

GREGG COUNTY, TEXAS

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

TEXAS STATE BOARD OF WATER ENGINEERS

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Department of the Interior, Geological Survey

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GREGG COUNTY, TEXAS

Introduction

By

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This publication is supplemental to one that was released for Gregg County by the Texas Board of Water Engineers on February 15, 1937. It contains records of 90 wells, drillers' logs of 52 wells, summary descriptions of electrical logs of 6 wells, and results of chemical analyses of water from 70 wells in Gregg County, Texas.

It also includes a map, showing the location of the wells, each well being given a number on the map corresponding to the number assigned to it in the records. A part of the records are taken from the 1937 publication. Most of them were collected during 1941 and 1942. The field work was done in connection with a state-wide program of ground-water investigations in Texas conducted by the State Board of Water Engineers in cooperation with the United States Department of the Interior, Geological Survey.

The water analyses were made by W. W. Hastings, Chemist of the Quality of Water Division of the Federal Geological Survey, and by chemists employed by the Work Projects Administration under the supervision of Mr. Hastings, and Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry of The University of Texas. The results of the analyses, which relate only to the mineral constituents in the water, and not to its sanitary character, are tabulated in parts per million on pages 28 to 33. For the convenience of those who prefer a different form of expression the analyses of 18 samples are given in milligram equivalents per liter on page 34.

The records serve as a guide to land owners, officials of industrial plants, well drillers and others who need information regarding wells, the depth to ground water in different parts of the county, and the quantity and chemical character of water yielded by the wells.

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

Records of wells in Gregg County, Texas
 All wells are drilled unless otherwise stated under remarks
 (Supplemental to wells listed in report of Feb. 15, 1937)

Well	Distance from Longview	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
30	7 $\frac{3}{4}$ miles northwest	Tide Water Associated Oil Co. (J.J.Flewellen)	Layne-Texas Co.	1931	812	6-5/8	--
62	7 miles northwest	Humble Oil and Refining Co. (G.W.Willingham)	do.	1931	390	10	0.5
84a	5 $\frac{1}{2}$ miles north	Judson Grove School	--	1935	594	--	--
112	7 miles northwest	Magnolia Petroleum Co. (W. E. Jones)	Layne-Texas Co.	1931	811	8	--
178	3/4 mile northeast	Dr. -- Hurst	--	1932	543	--	--

Well	Distance from Gladewater	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
214	2 miles northeast	Humble Oil and Refining Co. (W.W.Holland)	Layne-Texas Co.	1931	1,084	9-7/8	--
258	In Gladewater	City of Gladewater No. 1	do.	1931	826	12 $\frac{1}{2}$, 6-5/8	0.5
259	do.	City of Gladewater No. 2	do.	1931	388	12 $\frac{1}{2}$	1.7
264	do.	City of Gladewater No. 3	do.	1933	213	10, 8 $\frac{1}{2}$	2.0
265	1/2 mile southwest	Sinclair-Prairie Oil Co. (W.H.York)	Conway Bros.	1932	807	8 $\frac{1}{2}$	--
275	5 $\frac{1}{2}$ miles east	Stanolind Oil and Gas Co. (L.E.Pearsons)	L. W. Little	1931	872	10, 6-5/8	2.0
285	7 miles east	Gulf Oil Corp. (M. Smith)	--	1931	964	6-5/8	--
290	5 $\frac{1}{2}$ miles east	Tide Water Associated Oil Co. (E.J.Nettleton "A")	Mid-Kansas Oil Co.	1931	843	8 $\frac{1}{2}$, 6	--

a/ Plus (+) indicates water level is above ground.

b/ T, turbine; A, air, steam or natural gas lift; H, hand pump or bucket and rope; C, cylinder; G, gasoline; E, electric. Number indicates horsepower.

Chemical analyses of water from some of these wells are shown in a table of analyses on pages 28 to 34.

Well	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
30	--	--	A,90	Ind	Cased to bottom. Screens at 452-497, 581-604, 702-746 and 768-789 feet. See log.
62	54.15	June 15, 1936	T,E, 30	D,Ind	Cased to bottom. Screens at 50-72, 153-175, 184-195 and 337-381 feet. Reported yield 108 gallons a minute with drawdown of 120 feet in 1936. See log.
84a	--	--	C,E	P	See log.
112	--	--	A,90	Ind	Cased to bottom. Screens at 497-518, 544-565, 602-620 and 747-789 feet. Estimated yield 150 gallons a minute in 1936. See log.
178	--	--	C,E, 1 1/2	Irr	Sand reported from 320 to 348 feet.
Well	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
214	--	--	T,E, 60	D,Ind	See log.
258	178.02	June 10, 1938	None	N	Casing: 12 1/2-inch to 294 feet and 6-5/8-inch to 629 feet. Screens at 316-333, 339-349, 355-375, 489-499 and 589-629 feet. Gravel-walled.
259	143.50	Apr. 4, 1940	T,E, 25	P	Cased to bottom. Screens at 173-195, 206-216, and 312-354 feet. Gravel-walled. Reported yield 140 gallons a minute with drawdown of 90 feet when drilled. See log.
264	71.99	July 12, 1940	None	N	Casing: 10-inch to 139 feet and 8-inch to 213 feet, perforated at 41-98, 140-162 and 191-211 feet. See log.
265	--	--	C,A, 5	Ind	Cased to bottom. See log.
275	105.0	Apr. 6, 1936	A,G, 25	Ind	Casing: 10-inch to 82 feet; 6-5/8-inch from 9 to 872 feet. See log.
285	--	--	C,E, 10	D,Ind	Cased to bottom, perforated from 784 to 844 feet. Reported yield 200 gallons a minute.
290	--	--	None	N	Casing: 8 1/2-inch to 780 feet, cemented; 6-inch perforated liner from 757 to 843 feet. See log.

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

d/ Water level reported by driller or owner.

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

* This well is located in Upshur County, and is recorded in the Upshur County report however, it is included here because it is one of the several wells used by the City of Gladewater.

Records of wells in Gregg County--Continued

Well	Distance from Kilgore	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
411	6 $\frac{1}{4}$ miles northwest	Sinclair-Prairie Oil Co. (M.T.Cole)	Layne-Texas Co.	1931	1,008	12 $\frac{1}{2}$, 8 $\frac{1}{4}$	--
468	In Kilgore (City Park)	City of Kilgore No. 4	do.	1934	780	16, 10	--
469	In Kilgore	City of Kilgore No. 1	do.	1931	875	15 $\frac{1}{2}$, 8 $\frac{1}{4}$	1.0
470	do.	City of Kilgore No. 3	do.	1934	906	10, 6- 5/8	0.7
471	$\frac{1}{2}$ mile south	Humble Oil and Refining Co. (S.S.Laird "B")	do.	1931	908	16, 8 $\frac{1}{2}$	--
476	1 $\frac{1}{2}$ miles west	Shell Oil Co., Inc. (W. W. Elder)	do.	1931	500	10	--

Well	Distance from Longview	Owner or Lessor	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
503	2 miles south	D. H. Jones	Walter Meller	1934	467	6	--
525	6 miles southwest	Magnolia Pipe Line Co.	--	1931	218	--	--
531	4 $\frac{3}{4}$ miles southwest	Atlantic Pipe Line Co.	Walter Meller	1935	365	6	0
607	3 miles south	United Gas Public Service Co.	Layne-Texas Co.	1931	378	6	--

Well	Distance from Gladewater	Owner or Lessor	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
640	In Gladewater City Park	City of Gladewater	Layne-Texas Co.	1937	765	--	--
* 75	1 $\frac{1}{2}$ miles northwest (In Upshur County)	City of Gladewater No. 4	do.	1937	294	10 $\frac{3}{4}$	1.5
641	$\frac{1}{2}$ mile southwest	City of Gladewater No. 5	do.	1940	279	10 $\frac{3}{4}$, 8	2.0
642	1 $\frac{1}{4}$ miles northeast	Tide Water Associated Oil Co. (W. H. Richey)	Johnson and Sitton	1931	600	7, 5- 3/16	--

Well	Water level		Date of measurement	Method of lift	Use of water	Remarks
	Below measuring point (ft.)	a/				
411	d/ 60	Aug. 5, 1931	T,E, 60	Ind	Casing: 12 $\frac{1}{2}$ -inch to 844 feet and 8-inch screen from 846 to 1,003 feet. Reported yield 560	
468	111.0	Sept. 14, 1934	T,E, 40	P	Casing: 16-inch ; gallons a minute. See log to 607 feet, cemented; 10-inch from 0 to 777 feet. Screens at 607-625 and 665-755 feet.	
469	156.04	Dec. 11, 1939	T,E, 30	P	Casing: 15 $\frac{1}{2}$ -inch to 373 feet and 8 $\frac{1}{2}$ -inch to 873 feet. Screen from 773 to 873 feet. Water level reported to have been 87 feet below ground when drilled. See log.	
	158.33	Nov. 26, 1940				
	162.81	Sept. 3, 1941				
470	150.76	Dec. 11, 1939	T,E, 25	P	Casing: 10-inch to 763 feet and 6-5/8-inch to 906 feet. Screen from 802 to 906 feet. Water level reported to have been 134 feet below ground in 1934. Temperature 80° F. See log.	
	153.88	Nov. 26, 1940				
	157.78	Sept. 3, 1941				
471	d/ 76	Apr. 29, 1931	T,E, 50	D,S, Ind	Casing: 16-inch to 350 feet and 8 $\frac{1}{2}$ -inch to 908 feet. Screens at 380-436, 747-769 and 821-	
476	d/ 70	Apr. 13, 1936	T,E, 10	D,Ind	Cased to 450 feet. 865 feet. See log. Reported yield 200 gallons a minute in 1933.	

Well	Water level		Date of measurement	Method of lift	Use of water	Remarks
	Below measuring point (ft.)	a/				
503	32	June 30, 1936	A,-	D		
525	--	--	A,-	D,Ind	Estimated yield 500 gallons a minute in 1936.	
531	d/ 45	1935	C,E, 5	D	Fine-grained sand reported from 355 to 365 feet yield 15 gallons a minute.	
607	--	--	A,-	Ind	See log.	

Well	Water level		Date of measurement	Method of lift	Use of water	Remarks
	Below measuring point (ft.)	a/				
640	--	--		None	N	City test well. Supply reported inadequate. See log.
*75	80.44	Nov. 26, 1940	T,E, 25	P	Casing: 20-inch to 203 feet, cemented; 10 $\frac{3}{4}$ -inch from 0 to 294 feet. Screen from 205 to 268 feet. Gravel-walled. Yield 185 gallons a minute with drawdown of 160 feet when drilled.	
641	85.21	July 12, 1940	T,E, 15	P	Casing: 18-5/8- inch to 50 feet, cemented; 10 $\frac{3}{4}$ -inch from 0 to 275 feet. Screen from 202 to 265 feet. Gravel-walled. Liner: 8-inch from 186 to 268 feet perforated. Yield 124 gallons a minute with drawdown of 130 feet when drilled. See log.	
642	--	--	--	--	--	Casing: 8 $\frac{1}{2}$ -inch to 353 feet; 7-inch from 0 to 531 feet; 5-3/16-inch perforated from 513 to 600 feet. See log.

Records of wells in Gregg County--Continued

Well	Distance from Gladewater	Owner (Less or)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
643	2 $\frac{3}{4}$ miles northeast	Gulf Oil Corp. (J. H. Bozeman)	R. L. Miles	1931	1,023	4	--
644	do.	J. H. Bozeman	Bill Boling	1938	400	6	0
645	2 $\frac{1}{2}$ miles southeast	Gulf Oil Corp. (M. J. Sheppard)	H. L. Taylor	1937	304	4	0
646	do.	do.	Bill Boling	1941	305	4 $\frac{1}{2}$	--
647	1 $\frac{3}{4}$ miles southeast	Gulf Oil Corp. (F. M. Fonville)	do.	1941	258	4 $\frac{1}{2}$	--
648	3 $\frac{1}{2}$ miles southeast	Gulf Oil Corp. (E. L. Walker)	do.	1942	104	4 $\frac{1}{2}$	0.8
649	3 $\frac{1}{2}$ miles southeast	E.P.Halliburton, Inc. (W.D.Lacy "B")	Dan Kerr	1937	485	6	0
650	5 $\frac{1}{2}$ miles southeast	Gulf Oil Corp. (J. C. Judge)	H. L. Taylor	1940	302	4	--
651	5 miles southeast	Atlantic Ref. Co. (Martin Hays)	J. C. Boling	1938	340	4 $\frac{1}{2}$	0
652	4 $\frac{1}{2}$ miles southeast	Atlantic Ref. Co. (S. C. Fishburn)	Pilot Oil Co.	1933	214+	6	0
653	3 $\frac{3}{4}$ miles southeast	Superior Oil Co. (W. E. Pasture)	--	1932	512	8	0
654	5 miles southeast	Sinclair-Prairie Oil Co. No. 2 (D. Moore)	W. A. Meller	1934	476	8, 6	--
655	do.	Sinclair-Prairie Oil Co. No. 3 (D. Moore)	do.	1934	241	6	--
656	do.	Sinclair-Prairie Oil Co. No. 4 (D. Moore)	do.	1935	456	8 $\frac{1}{2}$	--

Well	Distance from Greggton	Owner or Lessor	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
657	3 $\frac{1}{2}$ miles west	Tide Water Associated Oil Co. (E.M.Nettleton "A")	W. A. Meller	1936	457	10 $\frac{3}{4}$, 7	--
658	do.	Tide Water Associated Oil Co. No. 2 (E.M.Nettleton "A")	Layne-Texas Co.	1938	458	7	0
659	3 miles west	Texas-Empire Pipe Line Co. (E.M.Nettleton "A")	do.	--	375	6	0
660	2 $\frac{3}{8}$ miles west	Atlantic Ref. Co. (T. B. Harris)	Boling and Boling	1938	362	5 $\frac{1}{2}$, 4	--
661	3 miles northwest	Gulf Oil Corp. (Lacy-Snider)	Bill Boling	1941	228	4 $\frac{1}{2}$	--

Well	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
643	--	--	None	N	Cased to bottom, 180 feet perforated between 497 and 835 feet. Reported yield 230 gallons a minute of highly mineralized water. See log.
644	d/ 25	1938	C,A, 5	D	Reported sand from 360 to 400 feet, and yields 10 gallons a minute.
645	d/ 75	1937	C,E, $\frac{1}{2}$	D	Cased to bottom, perforated from 284 to 304 feet. Estimated yield 3 gallons a minute. See log.
646	--	--	C,E, $\frac{1}{2}$	D	Casing: 8-5/8-inch to 51 feet; 4 1/2-inch from 0 to 295 feet, perforated from 278 to 295 feet.
647	--	--	C,E, $\frac{1}{2}$	D	Casing: 8-5/8-inch to 63 feet; 4 1/2-inch from 0 to 251 feet. Screen from 231 to 251 feet. See log.
648	19.50	Jan. 22, 1942	C,E, $\frac{1}{2}$	D	Casing: 8-5/8-inch to 66 feet; 4 1/2-inch from 0 to 104 feet, perforated from 82 to 104 feet. See log.
649	d/ 25	1937	C,A, 11	Ind	Cased to bottom, two perforations 2 feet long at 450 feet. See log.
650	--	--	C,E, 5	D	Cased to bottom. Reported yield 50 gallons a minute when drilled. See log.
651	d/ 125	1938	C,E, 3	D,S	Casing: 6-inch to 150 feet, cemented; 4 1/2-inch from 0 to 340 feet, perforated from 310 to 340 feet. See log.
652	d/ 70	1940	C,A, 5	D	Reported yield 4-inch pipe full 24 hours a day when drilled.
653	d/ 60	1932	A,-	D	Reported yield 85 gallons a minute when drilled.
654	--	--	A	Ind	Casing: 8-inch to 340 feet, cemented. Screen 6-inch below 340 feet. Estimated yield 15 gallons a minute. See log.
655	--	--	A	Ind	Casing: 8-inch to 178 feet; 6-inch from 0 to 241 feet. Screen from 177 to 241 feet. Estimated yield 15 gallons a minute. See log.
656	--	--	A	Ind	Casing: 8 1/4-inch to 330 feet, cemented. Estimated yield 15 gallons a minute. See log.

Well	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
657	--	--	None	N	Casing: 10 3/4-inch to 405 feet, cemented. Screen: 7-inch from 405 to 457 feet. Abandoned. See log.
658	d/146	June 1938	T,E, 15	D,Ind	Casing: 13-inch to 356 feet, cemented; 7-inch from 0 to 458 feet. Screen from 370 to 434 feet. Gravel-walled. Reported yield 100 gallons a minute when drilled. See log.
659	d/ 60	--	T,E, 5	Ind	Casing: 6-inch to 314 feet. Reported sand from 310 to 350 feet and yield 47 gallons a minute.
660	--	--	C,E, 3	D	Casing: 5 1/2-inch to 250 feet and 4-inch to 350 feet. Reported yield 3 gallons a minute.
661	--	--	C,E, $\frac{1}{2}$	D	Casing: 8-inch to 34 feet; 4 1/2-inch from 0 to 221 feet, perforated from 199 to 221 feet. See log.

Records of wells in Gregg County--Continued

Well	Distance from Greggton	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
662	3½ miles west	W. C. Turnbow	-- Adams	1934	390	10, 7	1.2
663	4 miles northwest	White Oak School No. 2	Layne-Texas Co.	1940	470	13- 3/8, 7	1.5
664	4¾ miles north	Greggtex Gasoline Corp.	Bill Boling	1941	161	6½	0
665	do.	do.	W. A. Meller	1934	410	6	0
666	do.	do.	do.	1934	420	6	--
667	8 miles north	Mabee Oil and Gas Co. (H.F.Whitehurst)	--	1932	320	8	--
668	2½ miles north	Leroy Ziegler	--	1937	148	6	--
669	1 mile northwest	H. C. Pederson	--	1937	20	36	--
670	In Greggton	Magnolia Petroleum Co.	Magnolia Petroleum Co.	1933	425	6- 5/8	0
671	do.	do.	--	1931	425	6- 5/8	--
672	do.	LeBus Rotary Tool Works	W. L. Little	1932	250	7	0
673	do.	Trinity Drilling Co.	--	1931	260	--	--
674	1¾ miles east	Royal Crown Bottling Co.	J. C. Boling	1940	550	6	0
675	do.	Jack Nesbitt	--	1931	150+	8	2.0
676	1½ miles southeast	Humble Oil and Refining Co. (E.B.Robertson)	--	--	300+	5	--
677	do.	Humble-Gulf (E.B.Robertson No.1)	Humble-Gulf	1937	10,284	--	--
678	2 miles southeast	Lone Star Gas Co.	Layne-Texas Co.	1941	423	7	0
679	3½ miles south	Humble Oil and Refining Co.	--	1937	300±	6	--
680	In Longview	R. G. Brown	--	1990	580	5	--
681	do.	Texas and Pacific Railway Co.	Texas and Pacific Railway Co.	1892	603	10	--

Well	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
662	137.85	Sept. 29, 1941	T, E, 15	Irr	Casing: 10-inch to 300 feet; 7-inch perforated from 300 to 390 feet. Reported sand from 320 to 390 feet and yield 40 gallons a minute.
663	172.08	Aug. 29, 1941	T, E, 7½	P	Casing: 13-3/8-inch to 360 feet, cemented; 7-inch from 315 to 470 feet. Gravel-walled. Yield 52 gallons a minute with drawdown of 103 feet when drilled. See log. Electrical log in files of the Texas State Board of Water Engineers shows thick sand from 100 to 220 feet and thin sands between 360 and 480 feet.
664	d/ 100	1941	T, E, 3	D	Cased to bottom. Reported yield 15 to 20 gallons a minute. See log.
665	d/ 100	1934	A	Ind	Casing: 6-inch to 390 feet. Reported yield 20 gallons a minute.
666	--	--	A	Ind	Cased to bottom. Reported yield 40 gallons a minute.
667	--	--	C, A	D	Cased to bottom. Reported yield 8 gallons a minute.
668	--	--	C, E, 1	D	Cased to bottom, perforated from 128 to 143 feet.
669	--	--	C, E, 1	D	Dug well.
670	d/ 75	1933	C, E, 5	P	Cased to bottom, perforated from 385 to 425 feet. Reported yield 3 gallons a minute.
671	--	--	None	N	Cased to bottom. Abandoned.
672	d/ 85	1932	C, E, 5	D, Ind	Cased to bottom. Reported yield 9 gallons a minute.
673	--	--	C, E	D	
674	d/ 80	1940	T, E, 3	Ind	Cased to bottom, perforated from 290 to 350 feet. Gravel-walled. Reported yield 60 gallons a minute.
675	84.47	Sept. 10, 1941	C, E	N	Formerly supplied tourist courts. a minute.
676	--	--	A	Ind	Reported yield 60 gallons a minute.
677	--	--	--	--	Oil test. Electrical log from 486 to 1,900 feet in files of the Texas State Board of Water Engineers shows thin sands between 486 and 875 feet.
678	d/ 107	1941	T, A, 80	Ind	Casing: 13-3/8-inch to 302 feet, cemented; 7-inch from 0 to 423 feet. Screens at 313-338, 352-362, 371-381, 385-397, and 402-418 feet. Gravel-walled. Yield 200 gallons a minute with drawdown of 45 feet after 24 hours pumping. See log.
679	--	--	A	Ind	Reported yield 150 gallons a minute.
680	--	--	None	N	Water formerly used by ice factory; not suitable for boilers. Deussen No. 365 e/. See log.
681	--	--	None	N	Water formerly used for the manufacture of ice; not suitable for locomotives. Deussen No. 367 e/. See log.

Records of wells in Gregg County--Continued

Well	Distance from Kilgore	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
682	6½ miles northwest	Sabine School No. 3	O. B. Harris	1940	407	7	--
683	4½ miles northwest	North Chapel Colored School	J. C. Boling	1936	255	4½	--
684	3 miles northwest	Midfield Oil Co. (Benson "A")	Midfield Oil Co.	1937	900+	4	0
685	2½ miles west	Danciger Oil and Refining Co. (McNeeley)	L. O. Gandy	1937	625	6	--
686	2½ miles west	Jacob H. Wood	Jacob H. Wood	1941	3,598	--	--
687	2 miles west	do.	do.	1931	625	6	--
688	2½ miles southwest (In Rusk Co.)	Gulf Oil Corp. (M. E. Peterson)	Layne-Texas Co.	1937	440	16, 3- 5/8	0
689	1¾ miles southwest (In Rusk Co.)	Tide Water Associated Oil Co. (Nat Bean "A")	do.	1933	437	7	0
690	¾ mile west	Tide Water Associated Oil Co. (J.B. Watson)	Fred Fielder	--	932	--	--
691	In Kilgore	Shell Oil Co. (E.W. Willoughby No. 34)	Shell Oil Co.	1941	3,600	--	--
692	do.	Kilgore Drilling Co. (Utzman No. 1)	Kilgore Drilling Co.	1941	1,720	--	--
693	do.	Malcom Crim	Bill Boling	1937	312	5½	--
694	1½ miles east	Doug Godfrey	Doug Godfrey	1933	272	5- 3/16	--
695	1½ miles northeast	J. G. Beard (J.S. Elder No. 9)	J. G. Beard	--	3,588	--	--
696	1½ miles north	Houston Oil Co. (J. S. Elder)	Houston Oil Co.	1933	416	6- 5/8	0
697	1½ miles north	Wickham Packing Co.	J. C. Boling	1940	420	3	0.2
698	2¼ miles north	Tide Water Associated Oil Co. (M. G. Barton)	Layne-Texas Co.	1933	569	7	0
699	4 miles north	Jones-O'Brian (John Lloyd)	Jones-O'Brian	1931	800+	6- 5/8	1.6
700	4¼ miles north	Hughey School	J. C. Boling	1935	190	--	--
701	3¾ miles north	M. B. Hughey	Bill Boling	1938	276	5- 3/16	--
702	3½ miles north	Tide Water Associated Oil Co. (W. Clayton)	Bill Collins	1931	915	6-5/8, 4	3.2

Well	Water level		Date of measurement	Method of lift	Use of water	Remarks
	Below measuring point (ft.)	a/				
682	--	--		C,E, 3	P	Cased to bottom, perforated from 3-4 to 407 feet. Estimated yield 10 gallons a minute.
683	--	--		C,E, 3	P	Cased to bottom. September 1941. See log.
684	d/ 150	1937		C,-	D,Ind	
685	d/ 90	1937		C,E, 10	Ind	Cased to bottom. Reported yield 40 gallons a minute when drilled.
686	--	--		--	--	Oil test. Electrical log in files of Texas State Board of Water Engineers shows several
687	--	--		C,-	D,S, Ind	Cased to sands between 150 and 1,000 feet. bottom.
688	d/ 230	May 29, 1937		T,E, 25	D,Ind	Casing: 16-inch to 340 feet. Screen: 8-5/8-inch from 340 to 440 feet. Reported yield 300 gallons a minute with drawdown of 72 feet after
689	d/ 170	1938		T,E, 20	Ind	Casing: 13-3/8- 24 hours pumping. See log. inch to 260 feet; 7-inch from 0 to 437 feet. Screen from 354 to 437 feet. Gravel-walled. Reported yield 115 gallons a minute. See log.
690	--	--		None	N	See log.
691	--	--		--	--	Oil test. Electrical log in files of Texas State Board of Water Engineers shows several
692	--	--		--	--	Oil test. sands between 107 and 1,000 feet. Electrical log in files of Texas State Board of Water Engineers shows several sands between 100
693	--	--		C,E, 7 1/2	D	Reported yield 23 gallons a and 1,000 feet. minute, January 1942.
694	d/ 40	1938		C,E, 3	D,S	Casing: 12-inch to 100 feet, cemented; 5 1/2-inch from 0 to 271 feet, perforated from 233 to 271 feet. Reported yield 20 gallons a minute, Sep-
695	--	--		--	--	Oil test. Electrical log from tember 1941. 950 to 1,350 feet in files of Texas State Board of Water Engineers shows sand from 970 to 985
696	d/ 50	1933		C,A, 6	D	Cased to bottom, perforated from 367 to feet. 412 feet. Reported yield 7 gallons a minute.
697	134.52	Sept. 25, 1941		T,E, 5	Ind	Cased to bottom. Reported yield 50 gallons a minute.
698	d/ 123	May 24, 1938		T,E, 15	Ind	Casing: 13-3/8-inch to 347 feet, cemented; 7-inch from 0 to 446 feet. Screens at 351-371 and 387-428 feet. Gravel-walled. Yield 105 gallons a minute with drawdown of 125 feet when
699	116.06	Sept. 24, 1941		A,-	N	drilled. Temperature 74° F. See log.
700	d/ 90	1935		C,E, 2	P	
701	--	--		C,E, 3	D	Cased to bottom, perforated from 256 to 276 feet. Reported yield 30 gallons a minute. See
702	125.79	Oct. 21, 1941		A,-	N	Cased to bottom, perforated from 645 to log. 915 feet.

Records of wells in Gregg County--Continued

Well	Distance from Kilgore	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
703	3 miles northeast	A. B. Spear	Layne-Texas Co.	1938	433	7	0
704	4 $\frac{1}{4}$ miles northeast	Danville School	-- Leach	1936	19	96	0
705	9 miles east	Gregg County Air Port	Layne-Texas Co.	1941	603	16, 10	2.0

a/ Plus (+) indicates water level is above ground.

b/ T, turbine; A, air, steam or natural gas lift; H, hand pump or bucket and rope; C, cylinder; G, gasoline; E, electric. Number indicates horsepower.

Well	Water level		Date of measurement	Method of lift	Use of water	Remarks
	Below measuring point (ft.)	a/				
703	d/ 117		July 3, 1933	T, E, 15	D, S, Irr	Casing: 13-3/8-inch to 348 feet, cemented; 6-5/8-inch from 0 to 425 feet. Screen from 355 to 413 feet. Gravel-walled. Yield 88 gallons a minute with drawdown of 173 feet
704	8.8		Sept. 2, 1941	C, E, 1/2	F	Dug well. wher drilled. See log.
705	95.86		Aug. 29, 1941	T, E, 10	D, Ind	Casing: 16-inch to 307 feet, cemented; 10-inch from 0 to 454 feet. Screens at 246-249, 311-331, 357-363, and 413-444 feet. Yield 168 gallons a minute with drawdown of 109 feet after 24 hours pumping. See log. Electrical log in files of the Texas State Board of Water Engineers shows several sands between 55 and 500 feet.

c/ P, public supply; D, domestic; S, stock; Ind, industrial; F, not used.

d/ Water level reported by driller or owner.

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

* This well is located in Upshur County, and is recorded in the Upshur County report; however, it is included here because it is one of the several wells used by the City of Gladewater.

Table of Drillers' Logs, Gregg County, Texas

	Thickness (feet)	Depth (feet)
<u>Well 30</u>		
Tide Water Associated Oil Co. (J. J. Flewellen), 7 $\frac{3}{4}$ miles north of Longview. Layne-Texas Co., driller.		
Sandy soil	3	3
Hard red clay and rock	6	9
Sandy yellow clay	35	44
Yellow sand and streaks of clay	45	89
Dark-brown sand	9	98
Rock	1	99
Brown sand, streaks of shale and boulders	39	138
Sandy green shale	24	162
Sandy brown shale and boulders	33	195
Rock	1	196
Sandy shale	37	233
Shale and streaks of sand	15	248
Rock	1	249
Shale and boulders, streaks of sand	28	277
Hard shale	26	303
Gray sand	12	315
Sandy gray shale	15	330
Gray sand	12	342
Sandy shale	22	364
Sandy streaks of shale	15	379
Fine-grained sand, streaks of shale	40	419
Sand and lignite	7	426
Sandy shale	21	447
Gray sand, good	20	467
Shale	7	474
Gray sand, good	28	502
Sand and shale	12	514
Shale and boulders	27	541
Sandy shale and boulders	38	579
Shale	10	589
Sand and gravel	10	599
Sandy shale	44	643
Sand and shale	22	665
Sand, streaks of shale	30	695
Gray sand	31	726
Rock	2	728
Sand	40	768
Boulders	3	771
Rock	3	774
Gray sand	38	812

	Thickness (feet)	Depth (feet)
<u>Well 62</u>		
Humble Oil and Refining Co. (G. W. Willingham), 7 miles northwest of Longview. Layne-Texas Co., driller.		
Clay	18	18
Sand, fair	28	46
Hard brown sand	25	71
Sandy shale, boulders	59	130
Brown sand	36	166
Shale and boulders	13	179
Coarse-grained white sand	16	195
Sandy shale and boulders	88	283
Shale and lignite	55	338
Black and gray sand	45	383
Sandy shale	7	390

	Thickness (feet)	Depth (feet)
<u>Well 84a</u>		
Judson Grove School, 5 $\frac{1}{2}$ miles north of Longview.		
Red beds	32	32
Water sand	6	38
Blue shale	97	135
Water sand	5	140
Blue shale	8	148
Lime and shell	2	150
Brown shale	60	210
Water sand	8	218
Brown shale	102	320
Water sand	6	326
Blue shale	46	372
Water sand	12	384
Blue shale	10	394

	Thickness (feet)	Depth (feet)
<u>Well 112</u>		
Magnolia Petroleum Co. (W. E. Jones), 7 miles northwest of Longview. Layne-Texas Co., driller.		
Sandy clay	15	15
Blue clay	18	33
Muddy sand	54	87
Shale and boulders	16	103
Sand with layers of shale	26	129
Shale and boulders	15	144
Brown sand	51	195
Shale and boulders	123	318
Shale	13	331

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Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 259--Continued</u>		
Green and white sand	36	125
Shale, lignite and boulders	46	171
Coarse-grained white sand	22	193
Shale and lignite	12	205
Good gray sand	16	221
Lignite and shale	41	262
Shale and boulders	16	278
Fine-grained muddy gray sand	38	316
Gray sand, broken	40	356
Shale and boulders	42	398
Shale and streaks of sand	50	448
Shale and sandy lime	83	531
Streaks of sand and shale	44	575
Shale, lignite, and boulders	19	594
Rock	2	596
Shale, lignite and boulders	73	669
Tough sticky shale	31	700
Sandy lime	25	725

Well 264

City of Gladewater No. 3, in Gladewater. Layne-Texas Co., driller.		
Clay	13	13
Sand	16	29
Sandy shale and lignite	91	120
Shale	35	155
Sand with lignite	22	177
Shale	29	206
Sandy shale	20	226
Rock	5	231
Sandy shale	17	248
Rock	1	249
Sandy shale	31	280
Rock	1	281
Shale	152	433
Shale and boulders	50	483
Sand with layers of shale	20	503
Sandy shale and lignite	57	560

	Thickness (feet)	Depth (feet)
<u>Well 265</u>		
Sinclair-Prairie Oil Co. (W. H. York), $\frac{1}{2}$ mile southwest of Gladewater. Conway Bros., driller.		
Soil	3	3
Sand	19	22
Quicksand	13	35
Blue shale	50	85
White sand	25	110
Lime	8	118
Gray shale	62	180
Brown shale	5	185
Sand	15	200
Brown shale	10	210
Blue shale	35	245
Water sand	20	265
Brown shale	20	285
Gray shale	40	325
Brown shale	25	350
Water sand	10	360
Brown shale	80	440
Water sand	40	480
Shale	135	615
Water sand	25	640
Shale	20	660
Water sand	30	690
Blue shale	22	712
Broken sand	10	722
Blue shale	53	775
Water sand	22	797
Broken sand	6	803
Blue shale	4	807

Well 275

Stanolind Oil Co. (L. E. Pearsons), $5\frac{1}{4}$ miles east of Gladewater. L. W. Little, driller.		
Surface material	3	3
Red clay	8	11
Sandy clay	9	20
Sand	3	23
Sandy shale	24	47
Sand	7	54
Shale	13	67
Sand	1	68
Sand and shale	14	82
Lime	1	83
Sand	11	94
Lime	1	95
Sand	39	134
Shale	18	152

(Continued on next page)

Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 275--Continued</u>		
Sand and lime	19	171
Sand and shale	25	196
Shale	23	219
Sand	50	269
Soft sand	31	300
Lime and hard sand	13	313
Shale	43	356
Sand	44	400
Shale	11	411
Sand	12	423
Shale	71	494
Sand	4	498
Shale	62	560
Sand	18	578
Shale	70	648
Sandy shale	82	730
Sand	12	742
Shale	43	785
Lime	3	788
Shale	28	816
Sand	12	828
Shale	17	845
Sand	11	856
Shale	4	860
Sand	10	870
Lime	2	872

Well 285

Gulf Oil Corp. (M. Smith), 7 miles east of Gladewater.

Surface clay	20	20
Sand	5	25
Shale	4	29
Rock	1	30
Packsand	15	45
Rock	1	46
Sandy shale	18	64
Sandy gumbo	5	69
Hard sand	11	80
Rock	1	81
Shale	39	120
Sand and boulders	18	138
Sandy shale	71	209
Sticky shale	18	227
Sand and lignite	30	257
Hard sand	26	283
Gumbo	4	287
Hard sand	42	329
Sandy shale	32	361
Shale	39	400
Rock	1	401
Sand and shale	39	440

	Thickness (feet)	Depth (feet)
<u>Well 285--Continued</u>		
Sand and shale	40	480
Gumbo	43	523
Hard rock	5	528
Gumbo	30	558
Shale and hard sand	32	590
Hard sand	34	624
White sand	34	658
Gray sand	100	758
White sand	30	788
Sandy gumbo	17	805
Rock	4	809
Hard sand	27	836
Sand	37	873
Sandy shale	20	893
Gumbo	67	960
Gumbo and lime	4	964

Well 290

Tide Water Associated Oil Co. (E. M. Nettleton "A"), 5½ miles east of Gladewater. Mid-Kansas Oil Co., driller.

Clay	10	10
Sand, shale and boulders	632	642
Rock	2	644
Sand and shale	136	780
Water sand	63	843

Well 411

Sinclair-Prairie Oil Co. (W. T. Cole), 6¼ miles northwest of Kilgore. Layne-Texas Co., driller.

Sand	91	91
Blue clay	44	135
Sand	19	154
Sand rock	2	156
Sand	14	170
Shale	17	187
Sand	31	218
Sticky lime	100	318
Sand	10	328
Sticky lime	4	332
Sand	32	364
Lignite	25	389
Sand	11	400
Lignite	18	418
Sand	36	454
Shale	69	523
Sand	11	534
Sticky lime	46	580

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Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 75*</u>		
City of Gladewater No. 4, $1\frac{1}{2}$ miles north-west of Gladewater (in Upshur County), Layne-Texas Co., driller.		
Red clay	10	10
Sand	17	27
Rock	1	28
Black sand	20	54
Rock	1	55
Sand	16	71
Shale and lime	69	140
Shale	68	208
Sand	46	254
Shale	43	300
Blue shale	12	312
Sand	25	337
Blue shale	118	455
*This well is located in Upshur County and is recorded in the Upshur County report; however, it is included here because it is one of the several wells used by the City of Gladewater.		

	Thickness (feet)	Depth (feet)
<u>Well 641</u>		
City of Gladewater No. 5, $\frac{1}{2}$ mile south-west of Gladewater. Layne-Texas Co., driller.		
Surface sand	3	3
Clay	10	13
Shale	121	134
Sand	24	158
Shale	50	208
Sand	60	268
Sandy shale	11	279

	Thickness (feet)	Depth (feet)
<u>Well 642</u>		
Tide Water Associated Oil Co. (W. H. Richey), $1\frac{3}{4}$ miles northeast of Gladewater, Johnson and Sitton, driller.		
Sand, clay, and shale	45	45
Water sand	15	60
Shale and shells	300	360
Water sand	15	375
Shale	149	524
Water sand	76	600

	Thickness (feet)	Depth (feet)
<u>Well 643</u>		
Gulf Oil Corp. (J. H. Bozeman), $2\frac{3}{4}$ miles northeast of Gladewater. R. L. Miles, driller.		
Surface sand	3	3
Red clay	7	10
Sandy clay	25	35
Sandy clay and gravel	66	101
Sand and gravel	59	160
Rock	1	161
Rock, sand, and gravel	74	235
Lignite	10	245
Fine-grained sand and gravel	54	299
Fine-grained sand	44	343
Fine-grained sand and gravel	131	474
Sand and boulders	65	539
Rock	2	541
Fine-grained sand	67	608
Coarse-grained water sand	42	650
Fine-grained sand	57	707
Sandy shale	10	717
Fine-grained sand	33	750
Sand and lignite	62	812
Rock	1	813
Fine-grained sand	17	830
Coarse-grained water sand and gravel	6	836
Sandy shale	187	1023

	Thickness (feet)	Depth (feet)
<u>Well 645</u>		
Gulf Oil Corp. (I. O. Sheppard), $2\frac{1}{2}$ miles southeast of Gladewater, H. L. Taylor, driller.		
Surface soil	3	3
Red clay	12	15
Blue shale	10	25
Quicksand	15	40
Blue shale	12	52
Hard sand rock	3	55
Blue shale	12	67
Hard sand rock	2	69
(Continued on next page)		

Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 645--Continued</u>		
Sandy shale	14	83
Hard sand rock	3	86
Sandy shale	54	140
Blue shale	100	240
Gray sandy shale	21	261
Brown shale	22	283
Water sand	11	294
Sandy shale	10	304

<u>Well 646</u>		
Gulf Oil Corp. (M. O. Sheppard), $2\frac{1}{2}$ miles southeast of Gladewater. Bill Boling, driller.		
Clay	31	31
Quicksand	14	45
Gray shale	30	75
Blue shale	20	95
Gray shale	105	200
Blue shale	25	225
Brown shale	40	265
Blue shale	15	280
Water sand	25	305

<u>Well 647</u>		
Gulf Oil Corp. (F. M. Fonville), $1\frac{3}{4}$ miles southeast of Gladewater. Bill Boling, driller.		
Surface sand	63	33
Lime and shell	1	34
Brown shale	8	72
Blue shale	24	96
Sandy gray shale	89	185
Blue shale	32	217
Water sand	28	245
Brown shale	13	258

<u>Well 648</u>		
Gulf Oil Corp. (E. L. Walker), $3\frac{1}{2}$ miles southeast of Gladewater. Bill Boling, driller.		
Sand	38	38
Black shale	28	66
Lime and shell	2	68
Blue shale	12	80
Water sand	19	99
Gray shale	5	104

	Thickness (feet)	Depth (feet)
<u>Well 649</u>		
Erle P. Halliburton, Inc. (W. D. Lacy "P"), $3\frac{1}{2}$ miles southeast of Gladewater. Den Ferr, driller.		
Surface clay	45	45
Red sand	20	65
Shale and sand	25	90
Sand rock	2	92
Sand and boulders	8	100
Gravel	26	126
Sandy shale	26	152
Rock	2	154
Shale	11	165
Shale and boulders	15	180
Water sand	85	265
Lignite	2	267
Sand rock	2	269
Lignite	2	271
Hard shale	43	314
Packsand	31	345
Brown shale	15	360
Sandy shale	22	382
Hard sand	23	405
Shale and boulders	33	438
Water sand	31	469
Sandy gravel	40	509
Packsand	10	519
Hard shale	28	547
Packsand	13	560
Hard shale	18	578
Sand	20	598
Hard shale	34	632
Brown shale	39	671
Water sand	52	723
Sandy shale	42	763

<u>Well 650</u>		
Gulf Oil Corp. (J. C. Judge), $5\frac{1}{2}$ miles southeast of Gladewater. H. L. Taylor, driller.		
Surface clay, sand and boulders	60	60
Sandy shale	17	77
Black shale and boulders	68	145
Shale and boulders	6	151
Sandy shale	83	234
Water sand	15	249
Coarse-grained water sand	7	256

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Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 650--Continued</u>		
Fine-grained hard sand	19	275
Shale	3	278
Coarse-grained hard sand	16	294
Fine-grained hard sand	8	302

<u>Well 651</u>		
Atlantic Refining Co., 5 miles south-east of Gladewater. J. C. Boling, driller.		
Surface soil	150	150
Shale	138	288
Water sand	14	302
Shale	8	310
Water sand	15	325
Shale	15	340

<u>Well 654</u>		
Sinclair-Prairie Oil Co. No. 2 (D. Moore), 5 miles southeast of Gladewater. W. A. Meller, driller.		
Surface sand and clay	17	17
Surface sand	26	43
Sand	54	97
Gumbo and boulders	44	141
Shale	28	169
Water sand	55	224
Shale, gumbo and boulders	116	340
Water sand	11	351
Gumbo	15	366
Water sand	16	382
Gumbo	33	415
Water sand	8	423
Gumbo	14	437
Water sand	21	458
Gumbo	18	476

<u>Well 655</u>		
Sinclair-Prairie Oil Co. No. 3 (D. Moore), 5 miles southeast of Gladewater. W. A. Meller, driller.		
Surface clay	12	12
Surface sand	35	47
Shale and boulders	132	179
Water sand	55	234
Gumbo	7	241

	Thickness (feet)	Depth (feet)
<u>Well 656</u>		
Sinclair-Prairie Oil Co. No. 4 (D. Moore), 5 miles southeast of Gladewater. W. A. Meller, driller.		
Surface clay and sand	13	13
Surface sand	54	67
Sandy shale	51	118
Gumbo and boulders	68	186
Shale and gumbo	148	334
Water sand	19	353
Gumbo	18	371
Water sand	37	408
Gumbo and shale	48	456

<u>Well 657</u>		
Tide Water Associated Oil Co. (E. M. Nettleton "A"), 3½ miles west of Greggton. W. A. Meller, driller.		
Surface sand and clay	30	30
Surface sand	32	62
Rock	1	63
Sand and rock	18	81
Gumbo	4	85
Sand	37	122
Sandy shale	55	177
Gumbo	8	185
Rock	1	186
Gumbo	16	202
Sand and shale	68	270
Blue sand	52	322
Rock	1	323
Blue sand	32	405
Sand	38	443
Hard shale	7	450
Shale	7	457
Well sandered up, could not pull casing, another well drilled at camp.		

<u>Well 658</u>		
Tide Water Associated Oil Co. No. 2 (E. M. Nettleton "A"), 3¾ miles west of Greggton. Layno-Texas Co., driller.		
Sandy clay	15	15
Sand	13	28
Rock	1	29
Sand	43	72
Rock	1	73
Hard sand	44	117
Shale	22	139

(Continued on next page)

Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 658--Continued</u>		
Sand with shale breaks	23	162
Hard shale	44	206
Sandy shale	45	251
Shale and lignite	23	274
Good sand	22	296
Sandy shale	22	318
Sand rock	33	351
Rock	2	353
Shale	8	361
Good sand	80	441
Shale	17	458

<u>Well 661</u>		
Gulf Oil Corp. (Lacy-Snyder), 3 miles northwest of Greggton. Bill Boling, driller.		
Clay	25	25
Quicksand	13	38
Black shale	16	54
Blue shale	26	80
Gray shale	25	105
Brown shale	15	120
Blue shale	58	178
Sandy lime	4	182
Brown shale	13	195
Water sand	25	220
Brown shale	8	228

<u>Well 663</u>		
White Oak School No. 2, 4 miles northwest of Greggton. Layne-Texas Co., driller.		
Soil and clay	13	13
Yellow sand	14	27
Shale	16	43
Sand	52	95
Rock	1	96
Sand and breaks of shale	23	119
Sandy shale and boulders	17	136
Rock	1	137
Sandy shale	24	161
Shale and lignite	36	197
Sandy lime and shale	24	221
Shale and boulders	18	239

	Thickness (feet)	Depth (feet)
<u>Well 663--Continued</u>		
Rock	1	240
Herd sand, lime and rock layers	27	267
Shale and lignite	69	336
Rock	1	337
Shale and lignite	27	364
Sand	18	382
Shale	2	384
Sandy shale	11	395
Rock	1	396
Shale and lignite	9	405
Rock	1	406
Fine-grained hard sand	30	436
Shale and lignite	13	449
Rock	1	450
Shale and lignite	19	469
Shale	15	484
Shale and lignite	72	556
Rock	2	558
Shale and lignite	11	569
Sand and sandy shale	28	597
Shale and lignite	25	622

<u>Well 664</u>		
Greggtex Gasoline Corp., 4 $\frac{3}{4}$ miles north of Greggton. Bill Boling, driller.		
Red clay	12	12
Yellow sand, 2 gallons a minute	43	55
Shale	60	115
Coarse-grained gray water sand	25	140
Shale	21	161

<u>Well 678</u>		
Lone Star Gas Co., 2 miles southeast of Greggton. Layne-Texas Co., driller.		
Soil	1	1
Red sand, clay and iron boulders	15	16
Dark-gray shale	2	18
Sharp gray sand	11	29
Shale and fine-grained gray sand	39	68
Gray sand with thin streaks of lignite	25	93
Gray sandy shale with layers of rock	20	113

(Continued on next page)

Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 678--Continued</u>		
Hard shale and lignite	9	122
Sandy shale and lignite	5	127
Shaly hard sand and lignite	9	136
Sandy shale and lignite	17	153
Gray sand	6	159
Gray shale	35	194
Sand and shale	63	257
Shale	5	262
Sand and shale	9	271
Sand, hard layers of boulders	4	275
Coarse-grained smooth gray sand	28	303
Sharp light-gray sand and layers of shale	25	328
Sharp sand and layers of shale	10	338
Shale and streaks of sand	6	344
Sand rock	3	347
Shale and sand breaks	8	355
Sand and streaks of shale	7	362
Shale	4	366
Clean sharp gray sand	15	381
Shale	2	383
Clean sharp gray sand	12	395
Gray sand, few thin streaks of shale and lignite	7	402
Clean sharp gray sand	20	422
Breaks of sand, shale and lignite	3	425
Gray sand	38	463
Fine-grained hard gray sand with streaks of shale	54	517
Fine-grained gray sand with thin layers of shale and lignite	26	543
Shale, sand breaks and lignite	15	558

	Thickness (feet)	Depth (feet)
<u>Well 680</u> (Deussen No. 365 a/)		
R. G. Brown, in Longview.		
Mount Selman formation:		
Sand and clay	90	90
Wilcox formation:		
Lignite	10	100
Shale	2	102
Blue sand	150	252
Interstratified rock and clay	100	352
Gray water sand; water did not rise to surface; cased off	98	450
Clay (?)	?	
Water-bearing sand	?	580
a/ Number under which well is listed in U. S. Geol. Survey Water-Supply Paper 335, Alexander Deussen, 1914.		

	Thickness (feet)	Depth (feet)
<u>Well 681</u> (Deussen No. 367 a/)		
Texas and Pacific Railway Co., in Longview. Texas and Pacific Railway Co., driller.		
Mount Selman formation:		
Clay	35	35
Limestone (probably sandstone)	10	45
Wilcox formation:		
Shale	31	76
Sand rock	72	148
Black shale	8	156
Shale	44	200
Sand rock	20	220
Shale	25	245
Sand rock	24	269
Shale	73	345
Slate	25	370
Shale	110	480
Slate	11	491
Sand rock	19	510
Sand	12	522
Shale	45	567
Pecksand	36	603
a/ Number under which well is listed in U. S. Geol. Survey Water-Supply Paper 335, Alexander Deussen, 1914.		

Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 682</u>		
Sabine School No. 3, $6\frac{1}{2}$ miles northwest of Kilgore. O. B. Harris, driller.		
Shale	15	15
Quicksand	13	28
Sandy shale	42	70
Quicksand	32	102
Brown shale	23	125
Blue shale	17	142
Water sand	6	148
Brown shale	32	180
Blue shale	72	252
Water sand	8	260
Blue shale	135	395
Water sand	7	402
Brown shale	5	407

	Thickness (feet)	Depth (feet)
<u>Well 683</u>		
North Chapel Colored School, $4\frac{1}{2}$ miles northwest of Kilgore. J. C. Boling, driller.		
Surface material	35	35
Quicksand	60	95
Shale	125	220
Water sand	15	235
Shale	20	255

	Thickness (feet)	Depth (feet)
<u>Well 688</u>		
Gulf Oil Corp. (M. E. Peterson), $2\frac{1}{2}$ miles southwest of Kilgore (Rusk County). Layno-Texas Co., driller.		
Surface soil	4	4
Clay	3	7
Sand	15	22
Clay	32	54
Shale	5	59
Sand	8	67
Shale	33	100
Rock	2	102
Shale	16	118
Sand	18	136
Shale	4	140
Rock	1	141
Shale	13	154
Sandy shale	9	163
Rock	2	165
Shale and boulders	25	190
Shale and layers of sand	23	213
Hard shale	20	233
Shale and lignite	29	262
Sand	15	277

	Thickness (feet)	Depth (feet)
<u>Well 688--Continued</u>		
Sandy shale	8	285
Sand	16	301
Sandy shale	45	346
Sand	94	440

	Thickness (feet)	Depth (feet)
<u>Well 689</u>		
Tide Water Associated Oil Co. (Nat Been "A"), $1\frac{1}{4}$ miles southwest of Kilgore (Rusk County). Layno-Texas Co., driller.		
Red clay	25	25
Rock	1	26
Gray sand	28	54
Rock	1	55
Soft brown shale	47	102
Soft gray shale and fine-grained sand	60	162
Soft gray shale	91	253
Fine-grained light-gray sand	39	292
Soft shale	5	297
Light-gray sand	55	352
Soft shale	7	359
Good water sand	10	369
Soft shale and thin layers of sand	28	397
Good water sand	16	413
Hard blue shale	24	437

	Thickness (feet)	Depth (feet)
<u>Well 690</u>		
Tide Water Associated Oil Co. (J. B. Watson), $\frac{3}{4}$ mile west of Kilgore. Fred Fiedler, driller.		
Sandy clay	38	38
Shale and gumbo	232	270
Shale and lignite	15	285
Sand and boulders	15	300
Blue gumbo	40	340
Rock	2	342
Sand, shale and lignite	58	400
Gray shale	65	465
Sandy shale	75	540
Blue shale	134	674
Sand and shale	41	715
Water sand	217	932

	Thickness (feet)	Depth (feet)
<u>Well 698</u>		
Tide Water Associated Oil Co. (M. G. Berton), $2\frac{1}{2}$ miles north of Kilgore. Layno-Texas Co., driller.		
Yellow clay	25	25

Table of Drillers' Logs, Gregg County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 698--Continued</u>		
Sand	3	28
Shale	43	71
Rock	2	73
Sandy shale	5	78
Rock	1	79
Sandy shale	16	95
Rock	1	96
Hard shale	251	347
Sand and breaks of shale	27	374
Shale	9	383
Sand and breaks of shale	49	432
Sandy shale	69	501
Sand	25	526
Sandy shale	43	569

Well 701

M. B. Hughey, $3\frac{3}{4}$ miles north of Kilgore.
Bill Boling, driller.
Surface clay and shale

shale	240	240
Sand	15	255
Shale	21	276

Well 703

A. B. Spear, 3 miles northeast of Kilgore. Layne-Texas Co., driller.

Red sandy clay	10	10
Red sand	3	13
Yellow clay	15	28
Rock	1	29
Sand	10	39
Rock	1	40
Sand	5	45
Rock	1	46
Sand	9	55
Rock	2	57
Sand	56	113
Shale	5	118
Lignite and shale	46	164
Hard shale	42	206
Sandy shale	14	220
Rock	1	221
Sand rock	9	230
Sandy shale	46	276
Good sand	45	321
Shale	30	351
Rock	1	352
Good sand	69	421
Shale	12	433

	Thickness (feet)	Depth (feet)
<u>Well 705</u>		
Gregg County Air Port, 9 miles east of Kilgore. Layne-Texas Co., driller.		
Red clay	12	12
Sandy clay	11	23
Gray sand	5	28
Gray shale	22	50
Rock	2	52
Hard shale and rock	4	56
Brown sand and lignite	17	73
Rock	2	75
Sand and lignite	3	78
Hard brown sand	9	87
Rock	1	88
Hard brown sand	8	96
Hard gray sand	17	113
Hard gray shale and streaks of sand	61	174
Gray shale and streaks of sand	33	207
Gray shale	42	249
Gray shale and streaks of sand	17	266
Rock	1	267
Gray shale and streaks of sand	39	306
Gray sand and streaks of shale, water	25	331
Shale	19	350
Gray sand, water	17	367
Gray shale and streaks of lignite	21	388
Sandy shale	7	395
Gray sand and streaks of shale	7	402
Shale	3	405
Gray sand and streaks of shale, water	37	442
Broken sand and shale	22	464
Gray sand	10	474
Rock	2	476
Sand and shale	14	490
Sandy shale and lignite	46	536
Shale and lignite	11	547
Sandy shale and lignite	5	552
Shale and lignite	8	560
Sandy shale and lignite	43	603

Partial analyses of water from wells in Gregg County, Texas

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

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)
30	Tide Water Associated Oil Co. (J. J. Flewellen)	812	Mar. 23, 1936	2,299	12	4
62	Humble Oil and Refining Co. (G. W. Willingham)	390	June 15, 1936	323	c/	4
84a	Judson Grove School	394	July 29, 1936	50	-	-
112	Magnolia Petroleum Co. (W. E. Jones)	811	Mar. 19, 1936	1,983	12	3
178	Dr. -- Hurst	348	June 1, 1936	128	28	26
214	Humble Oil and Refining Co. (W. W. Holland)	1,084	Mar. 31, 1936	967	6	4
258	City of Gladewater No. 1	826	Apr. 27, 1936	1,199	5	6
259	City of Gladewater No. 2	388	do.	663	6	-
259	do.	388	--	-	-	-
264	City of Gladewater No. 3	213	Mar. 30, 1936	854	6	4
265	Sinclair Prairie Oil Co. (W. H. York)	807	Apr. 29, 1936	2,427	c/	-
275	Stanolind Oil and Gas Co. (L. E. Pearsons)	872	Apr. 6, 1936	2,575	5	9
285	Gulf Oil Corp. (M. Smith)	964	Oct. 7, 1941	1,738	c/	5.1
290	Tide Water Associated Oil Co. (E. M. Nettleton "A")	843	Mar. 27, 1936	1,725	c/	3
411	Sinclair-Prairie Oil Co. (M. T. Cole)	1,008	Apr. 29, 1936	1,981	-	4
468	City of Kilgore No. 4	780	Apr. 14, 1936	1,688	6	a/
468	do.	780	Oct. 8, 1941	1,595	c/	-
469	City of Kilgore No. 1	975	Apr. 14, 1936	1,683	6	4
469	do.	875	-	1,732	10	-
469	do.	-	-	-	-	-
469	do.	875	Oct. 3, 1941	1,777	-	3.9
470	City of Kilgore No. 3	906	Apr. 14, 1936	2,084	6	9
470	do.	906	Oct. 3, 1941	1,826	-	5.1
471	Humble Oil and Refining Co. (S. S. Laird "B")	908	Apr. 15, 1936	732	6	3
471	do.	908	-	951	15	3
471	do.	-	-	-	-	-
476	Shell Oil Co., Inc. (W.W.Elder)	500	Apr. 13, 1936	443	-	4
503	D. H. Jones	467	June 30, 1936	2,028	c/	4
525	Magnolia Pipe Line Co.	218	Apr. 24, 1936	536	c/	4
531	Atlantic Pipe Line Co.	365	do.	680	-	-
607	United Gas Public Service Co.	378	June 24, 1936	1,111	7	6
d/641	City of Gladewater No. 5	279	Jan. 22, 1942	687	11	a/
*75	City of Gladewater No. 4	294	Apr. 4, 1940	766	-	-
*75	do.	294	Jan. 22, 1942	871	32	6.1
644	J. H. Bozeman	400	Sept. 18, 1941	102	11	5.1
645	Gulf Oil Corp. (A. O. Sheppard)	304	Sept. 2, 1941	550	12	a/

a/ Less than 3 parts per million.
 b/ Less than 20 parts per million.
 c/ Less than 5 parts per million.

Well	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
30	872	360	-	1,234	-	-	47
62	120	159	19	98	-	-	27
84a	-	36	-	13	-	-	-
112	777	463	-	960	-	-	40
178	-	6	8	63	-	-	176
214	372	244	40	425	-	-	32
258	473	537	21	430	-	-	39
259	266	402	23	170	-	-	15
259	-	-	30	132	-	-	20
264	337	513	35	220	-	-	32
265	973	573	-	1,170	-	-	4
275	1,020	775	-	1,160	-	-	50
285	696	726	3	670	1.8	-	33
290	698	757	-	650	-	-	17
411	800	751	8	800	-	-	16
468	678	720	8	640	-	-	27
468	636	604	23	630	0.5	-	27
469	674	720	-	645	-	-	32
469	665	677	60	588	-	-	25
469	-	588	10	595	-	-	2
469	711	598	27	740	0.7	-	17
470	826	743	-	880	-	-	50
470	728	586	23	780	0.6	-	23
471	295	604	29	102	-	-	27
471	335	639	34	155	-	-	30
471	-	-	25	140	-	-	12
476	184	457	21	14	-	-	16
503	808	555	-	940	-	-	22
525	217	525	37	18	-	-	22
531	292	732	8	20	-	-	1
607	439	665	42	290	-	-	44
641	267	451	34	150	0.4	b/	37
*75	311	394	26	238	0	3.0	28
*75	311	427	30	282	0.2	b/	104
644	21	31	2	48	.3	b/	48
645	216	512	31	36	.6	b/	36

d/ Analyses of water from selected wells are given in milligram equivalents per liter on page 34.

* This well is located in Upshur County, and is recorded in the upshur County report; however, it is included here because it is one of the several wells used by the City of Gladewater.

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

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)
d/646	Gulf Oil Corp. (M. J. Sheppard)	305	Jan. 22, 1942	276	47	4.9
647	Gulf Oil Corp. (F. N. Fonville)	258	do.	488	6.0	7.3
d/649	E. P. Halliburton Inc. (W. D. Lacy "B")	485	do.	455	c/	a/
650	Gulf Oil Corp. (J. C. Judge)	302	Aug. 28, 1941	462	c/	a/
651	Atlantic Refining Co. (Martin Hays)	340	do.	505	c/	a/
652	Atlantic Refining Co. (S. C. Fishburn)	214+	Sept. 23, 1941	801	c/	a/
d/653	Superior Oil Co. (W. E. Pasture)	512	Sept. 18, 1941	815	c/	a/
654	Sinclair-Prairie Oil Co. No. 2 (D. Moore)	476	Aug. 27, 1941	667	8.4	3.9
655	Sinclair-Prairie Oil Co. No. 3 (D. Moore)	241	do.	469	c/	a/
656	Sinclair-Prairie Oil Co. No. 4 (D. Moore)	456	do.	669	c/	a/
d/658	Tide Water Associated Oil Co. No. 2 (E. M. Nettleton "A")	458	Aug. 28, 1941	538	8.4	a/
659	Texas-Empire Pipe Line Co. (E. M. Nettleton "A")	375	Oct. 21, 1941	680	7.2	3.4
660	Atlantic Refining Co. (P. B. Harris)	362	Sept. 17, 1941	630	6.0	a/
661	Gulf Oil Corp. (Lacy-Snyder)	228	Jan. 22, 1942	475	11	a/
d/663	White Oak School No. 2	470	Aug. 29, 1941	706	c/	3.9
d/664	Greggtex Gasoline Corp.	161	Jan. 22, 1942	161	14	8.5
665	do.	410	do.	1,147	13	6.1
d/666	do.	420	do.	1,175	24	6.1
d/667	Mabee Oil and Gas Co. (H. F. Whitehurst)	320	Nov. 20, 1941	400	c/	a/
668	Leroy Ziegler	148	Sept. 19, 1941	183	21	12
669	H. C. Pederson	20	Aug. 29, 1941	22	c/	a/
d/670	Magnolia Petroleum Co.	425	Sept. 11, 1941	1,350	8.8	5.1
672	LeBus Rotary Tool Works	250	Sept. 10, 1941	1,335	20	3.9
674	Royal Crown Bottling Co.	350	do.	1,584	12	3.9
676	Humble Oil and Refining Co. (E. B. Robertson)	300+	Sept. 3, 1941	100	6.4	a/
d/678	Lone Star Gas Co.	423	Oct. 1, 1941	1,673	6.4	a/
679	Humble Oil and Refining Co.	300+	Sept. 8, 1941	723	c/	3.9
682	Sabine School No. 3	407	Sept. 11, 1941	376	c/	a/
d/683	North Chapel Colored School	255	do.	186	19	5.1
d/684	Midfield Oil Co. (Benson "A")	900±	Sept. 25, 1941	696	c/	a/
685	Danciger Oil and Refining Co. (McNeeley)	625	do.	368	12	a/
d/687	Jacob H. Wood	625	Sept. 5, 1941	411	8	a/
688	Gulf Oil Corp. (M. E. Peterson)	440	Aug. 28, 1941	359	8	a/
689	Tide Water Associated Oil Co. (Nat Bean "A")	437	Oct. 4, 1941	389	c/	a/
d/693	Malcom Crim	312	Jan. 21, 1942	424	c/	a/
694	Doug Godfrey	272	Sept. 3, 1941	461	c/	a/
696	Houston Oil Co. (J. S. Elder)	116	Jan. 13, 1942	1,950	117	60
d/698	Tide Water Associated Oil Co. (M. G. Barton)	569	Sept. 25, 1941	513	c/	a/
d/700	Hughey School	190	Sept. 11, 1941	456	c/	a/

Well	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
646	52	207	52	18	.2	b/	138
647	187	451	30	36	.1	b/	45
649	187	433	25	24	-	b/	11
650	185	445	31	20	-	b/	22
651	207	506	10	31	.9	b/	22
652	336	634	12	140	-	b/	1
653	336	610	18	158	-	b/	12
654	267	592	14	83	-	b/	37
655	189	397	27	52	.2	b/	16
656	279	604	14	74	.9	b/	10
658	213	506	31	34	-	b/	32
659	273	586	15	93	.2	b/	32
660	255	506	16	102	-	b/	21
661	187	482	15	22	.3	b/	36
663	291	580	12	113	.7	b/	17
664	37	122	20	21	.1	b/	70
665	429	250	20	550	.2	b/	69
666	433	250	26	562	.3	b/	84
667	165	293	8	80	.5	b/	5
668	29	37	27	76	-	b/	103
669	2.3	13	2	3.0	-	b/	16
670	520	262	27	660	-	b/	43
672	502	226	27	670	-	b/	67
674	615	336	2	785	-	b/	47
676	26	37	31	16	-	b/	27
678	662	427	2	790	.3	b/	27
679	297	616	5	110	1.2	b/	22
682	155	354	31	14	.4	b/	5
683	48	146	20	22	.1	b/	68
684	297	708	15	35	1.0	b/	1
685	134	305	35	34	.2	b/	42
687	163	421	23	8.0	-	b/	26
688	140	354	27	8.0	-	b/	26
689	158	372	38	6.0	-	b/	10
693	172	397	41	10	.4	b/	11
694	184	421	54	10	-	b/	16
696	443	250	1,104	102	.3	b/	537
698	207	506	35	15	-	b/	22
700	185	415	46	16	1.0	b/	11

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

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)
701	M. B. Hughey	276	Sept. 11, 1941	502	c/	a/
703	A. B. Spear	433	Sept. 5, 1941	565	7.6	a/
d/704	Danville School	19	Sept. 2, 1941	102	12	9.7
d/705	Gregg County Air Port	603	do.	673	c/	5.1
**176	J. W. Johnson (H. W. Norvell)	20	Oct. 27, 1941	86	7.6	6.1
**481	Tide Water Associated Oil Co. (J. M. Blackman)	955	--	1,507	0.4	2.7

- a/ Less than 2 parts per million.
b/ Less than 20 parts per million.
c/ Less than 5 parts per million.

Well	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
701	201	476	42	18	-	b/	22
703	231	573	31	13	.4	b/	20
704	8.5	37	46	8.0	.1	b/	71
705	272	549	38	86	.5	b/	23
176	8.7	6	3	14	0.1	b/	44
463	607	622	31	560	-	0	12

d/ Analyses of water from selected wells are given in milligram equivalents per liter on page 34.

* This well is in Upshur County, and is recorded in the Upshur County report; however, it is included here because it is one of the several wells used by the City of Gladewater.

** Well records in Gregg County publication for February 15, 1937.

Chemical Analyses--Continued
Results are in milligram equivalents per liter

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO ₃)	Sul- fate (SO ₄)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO ₃)	Total hardness as CaCO ₃ (calc.)
641	City of Gladewater No.5	279	Jan. 22, 1942	0.54	0.20	11.61	7.40	0.72	4.23	0.02	0	0.74
646	Gulf Oil Corp. (M. O. Sheppard)	305	do.	2.36	0.40	2.25	3.40	1.092	0.51	0.01	0	2.76
649	F. P. Halliburton	485	do.	0.12	0.10	8.12	7.10	0.52	0.68	-	0.04	0.22
653	Superior Oil Co. (S. C. Fishburn)	512	Sept. 18, 1941	0.02	0.22	14.59	10.00	0.37	4.46	-	-	0.24
658	Tide Water Associated Oil Co. No. 2	458	Aug. 28, 1941	0.42	0.22	9.26	8.30	0.64	.96	-	-	0.64
663	White Oak School No. 2	470	Aug. 29, 1941	0.02	0.32	12.64	9.50	0.25	3.19	0.04	-	0.34
664	Greggtex Gasoline Corp.	161	Jan. 22, 1941	0.70	0.70	1.62	2.00	0.42	0.59	0.005	0	1.40
666	do.	420	do.	1.18	0.50	18.84	4.10	0.546	15.85	0.015	0	1.68
667	Mabee Oil and Gas Co.	320	Nov. 20, 1941	0.06	0.04	7.13	4.80	0.17	2.26	0.03	0.02	0.10
670	Magnolia Petroleum Co.	425	Sept. 11, 1941	0.44	0.42	22.61	4.30	0.56	18.61	-	-	0.36
678	Lone Star Gas Co.	423	Oct. 1, 1941	0.32	0.22	28.78	7.00	0.04	22.28	0.015	-	0.54
683	North Chapel Colored School	255	Sept. 11, 1941	0.94	0.42	2.08	2.40	0.42	0.62	0.005	-	1.36
687	Jacob H. Wood (McNeeley)	625	Sept. 3, 1941	0.40	0.12	7.09	6.90	0.48	.23	-	-	0.52
693	Malcom Crim	312	Jan. 21, 1942	0.12	0.10	7.46	6.50	0.858	0.28	0.02	0.02	0.22
698	Tide Water Associated Oil Co. (M.G. Barton)	569	Sept. 25, 1941	0.22	0.22	9.00	8.30	0.72	0.42	-	-	0.44
700	Hughey School	190	Sept. 11, 1941	0.10	0.12	8.04	6.80	0.96	0.45	0.05	-	0.22
704	Danville School	19	Sept. 2, 1941	0.62	0.80	0.37	0.60	0.96	.23	0.005	-	1.42
705	Gregg County Air Port	603	do.	0.04	0.42	11.80	9.00	0.80	2.43	0.03	-	0.46

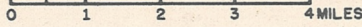
MAP OF GREGG COUNTY, TEXAS

SHOWING WATER WELLS LISTED IN THIS REPORT

(SUPPLEMENTAL TO WELLS LISTED IN REPORT OF FEB. 15, 1937)

TEXAS BOARD OF
WATER ENGINEERS
IN COOPERATION WITH
U.S. GEOLOGICAL SURVEY

SCALE



— EXPLANATION —

- ◊ 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

