62	4.9 miles east	Roy Meagher	Paul Acheson	-	150±	2	-
	Distance from post office in Voth						
63	5.8 miles southwest	John F. Pipkin	Paul Acheson	1938	120	2	-
64	6.4 miles southwest	Eula Dishman	-	1935	100	1½	-
65	do.	Mrs. F. Bridgeman	Virgil Phelps	1940	94	2	-
66	5.6 miles southwest	C. E. Lowrey	-	-	21	36	Top of curb.
67	4.4 miles southwest	Texas Public Service Co	-	1910	180	6	-
68	5.6 miles southwest	Geo. Tammen	Paul Acheson	1937	68	2	-
69	1.8 miles west	Joe Richardson	O. B. Landrum	1940	51	1¼	-
70	0.6 mile west	J. A. Nichols	J. A. Nichols	1939	14	1¼	-
71	0.2 mile northwest	Texas Public Service Co.	Giles & Williams	1910	320	10	-
72	0.2 mile northeast	Kirby Lumber Corp.	J. D. Adams	1937	315	8	Top of bead on cap in tee

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
49	.5	25	+ .93	Jan. 28, 1941	Flows Cf,E,½	D,S, Ind	Screen from 234 to 254 feet. Coarse-grained sand from 225 to 255 feet. Supplies water for pump station.
50	0	23	e/ 10	1938	C,G,1½	D,S	
51	-	27	-	-	C,W, E,5	D,S	
52	-	36	-	-	None	N	Formerly supplied water for drilling.
53	0	37	e/ 10	1941	C,W, G,1½	D,S	Supplies water for dairy.
54	-	25	-	-	C,W	D,S	
55	-	21	-	-	C,G,1½	D,S	
56	0	21	e/ 3	1941	C,H,S	D,Ind	Supplies water for sawmill.
57	2.0	26	6.77	Aug. 27, 1941	B,H	D,S	Dug well.
58	-	31	-	-	C,E, 1/6	D,S	Do.
59	-	32	-	-	C,H	D,S	
60	-	34	-	-	C,E,½	D,S	
61	-	31	-	-	C,E,¼	D,S	Dug well.
62	-	34	-	-	C,E,½	S	
63	-	37	-	-	C,W, G,5	D,S	
64	-	34	-	-	C,H	D	Screen from 96 to 100 feet.
65	-	37	-	-	A,G,-	D,S	Screen from 86 to 94 feet. Salty water at 210 feet in test hole nearby.
66	1.5	30	8.38	Mar. 10, 1941	C,H	D,S	Dug well.
67	0	32	e/ 10	1918	None	N	Used until 1919. Water too highly mineralized for boilers.
68	0	35	e/ 9	1937	C,H, A,G,1½	D,S	Screen from 64 to 68 feet. Abandoned.
69	-	27	-	-	C,H	D,S	
70	-	20	-	-	C,H	D,S	
71	0	9	+	Mar. 11, 1941	Flows C,W	D	Screen from 280 to 320 feet.
72	4.0	18.43	-	Sept.27, 1941	A,S, 40	P,Ind	Screen from 275 to 315 feet. Reported flow of 12 gallons a minute when drilled. Supplies water for sawmill and town of Voth.

Records of wells in Jefferson County--Continued

Well	Distance from post office in Voth	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
73	0.1 mile north	Kirby Lumber Corp.	-	1911	100	10,6	Top of flange on end of discharge pipe,
74	do.	do.	-	1911	280	6-5/8	Top of end of discharge pipe,
75	0.1 mile northeast	do.	-	1910	600±	6-5/8	Top of tee.
76	0.3 mile southwest	H. K. Meeks	J. D. Adams	1935	180	4	-
77	0.6 mile southwest	Chas. Noble	Paul Acheson	1937	234	1¼	-
78	0.7 miles southwest	J. G. Bythewood	-- Williams	1924	280	4	-
79	1.5 miles south	Roy Guess	-- Craig	1929	167	5,4	Top of casing.
80	2.1 miles south	Rosedale-Voth School	Paul Acheson	1939	70	2	-
81	2.4 miles southwest	H. Visser	do.	1935	63	2	-
82	3.6 miles south	H. S. Rutledge	-	1928	14	1½	-
83	2.8 miles south	F. W. Hawley	Paul Acheson	1936	68	3	-
84	2.5 miles southeast	Texas Public Service Co.	do.	1940	70	1¼	-
85	1.8 miles southeast	do.	J. D. Adams	1911?	650	6	-
86	3.0 miles southeast	J. J. Bonura	-- Williams	1941	72	2	-
87	3.4 miles southeast	W. S. Crocker	Paul Acheson	1940	69	1½	-
88	4.1 miles southeast	Public School	do.	1940	62	1½	-
	Distance from post office in Beaumont						
89	3.6 miles northwest	S. P. Williams	Paul Acheson	1940	199	1½	-
90	3.3 miles north	Beaumont Country Club	George F. Rainey	1907	650	4	-
91	do.	do.	Layne-Texas Co.	1937	534	8-5/8, 6-5/8	Hole in pump base.
92	2.9 miles north	Pine Grove Golf Course	Virgil Phelps	1939	140±	1½	-
93	1.9 miles north	Spence Charlton	-	1932	9	36	Top of curb.
94	3.5 miles northwest	Frank Vaughn	Paul Acheson	-	68	1½	-
95	3.6 miles northwest	E. H. Smallwood	do.	1940	67	1½	-
96	3.9 miles northwest	Stanolind Oil & Gas Co.	-	1918	33	36	-
97	3.1 miles northwest	J. Kinsolving	Paul Acheson	1940	157	2	-

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
73	2.0	16.42	+ .15	Sept. 27, 1941	Flows	N	Screen from 88 to 100 feet. Measured flow ½ gallon a minute.
74	1.0	13.55	+ .57	do.	Flows	N	Screen from 240 to 280 feet. Estimated flow 5 to 10 gallons a minute.
75	.5	14.96	+17.46	do.	Flows	N	Measured flow 1/8 gallon a minute.
76	-	20	-	-	A,E,6	D,S	Screen from 172 to 180 feet. Supplies water for 6 houses and a store.
77	-	28	-	-	C,E,¼	D	Screen from 230 to 234 feet. Sand from 222 to 234 feet.
78	-	28	-	-	A,E,2	D	Screen from 240 to 280 feet.
79	.0	27	11.48	Mar. 15, 1941	A,E,¼	D	Screen from 167 to 187 feet.
80	0	28	e/ 10	1939	C,E,1	P	Screen from 62 to 70 feet. Sand from 50 to 70 feet.
81	0	30	e/ 8	1935	A,G, 1½	D,S	
82	-	37	-	-	C,H	D,S	
83	-	34	-	-	C,E,¼	D,S	Screen from 60 to 68 feet.
84	-	35	-	-	C,E,¼	D	Screen from 62 to 70 feet.
85	-	-	-	-	None	N	Flowed when drilled. Water too salty for boilers. Caved and abandoned.
86	-	32	-	-	C,E,¼	D	Screen from 68 to 72 feet.
87	-	30	-	-	C,E,¼	D,S	Screen from 65 to 69 feet.
88	-	29	-	-	C,H	P	Screen from 58 to 62 feet.
89	-	20	-	-	C,H	D,S	Screen from 192 to 197 feet.
90	0	18	e/ + 40	1907	C,E,1	D	Sand from 630 to 650 feet. Deussen No. 661 f/.
91	1	17.77	e/ 3.5 4.01 4.81	1937 Mar. 28, 1941 Sept. 22, 1941	T,E, 7½	Sw	Casing: 112 feet of 8-5/8-inch; 297 feet of 6-5/8-inch. Screens from 224 to 249, 321 to 342, and 387 to 409 feet. Drawdown 46½ feet pumping 260 gallons a minute when drilled. See log.
92	-	20	-	-	C,G, 1½	Irr	
93	2.5	-	5.19	Jan. 29, 1942	B,F	D,S	Dug well.
94	-	30	-	-	C,E,¼	D,S	Screen from 64 to 68 feet.
95	-	31	-	-	C,E,¼	D,S	Screen from 59 to 67 feet.
96	0	27	e/ 21	1941	C,F	D,S	Dug well.
97	-	25	-	-	C,E,¼	D	Screen from 151 to 157 feet.

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in Beaumont	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
98	4.3 miles west	Mrs. Bessie Long	Homer Wright	1936	249	4	-
99	5.2 miles west	W. P. McCormack	G.T. McCormack	1941	24	8	Top of curb.
100	5.3 miles west	F. C. Gaily	Sun Oil Co.	1938	65	2	-
101	do.	-- Yount Est	Conn and Gracy	1936	265±	4	Opening in side of tee.
102	6.3 miles west	City of Beaumont	Paul Acheson	1940	115	2	-
103	6.1 miles southwest	C. Richards	-	1930	17	72	Top of curb.
104	6.0 miles southwest	Hank Wooten	Paul Acheson	1940	129	1½	-
105	5.1 miles southwest	Long and Guinn	do.	1940	65	1¼	-
106	5.1 miles west	Amelia School Dist.	do.	1938	130	2	-
107	4.2 miles southwest	H. F. Walton	do.	1940	234	3,2	-
108	4.2 miles west	Paul Acheson	do.	1938	80	2	-
109	4.8 miles west	Amelia School Dist.	do.	1940	79	1¼	-
110	3.1 miles west	Hugh Oxford	F. P. Balcar	Old	340	4	Top of casing.
111	2.8 miles west	J. G. Fuqua	Paul Acheson	1940	65	2	-
112	1.0 mile west	J. F. Keith	-	Old	700±	4	Top of casing.
113	0.4 mile east	Crystal Ice Co.	F. R. Balcar	Old	240	4	-
114	0.3 mile southwest	Sinclair Refining Co.	Layne-Bowler Co.	1906	562	-	-
115	0.8 mile southwest	Cummer-Graham Co.	-- Faucett	1939	78	6	-
116	2.6 miles southwest	J. S. Roshenger	Paul Acheson	1940	82	2	-
117	5.2 miles southwest	R. H. Barrett	do.	1940	115	1¼	-
118	5.5 miles southwest	R. J. Peveto	do.	1940	130	1¼	-
119	6.0 miles southwest	P. H. Teal	P. H. Teal	1933	30	4	-
120	7.3 miles southwest	Henry Spears	Henry Spears	1940	21	2	-
121	7.6 miles southwest	Fred Zoch	William Peat	1938	24	48	-
122	6.1 miles southwest	Tyrrell Trust	Clyde Lewis	1922	242	4	-
123	5.5 miles southwest	A. W. Geitson	Paul Acheson	1940	58	1¼	-

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
98	-	28	-	-	A,-,-	Ind	30 feet of screen in bottom sand. Supplies water for oil lease. See log.
99	1.0	32	3.51	Mar. 14, 1941	C,G,1	S	
100	-	30	-	-	C,G,1½	D,S	
101	1.0	30	9.24	June 10, 1941	C,G,2½	Ind	Formerly supplied water for drilling.
102	-	30	-	-	C,T,¼	P	Screen from 109 to 115 feet. Supplies water for airport.
103	.3	28	1.50	Mar. 20, 1941	C,E,¼	D,S	Dug well.
104	-	29	-	-	C,E,¼	S	
105	-	27	-	-	C,E,¼	P	Screen from 61 to 65 feet.
106	0	28	e/ 12	1938	C,E,½	P	Screen from 122 to 130 feet. Reported yield 25 gallons a minute during test.
107	-	23	-	-	C,H	D,S	Screen from 222 to 234 feet.
108	0	25	e/ 10	1938	C,E,1/6	D,S	Screen from 74 to 80 feet. Sand from 50 to 80 feet. No sand in test hole from 80 to 245 feet.
109	-	27	-	-	C,H	P	Screen from 75 to 79 feet.
110	.5	23	5.98	Mar. 4, 1941	None	N	Not used since 1931.
111	-	23	-	-	C,E,¼	D	Screen from 59 to 65 feet.
112	.5	20	5.18	Mar. 30, 1941	None	N	Flowed when drilled. Deussen No. 696 f/.
113	0	-	+	Mar. 28, 1941	Flows C,E,1	Ind	Reported to have a flow of 2 to 5 gallons a minute.
114	-	19	-	-	None	N	See log.
115	-	20	-	-	T,E,-	Ind	Screen from 62 to 78 feet. Reported yield 50 gallons a minute. Supplies water for box factory.
116	-	16	-	-	C,E,¼	D	Screen from 56 to 62 feet.
117	-	24	-	-	C,E,¼	D,S	Screen from 111 to 115 feet.
118	-	24	-	-	C,E,¼	D,S	Screen from 122 to 130 feet.
119	-	20	-	-	C,H	D,S	
120	0	24	e/ 10	Mar. 24, 1941	C,H	D,S	Screen from 17 to 21 feet.
121	-	18	-	-	C,E,¼	S	Dug well.
122	-	15	-	-	C,W	S	
123	-	14	-	-	C,E,¼	D,S	Screen from 54 to 58 feet.

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in Beaumont	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
124	5.5 miles southwest	G. W. Downs	G. W. Downs	1935	20	48	-
125	4.5 miles southwest	M. Biehler	M. Biehler	1931	45	1¼	-
126	2.3 miles southeast	Magnolia Petroleum Co.	Layne-Texas Co.	1941	620	12¾, 8-5/8	Top of nipple in pump base.
127	2.5 miles southeast	do.	do.	1930?	600±	-	-
128	3.5 miles southeast	Gulf States Utilities Co.	do.	1925	698	-	-
129	3.4 miles southeast	Southern Acid & Sulphur Co.	F. R. Balcar	1930	641	10, 8	Top of flange on discharge pipe.
130	do.	do.	do.	1940	145	4	Top of air line.
131	3.6 miles southeast	do.	-	Old	1,100±	6	Top of casing.
132	do.	R. E. Masterson	-	Old	22	4	do.
133	4.7 miles southeast	Philp Bros.	Higgins Oil & Fuel Co.	1901	1,006	6	-
134	5.1 miles southeast	McFaddin, Wiess and Kyle	J. G. & A. T. Hamill	1901	1,160	6,4	-
135	5.9 miles south	N.S. Whitmann Est.	Virgil Phelps	1941	159	1¼	-
136	4.9 miles south	do.	do.	1941	77	1¼	-
137	3.4 miles south	John W. Fish	-	-	60±	1½	-
138	4.5 miles south	do.	Virgil Phelps	1941	45	1½	-
139	7.9 miles southwest	Jefferson Land Co.	-	1916	110	6	-
140	10.1 miles southwest	Tony Tortoris	-	1940	18	1	-
141	9.1 miles southwest	R. H. Hunter	-	1930	18	4	Top of curb.
142	9.4 miles southwest	L. D. Fontenot	L. D. Fontenot	1924	33	36	do.
	Distance from post office in Fannett						
143	4.1 miles north	Avery Migues	Avery Migues	1938	25	4	Top of curb.
144	3.1 miles northeast	Elmer Boyt	Elmer Boyt	1935	45	2	-

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
124	-	13	-	-	C,E, 1/6	S	Dug well.
125	-	13	-	-	C,E,1/3	D,S	Screen from 41 to 45 feet.
126	1.7	28.21	21.49	Sept.23, 1941	T,E, 50	Ind	Casing: 496 feet of 12¾-inch; 124 feet of 8-5/8-inch. Screen from 494 to 612 feet. Reported yield 1,130 gallons a minute. Used at refinery for cooling.
127	-	20	-	-	None	N	Formerly supplied water to refinery for cooling. Reported yield 700 gallons a minute. See log.
128	-	2	-	-	None	N	See log.
129	3.0	24.00	11.60	July 15, 1941	T,E, 10	Ind	Casing: 532 feet of 10-inch. Ten and 8-inch screen from 532 to 641 feet. Temperature 77° F.
130	1.5	21.99	17.18	Mar. 8, 1941	None	N	Water reported unfit for drinking or boilers. See log.
131	.5	21.06	10.00	Mar. 8, 1941	None	N	Oil test.
			11.92	Sept.23, 1941			
132	1.2	20	3.28	Jan. 29, 1942	C,E,¼	D,S	Supplies water to dairy.
133	-	26	-	-	None	N	Plugged and abandoned. Deussen No. 653 f/. See log.
134	-	20	-	-	None	N	Original "Lucas Gusher" in Spindle top oil field. Deussen No. 656 f/. See log.
135	0	10	e/ 0	1941	C,W	S	Screen from 151 to 159 feet.
136	0	9	e/ 6	1941	C,W	S	Screen from 69 to 77 feet.
137	-	19	-	-	C,E,¼	D,S	
138	0	11	e/ 6	1941	C,W	D,S	Screen from 41 to 45 feet.
139	-	13	-	-	C,H	D,S	
140	0	20	e/ 8	1941	C,H	D,S	
141	2.0	20	4.75	Apr. 1, 1941	C,H	P	
142	1.0	23	7.00	Apr. 2, 1941	C,W	D,S	Dug well.
143	1.0	27	5.10	Apr. 2, 1941	C,H	D,S	
144	-	23	-	-	C,W	D,S	

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in Fam. ‡‡	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
145	2.0 miles north	G. D. Clubb	G. D. Clubb	1939	15	30	Top of curb.
146	2.0 miles northwest	T. A. Clubb	T. A. Clubb	1929	14	42	do.
147	2.9 miles west	J. N. Gilbert Est.	-	Old	96	2	-
148	0.7 mile northwest	Ted Burdoff	Virgil Phelps	1938	159	1¼	-
149	0.7 mile southwest	John Ainsworth	do.	1938	208	2	-
150	1.3 miles southeast	Mrs. Ila Boyt	-	1939	18	36	-
151	1.6 miles east	F. Goulding	F. A. Schaumen	1902	600	6	-
152	2.7 miles southeast	T. G. and D. Korry	-	1936	15	36	-
153	2.3 miles southeast	J. B. Wingate	Paul Acheson	1940	103	1¼	-
154	3.0 miles southeast	C. A. Kiker	do.	1940	65	1¼	-
155	4.5 miles southeast	J. V. Manuel	W. J. Giles	1900?	300	6,2	Top of 2-inch casing.
156	3.2 miles southwest	I. R. Bordages	Virgil Phelps	1941	200	2	do.
157	2.6 miles southwest	do.	Gulf Oil Corp.	1941	8,120	-	-
158	3.6 miles southwest	E. Thomas, et al.	do.	1929	400	5	-
159	3.7 miles southwest	Mrs. -- Fifield	Paul Acheson	1940	67	1¼	-
160	3.9 miles southwest	C. A. Bristow	do.	1938	65	1¼	-
	Distance from post office in Hamshire						
161	2.0 miles east	J. Garvin	J. Garvin	1938	20	6	-
162	2.0 miles southeast	Guy Junker Est.	Lee Williams	1926	275±	2⅝	Top of casing.
163	1.2 miles east	Asa Hamshire	D. Meloncon	1933	18	48	-
164	0.3 mile northeast	Mrs. G. W. Blanch	-	1925	232	8	-
165	0.8 mile northwest	Ed. Van Houten	Ed. Van Houten	1926	24	5	-
166	1.2 miles northwest	John Kropscott	Edgar Caruthers	1918	228	8	Top of casing.

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
145	3.0	22	9.17	Aug. 27, 1941	C,E,$\frac{1}{2}$	D,S	Dug well. Small supply of highly mineralized water found in sand from 146 to 171 feet in nearby test well drilled to 250 feet, reported not available at greater depth in vicinity.
146	1.5	20	5.22	do.	C,W	D,S	Dug well. Potable water
147	-	20	-	-	C,C, 1$\frac{1}{2}$	D,S	
148	0	13	e/ 7	1938	C,H	D,S	Screen from 155 to 159 feet.
149	0	11	e/ 0	1938	C,H	D,S	Screen from 204 to 208 feet. Sand from 198 to 208 feet.
150	-	15	-	-	C,W	D,S	Dug well.
151	0	18	e/ +1	1907	None	N	Oil test. Plugged and abandoned. Deussen No. 680a f/.
152	0	16	e/ 7	1936	C,H	D,S	Dug well.
153	-	16	-	-	C,G,2	D,S	Screen from 95 to 103 feet.
154	-	15	-	-	C,E,$\frac{1}{4}$	D,S	Screen from 61 to 65 feet. Test well drilled nearby to 250 feet showed no fresh water below 65 feet.
155	.5	6	+	May 12, 1941	Flows	N	Estimated flow 2$\frac{1}{2}$ gallons a minute. Formerly used for irrigation. Deusson No. 679 f/.
156	1.0	12	2.05	May 22, 1941	C,H	N	Screen from 115 to 119 feet. See log.
157	-	14	-	-	None	N	Oil test. Plugged and abandoned. See partial log.
158	-	12	-	-	C,E,5	P	Supplies water for oil camp but not for drinking.
159	0	12	e/ 10	1940	C,E,$\frac{1}{2}$	D,S	Screen from 59 to 67 feet.
160	-	12	-	-	C,E,$\frac{1}{2}$	D,S	Screen from 57 to 65 feet.
161	-	11	-	-	C,H	S	
162	.4	12	0.39	May 21, 1941	C,H	D,S	Flowed when drilled.
163	-	14	-	-	C,H	S	Dug well.
164	.0	14	0.0	Mar. 31, 1941	C,W	P	Screen from 216 to 232 feet.
165	-	16	-	-	C,E, 1/6	D,S	
166	.6	18	1.54	May 23, 1941	None	N	Screen from 208 to 228 feet. Drilled for irrigation but supply reported inadequate.

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in Hamshire	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
167	1.6 miles northwest	Henry Lohman	Virgil Phelps	1941	223	2	-
168	2.4 miles northwest	do.	do.	1940	223	2	-
169	2.8 miles northwest	do.	E. G. Bennett	1930	227	1½	-
170	2.5 miles northwest	Cordelia Powers	Cordelia Powers	1931	18	4	Top of curb.
171	2.6 miles west	N. N. Vickers	-	Old	10	42	do.
172	0.8 miles southwest	N. S. Whitman Est.	Virgil Phelps	1941	306	1¼	-
173	1.7 miles southwest	William Fischer	William Fischer	1910	28	6	-
174	2.1 miles southwest	Mamie Powell	Pitre Water Well Drilling Co.	1939	390	4	-
175	4.1 miles southwest	Roy Moore	Virgil Phelps	1940	127	1¼	-
176	4.9 miles southwest	J. McManus	-	1900?	653	-	-
177	5.8 miles southwest	S. R. Smith Est.	Virgil Phelps	1940	180	2	-
178	4.2 miles southwest	McFaddin Trust	-	1939	20	4	-
179	2.6 miles southeast	Arceneaux Est.	Edgar Caruthers	1898	250	6	-
180	2.8 miles southeast	P. Arceneaux	-	1930	18	48	Top of curb.
181	4.5 miles southeast	Mrs. Geo. Gill	-	1900	254	2	-
	Distance from Big Hill						
182	5.3 miles northwest	Security State Bank & Trust Co.	Paul Acheson	1940	162	2½,2	-
183	2.6 miles northwest	do.	-- Caffell	1900	480±	-	-
184	2.3 miles northwest	Mrs. Geo. Gill	-	1900	400±	-	-
185	1.3 miles northwest	Pipkin Ranch	-	Old	200±	2	-
186	1.9 miles northeast	do.	Virgil Phelps	1937	47	2	-
187	1.2 miles southwest	do.	Jimmie Cencor	Old	327	6	-
188	2.8 miles south	do.	Virgil Phelps	1935	300	2	Ell on casing.
189	1.4 miles southeast	do.	The Texas Co.	1920	327	4,2	-
190	1.9 miles southeast	do.	Edgar Caruthers	1915	250	2	Top of casing.

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
167	0	18	e/ 0	1941	C,W	D,S	Screen from 215 to 223 feet.
168	0	20	e/ 0	1940	C,W	D,S	Screen from 203 to 223 feet.
169	0	21	e/ 8	1940	C,W	D,S	
170	2.0	22	5.00	Apr. 11, 1941	B,H	D,S	
171	2.0	20	5.83	Aug. 27, 1941	C,H	S	Dug well.
172	0	13	+0.25	May 15, 1941	Flows C,H	D,S	Screen from 294 to 306 feet. Sand from 284 to 306 feet.
173	-	12	-	-	C,H	S	
174	0	10	e/+	1939	None	N	Sands from 350 to 373 and 379 to 390 feet. Supplied water for drilling. Plugged and abandoned.
175	0	21	e/ 5	1940	C,W,¼	D,S	Screen from 123 to 127 feet. Sand from 115 to 127 feet. See log.
176	0	17	e/+	1907	None	N	Formerly used for irrigation. Known locally as "Old Salty".
177	-	10	-	-	C,W	S	Deusson No. 674 f/.
178	-	13	-	-	C,H	D	
179	0	10	e/+	May 12, 1941	Flows	N	Sand from 207 to 250 feet. Used in 1898 for irrigation. Deusson
180	2.0	12	e/ 8	1941	C,H	S	Dug well. No. 673 f/.
181	0	6	e/ +	1900	C,W	D,S	Screen from 248 to 254 feet.
182	-	8	-	-	C,W	S	Screen from 156 to 162 feet.
183	0	9	e/+	1900	None	N	Used one year for irrigation. Water reported highly mineraliz-
184	0	8	e/+	1900	None	N	One of two wells used 2 ed. years for irrigation. Water reported highly mineralized.
185	-	10	-	-	C,W	S	
186	0	9	e/ 8	1937	C,W	S	Screen from 35 to 47 feet. Sand from 20 to 47 feet.
187	0	-	+ 2	Aug. 26, 1941	Flows C,W	S	Estimated flow 2½ gallons a minute.
188	2.5	-	e/+	May 12, 1941	Flows	S	Screen from 280 to 300 feet.
189	0	-	e/ 0	Aug. 26, 1941	C,W	S	Screen from 312 to 327 feet.
190	1.5	-	+	do.	Flows	S	Estimated flow 1½ gallons a minute.

Records of wells in Jefferson County--Continued

Well No.	Distance from Big Hill	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
191	1.9 miles southeast	Pipkin Ranch	Virgil Phelps	1934	250	2	-
192	2.9 miles southeast	do.	do.	1937	178	2	-
193	3.6 miles southeast	do.	do.	1937	198	2	-
194	3.7 miles southeast	do.	do.	1934	360	2	-
195	4.2 miles southeast	do.	do.	1933	26	6	-
196	5.6 miles southeast	McFaddin Trust	Paul Acheson	1937	114	2	-
197	5.2 miles southeast	do.	do.	1937	82	2	-
198	5.5 miles east	do.	do.	1937	80	2	-
199	do.	do.	do.	1937	76	2	-
200	5.4 miles east	do.	-	1904	22	36	Top of curb.
201	5.5 miles east	do.	Paul Acheson	1937	60	2	-
	Distance from Labelle						
202	5.7 miles south	Broussard Trust	J. J. Brown	1940	28	12	Top of curb.
203	4.8 miles southeast	do.	-	Old	28±	4	-
204	5.5 miles south	do.	-	-	100±	2	-
205	4.4 miles south	C. E. Ward	Sun Oil Co.	1934	44	2½	-
206	5.2 miles southwest	do.	Edgar Caruthers	1902?	700±	10	-
207	4.1 miles southwest	John Wilfert	-	1902	230	8	-
208	2.9 miles southwest	Vaughn Club?	-	1902?	536	8,6	-
209	2.5 miles southwest	C. E. Ward	Sun Oil Co.	1934	117	3	-
210	2.3 miles southwest	do.	-	1926	18	4	Top of casing.
211	1.3 miles south	J. J. Herbert	Sun Oil Co.	-	-	-	-
212	0.2 mile southeast	N. S. Whitman Est.	Virgil Phelps	1939	282	1½	-

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
191	0	-	e/+ .75	Aug. 26, 1941	Flows C,W	S	Screen from 228 to 258 feet.
192	0	-	e/ 6	1937	C,W	S	Screen from 166 to 178 feet.
193	0	-	e/ 0	1937	C,W	S	Screen from 186 to 198 feet. Blue clay reported from 0 to 184
194	-	-	-	-	None	N	Hard packsand from 350 to feet. 360 feet. Water salty and supply inadequate for stock. Plugged
195	-	-	-	-	None	N	Sand from 20 to and abandoned. 26 feet. Water unfit for stock.
196	-	-	-	-	C,W	S	Water Plugged and abandoned. reported highly mineralized.
197	-	-	-	-	C,W	S	Screen from 74 to 82 feet.
198	-	-	-	-	C,W	S	Screen from 76 to 80 feet.
199	-	-	-	-	C,W	S	Screen from 72 to 76 feet.
200	2.0	-	5.94	Aug. 26, 1941	C,H, G,1½	D	Dug well.
201	-	-	-	-	C,W	S	Screen from 56 to 60 feet.
202	3.0	6	7.82	May 15, 1941	C,H	D,S	Sand from 24 to 28 feet.
203	-	7	-	-	C,W	S	
204	-	8	-	-	C,W	S	Water reported salty.
205	-	6	-	-	C,W	S	Screen from 20 to 36 feet. See log.
206	-	7	-	-	C,W	S	Used for irrigation from 1902 to 1906. Flowed until 1921.
207	0	5	e/+ 7	1907	None	N	Formerly Caved at 75 feet. used for irrigation. Pipe pulled and abandoned in 1939.
208	0	5	e/+ 2	1907	None	N	Formerly Deussen No. 675 f/. used for irrigation. Water reported highly mineralized.
209	-	7	-	-	C,H	D	See log. Deussen No. 680 f/.
210	.2	7	7.60	Aug. 22, 1941	C,H	D	
211	-	14	-	-	C,W	D,S	Reported a deep test and plugged back to shallow sand.
212	-	12	-	-	None	N	Sands from 208 to 226 and 262 to 282+feet. Water reported salty below 208 feet. Plugged and abandoned.

Records of wells in Jefferson County--Continued

Well No.	Distance from Labelle	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
213	1.5 miles west	C. W. Burrell	-	1906	16	48	-
214	2.0 miles northeast	M. I. James	Paul Acheson	1940	80	2	-
215	2.3 miles north	C. L. Reno	-	-	202	4	-
216	2.5 miles northwest	W. G. Burrell	J. L. Ray	1939	33	1½	-
217	4.1 miles northwest	Calder and Steinhagen	-	1941	18	1	Top of curb.
218	5.0 miles north	do.	-	1931?	37	4	Top of casing.
219	4.3 miles northeast	B. A. Steinhagen	-	Old	100±	6,4	do.
220	2.6 miles northeast	W. C. Cutler	-	1935	18	1¼	-
221	3.7 miles northeast	O. H. Cuniff	-	1930	24	36	Top of curb.
222	4.5 miles northeast	-- Brockman	-- Brockman	1930	25	1½	-
223	4.7 miles northeast	Humble Oil & Refining Co.	L. Patterson	1939	64	6	-
	Distance from post office in Nederland.						
224	5.9 miles west	Broussard Trust	-	Old	13	42	Top of curb.
225	3.6 miles southwest	E. B. Hebert	E. B. Hebert	1936	18	120	-
226	4.1 miles northwest	McFaddin Trust	-	1890	27	48	Top of curb.
227	2.1 miles northwest	R. C. Stafford	R. C. Stafford	1940	18	2	-
228	1.6 miles west	John Koelemay	John Koelemay	1924	32	30	-
229	4.0 miles southwest	S. Sassine	F. Dionne	1939	18	6	-
230	1.6 miles south	Ross Combest	Paul Acheson	1940	91	2	Top of casing.
231	do.	do.	-	1940	24	4	-
232	0.8 mile southeast	C. B. Wagner	C. B. Wagner	1916	30	48	-
233	0.1 mile southwest	Nederland Utilities Corp.	F. R. Balcar	1933	140	6	Top of casing.
234	do.	do.	do.	1935	510	6	Top of curb.

Well	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
213	-	11	-	-	C,E,$\frac{1}{2}$	D,S	Dug well.
214	-	15	-	-	C,E,$\frac{1}{4}$	D,S	Screen from 72 to 80 feet.
215	-	17	-	-	C,G,5	P	Screen from 192 to 202 feet. Water reported salty.
216	0	19	e/ 5	1941	C,H	D,S	Screen from 54 to 65 feet. Sand from 45 to 63 feet.
217	2.0	13	7.16	Aug. 22, 1941	C,H	D	Sand from 15 to 18 feet.
218	2.0	13	4.68	do.	C,H	D,S	
219	1.5	5	+	May 12, 1941	Flows	N	
220	-	12	-	-	C,H	D,S	
221	1.5	13	e/ 9.5	1941	C,H	S	Dug well.
222	-	3	-	-	C,H	S	
223	-	5	e/ 14	1940	Cf,E,-	P	Screen from 44 to 64 feet. Supplies water for oil camp.
224	1.5	12	5.73	May 23, 1941	C,E	S	Dug well.
225	-	12	-	-	C,E,$\frac{1}{2}$	D,S	Do.
226	2.2	22	13.83	Apr. 15, 1941	C,G,1	S	Do.
227	1.8	17	7.01	do.	C,H	D	
228	-	15	-	-	C,E,1	D,S	Dug well. Sand from 26 to 32 feet.
229	-	-	-	-	C,E,$\frac{1}{4}$	S	
230	.5	-	9.42	Apr. 14, 1941	None	N	Water reported highly mineralized.
231	-	-	-	-	C,E,1	P	Screen from 18 to 24 feet. Supplies water to 14 horses.
232	0	-	e/ 6	1941	C,E,$\frac{1}{2}$	D,S	Dug well.
233	.5	21.82	16.62	Mar. 7, 1941	None	N	Water reported too salty for public supply.
			16.44	Sept. 23, 1941			
234	.7	22.51	13.00	Mar. 7, 1941	T,E,7$\frac{1}{2}$	P	Reported yield 70 gallons a minute. This well and well 235 supply town of Nederland.
			13.02	Sept. 23, 1941			

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in Nederland	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
235	0.2 mile northwest	Nederland Utilities Corp.	F. R. Balcar	1937	510	6	Top of concrete at pump base.
236	1.4 miles northwest	Sun Oil Co.	Sun Oil Co.	1940	550	6-5/8	Top of 2-inch ell.
237	2.1 miles northeast	do.	-	Old	600±	-	Top of hole in pump base.
238	2.0 miles northeast	Pure Oil Co. No. 1	-- Walling	1923	518	8,6	Top of plate on well.
239	do.	Pure Oil Co. No. 2	do.	1923	606	8,6	-
240	do.	Pure Oil Co. No. 3	do.	1923	606	8,6	-
241	do.	Pure Oil Co. No. 4	do.	1923	606	8,6	Top of [illegible], nipple.
242	do.	Pure Oil Co. No. 5	do.	1925	605	8,6	-
243	do.	Pure Oil Co. No. 6	do.	1925	606	8,6	-
244	do.	Pure Oil Co. No. 7	do.	1925	606	8,6	-
245	1.7 miles northeast	Pure Oil Co. No. 8	do.	1934	602	8,6	Top of plate on well.
246	do.	Pure Oil Co. No. 9	do.	1936	618	8,6	-
247	do.	Pure Oil Co. No.10	do.	1936	608	8,6	-

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
235	2.0	22.78	-	-	T,E,7½	P	Casing: 482 feet of 6-inch; 6 feet of 4½-inch. Screen from 478 to 510 feet. Reported yield 70 gallons a minute. See log.
236	1.6	25.07	-	-	T,E,5	D, Ind	Casing: 472 feet of 6-5/8-inch; 46 feet of 5-inch. Screen from 518 to 550 feet. See log.
237	2.0	16.13	4.45 4.73	Mar. 7, 1941 Sept. 23, 1941	T,E,7½	T,F	Supplies water to ships. Temperature 74° F.
238	1.0	19	8.90	Mar. 11, 1941	A,-,-	Ind	Casing: 455 feet of 8-inch; 2 feet of 6-inch. Screen from 457 to 518 feet. Reported yield 100 gallons a minute. See log.
239	-	18	-	-	Cf,E,-	D	Casing: 453 feet of 8-inch; 153 feet of 6-inch with screens from 475 to 519 and 562 to 606 feet
240	-	18	-	-	A,-,-	Ind	Casing: 454 feet of 8-inch; 152 feet of 6-inch with screens from 478 to 521 and 563 to 606 feet. Reported yield 100 gallons a min-
241	2.0	20	9.11	Mar. 11, 1941	A,-,-	Ind	ute. Casing: 450 feet of 8-inch; 156 feet of 6-inch with screens from 479 to 521 and 563 to 606 feet. Reported yield 50 gallons
242	-	18	-	-	A,-,-	Ind	a minute. Casing: 451 feet of 8-inch; 154 feet of 6-inch with screens from 469 to 515 and 559 to 605 feet. Reported yield 75
243	-	18	-	-	A,-,-	Ind	gallons a minute. Casing: 462 feet of 8-inch; 144 feet of 6-inch with screens from 472 to 517 and 560 to 606 feet. Reported yield 75 gallons a minute.
244	-	18	-	-	A,-,-	Ind	Casing: 455 feet of 8-inch; 151 feet of 6-inch with screens from 468 to 513 and 560 to 606 feet. Reported yield 150 gallons a min-
245	2.0	21	14.97	Mar. 11, 1941	A,-,-	Ind	ute. See log. Casing: 458 feet of 8-inch; 144 feet of 6-inch with screens from 478 to 520 and 561 to 602 feet. Reported yield 150 gallons a minute. See log.
246	-	19	-	-	A,-,-	Ind	Casing: 420 feet of 8-inch; 198 feet of 6-inch with screens from 480 to 520 and 578 to 618 feet. Reported yield 50 gallons a min-
247	-	19	-	-	A,-,-	Ind	ute. Casing: 438 feet of 8-inch; 170 feet of 6-inch with screens from 468 to 518 and 558 to 608 feet. Reported yield 150 a minute.

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in Nederland	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
248	1.7 miles northeast	Pure Oil Co. No. 11	-- Walling	1936	612	8,6	-
249	2.2 miles northeast	Pure Oil Co. No. 12	do.	1938	605	8,6	Top of concrete pump base.
250	do.	Pure Oil Co. No. 13	do.	1938	610	8,6	-
251	do.	Pure Oil Co. No. 14	do.	1938	608	8,6	-
252	2.3 miles northeast	Pure Oil Co. No. 15	do.	1938	608	8,6	-
253	do.	Magnolia Petroleum Co.	-	Old	774	8,4	Top blind flange.
254	2.6 miles northeast	City of Port Arthur No. 1	Layne-Bowler Co.	1912	629	24,11-5/8	Top of plate on casing.
255	2.8 miles northeast	City of Port Arthur No. 2	do.	1912	657	24,12	Top of flange.
256	do.	City of Port Arthur No. 3	do.	1916	682	24,12	Top iron pump base.
257	2.7 miles northeast	City of Port Arthur No. 4	Layne-Texas Co.	1933	644	24,18, 12,10	Top of concrete base.
258	do.	City of Port Neches No. 2	-	-	60	24	Top of concrete pump base.
259	3.2 miles northeast	The Texas Co.	-	-	681	10	Top of casing.
260	do.	do.	-	-	656	10,8	Top upper $\frac{3}{4}$-inch tee on air line.

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
248	-	19	-	-	A,-,-	Ind	Casing: 433 feet of 8-inch; 179 feet of 6-inch with screens from 452 to 502 and 562 to 612 feet. Reported yield 150 gallons a minute. See log.
249	2.0	9.43	+ 1.75	Mar. 11, 1941	Flows T,E,10	Ind	Casing: 452 feet of 8-inch; 153 feet of 6-inch with screen in bottom sand. Estimated flow 15 gallons a minute. Reported yield 250 gallons a minute. Temperature 76° F. See log.
			+ 2.29	Sept.24, 1941			
250	-	18	-	-	T,E,10	Ind	Casing: 463 feet of 8-inch; 147 feet of 6-inch with screen from 508 to 610 feet. Reported yield 250 gallons a minute. See log.
251	-	19	-	-	T,E,10	Ind	Casing: 470 feet of 8-inch; 138 feet of 6-inch with screen from 504 to 608 feet. Reported yield 250 gallons a minute. See log.
252	-	-	-	-	T,E,10	Ind	Casing: 461 feet of 8-inch; 147 feet of 6-inch with screen from 504 to 608 feet. Reported yield 250 gallons a minute. See log.
253	.4	15.39	4.11	Sept.23, 1941	C,S	Ind	Well reworked in 1939; 204 feet of 4½-inch casing and screen was set inside of 8-5/8-inch casing and screen. Reported yield 135 gallons a minute. See log.
254	.0	19.10	6.95	Mar. 10, 1941	None	N	Casing: 60 feet of 24-inch; 569 feet of 11-5/8-inch with screen from 447 to 627 feet. See log.
			6.88	Sept.23, 1941			
255	.0	20.72	8.33	Mar. 10, 1941	None	N	Casing: 63 feet of 24-inch; 594 feet of 12-inch with screen from 497 to 657 feet. See log.
			8.33	Sept.23, 1941			
256	2.0	20.76	8.67	Mar. 10, 1941	None	N	Casing: 59 feet of 24-inch; 623 feet of 12-inch with screen from 519 to 674 feet. See log.
			8.65	Sept.23, 1941			
257	.5	19.43	7.46	Mar. 10, 1941	T,E,3	P	Ten-inch screen from 509 to 634 feet. Used as stand-by well for City of Port Neches. See log.
			7.41	Sept.23, 1941			
258	2.5	-	5.21	Mar. 30, 1941	None	N	Formerly supplied City of Port Neches.
259	2.0	19.68	-	-	A,-,-	Ind	Reported yield 120 gallons a minute.
260	5.1	20.39	8.08	Sept.23, 1941	A,-,-	Ind	Reported yield 190 gallons a minute.

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in Port Arthur	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
261	6.3 miles northeast	L. J. Gibling	-- Elder	1906	1,000±	4	Top of casing.
262	7.1 miles northeast	Port Arthur Country Club	-	1927	20	6	do.
263	do.	Atlantic Refining Co.	-	Old	822	8	Top of tee.
264	6.9 miles northeast	do.	Layne-Texas Co.	1936	549	8,6	Top concrete foundation.
265	do.	Atlantic Refining Co. Test No. 1	do.	1936	1,471	6	-
266	3.9 miles northeast	C. R. Bernhardt	-	Old	22	-	-
267	5.7 miles northwest	D. Smith	-- Broussard	1937	22	4	Top of curb.
268	6.7 miles northwest	L. W. Lloyd	L. W. Lloyd	1931	20	24	-
269	4.7 miles northwest	W. Talbot	Murphy Richards	-	27	48	-
270	1.8 miles northwest	The Texas Co. No. 12	-	1921	1,563	12,9	-
271	do.	The Texas Co. No. 13	-	1921	908	12,9	-
272	1.9 miles northwest	The Texas Co. No. 14	-	1921	929	12,9	-
273	do.	The Texas Co. No. 15	-	1921	920	12,9	-
274	do.	The Texas Co. No. 16	-	1921	924	12,9	-
275	1.8 miles northwest	Southern Acid & Sulphur Co.	-	-	935	12,8,6	Top of casing.
276	0.2 mile southeast	Jefferson County	-	1896	796	4½	do.
277	0.5 mile south	Gulf States Utilities Co.	Layne-Texas Co.	1927	953	24,12	-

Well	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
261	1.0	-	+	Mar. 14, 1941	Flows C,G,2	D	Drilled for irrigation but water reported too salty. Estimated flow 5 gallons a minute.
262	.5	-	6.97	Jan. 26, 1942	C,E,¼	D	
263	1.3	9.92	+ 1.87	Mar. 13, 1941	Flows A,S	Sw	Reported yield 270 gallons a minute. Temperature 78° F. See log.
			+ 1.63	July 22, 1941			
			+ 2.45	Sept.25, 1941			
264	1.0	9.57	-	-	T,E,15	Ind	Casing: 449 feet of 8-inch. Screen 6-inch from 449 to 547 feet. Reported yield 200 gallons a minute. See log.
265	-	9	-	-	None	N	Well drilled to test quality of water in different sands. Pipe pulled and hole abandoned. See log.
266	-	-	-	-	A,E,¾	D	Formerly water hauled to Port Arthur and sold for drinking.
267	2.6	7	10.66	Apr. 8, 1941	C,H	P	
268	-	4	-	-	C,E,¾	D,S	Dug well. Water from 80 feet in nearby test too salty for domestic use.
269	-	5	-	-	C,E,¾	P	Dug well.
270	-	3	e/+	1921	Flows None	N	Supply inadequate at 924 feet; drilled deeper then abandoned.
271	-	3	e/+	1921	Flows A,-,-	N	Estimated yield in 1924, 800 gallons a minute. Formerly used for cooling. Reported about 4,000 parts per million of chloride. See log.
272	-	3	e/+	1921	Flows A,-,-	N	Measured yield in 1924, 1,130 gallons a minute. Formerly used for cooling. Water salty. See log.
273	-	3	e/+	1921	Flows A,-,-	N	Measured yield in 1924, 1,020 gallons a minute. Formerly used for cooling. Water salty. See log.
274	-	3	e/+	1921	Flows A,-,-	N	Measured yield in 1924, 1,220 gallons a minute. Formerly used for cooling. Water salty. See log.
275	9.3	13.56	7.70	July 16, 1941	Flows A,-,-	Ind	Casing: 621 feet of 12-inch; 196 feet of 8-inch; 118 feet of 6-inch. Screen from 891 to 935 feet. Measured yield 600 gallons a minute. See log.
276	0	5	+	Feb. 13, 1941	Flows	N	Estimated flow 2 gallons a minute. Probably the first deep well drilled in Jefferson County. Deussen 292 f/, reported yield 1900 gallons a minute when drilled. Plugged and abandoned. See log.
277	0	4	e/+21.46	Apr. 27, 1927	None	N	Report-

Records of wells in Jefferson County--Continued

Well No.	Distance from post office in Port Arthur	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Measuring point Description
278	6.5 mile south	Gulf States Utilities Co.	Layne-Texas Co.	1925	831	24,12	-
279	2.2 miles southwest	Gulf Refining Co.	-	-	950±	10	Top of casing.
280	do.	Gulf Refining Co. No. 5	Gulf Coast Drilling Co.	1921	946	10,8	do.
281	do.	Gulf Refining Co. No. 6	do.	1921	965	10,8	Top of cap on casing.
282	2.1 miles southwest	Gulf Refining Co. No. 7	do.	1921	969	10,8	Top of casing.
283	do.	Gulf Refining Co. No. 8	do.	1921	957	10,8	do.
284	do.	Gulf Refining Co. No. 9	do.	1921	965	10,8	Top of blind flange on casing.
	Distance from post office in Sabine Pass						
285	2.8 miles northwest	Guy Moore	Guy Moore	-	11	1½	-
286	In Sabine Pass	Granger's Cafe	-	-	7	48	-
287	1.6 miles southeast	Houston Oil Co.	Gust Warnecke	1897	1,065	6	Top of ell on casing.
288	2.8 miles southwest	A. H. Moss	A. H. Moss	1936	14	48	Top of curb
289	4.4 miles southwest	-- Stribling	-	Old	1,500	-	-
290	3.5 miles southwest	Sid Broussard	W. O. Fawvor	1935	13	48	-
291	3.1 miles southwest	W. O. Fawvor	do.	1935	13	2½	-
292	do.	do.	Works Projects Administration	1941	135	4	-

a/ Altitudes determined by instrumental leveling from government bench marks and from U. S. Department of Agriculture drainage map with 1 foot contour intervals.
b/ Plus (+) indicates water level above measuring point.
c/ Pump or lift: T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, rope and bucket. Power: E, electric; S, steam; G, gasoline engine; W, windmill; H, hand. Figure indicates horsepower.

Well No.	Measuring point: Height above ground (ft.)	Measuring point: Altitude (ft.) a/	Water level: Below measuring point (ft.) b/	Water level: Date of measurement	Method of lift c/	Use of water d/	Remarks
278	0	4	e/+14	Dec. 16, 1925	None	N	Reported yield 1,800 gallons a minute when drilled. Plugged and abandoned. See log.
279	.5	-	+	Mar. 24, 1941	Flows	N	Estimated flow 100 gallons a minute.
280	1.0	4	+	do.	Flows	N	Casing: 780 feet of 10-inch; 106 feet of 8-inch. Screen from 896 to 946 feet. Estimated flow 20 gallons a minute. See log.
281	.5	-	+	do.	Flows	N	Casing: 785 feet of 10-inch; 180 feet of 8-inch with bottom 3 sections screened. Estimated flow one-tenth gallon a minute.
282	1.0	-	+	Mar. 24, 1941	Flows	N	Casing: 786 feet of 10-inch; 183 feet of 8-inch with bottom 3
283	1.0	-	+	do.	Flows	N	Casing: sections screened. 778 feet of 10-inch; 179 feet of 8-inch with bottom 3 sections
284	.5	3.60	+6.25	Mar. 25, 1941	Flows	N	Casing: 765 feet of screened. 10-inch; 200 feet of 8-inch with bottom 3 sections screened. See log.
285	0	-	e/ 8	Feb. 13, 1941	C,E,¼	P	Supplies water for Coastal Inn.
286	0	-	2.0	do.	None	N	
287	2.5	7.43	e/+19.5 .03	1906 July 18, 1941	Flows	N	Formerly supplied water for Windsor Hotel. Doussen 694 f/. See log.
288	2.5	-	7.5	Apr. 9, 1941	C,"	S	Dug well on sand ridge.
289	-	3	-	-	None	N	Oil test. Caved and abandoned. Doussen No. 705 f/. See log.
290	-	-	-	-	P,H	D,S	Dug well. Water from bed of blue shell.
291	-	-	-	-	C,H	D,S	Screen from 10 to 13 feet.
292	-	8	-	-	None	N	Drilled by hand to test water in shallow sands. See log.

d/ P, public supply; Ind, industrial; Irr, irrigation; RR, railroad; Sw, swimming pool; D, domestic; S, stock; N, none.

e/ Water level reported by driller or owner.

f/ Number under which well is listed in U. S. Geol. Survey Water-Supply Paper 335, Alexander Doussen, 1914.

Drillers' logs of wells in Jefferson County
(Measurement of depth is usually from land surface)

Well 33

Southern Pacific Co., 5.4 miles west of China post office.
(Altitude, 42 feet)

	Thickness (feet)	Depth (feet)
Clay	19	19
Sand	84	103
Clay	4	107
Sand	16	123
Clay	46	169
Sand	12	181
Clay	49	230
Sandy loam	129	359
Sand	21	380
Clay	40	420
Sand	40	460
Soft shale	182	642
Sand, water	50	692

Well 41

B. H. Willis, 2.5 miles south of China post office.
(Altitude, 26 feet)

	Thickness (feet)	Depth (feet)
Tough clay	65	65
Fine-grained sand	20	85
Clay with layers of sand	44	129
Sandy clay	16	145
Fine-grained sand, sandy clay and shells	15	160
Cypress log	1	161
Fine-grained sand, sandy clay and shells	39	200

Well 91

Beaumont Country Club, 3.3 miles north of Beaumont post office.
(Altitude, 17 feet)

	Thickness (feet)	Depth (feet)
Sandy clay	22	22
Tough clay	184	206
White sand	41	247
Clay	30	277
Sandy clay	37	314
Sand	26	340
Clay	28	368
Sandy clay	16	384
Sand	20	404
Shale	130	534

Well 98

Mrs. Bessie Long, 4.8 miles west of Beaumont post office.
(Altitude, 28 feet)

	Thickness (feet)	Depth (feet)
Soil and sandy clay	18	18
Clay	28	46
Sand	11	57
Clay	29	86
Sand	8	94
Clay	39	133
Sand	8	141
Clay	21	162
Sand	7	169
Gumbo	25	194
Sand	43	237
Gumbo	12	249

Well 114

Sinclair Refining Co., 0.3 mile southwest of Beaumont post office.
(Altitude, 19 feet)

	Thickness (feet)	Depth (feet)
Red soil and blue clay	18	18
Yellow sand	7	25
Red clay	5	30
Sand	42	72
Hard yellow clay	13	85
Gummy yellow clay	20	105
Clay and shale	15	120
Hard yellow clay	10	130
Soft yellow clay and blue shale	12	142
Hard clay	14	156
Sand	5	161
Soft rock	1	162
Soft blue shale	23	185
Dark-colored "pepper" sand	40	225
Dark-blue shale and streaks of sand	30	255
Hard blue shale	13	268
Dark-blue sand	66	334
Hard shale	24	358
Sand	7	365
Hard gumbo	37	402
Sand	23	425
Hard blue gumbo	35	460

(Continued on next page)

	Thickness (feet)	Depth (feet)
Well 114--Continued		
Soft blue shale	25	485
Soft blue shale and streaks of sand	18	503
Sand and shale	21	524
Sand, flowing water	38	562
Well 126		
Magnolia Petroleum Co., 2.3 miles southeast of Beaumont post office. (Altitude, 27 feet)		
Surface soil and clay	25	25
Red sand	28	53
Shale	62	115
Gray sand	30	145
Shale	209	354
Sand and layers of shale	32	386
Sandy shale	45	431
Sand	25	456
Shale	39	495
Sand	10	505
Shale	3	508
Sand, water	110	618
Shale	2	620
Well 128		
Gulf States Utilities Co., 3.5 miles southeast of Beaumont post office. (Altitude, 2 feet)		
Dredged sand	9	9
Black gumbo	13	22
Blue clay	4	26
Coarse-grained sand	10	36
Hard gumbo	16	52
Sand	3	55
Blue gumbo	18	73
Soft gumbo	7	80
Fine-grained sand	22	102
Medium-grained sand	21	123
Hard blue clay	9	132
Soft clay	15	147
Sandstone	15	162
Medium-grained sand	26	188
Hard clay	2	190
Yellow fine-grained sand	6	196
Blue clay	5	201
Fine-grained sand	3	204
Clay	14	218
Hard sand	3	221

(Continued on next page)

	Thickness (feet)	Depth (feet)
Well 128--Continued		
Clay	5	226
Hard sand	13	239
Soft sand	10	240
Hard fine-grained sand	19	268
Blue clay	50	318
Sand	4	322
Soft white clay	27	349
Sandstone	6	355
Clay	5	360
Packsand	27	387
Clay	8	395
Soft sand	3	398
Sandstone	29	427
Blue clay	20	447
Packsand	2	449
Blue clay	18	467
Sand	2	469
White clay	5	474
Shale and boulders	20	494
Fine-grained sand	9	503
Hard sand	2	505
Fine-grained sand, water	14	519
Decayed log	1	520
Sandy rocks	35	555
Stony formation	22	577
Shale	25	602
Boulders	1	603
Shale	23	626
Limestone	20	646
Soft formation	1	647
Limerock	14	661
Rock	10	671
Shale	20	691
Boulders	1	692
Shale	6	698
Well 129		
Southern Acid & Sulphur Co., 3.4 miles southeast of Beaumont. (Altitude, 21 feet)		
Clay	18	18
Sand	4	22
Shale	11	33
Gumbo	19	52
Sand	10	62
Gumbo	47	109
Sand	47	156
Gumbo	9	165
Sand	50	215

(Continued on next page)

Drillers' Logs of wells in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
Well 129--Continued		
Shale	34	249
Sand	9	258
Gumbo	5	263
Sand and shale	45	308
Gumbo	16	324
Sand and shale	65	389
Gumbo	28	417
Sand	20	437
Gumbo	59	496
Sand with gravel at bottom	145	641
Well 133		
Philp Bros., Higgins Oil & Fuel Co. No. 2, 4.7 miles southeast of Beaumont post office.		
(Altitude, 26 feet)		
Soil black sandy loam	.66	.66
Yellow clay with red streaks	13.34	14
Blue clay with limy concretions	2	16
Bluish-gray sand	6	22
Yellowish-colored clay with lime	8	30
Dark-blue clay with lime and shells	10	40
Gray sand	16	56
Blue sand	13	69
Blue clay with pyrites	51	120
Blue sand with some clay and small pebbles	26	146
Fine bluish-gray sand	10	156
Fine gray sand	31	187
Fine gray sand with black specks	10	197
Bluish-tinted gray sand	65	262
Dark-gray sand with black specks	9	271
Fine dark-gray sand	44	315
Fine gravish-tinted sand	35	350
Fine grayish-green sand	50	400
Fine brownish-gray sand	40	440
Fine brown sand with shells	30	470
Fine brown sand with broken shells	21	491
Coarse blue sand with broken shells	9	500
Very fine muddy sand	47	547
Very fine bluish-gray sand	17	564
Very fine gray sand with bluish tint	48	612
Fine gray sand with bluish tint	12	624
Fine sandy clay (fish bones at 628 feet)	42	666
Fine blue sandy clay	6	672
Very fine light-blue sand	13	685
Light-blue rock	43	728
Bluish-gray sand	8	736
Light-gray sand with shells	14	750
Marl with small shells	6	756
Light bluish-gray sand and shells	5	761
Fine sand and shells	64	825
Very fine dark brownish-gray sand	49	874
Hard grayish-blue sandy clay with shells	26	900
Dark rock 2 feet, shells 1 foot	3	903
Dark grayish-blue sand with some clay	12	915
Lignite	5	920
Bluish-gray sand with shells	34	954
Bluish-gray rock	4	958
Very fine gravish-brown sand with shells	24	982
Very fine sand with shells	13	995
Dark gray rock, "Cap rock"	5	1000
Coarse dark-gray sand with oil	6	1006
Well 134		
McFaddin, Wies and Kyle, Lucas discovery well, 5.1 miles southeast of Beaumont post office.		
(Altitude, 20 feet)		
Yellow clay	36	36
Coarse gray sand	20	56
Blue clay, pretty hard	114	170

(Continued on next page)

Drillers' Logs of wells in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
Well 134--Continued		
Fine gray sand	75	245
Variously colored gravel, from bean to goose-egg size	20	265
Coarse gray sand	52	317
Blue clay	35	352
Coarse gray sand with pyrite concretions	24	376
Blue clay	19	395
Fine gray sand with lignite	45	440
Marl	8	448
Gray sand with concretions and much lignite	60	508
Soft limestone	.75	508.75
Gray clay and sulphureted hydrogen gas	19.50	528.25
Hard sandstone with calcite depositions	.75	529
Gray sand	34	563
Compact hard sand with pyrite	25	588
Hard sandstone and calcareous concretions	.5	588.5
Gray clay	13.25	601.75
Hard sand	.25	602
Gray clay with calcareous concretions	57	659
White calcareous shells	6	665
Gray clay	14	679
Gray sandstone	6	685
Gray clay with calcareous concretions	7	692
Gray clay, getting harder	23	715
Calcareous concretions with calcite	2	717
Hard gray clay with calcareous concretions; much fine pyrite	136	853
Sandstone and pyrite, hard	20	873
Hard rock, apparently limestone	2	875
Fine oil sand	24	899
Hard clay	80	979
Calcareous concretions with layers of hard sandstone	50	1029
Heavy gas pressure and oil	40	1069
Sand mixed with calcareous concretions and fossils	70	1139
No record	21	1160

Well 156

I. R. Bordages, 3.2 miles southwest of Fannett post office.
(Altitude, 11 feet)

Sandy shale and clay	22	22
Blue sand	46	68
Blue clay	17	85
Yellow clay	2	87
White sand	32	119
Blue chalky shale	75	194
Gray fine-grained sand	6	200

Well 157, partial log

I. R. Bordages, Gulf Oil Corp. No. 12, 2.8 miles southwest of Fannett post office.
(Altitude, 14 feet)

Sandy clay	151	151
Shale	30	181
Sandy shale	58	239
Soft blue sandy shale	161	400
Blue sticky shale	50	450
Gray sand and gravel	319	769
Blue sticky shale	89	858
Gray sand and gravel	59	917
Gray sand and shale	175	1092
Soft gray sand	29	1121
Gray sticky shale	30	1151
TOTAL DEPTH		8120

Well 174

Mamie Powell, 2.1 miles southwest of Fannett post office.
(Altitude, 10 feet)

Clay	153	153
Fine-grained sand	19	172
Clay	8	180
Fine-grained sand	8	188
Clay	13	201
Fine-grained sand	6	207
Clay	2	209
Tough clay	7	216
Fine-grained sand	9	225
Clay	1	226

(Continued on next page)

Drillers' Logs of wells in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
Well 174--Continued		
Fine-grained sand	7	233
Clay	2	235
Fine-grained sand	10	245
Shale	28	273
Tough clay	9	282
Sand	5	287
Shale	24	311
Clay	3	314
Sandy shale	25	339
Tough clay	11	350
Gray, fine-grained sand, water	23	373
Clay	6	379
Coarse-grained sand, water, clay on bottom	11	390
Well 205		
C. E. Ward, 4.4 miles south of Labelle. (Altitude, 6 feet)		
Brown sandy loam	3	3
Gray clay with red streaks and shale breaks	11	14
Gray shale	3	17
White sand, blue gumbo at bottom	27	44
Well 209		
C. E. Ward, 2.5 miles southwest of Labelle. (Altitude, 7 feet)		
Brown sandy loam	4	4
Yellow shale	4	8
White clay and shale	7	15
Brown clay	6	21
Brown sandy shale	12	33
Brown sand	3	36
Blue gumbo	38	74
Blue and yellow gumbo with red streaks	23	97
Sand	20	117
Well 235		
Nederland Utilities Corp., 0.2 mile northwest of Nederland post office. (Altitude, 21 feet)		
Yellow clay	32	32
Sand	6	38
Shale	22	60
Gumbo	10	70
Well 235--Continued		
Blue shale	39	109
Sand	52	161
Shale	11	172
Blue gumbo	13	185
Gray shale	60	245
Sand rock	1	246
Gumbo	24	270
Hard shale	30	300
Gumbo	26	326
Rock	1	327
Pink shale	23	350
Gumbo	32	382
Hard shale	53	435
Soft shale	23	458
Sandy shale	22	480
Shale rock	2	482
Sand, water	28	510
Well 236		
Sun Oil Co., 1.4 miles northeast of Nederland post office. (Altitude, 23 feet)		
Clay	40	40
Sand	10	50
Blue clay	20	70
Sand	70	140
Clay	8	148
Sand	37	185
Sand and clay	20	205
Sandy shale	30	235
Shale	18	253
Sand	2	255
Sand and shale	15	270
Shale	10	280
Sand	25	305
Sand and shale	10	315
Shale	7	322
Sand	13	335
Shale	6	341
Sand	6	347
Sand and shale	35	382
Sand	5	387
Shale	33	420
Hard sand	45	465
Shale	5	470
Fine to coarse-grained sand	80	550

Drillers' Logs of wells in Jefferson County--Continued

	Thickness (feet)	Depth (feet)

Well 238

Pure Oil Co., water well No. 1, 2.0 miles northeast of Nederland post office. (Altitude, 18 feet)

Sand and clay	150	150
Sand	22	172
Clay	90	262
Sand	21	283
Clay	154	437
Gumbo	20	457
Sand	61	518

Well 244

Pure Oil Co., water well No. 7, 2.0 miles northeast of Nederland post office. (Altitude, 18 feet)

Mud	30	30
Sand	110	140
Sand and mud	40	180
Clay	65	245
Sand and clay	35	280
Clay	45	325
Gumbo	55	380
Clay	36	416
Gumbo	39	455
Sand	61	516
Gumbo	24	540
Sand	66	606

Well 245

Pure Oil Co., water well No. 8, 1.7 miles northeast of Nederland post office. (Altitude, 19 feet)

Mud and sand	70	70
Clay	45	115
Sand	20	135
Shale and clay	55	190
Sand and boulders	15	205
Sand	15	220
Clay	20	240
Sand and boulders	28	268
Clay	67	335
Gumbo	47	382
Clay	32	414
Gumbo	36	450
Sand	68	518
Gumbo	23	541
Sand	61	602

Well 246

Pure Oil Co., water well No. 11, 1.7 miles northeast of Nederland post office. (Altitude, 19 feet)

Clay	20	20
Sand	18	38
Shale	40	78
Clay	35	113
Sand	27	140
Clay	230	370
Shale and clay	45	415
Sand	105	520
Clay	30	550
Sand	62	612

Well 249

Pure Oil Co., water well No. 12, 2.2 miles northeast of Nederland post office. (Altitude, 7 feet)

Mud and clay	28	28
Sand and shale	103	131
Clay	39	170
Sand and clay	14	184
Gumbo and boulders	44	228
Clay	17	245
Sand	5	250
Clay	108	358
Shale and clay	12	370
Gumbo	90	460
Sand and clay	28	488
Sand	117	605

Well 251

Pure Oil Co., water well No. 14, 2.2 miles northeast of Nederland post office. (Altitude, 19 feet)

Clay	38	38
Sand and shale	73	111
Sand	15	126
Clay	10	136
Sand and clay	34	170
Clay	56	226
Sand	8	234
Sand and clay	38	272
Clay	18	290
Gumbo	20	310
Clay and shale	28	338

(Continued on next page)

Drillers' Logs of wells in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
Well 251--Continued		
Clay	42	380
Clay and shale	13	393
Gumbo	74	467
Sand	17	484
Sand and clay	22	506
Sand	102	608
Well 254		
City of Port Arthur, water well No. 1, 2.6 miles northeast of Nederland post office.		
(Altitude, 19 feet)		
Clay	14	14
Quicksand	13	27
Yellow sand	41	68
White fine-grained sand, water	27	95
Clay	83	178
Black fine-grained sand	14	192
Yellow clay	48	240
Gray medium-grained sand	43	283
Blue gumbo	77	360
White coarse-grained sand	14	374
Hard gumbo	68	442
Hard packsand	185	627
Hard shale	2	629
Well 255		
City of Port Arthur, water well No. 2, 2.8 miles northeast of Nederland post office.		
(Altitude, 21 feet)		
Clay	14	14
Quicksand	17	31
Yellow clay	44	75
White coarse-grained sand, water	27	102
Gumbo	83	185
Blue fine-grained sand	33	218
Blue gumbo	38	256
Gray medium-grained sand	46	302
Blue gumbo	18	320
White medium-grained sand	32	352
Hard gumbo	91	443
Gray fine-grained sand	34	477
Blue gumbo	19	496
Gray medium-grained sand	80	576
Sand and gravel	80	656
Rock	1	657
Well 256		
City of Port Arthur, water well No. 3, 2.8 miles northeast of Nederland post office.		
(Altitude, 19 feet)		
Top soil	12	12
Quicksand	18	30
Blue gumbo	48	78
Blue fine-grained sand	30	108
Coarse-grained sand	51	159
Yellow clay	37	196
Blue fine-grained sand	58	254
Blue gumbo	59	313
Fine-grained sand	33	346
Heavy white sand	30	376
Hard blue gumbo	90	466
Blue fine-grained sand	20	486
Medium-grained sand and gravel	196	682
Well 257		
City of Port Arthur, water well No. 4, 2.7 miles northeast of Nederland post office.		
(Altitude, 19 feet)		
Soil	3	3
Clay	80	83
Sand and white coarse-grained salt	58	141
Soft blue shale	189	330
Gray coarse-grained sand	55	385
Soft blue gumbo	115	500
Sand with layers of gravel	137	637
Coarse gravel	7	644
Well 263		
Atlantic Refining Co., 7.1 miles northeast of Port Arthur post office.		
(Altitude, 9 feet)		
Yellow clay	18	18

(Continued on next page)

Drillers' Logs of wells in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
Well 263--Continued		
Sand	12	30
Yellow clay	23	53
Soft gumbo	44	97
Hard gumbo	20	117
Sand	34	151
Blue gumbo	12	163
Sand	4	167
Gumbo	47	214
Sand	4	218
Gumbo and shale	264	482
Sand	30	512
Gumbo	40	552
Sand	38	590
Gravel	6	596
Blue shale	111	707
Sandy shale	23	730
Sand	26	756
Gravel	66	822
Well 264		
Atlantic Refining Co., 6.9 miles northeast of Port Arthur post office. (Altitude, 9 feet)		
Clay	18	18
Sandy clay	8	26
Clay	45	71
Shale	15	86
Streaks of sand and shale	12	98
Shale	6	104
Sand, water	37	141
Shale	36	177
Sand	18	195
Shale	15	210
Sand	10	220
Gumbo	34	254
Sticky shale	39	293
Shale and sand streaks	15	308
Sand and shale	13	321
Tough sticky shale	11	332
Sand and shale	5	337
Sand	10	347
Tough shale	79	426
Sand	26	452
Shale	21	473
Layers of sand and shale	12	485
Sand	61	546
Shale	3	549

	Thickness (feet)	Depth (feet)
Well 265		
Atlantic Refining Co., water test No. 1, 6.9 miles northeast of Port Arthur post office. (Altitude, 9 feet)		
Surface soil	1	1
Clay	9	10
Clay with streaks of sand	51	61
Shale	18	79
Sand, small amount of water	19	98
Clay	4	102
Sand, water	40	142
Clay	33	175
Sand	18	193
Shale	20	213
Sand	7	220
Gumbo	26	246
Shale	5	251
Gumbo	12	263
Shale and streaks of gumbo	50	313
Sand	11	324
Gumbo	3	327
Sand	12	339
Gumbo	17	356
Sand	2	358
Shale	65	423
Sand	28	451
Gumbo	15	466
Sand	82	548
Gumbo	52	600
Sandy lime	10	610
Gumbo and streaks of sandy lime	18	628
Shale	46	674
Gumbo	24	698
Sand, water	130	828
Gumbo	25	853
Sand	207	1060
Gumbo	47	1107
Shale	220	1327
Sand	60	1387
Gumbo	18	1405
Sticky shale	20	1425
Sand	42	1467
Sticky shale	4	1471

Drillers' Logs of wells in Jefferson County--Continued

Well 270

The Texas Co., water well No. 12, 1.8 miles northwest of Port Arthur post office.

(Altitude, 3 feet)

	Thickness (feet)	Depth (feet)
Gumbo and sand	30	30
Clay	105	135
Sand, water	10	145
Gumbo	35	180
Sand	20	200
Gumbo	10	210
Blue fine-grained sand	44	254
Gumbo	43	297
Gray fine-grained sand	38	335
Gumbo	50	385
Hard fine-grained sand	8	393
Gumbo	29	422
Blue fine-grained sand	18	440
Gumbo	70	510
Blue sand	20	530
Gumbo	50	580
Shale	70	650
Gumbo	20	670
Hard gumbo	138	808
Shale	42	850
Coarse-grained sand and pebbles, water	65	915
Fine-grained sand	9	924
Gumbo	27	951
Hard shale	274	1225
Blue packsand	8	1233
Shale	43	1276
Hard blue packsand	64	1340
Gumbo	10	1350
Shale	210	1560
Gumbo	3	1563

Well 271

The Texas Co., water well No. 13, 1.8 miles northwest of Port Arthur post office.

(Altitude, 3 feet)

	Thickness (feet)	Depth (feet)
Surface clay	20	20
Sand	10	30
Clay and sand	148	178
Sand and shale	113	291
Gumbo	18	309
Sandy shale and boulders	131	440

Well 271--Continued

	Thickness (feet)	Depth (feet)
Hard shale	50	490
Gumbo	10	500
Sand	36	536
Gumbo	30	566
Sand and boulders	59	625
Sand rock	22	647
Gumbo	23	670
Sand	14	684
Gumbo	16	700
Sandy shale	15	715
Gumbo	88	803
Fine-grained sand	37	840
Coarse gravel	10	850
Coarse-grained sand	10	860
Fine-grained sand	48	908

Well 272

The Texas Co., water well No. 14, 1.9 miles northwest of Port Arthur post office.

(Altitude, 3 feet)

	Thickness (feet)	Depth (feet)
Clay	20	20
Sand	10	30
Clay	88	118
Sand and clay	130	248
Gumbo	20	268
Shale	32	300
Shale and shells	60	360
Sand and boulders	47	407
Shale, layers of sand and boulders	148	555
Shale	35	590
Sand and boulders	67	657
Gumbo	10	667
Sand and boulders	37	704
Gumbo	16	720
Sand and boulders	40	760
Gumbo	30	790
Hard sand	38	828
Hard fine-grained sand	22	850
Coarse-grained sand, water	14	864
Medium-grained sand, water	49	913
Fine-grained sand, water	14	927
Gumbo	2	929

Drillers' Logs of wells in Jefferson County--Continued

Well 273

The Texas Co., water well No. 15, 1.9 miles northwest of Port Arthur post office.

(Altitude, 3 feet)

	Thickness (feet)	Depth (feet)
Blue clay	30	30
Sand	40	70
Sandy clay	40	110
Shells	25	135
Sandy shale	125	260
Gumbo	18	278
Sandy shale	22	300
Gumbo	10	310
Sandy shale and boulders	47	357
Sandy shale	118	475
Gumbo	30	505
Shale	15	520
Sand and boulders	120	640
Gumbo	30	670
Hard sand	31	701
Gumbo	79	780
Hard sand	46	826
Hard fine-grained sand	20	846
Sand, water	74	920

Well 274

The Texas Co., water well No. 16, 1.9 miles northwest of Port Arthur post office.

(Altitude, 3 feet)

	Thickness (feet)	Depth (feet)
Surface clay	54	54
Shells	22	76
Shale	41	117
Gumbo	90	207
Shale	178	385
Gumbo	30	415
Sandy shale	15	430
Gumbo	138	568
Shale	81	649
Gumbo	26	675
Shale	25	700
Gumbo	35	735
Shale	19	754
Gumbo	21	775
Sandy shale	67	842
Medium and coarse-grained sand, water	80	922
Gumbo	2	924

Well 275

Southern Acid & Sulphur Co., 1.8 miles northwest of Port Arthur post office.

(Altitude, 4 feet)

	Thickness (feet)	Depth (feet)
Old well; no formational record		756
Blue gumbo and shale	84	840
Blue sand and shale rock	15	855
Sand and gravel	80	935

Well 277

Gulf States Utilities Co., 0.5 mile south of Port Arthur post office.

(Altitude, 4 feet)

	Thickness (feet)	Depth (feet)
Surface	3	3
Sandy clay	102	105
Coarse-grained sand, water	20	125
Clay	6	131
Sand	5	136
Clay	10	146
Sand	9	155
Clay	5	160
Soft sandy clay	5	165
Clay	58	223
Sand and shale	22	245
Sandy shale and shell	36	281
Sand	12	293
Clay	45	338
Sand	20	358
Shale	17	375
Sand	33	408
Clay and sand	11	419
Sand	9	428
Clay	12	440
Sand	30	470
Clay	32	502
Sand	49	551
Wood	4	555
Sand	16	571
Clay	109	680
Sand	5	685
Clay	10	695
Sand	5	700
Shale	10	710
Sand	38	748
Shale	5	753
Sand	16	769

(Continued on next page)

Drillers' Logs of wells in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
Well 277--Continued		
Shale	41	810
Sand	82	892
Shale	4	896
Coarse-grained sand and gravel, water	47	943
Shale	10	953
Well 278		
Gulf States Utilities Co., 0.5 mile south of Port Arthur post office. (Altitude, 4 feet)		
No record (24-inch pump pit)	112	112
Clay	5	117
Sand	8	125
Clay	4	129
Sand	15	144
Clay	10	154
Sand	29	183
Clay	31	214
Coarse-grained sand	36	250
Shale	124	374
Sand	36	410
Shale	80	490
Sand	52	542
Shale	51	593
Sand	10	603
Shale	97	700
Sand	14	714
Shale	32	746
Sand	15	761
Shale	16	777
Sand, water	104	881
Well 280		
Gulf Refining Co., water well No. 5, 2.2 miles southwest of Port Arthur post office. (Altitude, 3 feet)		
Clay	150	150
Sand	30	180
Gumbo	36	216
Sand	14	230
Gumbo	110	340
Sand and thin layers of lignite	110	450
Gumbo	64	514
Hard sand	44	558
Gumbo	30	588
Sand	102	690
Gumbo	110	800
Shale	80	880
Coarse-grained sand, water	64	944
Gumbo	2	946
Well 284		
Gulf Refining Co., water well No. 9, 2.1 miles southwest of Port Arthur post office. (Altitude, 3 feet)		
Blue and yellow clay	95	95
Shells	21	116
Shale	42	158
Gumbo	65	223
Sand and shale	143	366
Hard sand	102	468
Gumbo	68	536
Shale	18	554
Gumbo	46	600
Shale	80	680
Gumbo	100	780
Shale	45	825
Sand and shale	55	880
Sand, water	82	962
Gumbo	3	965
Well 287		
Houston Oil Co., 1.6 miles southeast of Sabine Pass post office. (Altitude, 5 feet)		
Black mud and sand	60	60
Sand, salt water, no flow	115	175
Clay	277	452
Sand; flows 7 gallons a minute of salt water	46	498
Clay and shell mixed	533	1031
Shell	4	1035
Sand; flows salt water	30	1065
Well 289		
-- Stribling, 4.4 miles southwest of Sabine Pass post office. (Altitude, 3 feet)		
Red clay	16	16
Red sand	4	20
Red clay	40	60

(Continued on next page)

Drillers' Logs of wells in Jefferson County--Continued

Well 289--Continued

	Thickness (feet)	Depth (feet)
White sand	20	80
Red clay	60	140
Coarse-grained sand	30	170
Blue clay	15	185
White sand	35	220
Soft blue clay	16	236
White fine-grained sand	14	250
Hard blue clay	10	260
White sand	10	270
Blue clay	85	355
White sand	71	426
Blue clay	16	442
Interbedded sand and clay	58	500
White sand	100	600
White sand with gravel at bottom	36	636
Blue clay with streaks of sand	104	740
Sand	24	764
Sand and coarse gravel	31	795
Hard sandstone	1	796
Blue shale	58	854
Hard sandstone	1.5	855.5
Blue shale	36.5	892
Sandstone	1	893
White fine-grained sand	67	960
Soft blue clay	40	1000
White fine-grained sand	260	1260
Blue and white shale	10	1270
White fine-grain d sand	90	1360
White and blue clay	90	1450
White sand	40	1490
White and blue shale	10	1500

Well 292

W. O. Fawvor, Works Projects Administration test hole, 3.1 miles southwest of Sabine Pass post office.
(Altitude, 8 feet)

Reddish-brown surface sand	1	1
Brown fine-grained sand	6	7
Brown sand and small shell fragments	2	8
Brown silty fine-grained sand and shell fragments	2	10

Well 292--Continued

	Thickness (feet)	Depth (feet)
Gray fine-grained sand and shell fragments	5	15
Blue sandy silt	1	16
Gray sandy silt and small shell fragments	4	20
Dark-gray sticky clay	11	31
Small grey hard packed shell	1	32
Dark-gray sticky clay and pieces of rock	1	33
Hard yellow clay	6	39
Yellow wet clay	2	41
Hard yellow clay	1	42
Hard brown joint clay	6	48
Hard dark-brown clay	5	53
Dark-blue sticky clay	3	56
Blue sandy clay	1	57
Soft blue clay and shell	1	58
Soft blue clay	5	63
Dark-gray sandy clay and shell	2	65
Dark-blue sticky clay	6	71
Small gray shells	1	72
Shells, some 4 inches in diameter	1	73
Dark-gray sticky clay	5	78
Hard light-brown clay	2	80
Dark-gray clay and medium sized shells	1	81
Hard brown clay	1	82
Light-brown clay	3	85
Hard dark-brown clay	3	88
Hard light-gray limey bedded shale	3	91
Black clay and lignite	1	92
Tough light-blue sticky clay	8	100
Hard light-blue clay	1	101
Blue sandy clay	2	103
Impervious hard blue clay	1	104
Dark-gray sand	1	105
Compact hard brown clay	1	106
Light-grey fine-grained sand	2	108
Gray sandy clay and small shell	4	112
Hard dark-gray clay	3	115
Gray sandy clay	3	118

(Continued on next page)

Drillers' Logs of wells in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
Well 292--Continued		
Hard dark impervious clay	5	123
Light-gray sandy clay and some caliche	2	125
Light-gray and yellow clay with shell and caliche	2	127
Yellow clay and shell fragments	1	128
Yellowish gray silty sand	1	129
Gray clay with hard pieces of shell and caliche	3	132
Hard light-blue clay with shell and caliche	3	135

Logs of test holes bored by W. P. A. labor
in Jefferson County, Texas

	Thickness (feet)	Depth (feet)
301		
Side of county road, 4.7 miles northwest of China.		
Dark-colored silty clay	3	3
Yellowish-gray clay	4	7
Light-brown and gray clay	6	13
Brownish-gray clay with some lime nodules	1	14
Reddish-brown clay	5	19
Struck water at 16 feet. Water level, 5.2 feet below land surface, 45 minutes after hole completed. March 13, 1941.		
302		
Side of county road, 4.9 miles west of China.		
Dark-colored surface clay	1	1
Yellow clay	4	5
Brown and gray clay	2	7
Reddish-brown clay	1	8
Chocolate-colored clay	3	11
Struck water at 17 feet. Water level, 4 feet below land surface, 3 hours after hole completed. March 13, 1941.		
303		
Side of county road, 6.6 miles southwest of China.		
Black surface soil	2	2
Gray clay	3	5
Yellow clay	10	15
Yellow sand	3	18
Yellow clay	2	20
Brown sand	1	21
Water level, 1.1 feet below land surface, 4 hours after hole completed. March 28, 1941.		
304		
Side of county road, 7.0 miles south of China.		
Dark-gray clay	5	5
Yellow and gray clay	8	13
Brown sandy clay	1	14

	Thickness (feet)	Depth (feet)
304--Continued		
Gray sand	2	16
Struck water at 15 feet. Water level, 3 feet below land surface, 2 hours after hole completed. March 28, 1941.		
305		
Side of county road, 7.6 miles southwest of Voth.		
Black surface soil	2	2
Dark-gray and yellow clay	4	6
Grayish-yellow clay	5	11
Reddish-gray clay	4	15
Light-gray sandy clay	1	16
Struck water at 16 feet. Water level, 2 feet below land surface, 2 hours after hole completed. March 14, 1941		
306		
Side of county road, 7.6 miles southwest of Voth.		
Black surface soil	5	5
Yellowish-gray clay	3	8
Reddish-gray clay	9	17
Light-gray clay	1	18
Struck water at 18 feet. Water level, 5 feet below land surface, 2 hours after hole completed. March 14, 1941		
307		
Side of State Highway 105, 4.4 miles southwest of Voth.		
Surface soil and silty clay	3	3
Yellow clay with lime pebbles	4	7
Yellowish-brown clay and lime pebbles	2	9
Reddish-brown clay	5	14
Struck water at 10 feet. Water level, 4 feet below land surface, 2 hours after hole completed. March 10, 1941.		

Logs of test holes bored by W. P. A. labor in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
308		
Side of State Highway 105, 5.2 miles southwest of Voth.		
Silty surface clay	1	1
Reddish-brown clay with some sand	3	4
Gray clay	2	6
Brown and gray clay with some sand	1	7
Yellow and gray clay with lignite	8	15
Brownish-clay with pebbles of soft limestone	2	17
Brownish-colored clay	8	25
Yellow sandy clay	1	26
Yellow sand	1	27
Struck water at 27 feet. Water level, 17 feet below land surface, 3 hours after hole completed. March 11, 1941.		
309		
Side of logging road, 1 mile north of State Highway 105 and 5.4 miles southwest of Voth.		
Surface sand	2	2
Red and gray clay with some sand	3	5
Brown and gray clay with some sand	1	6
Yellow and gray sandy clay	7	13
Light-brown sandy clay	11	24
Light-brown and gray sandy clay	2	26
Red and brown sand	3	29
Gray and pink sandy clay	3	32
Struck water at 32 feet. Water level, 29.8 feet below land surface, 30 minutes after hole completed. March 11, 1941.		
310		
Side of logging road, 1.4 miles northwest of Voth.		
Red and brown sandy clay	1	1
Red sandy clay	1	2
Reddish-brown sandy clay	1	3
Brown sandy clay	1	4
Light-brown sand	4	8
310--Continued		
Water level 5.3 feet below land surface, 30 minutes after hole completed.		
311		
Side of county road, 1.1 miles southeast of Voth.		
Gray and brownish-colored sand	1	1
Gray and brownish-colored clay	2	3
Yellowish-gray clay	1	4
Yellowish-gray sandy clay	2	6
Light-gray sand	2	8
Yellowish-gray sand	2	10
Brownish-grey sandy clay	2	12
March 12, 1941.		
312		
Side of county road, 2.0 miles southeast of Voth.		
Brown clay	1	1
Reddish-brown clay	2	3
Yellowish-gray clay	3	6
Reddish-brown clay	3	9
Brownish-gray clay	13	22
Struck water at 9 feet. Water level, 4.7 feet below land surface, 2 hours after hole completed. March 21, 1941.		
313		
Side of county road, 2.6 miles south of Voth.		
Reddish-brown clay	3	3
Yellowish-gray clay	3	6
Greenish-yellow clay	1	7
Light-brown clay	1	8
Brown and gray sandy clay	1	9
Light-gray sand	2	11
Struck water at 10 feet. Water level, 1 foot below land surface, 3 hours after hole completed. March 21, 1941.		

Logs of test holes bored by W. P. A. labor in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
314		
Side of county road, 8.4 miles southwest of Beaumont.		
Black surface	4	4
Gray clay	3	7
Brown clay	3	10
Light-brown clay	3	13
Reddish-brown clay	4	17
Light-gray clay	5	22
Brown clay	3	25
Struck water at 5 feet. Water level, 3.2 feet below land surface, 3 hours after hole completed. April 7, 1941.		
315		
Side of county road, 7.5 miles southwest of Beaumont.		
Black surface soil	3	3
Gray clay	2	5
Yellow clay	6	11
Struck water at 9 feet. Water level, 2.3 feet below land surface, 3 hours after hole completed. April 7, 1941.		
316		
Side of County road, 5.9 miles southwest of Beaumont.		
Black surface soil	4	4
Greenish-yellow clay	3	7
Reddish-gray clay	9	16
Gray clay	1	17
Gray sandy clay	2	19
Struck water at 11 feet. Water level, 2.3 feet below land surface, 2 hours after hole completed. March 24, 1941.		
317		
Side of county road, 5.1 miles southwest of Beaumont.		
Black surface soil	3	3
Yellowish-gray clay	3	6
Brown clay	2	8
Yellowish-gray clay	2	10
Yellowish-gray sandy clay	2	12
Struck water at 11 feet. Water level, 1.8 feet below land surface, 2 hours after hole completed. March 24, 1941.		
318		
Side of county road, 4.0 miles southwest of Beaumont.		
Yellow clay	5	5
Brown and gray clay	6	11
Light-gray sandy clay	6	17
Struck water at 7 feet. Water level, 4.8 feet below land surface, 3 hours after hole completed. April 3, 1941.		
319		
Side of county road, 3.3 miles southwest of Beaumont.		
Surface soil	2	2
Yellow clay	2	4
Brown and gray clay	6	10
Gray clay	3	13
Light-gray sandy clay	2	15
Struck water at 13 feet. Water level, 1.6 feet below land surface, 3 hours after hole completed. April 3, 1941.		
320		
Side of county road, 5.7 miles south of Beaumont.		
Black surface soil	3	3
Greenish-yellow clay	1	4
Brown clay	3	7
Brown sandy clay	1	8
Red sand	3	11
Struck water at 11 feet. Water level, 1.5 feet below land surface, 2 hours after hole completed. March 26, 1941.		
321		
Side of county road, 6.1 miles south of Beaumont.		
Black surface soil	2	2
Grayish-yellow clay	3	5
Gray clay	5	10
Reddish-brown sandy clay	3	13
Struck water at 11 feet. Water level, 6 feet below land surface, 3 hours after hole completed. March 26, 1941.		

Logs of test holes bored by W. P. A. labor in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
322		
Side of county road, 8.9 miles southwest of Beaumont.		
Surface soil	1	1
Brown clay	1	2
Yellow sandy clay	4	6
Red and grey clay	6	12
Struck water at 12 feet. Water level, 3.5 feet below land surface, 2 hours after hole completed. April 1, 1941.		
323		
Side of county road, 7.9 miles southwest of Beaumont.		
Surface soil	4	4
Dark-red clay	1	5
Red and gray clay	1	6
Brown and gray clay	8	14
Struck water at 11 feet. Water level, 3.5 feet below land surface, 3 hours after hole completed. April 1, 1941.		
324		
Side of county road, 7.2 miles southwest of Beaumont.		
Surface soil	2	2
Yellow clay	2	4
Brown clay	3	7
Yellow clay	3	10
Brown sandy clay	6	16
Brown clay	7	23
Struck water at 13 feet. Water level, 7 feet below land surface. 2 hours after hole completed. April 1, 1941.		
325		
Side of State Highway 124, 3.2 miles northeast of Fannett.		
Surface soil	2	2
Yellowish-gray clay	4	6
Brownish-gray clay	2	8
Gray sandy clay	2	10
Brown sand with some gray clay	5	15
Brown sand	4	19
Struck water at 12 feet. Water level, 6.5 feet below land surface, 2 hours after hole completed. April 2, 1941.		
326		
Side of State Highway 124, 2.0 miles northeast of Fannett.		
Surface soil	2	2
Dark-gray clay	3	5
Yellowish-gray clay	6	11
Gray clay	11	22
Struck water at 6 feet. Water level, 2.6 feet below land surface, 2 hours after hole completed. April 2, 1941		
327		
Side of State Highway 124, 1.1 miles southwest of Fannett.		
Black surface soil	1	1
Gray clay	4	5
Yellowish-gray clay	1	6
Yellow clay	2	8
Gray sandy clay	1	9
Yellow sand	1	10
Gray sand	1	11
Struck water at 10 feet. Water level, 1 foot below land surface, 3 hours after hole completed. March 27, 1941.		
328		
Side of State Highway 124, 2.1 miles southwest of Fannett.		
Black surface soil	1	1
Dark-gray clay	1	2
Brownish-gray clay	2	4
Light-gray clay	5	9
Struck water at 9 feet. Water level, 4.3 feet below land surface, 2 hours after hole completed. March 27, 1941.		
329		
Side of State Highway 124, 3.3 miles southwest of Fannett.		
Sandy surface soil	1	1
Brown sand	4	5
Gray sand	4	9
Struck water at 3 feet. Water level, .5 foot below land surface, 2 hours after hole completed. March 27, 1941		

Logs of test holes bored by W. P. A. labor in Jefferson County--Continued

330

Side of State Highway 124, 1.5 miles n northeast of Hamshire.

	Thickness (feet)	Depth (feet)
Surface soil	3	3
Light-gray clay	2	5
Yellow clay	5	10
Yellow and gray sandy clay	1	11
Gray sand	2	13
Brown sand	1	14

Struck water at 7 feet. Water level, 1.4 feet below land surface, 2 hours after hole completed. March 27, 1941.

331

Side of State Highway 124, 0.6 mile northeast of Hamshire.

	Thickness (feet)	Depth (feet)
Gray sandy soil	2	2
Grayish-yellow clay	6	8
Gray and brown clay	2	10
Gray sand	1	11

Struck water at 11 feet. Water level, 2.5 feet below land surface, 3 hours after hole completed. March 31, 1941.

332

Side of State Highway 124, 0.4 mile southwest of Hamshire.

	Thickness (feet)	Depth (feet)
Surface soil	3	3
Gray and brown clay	3	6
Gray sandy clay	4	10
Gray sand	3	13

Struck water at 10 feet. Water level, 3 feet below land surface, 4 hours after hole completed. March 31, 1941.

333

Side of State Highway 124, 1.3 miles southwest of Hamshire.

	Thickness (feet)	Depth (feet)
Black surface soil	4	4
Grayish-yellow clay	1	5
Yellow clay	5	10
Yellow sandy clay	1	11
Yellow sand	1	12

Struck water at 7 feet. Water level, 2.8 feet below land surface, 2 hours after hole completed. March 31, 1941.

334

Side of State Highway 124, 2.3 miles southwest of Hamshire.

	Thickness (feet)	Depth (feet)
Gray surface soil	2	2
Gray and light-yellow clay	1	3
Yellow clay	3	6
Brownish-colored clay	2	8
Gray sandy clay	1	9
Gray sand	3	12

Struck water at 11 feet. Water level, 2.8 feet below land surface, 2 hours after hole completed. March 31, 1941.

335

Side of State Highway 124, 3.6 miles southwest of Hamshire.

	Thickness (feet)	Depth (feet)
Surface soil	2	2
Reddish-brown clay	1	3
Gray sandy clay	1	4
Brown sandy clay	3	7
Gray clay	3	10
Brown and gray clay	5	15
Gray sandy clay	1	16

Struck water at 4 feet. Water level, 3 feet below land surface, 3 hours after hole completed. April 10, 1941.

336

Side of county road, 3.2 miles southwest of Hamshire.

	Thickness (feet)	Depth (feet)
Reddish-gray clay	3	3
Yellow and gray clay	6	9
Gray sandy clay	3	12
Brownish-gray clay	14	26
Brown and gray sand	3	29

Struck water at 10 feet. Water level, 4.8 feet below land surface, 3 hours after hole completed. April 10, 1941.

337

Side of county road, 0.5 mile north of Labelle.

	Thickness (feet)	Depth (feet)
Greenish-yellow clay	5	5
Brownish-gray clay	4	9
Gray sand	2	11

Struck water at 10 feet. Water level, .5 feet below land surface, 3 hours after hole completed. March 22, 1941.

Logs of test holes bored by W. P. A. labor in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
338		
Side of county road, 1.4 miles north of Labelle.		
Dark-colored surface soil	3	3
Yellow clay	4	7
Brown clay	3	10
Gray clay	3	13
Struck water at 10 feet. Water level, 10 feet below top of ground, 2 hours after hole completed. March 22, 1941.		
339		
Side of county road, 3.2 miles northeast of Labelle.		
Dark-gray surface soil	1	1
Red and gray clay	4	5
Light-brown sandy clay	4	9
Struck water at [illegible] feet. March 25, 1941.		
340		
Side of county road, 4.5 miles north of Labelle.		
Black surface soil	2	2
Dark-yellow clay	3	5
Brown sandy clay	7	12
Brownish-yellow clay	5	17
Struck water at 10 feet. Water level, 3.5 feet below land surface, 2 hours after hole completed. April 1, 1941.		
341		
Side of county road, 6.9 miles northeast of Labelle.		
Black surface soil	2	2
Yellowish-gray clay	3	5
Brown and gray clay	1	6
Red sandy clay	4	10
Struck water at 10 feet. Water level, 1.7 feet below land surface, 2 hours after hole completed. March 26, 1941.		
342		
Side of county road, 7.6 miles northeast of Labelle.		
Black surface soil	1	1
Dark-gray clay	1	2
Yellow and gray clay	2	4
Gray and brown clay	6	10
Light-brown sandy clay	1	11
Struck water at 10 feet. Water level, 1.5 feet below land surface, 2 hours after hole completed. March 26, 1941.		
343		
Side of U. S. Highway 287, 4.4 miles northwest of Nederland.		
Brownish-gray clay	11	11
Brown sand with some clay	3	14
Struck water at 11 feet. Water level, 2.5 feet below land surface, 3 hours after hole completed. April 15, 1941.		
344		
Side of U. S. Highway 287, 3.5 miles northwest of Nederland.		
Brownish-gray clay	5	5
Chocolate-colored clay	6	11
Gray clay	5	16
Brown sand	2	18
Struck water at 7 feet. Water level, 2 feet below land surface, 3 hours after hole completed. April 15, 1941.		
345		
Side of U. S. Highway 287, 2.6 miles northwest of Nederland.		
Surface soil	2	2
Yellowish-gray clay	6	8
Reddish-gray sandy clay	2	10
Reddish-gray clay	5	15
Gray sandy clay	2	17
Struck water at 10 feet. Water level, 1.2 feet below land surface, 2 hours after hole completed. April 14, 1941.		
346		
Side of U. S. Highway 287, 1.9 miles west of Nederland.		
Surface soil	2	2
Yellowish-gray clay	5	7
Reddish-gray clay	5	12
Gray clay	2	14
Gray sandy clay	1	15
Struck water at 13 feet. Water level, 1.5 feet below land surface, 2 hours after hole completed. April 14, 1941.		

Logs of test holes bored by W. P. A. labor in Jefferson County--Continued

	Thickness (feet)	Depth (feet)

347

Side of county road, 2.7 miles southwest of Nederland.

Surface soil	2	2
Yellowish-gray clay	4	6
Brown and gray clay	4	10
Gray clay	3	13
Brown and gray sand with some clay	2	15

Struck water at 8 feet. Water level, 2.3 feet below land surface, 3 hours after hole completed. April 15, 1941.

348

Side of county road, 2.9 miles southwest of Nederland.

Gray clay	4	4
Brown clay	4	8
Blue and gray clay	4	12
Brown sand with some clay	3	15
Brown sand	1	16

Struck water at 14 feet. Water level, 3.8 feet below land surface, 2 hours after hole completed. April 15, 1941.

349

Side of U. S. Highway 287, 1.8 miles southwest of Nederland.

Surface soil	3	3
Yellow and gray clay	6	9
Gray clay	3	12
Gray sandy clay	1	13

Struck water at 13 feet. Water level, 2.5 feet below land surface, 2 hours after hole completed. April 14, 1941.

350

Side of U. S. Highway 287, 2.2 miles south of Nederland.

Surface soil	3	3
Yellow clay	3	6
Brown and gray clay	6	12
Gray sandy clay	3	15
Brown sand	3	18

Struck water at 10 feet. Water level, 2.4 feet below land surface, 2 hours after hole completed. April 14, 1941.

351

Side of county road, 2.6 miles southwest of Nederland.

Surface soil	3	3
Brown clay	5	8
Gray sandy clay	2	10
Brown sandy clay	5	15
Brown sand	2	17

Struck water at 10 feet. Water level, 6 feet below land surface, 3 hours after hole completed. April 8, 1941.

352

Side of county road, 3.5 miles southwest of Nederland.

Black surface soil	2	2
Yellow and gray clay	5	7
Brown sandy clay	3	10
Brown sand	2	12
Brown sandy clay	2	14

Struck water at 10 feet. Water level, 1.5 feet below land surface, 2 hours after hole completed. April 8, 1941.

353

Side of county road, 4.1 miles southwest of Nederland.

Surface soil	3	3
Brown clay	3	6
Yellow clay	5	11

Struck water at 10 feet. Water level, 1.3 feet below land surface, 2 hours after hole completed. April 8, 1941.

354

Side of county road, 4.9 miles southwest of Nederland.

Black surface soil	2	2
Greenish-yellow clay	8	10
Brown clay	2	12

Water level, 2.1 feet below land surface, 5 hours after hole completed. March 25, 1941.

355

Side of county road, 5.5 miles southwest of Nederland.

Red and gray clay	5	5
Pink and gray clay	3	8

(Continued on next page)

Logs of test holes bored by W. P. A. labor in Jefferson County--Continued

	Thickness (feet)	Depth (feet)
355--Continued		
Light-brown sand	3	11
Light-brown sandy clay	1	12
Gray clay	2	14
Light-brown sand	6	20
Struck water at 6 feet. Water level, 1.5 feet below land surface, 2 hours after hole completed. March 25, 1941.		
356		
Side of county road, 6.9 miles southwest of Nederland.		
Black surface soil	1	1
Dark-gray clay	3	4
Yellowish-gray clay	3	7
Light-gray clay	3	10
Light-brown sand	2	12
Struck water at 11 feet. Water level, 3.6 feet below land surface, 1 hour after hole completed. March 25, 1941.		
357		
Side of State Highway 87, 4.9 miles northwest of Sabine Pass.		
Brown sand	3	3
Black sandy clay	2	5
Gray sandy clay	1	6
Gray sand and shell	3	9
Black sand with some clay	10	19
Struck water at 5 feet. Water level, 3 feet below land surface, 3 hours after hole completed. April 9, 1941.		
358		
Side of State Highway 87, 3.2 miles northwest of Sabine Pass.		
Black surface soil	3	3
Black sandy clay	2	5
Dark-gray sand	10	15
Struck water at 10 feet. Water level, 2.5 feet below land surface, 3 hours after hole completed. April 9, 1941.		
359		
Side of county road, 2.6 miles west of Sabine Pass.		
Sandy surface soil	1	1
Brown sand	2	3
Brown sand and shell	2	5
359--Continued		
Struck water at 4 feet. Water level, 1.5 feet below land surface, 3 hours after hole completed. April 9, 1941.		
360		
Side of county road, 2.8 miles west of Sabine Pass.		
Sandy surface soil	1	1
Brown sand	2	3
Brown sand and shell	3	6
Brown and green sand with some shell	7	13
Struck water at 4 feet. Water level, 2.4 feet below land surface, 2 hours after hole completed. April 9, 1941.		
361		
Side of State Highway 87, 5.9 miles southwest of Sabine Pass.		
Brown sand and shell	1	1
Sand	3	4
Sand and blue clay	1	5
Blue clay	1	6
Water level, 2.3 feet below land surface, 1 hour after hole completed. March 8, 1941.		
362		
Side of State Highway 87, 5.4 miles southwest of Sabine Pass.		
Soil	3	3
Shell and sand	6	9
Sand, blue clay and shell	1	10
Blue clay and shell	2	12
Water level, 3.8 feet below land surface, 1 hour after hole completed. March 8, 1941.		
363		
Side of State Highway 87, 4.9 miles southwest of Sabine Pass.		
Sandy soil	1	1
Sandy clay	2	3
Sand and clay	1	4
Yellowish-brown sand and shell	1	5
Brown sand and shell	4	9
Water level, 3.1 feet below land surface, 1 hour after hole completed. March 8, 1941.		

Logs of test holes bored by W. P. A. labor in Jefferson County--Continued

	Thickness (feet)	Depth (feet)

364

Side of State Highway 87, 4.4 miles southwest of Sabine Pass.

Dark-colored sandy soil	1	1
Light-colored sandy soil	1	2
Dark-brown sand	1	3
Brown sand	1	4
Light-brown sand	2	6
Brown sand and shell fragments	1	7

Water level, 4.2 feet below land surface, 2 hours after hole completed. March 8, 1941.

365

Side of State Highway 87, 3.9 miles southwest of Sabine Pass.

Brown sand with small fragments of marine shell	5	5

Water level, 2.6 feet below land surface, 3 hours after hole completed. March 8, 1941.

366

Side of State Highway 87, 3.5 miles southwest of Sabine Pass.

Sandy soil	2	2
Brown sand	7	9

Water level, 4.5 feet below land surface, 2 hours after hole completed. March 7, 1941.

367

Side of State Highway 87, 3.0 miles southwest of Sabine Pass.

Brown sandy soil	2	2
Brown sand and shell	4	6

Water level, 3.4 feet below land surface, 1 hour after hole completed. March 7, 1941.

368

Side of State Highway 87, 2.5 miles southwest of Sabine Pass.

Light-brown sand	4	4
Light-brown sand and marine shell	1	5

368--Continued

Water level, .8 foot below land surface, 2 hours after hole completed. March 7, 1941.

369

Side of State Highway 87, 2.0 miles southwest of Sabine Pass.

Black soil	1	1
Sandy soil	1	2
Brownish-yellow sand	3	5
Brown and green sand	1	6

Water level, 1.4 feet below land surface, 4 hours after hole completed. March 7, 1941.

370

Side of State Highway 87, 1.5 miles southwest of Sabine Pass.

Brown sand	2	2
Brown sand and marine shells	2	4
Brown and green sand with marine shells	5	9

Water level, 1.4 feet below land surface, 5 hours after hole completed. March 7, 1941.

371

Side of State Highway 87, 1.0 mile southwest of Sabine Pass.

Brown sand and clay	1	1
Brown sand with some marine shells	2	3
Brown sand and marine shell with layers of green sand	3	6

Water level, 1.5 feet below land surface, 5 hours after hole completed. March 7, 1941.

372

Side of State Highway 87, 0.5 mile southeast of Sabine Pass.

Black surface soil	1	1
Brown sand	2	3
Brown sand and marine shell	2	5

Water level, 2.2 feet below land surface, 5 hours after hole completed. March 7, 1941.

373

Side of State Highway 87, 3.1 miles southwest of Sabine Pass.

(See Driller's log 282, p. 0)

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
37	Hugh Long	30	Mar. 13, 1941	1,060	112	18	274	433	78	365	-	a/	356
39	Willis McDermott	20±	June 10, 1941	1,004	63	12	321	378	2	420	-	a/	207
40	Texas Public Service Co.	120	Mar. 28, 1941	1,911	179	27	521	354	66	942	.3	1.6	557
43	Cleveland Jeanise	19	do.	1,170	129	15	294	525	202	270	.4	1.5	384
44	J. E. Broussard	20	do.	918	92	20	236	262	29	410	-	2.0	312
45	R Blake Mackan	260	June 10, 1941	-	-	-	-	354	2	490	-	a/	-
46	Texas Public Service Co.	176	Mar. 13, 1941	802	31	6.3	285	397	2	280	-	3.0	104
47	do.	150±	Jan. 28, 1942	578	46	9.7	173	323	2	188	-	.5	156
48	Lawrence Leger	20	Mar. 28, 1941	857	67	14	254	451	50	250	-	a/	223
49	Texas Pipe Line Co.	255	Jan. 28, 1942	796	38	9.7	272	445	2	255	-	.5	136
50	J. N. Gilbert Est.	135	Aug. 27, 1941	873	57	6.3	285	390	3	330	-	a/	169
51	G. R. Bauer	150	Mar. 13, 1941	1,277	133	22	306	476	327	255	.2	a/	424
53	C. W. Howth	150±	Aug. 27, 1941	534	34	10	171	384	2	128	-	a/	126
54	Lohman Bros.	135±	do.	218	50	5.1	32	226	2	18	.4	a/	145
55	J. N. Gilbert Est.	150±	do.	877	62	11	272	439	31	285	.2	a/	202
56	do.	160	do.	795	57	5.1	259	470	5	238	-	a/	163
57	Dr. D. S. Wier	7	do.	364	97	5.1	25	153	23	94	-	45	263
58	Beal Garrett	18	Mar. 28, 1941	412	21	5.4	142	366	20	44	-	a/	74
59	J. W. Cooley	28	Mar. 24, 1941	418	49	14	49	61	36	117	-	103	228
60	J. H. Stagg	70	Apr. 3, 1941	406	74	11	75	415	14	28	-	a/	232
61	Broussard Trust	17	do.	746	154	16	115	470	25	205	-	a/	450
62	Roy Meagher	150±	June 10, 1941	2,720	124	22	914	281	2	1,525	.6	0	398
63	John F. Pipkin	120	Mar. 14, 1941	432	16	8.8	152	366	2	73	-	a/	75
64	Eula Dishman	100	do.	521	88	10	109	445	2	93	-	a/	261
66	C. E. Lowrey	21	Mar. 11, 1941	-	-	-	-	43	5	32	-	-	-
68	Geo. Tammen	68	Mar. 10, 1941	-	-	-	-	384	2	24	-	-	-
69	Joe Richardson	51	Mar. 11, 1941	531	21	5.1	190	336	2	148	-	a/	73
70	J. A. Nichols	14	Mar. 12, 1941	631	12	3.9	242	409	12	160	-	a/	47
71	Texas Public Service Co.	320	Mar. 11, 1941	393	2.4	2.7	160	348	2	54	.8	a/	17
72	Kirby Lumber Co.	315	do.	440	6.9	1.8	176	375	1	69	.7	0	25
73	do.	100	do.	509	6.0	1.5	203	336	2	130	-	1.0	21

Partial analyses of ground water in Jefferson County--Continued

Results are in parts per million

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
74	Kirby Lumber Co.	280	Mar. 11, 1941	398	4.4	2.7	160	348	2	58	-	a/	22
75	do.	600±	do.	1,072	6.0	1.5	429	451	2	410	1.5	0	21
76	H. K. Meeks	180	Mar. 6, 1941	384	6.4	2.7	151	311	2	68	.6	-	27
77	Chas. Noble	234	Mar. 13, 1941	487	13	2.4	188	403	2	84	-	a/	42
78	J. G. Bythewood	280	Mar. 15, 1941	441	2.0	1.5	181	354	2	80	-	a/	11
79	Roy Guess	137	do.	742	16	1.5	283	323	2	280	-	a/	46
80	Rosedale-Voth School	70	Mar. 14, 1941	194	42	3.9	31	201	3	15	.2	a/	122
81	H. Visser	63	Mar. 10, 1941	317	68	3.8	49	342	2	21	.2	a/	205
82	H S. Rutledge	14	do.	-	-	-	-	275	47	350	-	-	-
83	F. W. Hawley	68	Mar. 21, 1941	357	91	6.3	44	372	2	31	-	a/	254
84	Texas Public Service Co.	70	do.	363	92	7.5	44	378	2	31	-	a/	260
86	Mrs. J.J. Bonura	72	do.	169	42	2.7	21	146	3	28	-	a/	117
87	W. S. Crocker	69	Mar. 17, 1941	297	71	5.1	41	281	7	35	-	a/	198
89	S. P. Williams	199	do.	760	48	10	230	262	2	315	-	1.5	161
d/90	Beaumont Country Club	650	Nov. 15, 1907	1,118	24	14	404	321	10	470	-	-	-
90	do.	650	Mar. 28, 1941	1,136	26	1.5	428	342	2	510	.4	a/	71
91	do.	534	do.	1,916	61	14	677	305	3	1,010	.5	a/	208
92	Pine Grove Golf Course	140±	Jan. 29, 1942	910	122	40	161	433	172	202	-	0	470
93	Spence Charlton	9	do.	416	72	16	46	98	90	90	-	54	245
94	Frank Vaughn	68	Mar. 17, 1941	-	-	-	-	287	4	22	-	a/	-
95	E. H. Small Wood	67	Apr. 11, 1941	363	68	7.5	70	384	5	23	-	a/	200
96	Stanolind Oil & Gas Co.	33	Mar. 21, 1941	1,683	220	37	296	415	816	109	.5	a/	703
97	J. Kinsolving	157	Mar. 19, 1941	1,102	89	23	304	451	124	240	-	a/	319
99	W. P. McCormack	24	Mar. 14, 1941	359	100	10	27	305	4	68	0	a/	291
100	F. C. Gaily	65	June 10, 1941	426	91	9.5	69	445	4	33	-	a/	266
101	-- Young Est.	265±	do.	575	34	8.3	194	488	8	94	.3	a/	120
102	City of Beaumont	115	Mar. 20, 1941	359	88	10	42	354	3	42	.4	a/	261

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
103	C. Richards	17	Mar. 20, 1941	503	34	18	139	378	66	60	-	a/	161
104	Hank Wooten	129	do.	613	56	10	181	464	3	135	-	0	181
105	Long and Guinn	65	do.	512	70	10	127	506	8	48	-	a/	216
106	Amelia School Dist.	130	Mar. 13, 1941	488	94	16	80	439	5	77	.2	a/	300
107	H. F. Walton	234	Mar. 20, 1941	957	47	12	321	427	2	365	.1	0	168
108	Paul Acheson	80	Mar. 13, 1941	426	77	14	76	409	8	50	-	a/	248
109	Amelia School Dist.	79	Mar. 20, 1941	630	101	21	112	470	101	64	.2	a/	338
111	F. G. Fuqua	65	Mar. 19, 1941	135	23	5.1	19	37	29	41	-	a/	78
113	Crystal Ice Co.	240	Mar. 28, 1941	2,930	72	7.5	1,069	214	2	1,670	.5	a/	210
115	Cummer-Graham Co.	78	Mar. 13, 1941	634	52	18	166	311	93	152	-	a/	206
116	J. S. Rosheger	62	Apr. 3, 1941	604	59	12	162	403	66	107	-	a/	198
117	R. H. Barrett	115	Mar. 20, 1941	947	55	14	298	506	113	218	-	a/	193
118	R. J. Peveto	130	do.	884	72	15	244	390	156	202	-	2.8	239
119	P. H. Teal	20	Mar. 24, 1941	2,023	370	43	305	390	62	980	-	171	1,102
120	Henry Spears	21	do.	530	125	12	66	439	20	96	-	4.5	363
121	Fred Zoch	24	Apr. 1, 1941	727	148	16	109	378	43	225	-	a/	435
122	Tyrrell Trust	242	Mar. 24, 1941	966	65	22	247	159	323	230	.3	1.0	254
123	A. W. Geitsen	58	Apr. 1, 1941	1,158	69	15	363	488	113	358	-	a/	234
124	G. W. Downs	20	do.	635	76	17	138	299	124	132	-	0.5	261
125	M. Biehler	45	Mar. 24, 1941	518	105	14	82	470	25	61	-	a/	318
126	Magnolia Petroleum Co.	620	Sept. 23, 1941	4,510	64	30	1,659	286	2	2,590	.2	-	283
c/127	do.	600±	Dec. 2, 1939	4,300	75	24	1,400	317	-	2,180	-	-	288
129	Southern Acid & Sulphur Co.	641	Mar. 7, 1941	-	-	-	-	332	2	2,260	-	-	d/ 273
132	R. E. Masterson	22	Jan. 29, 1941	455	123	11	40	427	10	50	-	11	352
135	N. S. Whitman Est.	159	May 22, 1941	2,590	133	28	845	427	2	1,370	-	a/	447
136	do.	77	do.	2,200	143	41	659	415	23	1,130	.2	0	525
137	John W. Fish	60±	Jan. 29, 1942	574	92	26	97	476	40	75	-	1.0	336
138	N. S. Whitman Est.	45	May 22, 1941	516	52	13	142	482	12	60	-	a/	183
139	Jefferson Land Co.	110	Apr. 1, 1941	345	83	6.3	46	305	2	58	-	a/	233
140	Tony Tortoris	18	Aug. 22, 1941	319	74	7.5	40	244	18	59	-	a/	215
141	R. H. Hunter	18	Apr. 1, 1941	459	81	5.1	98	415	13	58	-	a/	223
142	L. D. Fontenot	33	do.	793	50	7.5	265	616	27	140	-	a/	155

Partial analyses of ground water in Jefferson County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
143	Avery Miques	25	Apr. 2, 1941	228	39	5.1	45	165	4	54	-	a/	118
144	Elmer Boyt	45	do.	534	80	10	117	427	51	66	-	a/	241
145	G. D. Clubb	15	Aug. 27, 1941	505	87	12	90	360	73	66	.2	a/	268
146	T. A. Clubb	14	do.	939	190	37	88	372	253	164	.2	24	628
147	J.N. Gilbert Est.	96	do.	1,225	40	10	437	409	2	535	-	a/	141
148	Ted Burdoff	159	May 21, 1941	2,405	92	14	834	299	3	1,315	-	a/	289
149	John Ainsworth	208	May 22, 1941	2,059	89	17	702	415	2	1,045	-	a/	290
150	Mrs. Ila Boyt	18	Mar. 27, 1941	289	21	6.3	87	195	8	71	-	a/	79
152	T.G. & D. Korry	15	Mar. 22, 1941	640	104	8.8	117	165	27	235	-	67	295
153	J. B. Wingate	103	Mar. 27, 1941	629	60	8.8	183	476	25	118	-	a/	185
154	C. A. Kiker	65	do.	319	25	5.1	101	311	2	33	-	a/	83
155	J. V. Manuel	300	May 12, 1941	1,555	47	11	562	512	3	680	.4	a/	162
156	I. R. Bordages	200	May 22, 1941	1,324	65	9.5	644	342	2	935	-	a/	201
158	E. Thomas, et al.	400	May 19, 1941	1,092	23	8.0	409	476	2	415	.5	a/	90
159	Mrs. -- Fifield	67	Apr. 10, 1941	1,270	35	6.3	467	445	2	540	.5	a/	114
160	C. A. Bristow	65	Mar. 27, 1941	1,285	42	7.5	463	427	2	560	-	a/	135
161	J. Garvin	20	Mar. 31, 1941	812	95	22	171	445	245	52	-	8.2	329
162	Guy Junker Est.	275±	May 21, 1941	1,362	30	7.1	508	458	2	590	-	a/	104
163	Asa Hamshire	18	Mar. 31, 1941	173	14	8.8	38	43	27	64	-	a/	70
164	Mrs. G.W. Blanch	232	do.	658	18	7.5	245	506	3	135	-	a/	75
165	Ed. Van Houten	24	Apr. 11, 1941	--	-	-	-	427	4	128	-	a/	-
166	John Kropscott	228	May 23, 1941	227	38	5.8	47	232	2	20	.6	a/	120
167	Henry Lohman	223	Apr. 11, 1941	642	28	8.8	225	464	2	150	.3	a/	105
168	do.	223	do.	-	-	-	-	421	2	138	-	a/	-
169	do.	227	May 13, 1941	567	12	3.2	221	445	2	109	-	1.0	42
170	Cordelia Powers	18	Apr. 11, 1941	308	14	20	54	24	7	74	-	127	117
171	N. N. Vickers	10	Aug. 27, 1941	1,596	137	47	351	323	634	260	-	8.0	534
172	N. S. Whitman Est.	306	May 21, 1941	1,105	15	3.4	433	573	2	370	-	a/	52
173	William Fischer	28	Mar. 31, 1941	1,660	276	67	178	366	731	178	.4	50	967
175	Roy Moore	127	May 21, 1941	568	22	7.1	202	384	2	146	-	a/	84
177	S. R. Smith Est.	180	Apr. 10, 1941	830	24	10	311	744	3	116	0	a/	101

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
178	McFaddin Trust	20	Apr. 10, 1941	759	38	10	259	561	25	150	-	1.0	136
180	P. Arceneaux	18	Mar. 31, 1941	390	30	10	108	195	46	106	-	a/	116
181	Mrs. George Gill	254	do.	1,417	20	7.5	542	519	2	590	.3	0	80
182	Security State Bank & Trust Co.	162	Jan. 28, 1942	1,416	50	15	503	665	2	518	-	1.0	194
185	Pipkin Ranch	200±	Aug. 26, 1941	923	e/	18	348	427	2	340	-	a/	74
187	do.	327	do.	1,099	18	11	417	622	2	345	-	a/	92
189	do.	327	do.	1,291	18	11	494	653	2	445	.4	a/	92
190	do.	250	do.	1,527	28	17	568	695	2	570	-	a/	141
191	do.	250	do.	1,696	38	17	624	702	2	670	.3	a/	166
192	do.	178	do.	2,640	61	39	934	659	2	1,280	-	a/	314
197	McFaddin Trust	82	do.	1,901	195	48	476	427	2	970	-	0	685
200	do.	22	do.	1,437	114	33	381	73	77	775	0	21	421
201	do.	60	do.	947	105	11	249	268	15	435	-	a/	307
202	Broussard Trust	28	May 15, 1941	153	17	3.4	38	55	2	66	-	a/	57
203	do.	28±	Aug. 22, 1941	386	106	11	31	360	5	56	.2	a/	312
209	C. E. Ward	117	do.	2,500	80	35	960	476	2	1,290	.2	a/	341
210	do.	18	do.	200	32	8.2	34	128	12	50	-	a/	115
211	J. J. Hebert	-	Dec. 17, 1941	1,218	49	23	398	384	49	510	-	a/	219
213	C. W. Burrell	16	Mar. 27, 1941	242	50	7.5	30	116	12	73	-	12	155
214	M. I. James	80	Mar. 22, 1941	279	67	5.1	38	262	2	38	-	a/	188
216	W. G. Burrell	63	do.	306	56	3.9	62	287	2	36	-	4.7	157
218	Calder and Steinhagen	37	Aug. 22, 1941	1,296	117	38	333	519	88	465	.4	a/	449
219	B. A. Steinhagen	100±	May 12, 1941	2,168	83	19	743	329	8	1,150	-	2.5	287
220	W. C. Cutler	18	Mar. 22, 1941	368	109	5.1	20	159	8	130	-	18	293
221	O. H. Cuniff	24	Mar. 26, 1941	477	68	7.5	115	384	3	94	-	a/	200
222	-- Brockman	25	do.	462	93	23	52	323	27	103	-	5.0	329
223	Humble Oil & Refining Co.	64	do.	1,222	74	44	344	573	78	400	-	a/	367
224	Broussard Trust	18	May 23, 1941	924	34	24	237	525	156	165	-	a/	310
225	E. B. Hebert	18	Apr. 8, 1941	559	126	17	71	476	15	96	-	a/	386
226	McFaddin Trust	27	Apr. 15, 1941	468	72	16	76	92	10	203	-	47	245
227	R. C. Stafford	18	do.	480	84	16	77	134	7	230	-	a/	275

Partial analyses of ground water in Jefferson County--Continued

Results are in parts per million

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
228	John Koelemay	32	Apr. 14, 1941	484	103	14	68	403	3	79	-	19	313
229	S. Sassine	18	Apr. 8, 1941	5,570	436	206	1,286	512	1,233	2,110	0	-	1,936
231	Ross Combest	24	Apr. 14, 1941	559	75	48	79	464	15	114	-	a/	385
232	C. B. Wagner	30	do.	-	-	-	-	397	8	142	-	a/	-
f/234	Nederland Utilities Corp.	510	Mar 7, 1941	-	-	-	-	291	2	320	-	-	d/ 28
236	Sun Oil Co.	550	do.	-	-	-	-	313	2	96	-	-	d/ 20
237	do.	600±	do.	-	-	-	-	445	4	290	-	-	d/ 10
g/238	Pure Oil Co.	518	Jan. 1938	1,904	-	-	-	-	0	1,028	-	-	209
g/239	do.	606	do.	996	-	-	-	-	-	496	-	-	141
g/240	do.	606	do.	2,057	-	-	-	-	-	1,154	-	-	271
g/241	do.	606	do.	2,670	-	-	-	-	-	897	-	-	300
g/242	do.	605	do.	1,504	-	-	-	-	-	854	-	-	179
g/243	do.	606	do.	1,037	-	-	-	-	-	614	-	-	123
g/244	do.	606	do.	771	-	-	-	-	-	355	-	-	130
g/245	do.	602	do.	657	-	-	-	-	-	246	-	-	95
g/246	do.	618	do.	666	-	-	-	-	-	195	-	-	d/ 80
g/247	do.	608	do.	556	-	-	-	-	-	195	-	-	d/ 89
g/248	do.	612	do.	601	-	-	-	-	-	213	-	-	79
249	do.	605	Mar. 11, 1941	-	-	-	-	378	4	265	-	-	d/ 22
253	Magnolia Petroleum Co.	774	Mar. 10, 1941	-	-	-	-	275	2	980	-	-	d/ 117
257	City of Port Arthur No. 4	644	do.	-	-	-	-	285	2	235	-	-	d/ 38
258	City of Port Neches	60	Mar. 29, 1941	390	111	12	26	366	6	55	.4	a/	328
259	The Texas Co.	681	Sept. 23, 1941	1,401	35	12	503	262	2	720	-	a/	138
260	do	656	do.	1,583	30	10	584	256	2	830	1.0	a/	116
261	L. J. Gibling	1,000±	Mar. 13, 1941	-	-	-	-	339	2	850	-	-	d/ 88
262	Port Arthur Country Club	20	Feb. 13, 1941	-	-	-	-	384	25	202	-	-	d/ 390

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
263	Atlantic Refining Co.	322	Mar. 13, 1941	-	-	-	-	323	2	1,340	-	-	d/ 159
264	do.	549	do.	-	-	-	-	369	2	141	-	-	d/ 26
h/265	Atlantic Refining Co. Test No. 1	100	Oct. 10, 1935	2,960	126 6	66.3	787	616	32.6	1,250	-	-	-
h/265	do.	119	Oct. 14, 1935	2,880	121.0	73.4	774	593	34.3	1,250	-	-	-
h/265	do.	195	Oct. 21, 1935	2,760	96.0	50.4	817	387	0	1,380	-	-	-
h/265	do.	220	Oct. 24, 1935	2,790	107.7	26.4	860	393	0	1,372	-	-	-
h/265	do.	326	Oct. 26, 1935	2,007	61	28.8	603	413	0	885	-	-	-
h/265	do.	341	Oct. 29, 1935	1,918	56.8	25.3	587	416	0	840	-	-	-
h/265	Atlantic Refining Co.	453	Nov. 1, 1935	982	12.7	6.2	267	401	0	220	-	-	-
h/265	do.	550	Nov. 6, 1935	755	5.1	4.9	223	348	0	166	-	-	-
h/265	do.	830	Dec. 14, 1935	2,760	29.7	12.1	972	319	0	1,400	-	-	-
h/265	do.	1,062	Dec. 19, 1935	6,310	104	47	2,273	317	1.1	3,530	-	-	-
h/265	do.	1,389	Jan 14, 1936	40,400	1,146	523	13,800	186	0	24,700	-	-	-
h/265	do.	1,469	Jan. 21, 1936	55,900	1,572	899	18,800	150	0	34,400	-	-	-
266	C. R. Bernhardt	22	Mar. 22, 1941	432	69	15	79	305	23	89	.4	6.6	234
267	D. Smith	22	Apr. 8, 1941	1,704	115	47	478	726	202	505	.3	a/	479
268	L. W. Lloyd	20	do.	444	42	27	73	18	12	200	.2	31	217
269	W. Talbot	27	do.	996	74	18	280	281	126	360	-	a/	261
275	Southern Acid & Sulphur Co.	935	July 16, 1941	-	-	-	-	294	2	3,950	-	-	d/ 417
276	Jefferson County	1,000±	Feb. 13, 1941	-	-	-	-	325	2	1,780	-	-	d/ 153
279	Gulf Refining Co.	950±	Mar. 24, 1941	10,900	223	125	3,860	281	2	6,550	-	a/	1,072
280	do.	946	do.	12,300	254	144	4,330	250	2	7,400	.4	a/	1,229
284	do.	965	Mar. 25, 1941	15,350	118	28	1,945	323	3	3,100	.4	a/	413
285	Guy Moore	11	Feb. 13, 1941	-	-	-	-	-	48	138	-	-	d/ 300
286	Granger's Cafe	7	do.	-	-	-	-	-	60	143	-	-	d/ 240
287	Houston Oil Co.	1,065	June 6, 1941	15,000	364	192	5,230	287	2	9,100	.2	a/	1,699

Partial analyses of ground water in Jefferson County, Texas

Analyzed at The University of Texas under the direction of F. W. Lohr and W. W. Hastings, Chemists, U. S. Department of the Interior, Geological Survey, and Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry. Results are in parts per million. Well numbers correspond to numbers in table of well records.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
1	R. A. Walsh	96	June 10, 1941	832	45	3.4	284	317	2	342	-	a/	127
2	Tyrrell Trust	300	Mar. 12, 1941	619	12	3.9	233	256	2	240	-	2.4	47
4	Dr. N.E. Laidacker	198	May 17, 1941	866	6.8	1.0	342	281	2	375	1.0	a/	21
5	Chas. C. Huff	250	Mar. 11, 1941	-	-	-	-	329	3	780	-	-	-
6	C. C. Dailey	26	do.	-	-	-	-	250	5	46	-	-	-
7	Mrs. Raymond Lewis	229	do.	-	-	-	-	336	3	795	-	-	-
8	Magnolia Pipe Line Co.	208	June 10, 1941	1,738	36	4.6	669	348	2	905	-	a/	108
9	Edmund LeJune	17	Mar. 11, 1941	-	-	-	-	61	3	48	-	-	-
11	Al Jagneaux	115	June 10, 1941	624	82	13	148	458	39	117	-	a/	258
12	J. S. McCormack	23	Apr. 3, 1941	877	229	12	67	378	18	240	-	125	623
14	Broussard Trust	19	June 10, 1941	611	70	14	161	561	8	82	-	a/	234
15	Walter Higginbotham	16	do.	1,270	138	21	296	281	240	400	.1	28	433
16	do.	14	do.	903	118	13	216	438	74	242	.2	a/	348
18	E. A. Luce	252	Apr. 3, 1941	860	20	2.7	325	378	1	325	-	a/	62
19	Southern Pacific Co	246	May 16, 1941	828	23	3.4	308	366	2	312	-	a/	72
20	Ed Goudet	142	Apr. 11, 1941	596	41	5.1	196	421	8	139	.2	a/	123
21	Dr. N E. Laidacker	225	June 10, 1941	772	20	5.8	286	378	2	272	.3	a/	74
22	L. Thibodeaux	11	Mar. 11, 1941	-	-	-	-	37	12	158	-	-	-
23	J. C. Blanch	204	June 10, 1941	778	14	5.8	294	354	2	288	-	a/	59
24	R. Blake Mackan	72	do.	400	81	11	54	451	2	30	-	a/	297
25	Dr. N.F. Laidacker	206	Apr. 11, 1941	840	25	4.9	307	323	2	342	-	a/	83
26	Mrs. C.O. Thompson	15	June 10, 1941	416	64	7.1	97	409	2	45	-	a/	189
27	Dr. -- Beaver	12	do.	99	13	1.0	26	92	4	10	-	a/	36
29	Nelson Laidacker	176	May 17, 1941	780	43	11	260	476	2	230	-	a/	152
30	Jimmie Gober	125	May 16, 1941	1,142	100	17	327	378	2	510	-	a/	320
31	W. G. Frenzel	118	do.	707	76	16	187	464	2	198	-	a/	255
32	Southern Pacific Co.	98	do.	534	128	8.3	70	397	12	121	.2	a/	355
34	C. L. Freeman	30	Mar. 13, 1941	337	83	6.3	39	262	8	62	.4	9.4	234

Partial analyses of ground water in Jefferson County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (Sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
288	A. H. Moss	14	Apr. 9, 1941	302	60	7.5	46	189	27	68	-	a/	180
290	Sid Broussard	13	Mar 8, 1941	-	-	-	-	342	135	96	-	-	-
291	W. O. Fawvor	13	do.	-	-	-	-	268	72	125	-	-	-
i/292	do.												

a/ Less than 20 parts per million.
b/ Analyzed by J. R Bailey and A. M McAfee, Univ of Texas.
c/ Analyzed by Magnolia Refining Co. at Beaumont refinery.
d/ Determined.
e/ Less than 5 parts per million.
f/ Composite sample from wells 234 and 235.
g/ Analyzed by Pure Oil Co. at Nederland refinery.
h/ Analyzed by Houston Laboratories.
i/ See table page 60 for chloride determinations.

Chloride determinations of water from well 292, Jefferson County

Depth (ft.)	Date	Chloride	Depth (ft.)	Date	Chloride
8	Apr. 26, 1941	12	57	May 2, 1941	7,850
9	do.	34	64	May 5, 1941	7,900
10	do.	46	65	do.	7,920
11	do.	81	71	May 7, 1941	8,020
12	do.	90	101	May 12, 1941	7,320
13	do.	96	102	do.	7,350
14	do.	130	105	do.	7,350
16	Apr. 29, 1941	515	107	May 14, 1941	7,000
24	do.	3,420	108	do.	7,150
33	Apr. 30, 1941	6,800	109	do.	7,000
34	do.	7,020	110	May 15, 1941	7,150
35	do.	7,650	111	do.	7,150
36	do.	7,950	116	May 21, 1941	6,550
37	do.	7,970	117	do.	6,350
38	do.	8,050	118	May 22, 1941	6,670
39	May 1, 1941	8,200	119	do.	5,220
41	do.	8,400			

Partial analyses of ground water in Jefferson County, Texas

Well numbers correspond to numbers in table of well records. Results are equivalents per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc)
4	Dr. N.E. Laidacker	198	May 17, 1941	0.34	0.08	14.85	4.60	0.04	10.58	0.05	-	0.42
15	Walter Higginbotham	16	June 10, 1941	6.90	1.76	12.85	4.60	5.18	11.28	.00	0.45	8.66
20	Ed Goudet	142	Apr 11, 1941	2.04	.42	8.53	6.90	.17	3.92	.1	-	2.46
34	C. L. Freeman	30	Mar. 13, 1941	4.16	.52	1.71	4.30	.17	1.75	.02	.15	4.68
40	Texas Public Service Co.	120	Mar. 28, 1941	8.94	2.20	22.64	5.80	1.38	26.57	.02	.03	11.14
51	G R. Bauer	150	Mar. 13, 1941	6.66	1.82	13.31	7.80	6.80	7.19	.01	-	8.48
62	Roy Meagher	150±	June 10, 1941	6.18	1.78	39.72	4.60	.04	43.01	.03	0	7.96
72	Kirby Lumber Co.	315	Mar. 11, 1941	.34	.15	7.67	6.15	.02	1.95	.04	0	.49
75	do.	600±	do.	.30	.12	18.66	7.40	.04	11.56	.08	0	.42
81	H. Visser	63	Mar. 10, 1941	3.38	.72	2.13	5.60	.04	.59	.01	-	4.10
90	Beaumont Country Club	650	Mar. 28, 1941	1.30	.12	18.62	5.60	.04	14.38	.02	-	1.42
96	Stanolind Oil & Gas Co.	33	Mar. 21, 1941	11.02	3.04	12.85	6.80	17.01	3.07	.03	-	14.06
108	Paul Acheson	80	Mar. 13, 1941	3.84	1.12	3.32	6.70	.17	1.41	-	-	4.96
122	Tyrrell Trust	242	Mar. 24, 1941	3.26	1.32	10.75	2.60	6.72	6.49	.02	.02	5.08
136	N.S. Whitman Est.	77	May 22, 1941	7.14	3.36	28.65	6.80	.48	31.87	.01	0	10.50
146	T. A. Clubb	14	Aug. 27, 1941	9.52	3.04	3.84	6.10	5.28	4.63	.01	.39	12.56
155	J. V. Manuel	300	May 12, 1941	2.36	.88	24.42	8.40	.06	19.18	.02	-	3.24
159	Mrs. -- Fifield	67	Apr. 10, 1941	1.76	.52	20.31	7.30	.04	15.22	.03	-	2.28
173	William Fischer	28	Mar. 31, 1941	13.80	5.54	7.74	6.00	15.23	5.02	.02	.81	19.34
189	Pipkin Ranch	327	Aug. 26, 1941	.92	.92	21.47	10.70	.04	12.55	.02	-	1.84
209	C. E. Ward	117	Aug. 22, 1941	3.98	2.84	37.40	7.80	.04	36.38	.01	-	6.82
258	City of Port Neches	60	Mar. 29, 1941	5.54	1.02	1.15	6.00	.12	1.55	.02	-	6.56
260	The Texas Co.	656	Sept. 23. 1941	1.50	.82	25.38	4.20	.04	23.41	.05	-	2.32
266	C. R. Bernhardt	22	Mar. 22, 1941	3.46	1.22	3.44	5.00	.48	2.51	.02	.11	4.68
280	Gulf Refining Co.	946	Mar. 24, 1941	12.70	11.88	188.28	4.10	.04	208.70	.02	-	24.58
287	Houston Oil Co.	1,065	June 6, 1941	18.18	15.80	227.42	4.70	.04	256.65	.01	-	33.98

Partial analyses of ground water from W. P. A. test holes in Jefferson County, Texas

Analyzed at The University of Texas under the direction of T. W. Lohr and W. W. Hastings, Chemists, U. S. Department of the Interior, Geological Survey, and Dr. F. P. Schoch, Director of the Bureau of Industrial Chemistry. Results are in parts per million. Well numbers correspond to numbers in table of test hole logs

No	Depth of well (ft.)	Date of collection	Total dissolved solids Sum	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
301	19	Mar. 13, 1941	550	28	1.5	200	512	12	400	a/	76
302	11	do.	768	44	8.8	242	537	41	168	a/	195
303	21	Mar. 28, 1941	443	89	15	65	329	8	104	-	284
304	16	do.	-	-	-	-	293	1,089	118	-	-
305	16	Mar. 14, 1941	2,700	447	56	325	122	1,652	165	a/	1,348
306	18	do.	621	5.6	9.0	242	549	14	80	a/	51
307	14	Mar. 10, 1941	-	-	-	-	549	7	56	-	-
308	27	Mar 11, 1941	-	-	-	-	415	188	910	-	-
309	32	do.	-	-	-	-	131	13	475	-	-
310	8	Mar. 12, 1941	-	-	-	-	24	2	140	-	-
312	22	Mar. 21, 1941	735	92	8.8	180	214	29	320	a/	265
313	11	do.	568	131	22	55	293	14	202	a/	419
314	25	Apr. 7, 1941	593	64	8.8	136	98	174	162	a/	195
315	11	do.	1,004	206	17	117	305	369	145	a/	536
316	19	Mar. 24, 1941	814	44	11	271	543	31	190	a/	157
317	12	do.	511	89	14	96	451	25	65	a/	273
318	17	Apr. 3, 1941	877	116	17	134	439	226	118	-	361
319	15	do.	1,103	86	30	280	512	311	144	-	338
320	11	Mar. 26, 1941	1,247	231	39	184	421	86	500	-	739
321	13	do.	-	-	-	-	458	614	355	-	-
322	12	Apr. 1, 1941	466	91	21	63	348	13	107	-	313
323	14	do.	3,090	363	101	407	256	1,726	280	-	1,322
324	23	do.	1,072	114	26	260	519	152	265	-	391
325	19	Apr. 2, 1941	-	-	-	-	409	15	100	-	-
326	22	do.	580	86	16	121	409	31	125	-	280
327	11	Mar. 27, 1941	2,900	478	69	391	305	1,283	525	-	1,478
328	9	do.	1,336	204	33	245	403	206	450	-	646
329	9	do.	39	4.4	3.9	2.8	6	20	5	-	27
330	14	do.	561	153	14	47	458	15	107	-	439
331	11	Mar. 31, 1941	405	104	16	16	275	86	42	-	325
332	13	do.	105	12	1.5	26	43	15	29	-	36

No.	Depth of well (ft.)	Date of collection	Total dissolved solids Sum	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
333	12	Mar. 31, 1941	656	127	21	57	165	350	20	-	403
334	12	do.	340	68	11	52	329	14	33	-	217
335	16	Apr 10, 1941	-	-	-	-	207	13	36	-	-
336	29	do.	352	97	14	23	323	1	58	-	298
337	11	Mar 22, 1941	788	198	16	76	293	39	315	a/	560
338	13	Mar. 21, 1941	664	98	11	145	348	39	200	a/	292
340	17	Apr. 1, 1941	947	79	14	259	458	218	152	-	253
341	10	Mar 26, 1941	-	-	-	-	488	272	425	-	-
342	11	do.	2,002	184	67	449	537	513	525	-	738
343	14	Apr. 15, 1941	262	80	8.8	11	244	2	40	-	235
344	18	do.	900	128	26	162	305	226	208	-	426
345	17	Apr. 14, 1941	1,287	102	30	336	488	295	284	-	378
346	15	do.	-	-	-	-	329	2	58	-	-
347	15	Apr. 15, 1941	1,484	237	31	287	378	39	704	-	719
348	16	do.	453	110	17	43	439	43	24	-	346
349	13	Apr. 14, 1941	-	-	-	-	488	39	90		-
350	18	do.	1,339	92	26	385	641	233	288	-	336
351	17	Apr. 8, 1941	2,464	161	63	657	549	583	730	a/	659
352	14	do.	697	122	33	93	488	140	67	2.2	441
353	11	do.	-	-	-	-	470	60	100	a/	-
354	12	Mar 25, 1941	1,651	184	54	372	488	101	700	a/	683
355	20	do.	250	21	6.3	67	79	12	105	a/	79
356	12	do.	1,082	45	15	371	561	25	350	-	174
357	19	Apr. 9, 1941	6,830	386	300	1,622	915	2,080	1,990	-	2,198
358	15	do.	-	-	-	-	717	2,080	9,600	-	-
359	5	do.	436	112	28	21	476	15	26	-	397
360	13	do.	1,813	169	63	434	342	105	874	-	679
361	6	Mar. 8, 1941	-	-	-	-	878	1,735	10,400	-	-
362	12	do.	-	-	-		634	176	550	-	-
363	9	do.	6,930	610	282	1,587	586	554	3,600	-	2,690
364	7	do.	489	-	-		537	18	15	-	-
365	5	do.	-	-	-	-	-	20	7	-	-

Partial analyses of ground water from W. P. A. test holes in Jefferson County--Continued

Results are in parts per million

No.	Depth of well (ft.)	Date of collection	Total dissolved solids Sum	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) calc.	Bicarbonate (HCO_3)	Sulphate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Total hardness as $CaCO_3$ (calc.)
366	9	Mar. 7, 1941	309	88	8.8	22	336	20	5	a/	255
368	5	do.	-	-	-	-	378	10	6	-	-
369	6	do.	-	-	-	-	598	25	68	-	-
370	9	do.	-	-	-	-	561	25	72	-	-
371	6	do.	2,068	23	69	702	1,147	200	510	-	342
372	5	do.	-	-	-	-	537	22	16	-	-
b/373											

a/ Less than 20 parts per million. b/ See table of chloride determinations of water from well 292, page 60.

— EXPLANATION —

- ○ WELL WITH HAND PUMP, BUCKET OR BAILER
- ● FLOWING WELL
- ⊙ WELL WITH WINDMILL OR SMALL PUMPING UNIT
- ◇ UNUSED WELL
- ✧ WELL DRILLED TO TEST FOR OIL OR GAS
- ◎ WELL WITH PUMPING PLANT — 5 HORSE POWER OR LARGER
- \+ EXPLORATORY TEST HOLE 600 TO 1000 FEET DEEP, ELECTRICAL LOG IN CONFIDENTIAL FILES OF FEDERAL GEOLOGICAL SURVEY, AUSTIN, TEXAS.

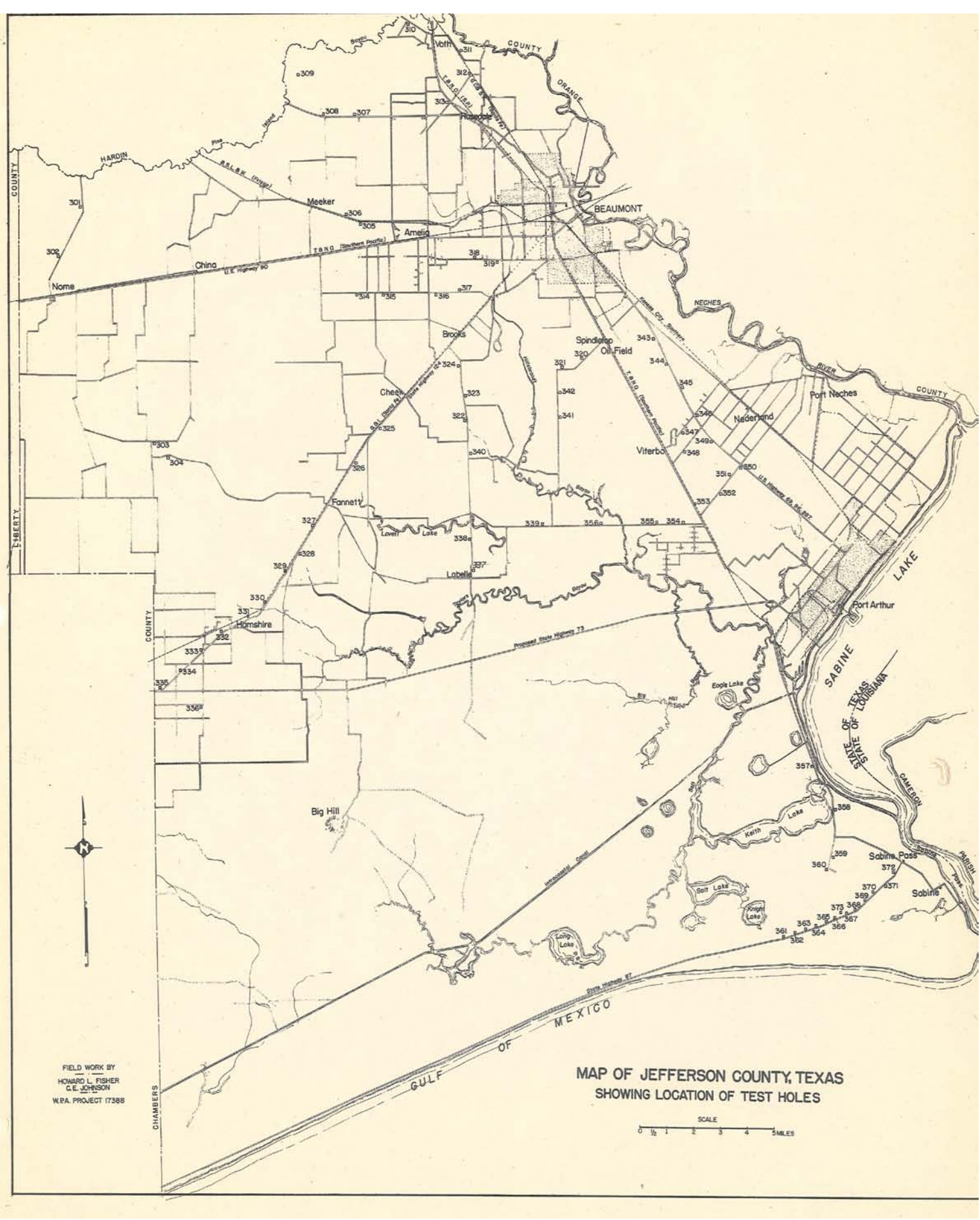
BASE COMPILED FROM AERIAL PHOTOGRAPHS, DRAINAGE MAP, AND OWNERSHIP MAP

MAP OF JEFFERSON COUNTY, TEXAS

SHOWING LOCATION OF WELLS FOR WHICH DATA WERE OBTAINED

SCALE 0 ½ 1 2 3 4 5 MILES

O.G.K. 3-16-42


Voth
COUNTY
ORANGE
Nonpine
HARDIN
COUNTY
Meeker
BEAUMONT
Ameliq
China
Nome
Brooks
Spindletop
Oil Field
NECHES
RIVER
COUNTY
Port Neches
Nederland
Viterbo
Cheek
Fannett
Lovell
Lake
Lobelle
LIBERTY
COUNTY
Homshire
Port Arthur
LAKE
SABINE
STATE OF TEXAS
STATE OF LOUISIANA
CAMERON
PARISH
Eagle Lake
Big Hill
Keith
Lake
Sabine Pass
Sabine
Salt Lake
Knight
Lake
Long
Lake
CHAMBERS
GULF OF MEXICO
FIELD WORK BY
HOWARD L. FISHER
C.E. JOHNSON
W.P.A. PROJECT 17388
MAP OF JEFFERSON COUNTY, TEXAS
SHOWING LOCATION OF TEST HOLES
SCALE
0 ½ 1 2 3 4 5 MILES