

**TEXAS BOARD OF WATER ENGINEERS**

C. S. Clerk, Chairman  
A. H. Dunlap, Member  
J. W. Pritchett, Member



**RUSK COUNTY, TEXAS**

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

**SEPTEMBER 1943**

RUSK COUNTY, TEXAS

(Northwestern part)

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

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Introduction

By

C. R. Fallett

This publication covers a part of the East Texas oil field and adjacent area in the northwestern part of Rusk County, and is supplementary to one that was released for the entire county by the Texas Board of Water Engineers on September 25, 1937. It contains records of 161 wells, drillers' logs of 81 wells, and results of chemical analyses of water from 121 wells in Rusk 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 copied from the 1937 publication but 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. F. Schuch, 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 46 to 55. For the convenience of those who prefer a different form of expression the analyses of 19 samples are given in milligram equivalents per liter on page 56.

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 Dr. C. S. Clark, Chairman, Texas State Board of Water Engineers, 302 West 15th Street, Austin, Texas.

Records of wells in Rusk County, Texas  
 All wells are drilled unless otherwise stated in remarks  
 (Wells listed in report of September 25, 1937)

Well	Location	Owner	Driller	Date	Depth com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Height of measuring point above ground (ft.)
1	2 miles northwest of Laird Hill	Tide Water Associated Oil Co. No. 2. (J. R. Beall)	--	1931	972	8 $\frac{1}{2}$ , 6	--	
16a	In Overton	City of Overton No. 1	Layne-Texas Co.	1931	889	10	1.5	
27b	1 $\frac{1}{4}$ miles north- west of London	Magnolia Petroleum Co. (G. W. Eaton)	do.	1931	444	6- 5/8	2.0	
31a	1 $\frac{1}{2}$ miles northwest of Sexton City	Shell Oil Co. Inc. (W. P. Moore)	do.	1931	369	12 $\frac{1}{2}$	2.5	
31b	do.	Tide Water Associated Oil Co. No. 2. (W. P. Moore)	L. W. Little	1931	820	6- 5/8	--	
32	2 miles northwest of Sexton City	Gulf Pipe Line Co. (W. Florence)	Benson Drilling Co.	1931	1,033	8, 5-3/16	--	
39	1 $\frac{3}{4}$ miles southwest of Laird Hill	Tide Water Associated Oil Co. No. 1. (M. R. Terrell)	--	1931	242	8 $\frac{1}{2}$	--	
43	$\frac{3}{4}$ mile north of Laird Hill	Gulf Oil Corp. No. 2 (M. E. Peterson)	Fred Fielder	1934	922	12 $\frac{1}{2}$ , 4 $\frac{3}{4}$	--	
44	1 $\frac{1}{4}$ miles northeast of Laird Hill	Tide Water Associated Oil Co. No. 1. (Nat Bean)	L. W. Little	1931	676	6- 5/8	--	
47	1 $\frac{1}{4}$ miles southwest of Laird Hill	Humble Oil and Refining Co. (L. D. Crimm)	Layne-Texas Co.	1931	807	6	--	
47a	1 $\frac{1}{2}$ miles southeast of Laird Hill	Magnolia Petroleum Co. (Dick Wells)	do.	1931	862	12 $\frac{1}{2}$ , 6	--	
51a	1 $\frac{1}{2}$ miles northwest of Sexton City	Gulf Oil Corp. (C. M. Jernigan)	McQueen and Clevenger	1931	145	6- 5/8	4.5	
88	1 $\frac{1}{2}$ miles west of Laird Hill	Humble Oil and Refining Co. No. 2 (J. N. Peterson)	W. B. Hamilton	1934	835	10 $\frac{3}{4}$	1.0	

a/ A, air or natural gas lift; T, turbine; C, cylinder; G, natural gas or gasoline engine; E, electric. Number indicates horsepower.

Chemical analyses of water from some of these wells are shown in a table of analyses on pages 46 to 56.

Well	Water level		Method of lift	Use of water	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
1	2/ 60	1936	A	Ind	--	Casing: 729 feet of 8 $\frac{1}{2}$ -inch; 243 feet of 6-inch. Screen from 920 to 972 feet. Same as well 486 in Gregg County report of 1937. See log.
16	149.75	Mar. 19, 1936	T,E	P	175	Casing: 887 feet of 10-inch. Screen from 247 to 268, 283 to 328, 484 to 505, and 241 to 363 feet. This well and well 652 supply the city of Overton.
	144.41	Nov. 26, 1940				
22b	183.70	May 7, 1940	None	N	--	Casing: 440 feet of 6-5/8-inch. Screen from 246 to 334 feet. See log.
31a	73.21	Aug. 25, 1937	None	N	490	Casing: 269 feet of 12 $\frac{1}{2}$ -inch. Screen from 165 to 247 feet. See log.
	55.34	Oct. 6, 1941				
31b	--	--	A	D, Ind	--	Casing: 820 feet of 6-5/8-inch. Perforated casing from 338 to 364, 495 to 514, 632 to 739, 760 to 768, and 806 to 820 feet. See log.
32	--	--	T,E, 25	D, Ind	--	Casing: 693 feet of 8-inch; 740 feet of 5-3/16-inch. Screen from 895 to 1,032 feet. See log.
38	--	--	C,E	D, Ind	--	Screen from 81 to 127 feet. See log.
45	--	--	None	N	--	Screen from 827 to 922 feet. Well filled in 1941. See log.
44	--	--	None	N	--	Screen from 480 to 565 and 580 to 676 feet. See log.
47	--	--	None	N	450	Screen from 345 to 396 and 746 to 791 feet. See log.
47a	c/190	1931	C,G	D, Ind	50	Casing: 318 feet of 12 $\frac{1}{2}$ -inch; 544 feet of 6-inch. Screen from 378 to 445, 740 to 762, and 775 to 797 feet. Drawdown reported 97 feet while pumping 293 gallons a minute when drilled.
51a	143.78	Oct. 6, 1941	A	N	--	Slotted casing from 123 to 145 feet. Temperature 79° F. See log.
88	81.31	Oct. 16, 1941	A	N	--	Casing: 745 feet of 10 $\frac{1}{2}$ -inch. Screen from 745 to 830 feet. See log.

b/ Ind, industrial (usually oil field); D, domestic; I, public supply; S, stock; N, not used.

c/ Water level reported by owner or driller.

Records of wells in Rusk County--Continued

Well	Location	Owner	Driller	Date	Depth com- ple- ted (ft.)	Diam- eter of well (in.)	Height of measuring point above ground (ft.)
299a	1½ miles northeast of London	Humble Oil and Refining Co. No.1 (Ida Holt "B")	Layne-Texas Co.	1931	317	10	.5
315a	1 mile northwest of London	Gulf Oil Corp.No.1 (G. C. Turner)	McMasters and Pomeroy	1931	858	--	--
316a	½ mile northeast of London	Tide Water Associated Oil Co. No.1. (L.J.Pinkston "A")	L. W. Little	1931	738	7	--
316b	1 mile northeast of London	Tide Water Associated Oil Co. No. 1. (J. M. Shaw)	do.	1931	713	6- 5/8	--
331a	1½ miles northeast of Turnertown	Tide Water Associated Oil Co. No.1. (Julia Finney)	do.	1931	660	6- 5/8, 5-3/16	--
336a	¼ mile northwest of Turnertown	Humble Oil and Refining Co. No. 1 (M. and R. Kangerga "A")	Layne-Texas Co.	1931	259	12½	--
341a	1 mile west of Turnertown	Tide Water Associated Oil Co. No. 1. (J.R.Irion)	L. W. Little	1931	364	8½	--
348a	1½ miles north of Carlisle	Stanclind Oil and Gas Co. No. 1 (Malinda Schuler)	H. C. Benson	1931	926	6- 5/8	--
389a	1¾ miles north of Carlisle	Magnolia Petr leum No. 1. (Dan Kelly)	Layne-Texas C.	1931	317	6	2.0
414	In Henderson, 1 mile east of Courthouse	City of Henderson test well	I. D. White	1935	1,000	--	--
415	In Henderson, 1 mile southeast of Courthouse	City of Henderson No. 2	Layne-Texas Co.	1931	680	8½	.0
416	do.	City of Henderson No. 4	do.	1936	583	12	3.0

a/ A, air or natural gas lift; T, turbine; C, cylinder; G, natural gas or gasoline engine; E, electric. Number indicates horsepower.

Well	Water level		Method of lift a/	Use of water b/	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
299a	194.50	Oct. 17, 1941	None	N	500	Casing: 317 feet of 10-inch. Screen from 235 to 315 feet. Reported yield 750,000 gallons a day for 3 years.
315a	---	---	---	---	---	See log. See log.
316a	---	---	T, E, 20	D, Ind	54	Casing: 13 feet of 8 $\frac{1}{2}$ -inch; 725 feet of 7-inch. Perforated casing from 502 to 708 feet. See log.
316b	---	---	A	D, Ind	---	Perforated casing from 511 to 713 feet. See log.
331a	---	---	C, G	D, Ind	---	Casing: 244 feet of 6-5/8-inch; 416 feet of 5-3/16-inch. Perforated casing from 440 to 660 feet. See log.
336a	c/101	1931	T, E, 60	D, Ind	450	Cased: 259 feet of 12 $\frac{1}{2}$ -inch. Screen from 139 to 199 feet. Drawdown reported 60 feet while pumping 450 gallons a minute when drilled. See log.
341a	---	---	None	N	---	Cased: 364 feet of 8 $\frac{1}{2}$ -inch. Slotted casing from 284 to 351 and 359 to 364 feet. See log. log.
348a	---	---	---	---	600	Casing: 745 feet of 6-5/8-inch. Slotted or perforated casing from 147 to 162, 260 to 293, 506 to 557, and 652 to 745 feet. See log.
389a	21.62	May 6, 1940	A	D, Ind	---	Casing: 317 feet of 6-inch. Screen from 28 to 119 feet. See log.
414	---	---	---	---	---	See log.
415	177.98 161	Oct. 7, 1938 Nov. 27, 1940	None	N	320	Casing: 558 feet of 6-5/8-inch. Slotted casing from 448 to 558 feet. Well abandoned in 1942. See log.
416	170.42 150.77	Aug. 24, 1937 Nov. 27, 1940	T, E, 40	P	400	This well and well 762 supply city of Henderson. Well 752 is standby well. See log.

b/ Ind, industrial (usually oil field); D, domestic; P, public supply; S, stock; N, not used.

c/ Water level reported by owner or driller.

Records of wells in Rusk County--Continued  
(Supplemental to wells listed in report of September 25, 1937)

Well	Distance from Laird Hill	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
627	2 miles northwest	Tide Water Associated Oil Co. No. 1. (J. R. Beall)	--	1931	290	6-5/8	--
628	1 1/2 miles northeast	Tide Water Associated Oil Co. No. 2. (Nat Bean "A")	Layne-Texas Co.	1938	437	7	--
629	1/2 mile north	Gulf Oil Corp. No. 3 (M. E. Peterson)	do.	1937	440	16, 8-5/8	--
630	do.	Houston Oil Co. No. 3 (D. M. Peterson)	-- Poles	1938	378	7	--
631	In Laird Hill	Humble Oil and Refining Co. No. 2 (B. F. Laird "A")	Layne-Texas Co.	1940	989	8-5/8	--
632	do.	Humble Oil and Refining Co. No. 1 (B. F. Laird "A")	Walter A. Moller	1938	776	10, 7	--
633	1 1/2 miles southeast	Sinclair-Prairie Oil Co. (Major Kennedy "C")	do.	1935	500	8 1/4	--
634	1 1/2 miles southeast	Star Bailey School	--	1937	25	7 1/2	1.5
635	1 mile southeast	Sinclair-Prairie Oil Co. (Major Kennedy "A")	L. W. Little	1932	195	6-5/8	1.0
636	3/4 mile south	Snowden and McSweeney (Francis Bean)	--	1933	665	5-3/16, 4	--
637	do.	Humble Oil and Refining Co. (Dave Ladd "A")	--	1931	551	6	.5
638	1 1/2 miles southwest	Midstates Oil Corp. (Brightwell "A")	Midstates Oil Corp.	1933?	168	6	--
639	1 1/2 miles southwest	Houston Oil Co. (W. P. Brightwell)	--	1931	625	7	--
640	do.	Atlantic Refining Co. (Mose Prock)	Atlantic Refining Co.	--	400+	6	--

a/ A, air or natural gas lift; T, turbine; C, cylinder; G, natural gas or gasoline engine; E, electric. Number indicates horsepower.



Chemical analyses of water from some of these wells are shown in a table of analyses on pages 46 to 56.

Well	Water level Elev. measuring point (ft.)	Date of level measurement	Method of lift a/	Use of water b/	Report of yield (g.p.m.)	Remarks	
627	--	--	C	Ind	--	Casing: 247 feet of 6-5/8 inch. Screen from 247 to 290 feet. Same as well 60 in Gregg County report of 1937.	
628	--	--	T, E, 20	I, Ind	115	Casing: 437 feet of 7-inch. See log. Screen from 354 to 457 feet. Underreamed and gravel walled. Pumping level reported 201 feet while pumping 115 gallons a minute when drilled. Well 680 in Gregg County report of 1943.	
629	c/230	Nov. 1939	E, 1939	T, E, 25	D, Ind	300	Casing: 440 feet of 10 inch. See log. 8-5/8 inch. Screen from 340 to 440 feet. Drawdown reported 72 feet after pumping 300 gallons a minute for 24 hours when drilled. See log.
630	--	--	C, G	I, Ind	--	Casing: 340 feet of 7-inch. Casing perforated from 340 to 378 feet.	
631	c/269	Mar. 1940	Mar. 1940	T, E, 95	D, Ind	182	Casing: 399 feet of 8-5/8 inch. Screen from 319 to 347, 385 to 407, 429 to 452, 750 to 752 and 841 to 870 feet. Drawdown reported 96 feet while pumping 182 gallons a minute when drilled. Underreamed, gravel walled. See log.
632	--	--	None	I	75	Casing: 769 feet of 7-inch. Screen from 470 to 484 and 605 to 741 feet. Deepened from 554 to 776 feet in 1933.	
633	--	--	A	D, Ind	70	Casing: 431 feet of 8-1/2-inch. See log. Screen from 431 to 500 feet. See log.	
634	95.40	Jan. 21, 1942	Jan. 21, 1942	C, E, 3/4	P	--	Aug.
635	95.41	do.	do.	None	M	--	Casing: 195 feet of 6-5/8-inch. Water sands reported from 150 to 135 and 180 to 195 feet.
636	c/151	1933	1933	C, G, 3	I, Ind	10	Casing: 510 feet of 5-5/16-inch. Perforated 4-inch casing from 510 to 365 feet.
637	143.24	Oct. 10, 1941	Oct. 10, 1941	A	N	--	Casing 571 feet of 6-inch.
638	--	--	C, G, 3	I, Ind	--		
639	--	--	A	D, Ind	--	Casing: 325 feet of 7-inch.	
640	--	--	A	I, Ind	200		

b/ Ind, industrial (usually oil field); D, domestic; P, public supply; S, stock; N, not used.

c/ Water level reported by owner or driller.

Records of wells in Rusk County--Continued

Well	Distance from Laird Hill	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
641	1 $\frac{3}{4}$ miles southwest	H. G. Samson, Inc. (Mose Brock)	John Russel	1938	788	5	--
642	2 miles southwest	Brock Oil Co. (Murphy and Roberts)	-- Patterson	1930	900	7	1.0
643	do.	Midstates Oil Corp. (Brightwell "B")	--	1935	829	5	--
Well	Distance from Sexton City	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
644	2 $\frac{1}{4}$ miles north	J. S. Abercrombie Co. and Harrison Oil Co. (M.A. Cantrell)	Abercrombie and Harrison	1931	600+	7	--
645	2 miles north	Tide Water Associated Oil Co. (F. L. Buntyn "B")	Texas-Gulf Prod. Co.	1931	780	4	--
646	do.	Tide Water Associated Oil Co. (W. M. Jamigan)	--	1931	542	6- 5/8	--
647	1 $\frac{1}{4}$ miles north	Tide Water Associated Oil Co. No. 1. (H.P. Leverett)	Fred Fielder	1931	1,075	7, 5- 3/16	--
648	1 $\frac{1}{2}$ miles northwest	Tide Water Associated Oil Co. No. 1. (C.O. Christian)	F. V. Murray	1931	745	7	--
649	1 $\frac{1}{2}$ miles west	Tide Water Associated Oil Co. (W. P. Moore)	G. P. Bernham	1931	145	6- 5/8	.5
650	do.	Magnolia Petroleum Co. (W. F. Moore)	--	1934?	95+	6- 5/8	--
651	2 miles west	Devonian Oil Co. (P. A. Motley)	Walter F. Meller	1931	343	6- 5/8	--
652	In Overton	City of Overton No. 3	Layne-Texas Co.	1941	338	10 $\frac{3}{4}$	--
653	1 $\frac{1}{2}$ miles south	Humble Oil and Refining Co. No. 2 (R.E.L. Silvey "A")	do.	1940	562	13- 3/8, 8-5/8, 7	--
654	do.	Humble Oil and Refining Co. No. 1 (R.E.L. Silvey "A")	Fred Fielder	1936	517	10	--

Well	Water level		Method of lift a/	Use of water b/	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
641	c/ 75	1938	A	D, Ind	70	Casing: 638 feet of 5-inch. Perforated casing from 638 to 788 feet. Sands reported from 650 to 660 and 690 to 788 feet.
642	145.75	Oct. 8, 1941	A	D, Ind	--	
643	--	--	A	D, Ind	--	Casing: 744 feet of 5-inch. Perforated casing from 744 to 829 feet. See log.

Well	Water level		Method of lift a/	Use of water b/	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
644	--	--	A	Ind	--	
645	--	--	A	Ind	10	Casing: 540 feet of 4-inch. Perforated casing from 540 to 780 feet.
646	--	--	C, G, 10	N	--	Casing: 368 feet of 6-5/8-inch. Perforated casing from 368 to 542 feet. See log.
647	--	--	A	Ind	--	Casing: 634 feet of 7-inch; 200 feet of 5-3/16-inch. Perforated casing from 834 to 1,075 feet. See log.
648	--	--	A	Ind	60	Casing: 674 feet of 7-inch. Perforated casing from 165 to 210 and 654 to 674 feet. See log.
649	20.59	Oct. 7, 1941	None	N	--	Casing: 145 feet of 6-5/8-inch. Screen from 83 to 145 feet.
650	--	--	C	D, Ind	--	
651	--	--	A	Ind	--	See log.
652	c/158	Mar. 1941	T, E, 30	P	300	Casing: 338 feet of 10 <sup>3</sup> / <sub>4</sub> -inch. Screens from 246 to 288 and 309 to 370 feet. Underreamed to 30 inches and gravel-walled. Drawdown reported 36 feet while pumping 300 gallons a minute when drilled. See log.
653	--	--	T, E, 40	Ind	200	Casing: 396 feet of 13-3/8-inch; 56 feet of 8-5/8-inch; 110 feet of 7-inch. Screen from 452 to 535 feet. Underreamed and gravel-walled. See log.
654	--	--	A	Ind	90	Casing: 517 feet of 10-inch. Screen from 414 to 503 feet. See log.

Records of wells in Rusk County--Continued

Well	Distance from London	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
655	1 $\frac{1}{4}$ miles northeast	Humble Oil and Refining Co. No. 3 (Ida Holt "B")	Walter A. Meller	1938	534	10	--
656	do.	Humble Oil and Refining Co. No. 4 (Ida Holt "B")	Layne-Texas Co.	1939	596	12 $\frac{1}{2}$	--
657	do.	Humble Oil and Refining Co. No. 2 (Ida Holt "B")	Humble Oil and Refining Co.	1934	366	15 $\frac{1}{2}$	--
658	$\frac{3}{4}$ mile northeast	New London School	Layne-Texas Co.	1937	537	13- 3/8, 7	--
659	1 $\frac{1}{4}$ miles northwest	Olsan Brothers, Inc. (C. W. Mullins)	--	1938?	500	6	--
660	2 $\frac{1}{2}$ miles northwest	Gulf Oil Corp. No. 2 (T. B. Cashen)	Fred Fielder	1932	454	8	--
661	do.	Gulf Oil Corp. No. 3 (T. B. Cashen)	Layne-Texas Co.	1937	328	16, 8- 5/8	--
662	do.	Gulf Oil Corp. No. 1 (T. B. Cashen)	Walter A. Meller	1931	910	6- 5/8	1.5
663	2 $\frac{1}{2}$ miles northwest	Stanolind Oil and Gas Co. (W. O. Alford)	do.	1931	675	8 $\frac{1}{4}$	--
664	2 miles northwest	G. H. Vaughn Prod. Co. (W. O. Alford)	--	1931	600+	6- 5/8?	2.0
665	$\frac{1}{2}$ mile northwest	G. H. Vaughn Prod. Co. (L. P. Thrash)	Republic Prod. Co.	1931	1,000+	7	--
666	$\frac{1}{2}$ mile southeast	Milford Oil Co. (M. A. Thrash)	--	--	195	7	--
667	$\frac{1}{4}$ mile southeast	Stanolind Oil and Gas Co. (J. B. Milstead)	Walter A. Meller	1931	390	8	--
668	1 mile east	Ralph E. Fair, Inc. (B. F. Maxwell)	--	--	700+	8	1.0
669	1 $\frac{3}{4}$ miles southeast	Aston Greenaway Oil Co. (J. R. Alford)	--	1932	412	6- 5/8	1.0
670	2 $\frac{1}{4}$ miles southeast	J. P. Mabee Oil Co. (J. P. Maxwell)	--	1937	200+	6	--

Well	Water level Below measuring point (ft.)	Date of measure- ment	Method of lift a/ b/	Use of water c/ d/	Reported yield (g.p.m.)	Remarks
655	--	--	None	N	--	Casing: 414 feet of 10-inch. Screen from 414 to 521 feet. See log.
656	--	--	T, E, 75	D, Ind	425	Casing: 587 feet of 12 $\frac{1}{2}$ -inch. Screen from 453 to 577 feet. Underreamed to 36 inches and gravel-walled. Pumping level reported 417 feet while pumping 425 gallons a minute. See log.
657	--	--	None	N	315	Casing: 218 feet of 15 $\frac{1}{2}$ -inch. Screen from 218 to 351 feet. See log.
658	c/220 c/294	Oct. 4, 1937 Aug. 18, 1939	T, E, 25	P	130	Casing: 546 feet of 15-3/8-inch; 191 feet of 7-inch. Screen from 456 to 516 feet. Underreamed to 30 inches and gravel-walled. Drawdown reported 80 feet while pumping 72 gallons a minute when drilled. See log.
659	--	--	C, G, 30	D, Ind	--	
660	--	--	A	N	200	Casing: 317 feet of 8-inch. Perforated casing from 317 to 420 feet. See log.
661	c/179	Apr. 3, 1937	T, E, 20	D, Ind	220	Casing: 265 feet of 16 and 8-5/8-inch. Screen from 265 to 325 feet. Underreamed to 30 inches and gravel-walled. Drawdown reported 30 feet while pumping 94 gallons a minute. See log.
662	230.02	Oct. 7, 1941	None	N	80	Casing: 835 feet of 6-5/8-inch. Perforated casing from 835 to 889 feet. See log.
663	--	--	A	Ind	--	Perforated casing from 259 to 274 and 314 to 336 feet. See log.
664	145.36	Oct. 17, 1941	A	N	--	
665	--	--	A	Ind	--	
666	--	--	A	D, S, Ind	50	
667	c/ 90	1938	A, G, 110	Ind	--	See log.
668	144.90 139.3	May 8, 1940 Jan. 19, 1942	None	N	--	Well sanded up to 139 feet in 1942.
669	63.92	May 7, 1940	C, G, 24	Ind	--	Yield reported from sand at 329 to 410 feet.
670	--	--	C	N	--	

Records of wells in Rusk County--Continued

Well	Distance from London	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
671	1 $\frac{1}{2}$ miles southeast	D. B. Malernee (E. B. Alford)	--	1932	880	8, 7 $\frac{1}{2}$ , 4 $\frac{1}{2}$	2.5
672	1 $\frac{1}{2}$ miles southeast	Otto Oil Corporation (Cox "C")	--	--	200	6	--
Well	Distance from Turnertown	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
673	2 miles northeast	Atlantic Refining Co. (W. H. Fredrick)	--	--	440	6	--
674	do.	Tres Oil Corporation (Camp "A")	-- Helgeson	1938	98	4	--
675	do.	Roosth and Genecey (W. H. Camp)	--	--	100+	5- $\frac{3}{16}$	--
676	2 miles east	Panola Pipe Line Co. (-- Ashby)	--	--	100+	4	--
677	do.	do.	--	1937	100+	4	--
678	do.	do.	--	--	100+	6	--
679	1 $\frac{1}{2}$ miles east	Tidal Pipe Line Co. (D. Bradford "A")	Walter A. Meller	1935	329	4	--
680	1 $\frac{1}{2}$ miles northeast	Pine Petroleum Corporation (Mayfield-Alford)	do.	1935?	420	6	--
681	1 $\frac{1}{2}$ miles northeast	Parade Gasoline Co. No. 2 (C. C. Giles)	do.	1936	457	8	--
682	do.	Parade Gasoline Co. No. 3 (C. C. Giles)	Layne-Texas Co.	1937	466	10 $\frac{3}{4}$	--
683	1 $\frac{1}{2}$ miles northeast	Spendsco Oil and Refining Co. (W. P. Brett)	--	--	400+	6	--
684	1 $\frac{1}{2}$ miles north	Paldwin-Sultan Oil Co. (M. L. Thompson)	--	1931	360	8	1.5
685	1 $\frac{1}{4}$ miles northwest	Atlantic Refining Co. (M. L. Thompson)	--	1931	500+	7	--

Well	Water level		Method of lift	Use of water	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
671	c/185 228.35	1932 May 8, 1940	A	D,S, Ind	100	Four-and-one-half-inch screen from 825 to 880 feet.
672	--	--	C	Ind	--	

Well	Water level		Method of lift	Use of water	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
673	--	--	C	Ind	--	
674	--	--	C	D,Ind	10	Sand reported from 90 to 98 feet.
675	c/ 30	1940	C	Ind	--	
676	--	--	A	P	--	
677	--	--	F	P	--	
678	--	--	F	F	--	
679	c/100	--	C, $\frac{1}{2}$	D,Ind	--	Sand reported from 287 to 328 feet.
680	--	--	A	Ind	40	
681	--	--	F	D,Ind	50	Sand reported from 391 to 457 feet.
682	c/228 c/274	Aug. 1937 May 1, 1940	T,G, 85	E,Ind	200	Casing: 460 feet of 10 $\frac{3}{4}$ -inch. Screen from 360 to 443 feet. Underreamed and gravel-walled. See log.
683	--	--	C,G, 10	D,S, Ind	--	
684	181.51	Oct. 9, 1941	None	N	--	
685	--	--	C,G, 5	Ind	--	

Records of wells in Rusk County--Continued

Well	Distance from Turnertown	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
686	1 $\frac{1}{4}$ miles northwest	Blackwell Oil and Gas Co. (Samp Stone)	--	--	450+	6	--
687	2 miles west	Sinclair-Prairie Oil Co. (J. P. Wilson)	Walter A. Meller	1931	407	8 $\frac{1}{4}$ , 6- 5/8	--
688	1 $\frac{1}{4}$ miles northwest	British-American Oil Co. (Kengerga Bros.)	--	1931	508	8, 5- 3/8	--
689	$\frac{3}{4}$ mile northwest	British-American Oil Co. (J. D. Stone)	Ed Sisson	--	482	7, 5- 3/16	--
690	$\frac{1}{4}$ mile east	Beacon Oil and Refining Co. (C. C. Giles)	Walter A. Meller	1931	576	6- 5/8	--
691	$\frac{1}{2}$ mile northeast	Retsal Drilling Co. (J. T. Brown)	--	--	500+	4- 5/8	1.5
692	do.	Haynes Oil Corp. (J. T. Brown)	--	1935	500+	6	--
693	do.	do.	--	1931	300+	7	--
694	$\frac{3}{4}$ mile east	Shell Oil Co., Inc. (H. Brooks)	Lico Oil Co.	--	700+	10	2.0
695	do.	do.	do.	--	340+	10	--
696	1 mile east	W. F. Gutzler (C. D. Ashby "C")	--	1932	300+	5- 3/16	1.0
697	1 $\frac{3}{4}$ miles southeast	Miller Production Co. (F. Bradford "P")	Walter A. Meller	1934	355	8	.0
698	3 $\frac{1}{2}$ miles southeast	Gaston School	Walter Sallee	1938	415	8	--
699	do.	do.	Fred Fielder	1931	246	5	--
700	2 miles southeast	Sun Oil Co. (R. J. Hendon)	Sun Oil Co.	1934	304	5 $\frac{1}{2}$ , 4	--
701	1 $\frac{1}{2}$ miles southeast	Atlantic Refining Co. (-- Arnold)	Boling and Boling	1939	408	6, 4	--
702	do.	-- Frankel, et al. (J. E. Arnold)	Fugh and Hicknam	1931	450	6	--



Well	Water level Below measuring point (ft.)	Date of measure- ment	Method of lift a/	Use of water. b/	Reported yield (g.p.m.)	Remarks
686	--	--	A, G	D, S, Ind	75	
687	--	--	A	N	--	Casing: 287 feet of 8 $\frac{1}{2}$ -inch; 80 feet of 6-5/8-inch. Perforated casing from 367 to 467 feet. See log.
688	c/ 40	--	C, G, 15	D, Ind	30	
689	c/ 60	--	C, G, 10	D, Ind	--	Casing: 406 feet of 7-inch. Perforated 5-3/16-inch casing from 406 to 482 feet. Sands reported at 60 to 140, 280 to 290, and 395 to 432 feet.
690	--	--	A	S, Ind	--	
691	120.80 113.29	May 8, 1940 Oct. 22, 1941	C, G, 85	D, Ind	--	
692	--	--	A	D, S	--	Ninety feet of screen reported at bottom.
693	--	--	A	Ind	--	
694	89.02	May 9, 1940	None	N	--	
695	--	--	C, G	D, S, Ind	--	
696	93.93	May 9, 1940	C	Ind	--	
697	103.68	May 8, 1940	A, E, 5	D, Ind	--	Yield reported from sand at 300 to 355 feet.
698	c/120	1938	T, E, 10	F	110	Casing: 395 feet of 8-inch. Screen from 395 to 415 feet.
699	--	--	None	"	--	Supplied school until well 698 was drilled.
700	--	--	C	D, S, Ind	--	Casing: 23 feet of 7-inch; 218 feet of 5 $\frac{1}{2}$ -inch; 13 feet of 4-inch. Perforated casing from 254 to 304 feet. See log.
701	--	--	C	Ind	--	Casing: 8 feet of 6-inch; 400 feet of 4-inch. Perforated casing from 336 to 376 feet. See log.
702	c/ 200	--	A	D, Ind	--	Casing: 430 feet of 6-inch. Screen from 430 to 450 feet.

Records of wells in Rusk County--Continued

Well	Distance from Turnertown	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
703	1 mile southeast	Stuart Petroleum Co. (Dr. -- Deason)	Stuart Petroleum Co.	1933	250+	--	--
704	do.	do.	do.	--	250+	--	1.5
705	1½ miles southeast	T. C. Adams (J. E. Arnold)	T. C. Adams	--	190+	--	--
706	1¼ miles southeast	Texas Trading Co. (A. J. and D. F. Deason)	Hooper Thomas	--	311	7	--
707	do.	Ebony Oil Co. (A. J. Deason)	Walter A. Meller	1932	239	6	--
708	1 mile south	The Ohio Oil Co. No. 3 (S. H. Moore)	--	1931	198	8¼	--
709	do.	The Ohio Oil Co. (S. H. Moore)	--	--	198	8	--
710	do.	The Ohio Oil Co. No. 5 (S. H. Moore)	--	1939?	200	6, 4	--
711	do.	The Ohio Oil Co. No. 2 (S. H. Moore)	--	1931	284	6- 5/8	1.0
712	¾ mile southeast	Midstates Oil Corp. No. 2 (A. J. Deason)	Walter A. Meller	1931	225	6- 5/8	--
713	do.	Midstates Oil Corp. No. 1 (A. J. Deason)	do.	1931	219	6- 5/8	1.0
714	⅝ mile southeast	Dalclark Oil Corp. (C. Young "B")	do.	1931	350	8	4.0
715	do.	do.	do.	1931	460	8	2.0
716	do.	Atlantic Refining Co. No. 2 (C. Young "F")	Bill Boling	1941	545	6- 5/8, 3½	--
717	do.	Atlantic Refining Co. No. 1 (C. Young "F")	do.	1939	423	4	--
718	¼ mile south	Granite Oil Trust (C. Young)	Dave Lide	1931	--	8	1.0

Well	Water level		Method of lift	Use of water	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
703	--	--	A	D, Ind	--	Sand reported from 120 to 210 feet.
704	127.04	May 8, 1940	A	N	--	Sand reported from 160 to 220 feet.
705	--	--	A	D, Ind	--	
706	--	--	A	D, Ind	--	Yield reported from sand at 119 to 130 feet.
707	--	--	A	D, Ind	50	Yield reported from sand at 179 to 238 feet.
708	--	--	A	Ind	50	Casing: 137 feet of 8 $\frac{1}{2}$ -inch. Screen from 137 to 198 feet. See log.
709	--	--	A	Ind	50	Perforated casing from 150 to 190 feet.
710	--	--	A	D, Ind	--	Perforated casing from 160 to 185 feet.
711	74.73	Oct. 14 1941	None	N	--	Casing: 223 feet of 6-5/8-inch. Screen from 223 to 284 feet. See log.
712	--	--	A	D, Ind	--	Casing: 223 feet of 6-5/8-inch. Perforated casing from 163 to 200 feet. See log.
713	107.23 104.63	May 8, 1940 Oct. 9, 1941	A	N	90	Casing: 219 feet of 6-5/8-inch. Perforated casing from 157 to 196 feet. See log.
714	102.26	Sept. 19, 1941	A	N	--	
715	120.51	May 6, 1940	A	D, Ind	40	
716	--	--	C, E, 2	D	--	Casing: 427 feet of 6-5/8-inch; 116 feet of 3 $\frac{1}{2}$ -inch. Perforated casing from 450 to 520 feet. See log.
717	--	--	None	N	10	Casing: 424 feet of 4-inch. Perforated casing from 343 to 384 feet. Abandoned in 1941 when well 716 was
718	107.12 106.17	May 6, 1940 Oct. 14, 1941	A	D, Ind	--	completed. See log.

Records of wells in Rusk County--Continued

Well	Distance from Turnertown	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
719	$\frac{1}{4}$ mile west	S. A. Selman	Crewford Drilling Co.	1934	153	$3\frac{1}{2}$	---
720	$\frac{1}{2}$ mile southwest	Sun Oil Co. No. 1 (S. A. Selman)	Sun Oil Co.	1933	132	7	---
721	do.	Sun Oil Co. No. 2 (S. A. Selman)	Walter A. Meller	1935	402	$7\frac{1}{2}$	---
722	1 mile southwest	Arkansas Fuel Oil Co. (G. Ferguson)	Arkansas Fuel Oil Co.	---	400+	---	1.5
723	$1\frac{1}{2}$ miles southwest	Jackson, Wise and Sneddon (J. B. Wilson)	Jackson, Wise and Sneddon	1931	440	$8\frac{1}{4}$ , 6- $\frac{5}{8}$	---
724	1 mile southwest	Midstates Oil Corp. (M. and R. Kangerga)	Midstates Oil Corp.	---	504	6- $\frac{5}{8}$	---
725	$1\frac{1}{4}$ miles southwest	Atlantic Refining Co. (Pinkston "A")	Atlantic Refining Co.	1935	511+	4	1.0
726	$1\frac{1}{2}$ miles southwest	Atlantic Refining Co. (R. W. Fair)	---	---	250+	4	---
727	$1\frac{1}{2}$ miles southwest	British-American Oil Co. (--Murphy)	British-American Oil Co.	1931	416	8, 6- $\frac{5}{8}$	---
728	2 miles southwest	The Ohio Oil Co. No. 1 (C. L. Graham)	S. C. Cox	1931	1,074	$8\frac{1}{4}$ , 6	2.5
729	do.	The Ohio Oil Co. No. 2 (C. L. Graham)	do.	1931	110	6	0.5
730	$1\frac{3}{4}$ miles southwest	Lone Pine Oil Co. (-- Pinkston)	---	1940	120	6	1.0
731	do.	Amerada Petroleum Corp. No. 1 (T. J. Stovall)	---	---	715	7	1.0
732	$1\frac{3}{4}$ miles south	Amerada Petroleum Corp. No. 2 (T. J. Stovall)	Walter A. Meller	1938	418	5	---
733	$1\frac{1}{2}$ miles south	Lisbon Gasoline Co. No. 1 (E. E. Moore)	do.	1931	667	3	---
734	do.	Lisbon Gasoline Co. No. 2 (E. E. Moore)	do.	---	486	6	---
735	do.	The Ohio Oil Co. No. 1 (E. E. Moore)	S. C. Cox	1931	1,008	$8\frac{1}{4}$ , 6	---

Well	Water level Below measuring point (ft.)	Date of measure- ment	Method of lift a/ b/	Use of water b/	Reported field (g.p.m.)	Remarks
719	c/ 65	--	C, G, 3 $\frac{1}{2}$	D, F	5	Casing: 140 feet of 3 $\frac{1}{2}$ -inch. Perforated casing from 140 to 153 feet.
720	--	--	None	N	--	See log.
721	--	--	C, E, 2	D, Ind	10	Casing: 294 feet of 7-inch; 42 feet of 5 $\frac{1}{2}$ -inch. Perforated casing from 336 to 402 feet. See log.
722	119.65	May 7, 1940	A	D	--	
723	c/100	--	A	D	60	Casing: 4 feet of 8 $\frac{1}{2}$ -inch; 436 feet of 6-5/8-inch. Perforated casing from 290 to 305 and 357 to 440 feet.
724	c/200	--	A	D, Ind	--	Casing: 480 feet of 6-5/8-inch.
725	134.0	Apr. 5 1940	C, G, 2	Ind	5	
726	--	--	C, G, 2	Ind	--	
727	--	--	C, G, 15	D, Ind	--	Perforated casing from 275 to 285, 300 to 330, and 368 to 416 feet.
728	72.81	Oct. 14, 1941	None	N	--	Casing: 793 feet of 8 $\frac{1}{2}$ -inch; 281 feet of 6-inch. Screen from 806 to 851 and 1,052 to 1,074 feet. See log.
729	20.79	do.	None	N	--	Casing: 1 foot of 8 $\frac{1}{2}$ -inch; 64 feet of 6-inch. Perforated casing from 65 to 110 feet. See log.
730	41.03	May 6, 1940	A, G	D, S, Ind	--	Casing: 120 feet of 6-inch.
731	94.45	May 6, 1940	None	N	--	Casing: 715 feet of 7-inch.
	97.76	Oct. 14, 1941				
732	c/100	--	C, E, 5	D, Ind	2	See log.
733	c/ 60	--	A	Ind	30	Perforated casing from 591 to 666 feet.
734	c/ 60	--	A	Ind	80	Perforated casing from 390 to 429 feet.
735	--	--	None	N	--	Casing: 523 feet of 8 $\frac{1}{2}$ -inch; 261 feet of 6-inch. Screen from 784 to 889 feet. See log.

Records of wells in Rusk County--Continued

Well	Distance from Turnertown	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
736	2 $\frac{1}{2}$ miles southeast	Gant, Garvin and Wiegner (W. P. Moore)	--	1939	300	5	--
737	2 $\frac{1}{2}$ miles northeast	Atlantic Pipe Line Co. (W. P. Moore)	--	--	--	--	--
738	1 $\frac{1}{4}$ miles north	J. L. Collins Co. (D. Kelly)	--	1934	360+	7	1.0
739	1 $\frac{1}{2}$ miles north	Atlantic Refining Co. (I. L. Kinney)	--	1931	700+	4	--
740	1 $\frac{1}{4}$ miles northeast	Atlantic Refining Co. (-- Strickland)	Boling and Boling	1939	390	4	--
741	$\frac{1}{2}$ mile northeast	Sinclair-Prairie Oil Co. No. 1 (W. H. McCord)	L. W. Little	1935	243	7	--
742	In Carlisle	Carlisle School	Layne-Texas Co.	1940	291	7	--
743	1 $\frac{1}{4}$ miles southwest	Sinclair-Prairie Oil Co. (D. Ledbetter)	L. W. Little	1933	136	6- $\frac{5}{8}$	--
744	$\frac{1}{2}$ mile northwest	The Ohio Oil Co. No. 1 (J. T. Mason)	Fred Fielder	1932	402	8- $\frac{5}{8}$ , 6- $\frac{5}{8}$	--
745	1 mile north	Magnolia Petroleum Co. (T. C. Mason)	-- Falcon	--	400+	7	.5
745	1 mile northwest	The Texas Co. (Cora Hanna)	The Texas Co.	1931	80	5	--
747	1 $\frac{1}{2}$ miles northwest	British-American Oil Co. (J. Mavfield)	--	1931	495	6- $\frac{5}{8}$	--
748	do.	Tide Water Associated Oil Co. No. 1. (C. B. Rollins)	Walter A. Meller	1935	451	7, 5- $\frac{3}{16}$	--
749	2 miles northwest	Humble Oil and Refining Co. No. 1 (M. and R. Kangerga)	do.	1937	395	5 $\frac{1}{2}$	--

Well	Water level		Method of lift	Use of water	Reported yield (g.m.p.)	Remarks
	Below measuring point (ft.)	Date of measurement				
736	c/ 80	--	C, G, $1\frac{1}{2}$	F, Ind	40	Sand reported from 252 to 300 feet.
Well	Water level		Method of lift	Use of water	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
737	c/ 60	--	C, E, 4	Ind	--	
738	86.87	July 7, 1940	A, G	F	--	
739	--	--	A	Ind	--	
740	--	--	C, G, 3	Ind	--	Perforated casing from 310 to 350 feet. See log.
741	--	--	C	Ind	15	Casing: 243 feet of 7-inch. See log.
742	c/ 57	Jan. 16, 1941	T, E, 5	F	45	Casing: 275 feet of 7-inch. Screen from 225 to 237 and 241 to 260 feet. Underreamed and gravel-walled from 213 to 275 feet. Drawdown reported 140 feet while pumping 45 gallons a minute.
743	--	--	C	Ind	--	Casing: 130 feet when drilled. See log. feet of 6-5/8-inch. See log.
744	--	--	A	D, Ind	--	Casing: 60 feet of 8-5/8-inch; 264 feet of 6-5/8-inch. See log.
745	59.81	May 6, 1940	I, G	D, Ind	--	
746	--	--	A, G	Ind	--	
747	c/ 45	--	C, G, 15	D, Ind	--	Casing: 489 feet of 6-5/8-inch. Bottom 2 joints perforated. Sands reported from 20 to 95, 250 to 305, 375 to 383, and 460 to 495 feet.
748	--	--	A	Ind	--	Casing: 401 feet of 7-inch. Perforated 5-5/16-inch casing from 401 to 451 feet. See log.
749	--	--	C, E, $1\frac{1}{2}$	F	--	Casing: 310 feet of 5-inch. Screen from 310 to 378 feet. See log.

Records of wells in Rusk County--Continued

Well	Distance from Carlisle	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
750	2 miles northwest	Sun Oil Co. No. 5 (H. Schuler "A")	Sun Oil Co.	1933	317	7, 5-3/16	--
751	2 1/2 miles northwest	Gulf Oil Corp. No. 1 (Mayfield "C")	C. L. Watts	1931	832	7, 5-3/16	--
752	2 miles northwest	Sinclair-Prairie Oil Co. No. 2 (W. D. Kinney)	Layne-Texas Co.	1938	946	10 3/4	--
753	do.	The Ohio Oil Co. No. 2 (M. M. Cross)	The Ohio Oil Co.	1938	62	6	--
754	do.	The Ohio Oil Co. No. 1 (M. M. Cross)	--	1931	873	8-5/8, 6	--
755	do.	The Ohio Oil Co. No. 6 (M. M. Cross)	--	1939	65	10	--
756	do.	The Ohio Oil Co. No. 5 (M. M. Cross)	--	1938	65	10	--

Well	Distance from Henderson Courthouse	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
758	1 mile east	City of Henderson No. 5	Layne-Texas Co.	1938	727	16, 7	1.0
759	1/2 mile southeast	City of Henderson test No. 3-1	do.	1942	701	4 1/2	--



Well	Water level		Method of lift	Use of water	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
750	--	--	C, G	D	--	Casing: 254 feet of 7-inch; 21 feet of 5-3/16-inch. Perforated casing from 275 to 317 feet. See log.
751	--	--	C, E, 3	D, Ind	--	Five-and-three-sixteenth-inch screen from 710 to 829 feet. See log.
752	c/133	Feb. 8, 1938	T, E, 50	D, Ind	360	Casing: 926 feet of 10 1/4-inch. Screens from 483 to 504, 754 to 795, and 811 to 911 feet. Underreamed and gravel-walled. Drawdown reported 111 feet while pumping 360 gallons a minute when
753	--	--	A	D, Ind	--	Casing: 62 feet of drilled. See log. 6-inch.
754	--	--	A	N	--	Casing: 789 feet of 6-inch. Perforated casing from 789 to 873 feet. See log.
755	--	--	A	Ind	--	Casing: 65 feet of 10-inch.
756	--	--	A	Ind	--	Do.

Well	Water level		Method of lift	Use of water	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
758	154.07	Dec. 11, 1939	T, E	P	250	Casing: 375 feet of 16-inch; 504 feet of 7-inch. Screens from 499 to 572, 593 to 654, and 824 to 854 feet. Well filled with cement to 727 feet in 1942. Pumping level 270 feet while pumping 270 gallons a minute when drilled. Electrical log from 400 to 864 feet in files of Texas Board of Water Engineers
	149.71	Nov. 27, 1940				
759	--	--	--	--	--	Electrical log from 20 to 701 feet in files of Texas Board of Water Engineers, at Austin, Texas. See table of analyses for analysis of water sample taken from 634 to 647 feet. See log.

Records of wells in Rusk County--Continued

Well	Distance from Henderson Courthouse	Owner (Lessor)	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
760	$\frac{1}{2}$ mile southwest	City of Henderson test No. 4-2	Layne-Texas Co.	1942	794	$3\frac{1}{2}$	--
761	1 mile southeast	City of Henderson test No. 5-3	do.	1942	759	$3\frac{1}{2}$	--
752	do.	City of Henderson No. 6	do.	1942	609	$16\frac{3}{4}$	--

a/ A, air or natural gas lift; T, turbine; C, cylinder; G, natural gas or gasoline engine; E, electric. Number indicates horsepower.

Well	Water level		Method of lift	Use of water	Reported yield (g.p.m.)	Remarks
	Below measuring point (ft.)	Date of measurement				
760	--	--	--	--	--	Electrical log from 20 to 793 feet in files of Texas Board of Water Engineers at Austin, Texas. See table of analyses for analyses of water samples taken from 577 to 588 and 704 to 715
761	--	--	--	--	--	Electrical log from [ ] feet. See log. 85 to 719 feet in files of Texas Board of Water Engineers, at Austin, Texas. See table of analyses for analyses of samples taken from 246 to 257, 493 to 504, 600 to 611, and 683 to 693 feet.
762	--	--	T, E, 40	P	290	Casing: 360 feet of 16-inch; See log. 243 feet of 10 $\frac{3}{4}$ -inch, 16-inch to 483 feet; 10 $\frac{3}{4}$ -inch from 360 to 603 feet. Screen from 487 to 592 feet. Electrical log from 20 to 614 feet in files of Texas Board of Water Engineers, at Austin, Texas. Temperature 70 <sup>o</sup> F. See log.

b/ Ind, industrial (usually oil field); D, domestic; E, public supply; S, stock; N, not used.

c/ Water level reported by owner or driller.

Table of drillers' logs, Rusk County, Texas

	Thickness (feet)	Depth (feet)
<u>Well 1</u>		
Tide Water Associated Oil Co., No. 2. (J. R. Beall), 2 miles northwest of Laird Hill.		
Clay	15	15
Rock	1	16
Sand	9	25
Rock	1	26
Sand	35	61
Rock	6	67
Sand and gravel	41	108
Rock	6	114
Sand and boulders	202	322
Rock	1	323
Sand and boulders	41	364
Rock	1	365
Sand and shale	128	493
Gummy shale	30	523
Sand and shale	107	630
Gummy shale	45	675
Sand and shale	65	740
Gummy shale	9	749
Shale	5	754
Sand	6	760
Rock	13	773
Sand	23	796
Rock	5	801
Sand	16	817
Rock	3	820
Sand	92	912
Screen from 929 to 972 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 16</u>		
City of Overton No. 1, in Overton. Layne-Texas Co., drillers.		
Sandy clay	10	10
Sand	10	20
Shale	7	27
Muddy sand	52	79
Shale and boulders	79	158
Sandy shale	23	181
Green sand	20	201
Shale	5	206
White sand	27	233
Shale	7	240
White sand	34	274
Sandy shale	15	289
White sand	42	331
Sandy shale and lignite	154	485
Green sand	40	525
Shale and boulders	20	545
Rock	5	550

	Thickness (feet)	Depth (feet)
<u>Well 16--continued</u>		
Sandy shale and lime	65	615
Shale and boulders	65	680
Rock	3	683
Shale and lignite	113	796
Shale	23	819
Sand	70	889
Screens at 247-268, 283-328, 484-505 and 841-863 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 22-B</u>		
Magnolia Petroleum Co., (G. W. Eaton), $\frac{1}{4}$ miles northwest of London. Layne- Texas Co., drillers.		
Sandy clay	44	44
Clay	6	50
Sandy clay	16	66
Clay	10	76
Sand	23	99
Sandy clay	34	133
Sand and shale	22	155
Clay	5	160
Rock	3	163
Shale	13	176
Hard sand	6	182
Rock	2	184
Shale	5	189
Rock	3	192
Hard sand and shale	6	198
Hard sand and boulders	22	220
Sand and shale	13	233
Rock	4	237
Sand	97	334
Shale and streaks of lignite	76	410
Hard sand	9	419
Shale and streaks of lignite	25	444
Screen from 246 to 534 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 31-A</u>		
Shell Oil Company Inc., (W. P. Moore), $\frac{1}{2}$ miles northwest of Sexton City. Layne-Texas Co. drillers.		
Clay	15	15
Shale and boulders	73	88
Sand	24	112
Hard shale	53	165
Good sand	38	203
Shale and lignite	3	206
(Continued on next page)		

Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 31-A--continued</u>		
White sand	26	232
Fine-grained sand	20	252
Sandy shale	97	349
Packsand	20	369
Screen from 165 to 247 feet.		

<u>Well 31-B</u>		
Tide Water Associated Oil Co., No. 2. (W. F. Moore), 1 1/2 miles northwest of Sexton City. L. W. Little, driller.		
Red clay	18	18
Sand and shale	31	49
Shale	33	82
Sand	7	89
Boulders	23	112
Sand	28	140
Sandy shale	63	203
Sand	70	273
Sandy shale	65	338
Sand	26	364
Sandy shale	86	450
Shale	45	495
Sand	19	514
Shale	118	632
Sand	127	759
Shale	1	760
Sand	8	768
Shale	38	806
Sand	74	880
Casing perforated at 338-364, 495-514, 632-739, 760-768 and 806-820 feet.		

<u>Well 32</u>		
Gulf Pipe Line Co. (W. Florence), 2 miles northwest of Sexton City. Benson Drill- ing Co., driller.		
Surface soil	20	20
Sand	25	45
Shale	17	58
Sandy shale	17	75
Rock	1	76
Sticky shale	27	103
Rock	2	105
Sand and boulders	9	114
Hard sand rock	9	123
Rock	2	125
Sandy shale	8	133
Rock	1	134
Sandy shale	7	141

	Thickness (feet)	Depth (feet)
<u>Well 32--continued</u>		
Rock	1	142
Sand	64	206
Sandy shale	14	220
Hard shale	7	227
Shale and boulders	23	250
Hard sand rock	15	265
Sand	15	280
Lignite and sand streaks	10	290
Lignite	23	313
Sandy shale	23	336
Lignite	4	340
Sandy shale	48	388
Hard sand rock	6	394
Shale	14	408
Sandy shale	10	418
Sand and shale	112	530
Gumbo	10	540
Shale	20	560
Sticky shale	20	580
Packsand	8	588
Gray sand	17	605
Hard sand	25	630
Sand	60	690
Rock	4	694
Gumbo	10	704
Sandy shale	64	768
Sand and lignite	22	790
Lignite	16	806
Sand	12	818
Broken sand and lignite	32	850
Gumbo	5	855
Rock	5	860
Sand and lignite	20	880
Rock	6	886
Sand	144	1030
Gumbo	3	1033
Screen 895 to 1,032 feet.		

<u>Well 33</u>		
Tide Water Associated Oil Co., No. 1 (M. R. Terrell), 1 1/2 miles southwest of Laird Hill.		
Surface material	4	4
Yellow clay	19	22
Sand	14	36
Sandy shale	36	72
Shale	9	81
Sand	46	127
Shale	115	242
Screen from 81 to 127 feet.		

Table of drillers' logs, Rusk County--Continued

Well 43		Well 47--continued	
Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Gulf Oil Corp. No. 2 (V. W. Peterson), $\frac{3}{4}$ mile north of Laird Hill. Fred Fielder, driller.		Hard green sand 19 90	
Clay 22	22	Hard shale 78	168
Shale and boulders 82	104	Grey shale 10	178
Rock 6	110	Lignite 15	193
Gumbo 274	404	Sticky shale 28	221
Sand and lignite 48	452	Sandy shale 33	254
Shale 35	487	Hard shale 73	292
Rock 1	488	Soft shale 17	309
Shale 104	592	Fine-grained grey sand 11	320
Sandy shale 46	638	Shale and boulders 30	350
Sand 7	645	Fine-grained grey sand and lignite 23	373
Lignite 7	652	Hard shale and lignite 34	407
Shale 36	688	Grey sand 6	413
Sand 8	696	Hard shale and lignite 23	436
Shale 38	734	Tough sticky shale 23	460
Rock 3	737	Grey sand 15	475
Water sand 63	800	Shale and boulders 33	508
Shale 12	812	Gumbo 13	521
Sand 20	832	Soft shale 10	531
Screens from 827 to 922 feet.		Gumbo 10	541
Well 44		Rock 3	544
Tide Water Associated Oil Co. No. 1 (Peterson), $1\frac{1}{4}$ miles northeast of Laird Hill. L. W. Little, driller.		Gumbo 10	554
Surface soil 3	3	Rock 3	557
Red shale 22	25	Hard sand and shale 11	568
Blue shale 150	175	Gumbo and boulders 7	575
Sand 48	223	Tough shale 15	590
Sand and shale 53	276	Rock 2	592
Sand 17	293	Sandy shale and boulders 44	636
Blue shale 114	407	Shale and lignite 45	680
Sand 8	415	Sand and lignite 12	692
Sand and shale 60	475	Shale and sticky sand 27	719
Sand 35	510	Shale and lignite 22	741
Shale 15	525	White sand 44	785
Water sand 36	561	Shale and lignite 12	797
Screenset 460-535 and 580-676 feet.		Screenset 345-396 and 746-791 feet.	
Well 47		Well 47-A	
Gumble Oil and Refining Co. (L. F. Crimm), $\frac{1}{2}$ miles southwest of Laird Hill. Lawne-Texas Co., drillers.		Magnolia Petroleum Co. (Dick Wells), $1\frac{1}{2}$ miles southeast of Laird Hill. Lawne-Texas Co., drillers.	
Sand 3	3	Surface soil 1	1
Sandy red clay 5	8	Sandy clay 15	16
White sand 24	32	Sand 33	54
Shale and boulders 25	57	Shale and boulders 63	117
Green sand 6	63	Sand 15	132
Shale and boulders 5	68	Shale and boulders 33	165
		White packsand 12	207
		Shale and boulders 33	195
		White packsand 12	207
		Shale, boulders and lignite 161	368
		Grey sand 109	477
		(Continued on next page)	

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Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 47-A--Continued</u>		
Shale and lignite	79	556
Rock	12	558
Shale and boulders	73	641
Fine-grained gray sand	20	661
Shale and lignite	13	674
Fine-grained gray sand	125	799
Shale, boulders and lignite	210	1009
Screens at 378-445, 740-762 and 775-797 feet.		

<u>Well 51-A</u>		
Gulf Oil Corp. (C. M. Jernigan), 1½ miles northwest of Sexton City. McQueen and Clevenger, drillers.		
Clay	30	30
Shale and boulders	90	120
Water sand	25	145
Casing slotted from 123 to 145 feet.		

<u>Well 88</u>		
Humble Oil and Refining Co. No. 2 (J. N. Peterson), 1½ miles west of Laird Hill. W. B. Hamilton, driller.		
Surface material	8	8
Hard sand	26	34
Hard sand rock	4	38
Broken sand	32	70
Shale	30	100
Hard sandy lime	3	103
Hard sand	2	105
Shale	5	110
Shale and sand	180	290
Soft sand	40	330
Sandy shale	57	387
Shale	10	397
Broken sand and shale	23	420
Hard lime shells	1	421
Hard sand	14	435
Shale	65	500
Sandy shale	71	571
Shale	25	596

	Thickness (feet)	Depth (feet)
<u>Well 88-Continued</u>		
Shale and sand	14	610
Hard sand rock	3	615
Shale and lignite	129	742
Broken sand	18	760
Soft sand	30	790
Hard sand	10	800
Soft shale	7	807
Sand	28	835
Screen from 745 to 830 feet.		

<u>Well 299-A</u>		
Humble Oil and Refining Co. No. 1 (Ida Hult "B"), 1½ miles northeast of London. Layne-Texas Co., drillers.		
Clay	2	2
Rock	1	3
Clay	8	11
Sand and boulders	16	29
Clay	6	35
Shale and boulders	50	93
Rock	3	96
Shale	19	115
Rock	2	117
Shale	22	139
Shale and boulders	29	168
Gray sand	10	178
Sandy shale	33	211
Gray sand	15	226
White sand	85	311
Shale	6	317
Screen from 235 to 315 feet.		

<u>Well 315-A</u>		
Gulf Oil Corp. No. 1 (G. C. Turner), 1 mile northwest of London. McMasters and Pomeroy, drillers.		
Soil and clay	18	18
Sand and boulders	17	35
Sand rock	1	36
Sand	16	52
Sand, clay and boulders	17	69
Sand	30	99

(Continued on next page)

Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 315-A--Continued</u>		
Packsand	10	109
Sand and boulders	5	114
Sand and clay	45	159
Sand	24	183
Gumbo	6	189
Sand and shale	29	218
Sand	5	223
Sand and boulders	11	234
Packsand	25	259
Sand and shale	7	266
Sand	20	286
Gumbo	18	304
Sand	21	325
Gumbo and boulders	7	332
Sand and lignite	37	369
Packsand	20	389
Sand	9	398
Gumbo	5	403
Sand	23	426
Gumbo	11	437
Sand	21	458
Gumbo	5	463
Sand	26	489
Packsand	3	492
Gumbo and boulders	5	497
Sand	7	504
Gumbo	4	508
Sand	5	513
Gumbo	3	516
Sand	18	534
Sand	8	542
Packsand	7	549
Sand, gumbo and boulders	13	562
Sand	5	567
Packsand and lignite	11	578
Sand and boulders	31	609
Sand and lignite	13	622
Packsand and lignite	7	629
Sand rock	2	631
Packsand	5	636
Gumbo and lignite	8	644
Sand, gumbo and boulders	15	659
Gumbo	7	666
Sand and lignite	58	724

	Thickness (feet)	Depth (feet)
<u>Well 315-A--Continued</u>		
Gumbo	3	727
Sand and lignite	5	732
Gumbo	4	736
Sand, gumbo and lignite	11	747
Sand, shale and boulders	21	768
Sand	5	773
Rock	5	778
Sand	42	820
Gumbo and boulders	3	823
Sand	31	854
Sand and shale	4	858

Well 316-A

Tide Water Associated Oil Co. No. 1  
(L. J. Pinkston "A"),  $\frac{1}{2}$  mile northeast  
of London. L. W. Little, driller.

Surface material	5	5
Yellow shale	7	12
Blue shale	10	22
Shale	44	66
Shells	1	67
Sandy shale	50	117
Shells	1	118
Sandy shale	24	142
Brown shale	60	202
Shells	2	204
Blue shale	81	285
Sandy shale	35	320
Hard sand	28	348
Shale	63	411
Brown shale	23	434
Sandy shale	43	477
Blue shale	45	522
Sandy shale	21	543
Sand	47	590
Sandy shale	24	614
Sand	41	655
Shale	23	678
Sand	60	738

Casing perforated from 508 to 708 feet.  
Well reworked.



Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 316-B</u>		
Tide Water Associated Oil Co. No. 1 (J. M. Shaw), 1 mile northeast of London, L. W. Little, driller.		
Surface material	4	4
Red clay	8	12
Sand rock	4	16
Sandy shale	86	102
Sand rock	7	109
Shale	12	121
Sandy shale	25	146
Sand	148	294
Shale	73	367
Sandy shale	34	401
Sand	52	453
Shale	37	490
Sandy shale	47	537
Shells	1	538
Shale	43	581
Sand	53	634
Sandy shale	53	687
Sand	26	713
Casing perforated from 511 to 713 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 331-A</u>		
Tide Water Associated Oil Co. No. 1 (Julia Finney), 1 1/2 miles northeast of London, L. W. Little, driller.		
Surface material	12	12
Yellow clay	16	28
Water sand	4	32
Sandy shale	16	48
Hard shells	1	49
Brown shale	38	87
Sandy shale	36	123
Brown shale	23	146
Sand	80	226
Shale	52	278
Sandy shale	56	334
Sand	35	378
Sandy shale	64	442
Sand	55	497
Shale	38	535
Sand	55	590
Shale	18	608
Sand	46	654
Shale	4	658
Sand	2	660
Casing perforated from 460 to 660 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 336-A</u>		
Tumble Oil and Refining Co. No. 1 (H. and R. Vanserva "A"), 1/4 mile northwest of		

	Thickness (feet)	Depth (feet)
<u>Well 336-A--continued</u>		
Turnertown, Lavne-Texas Co., drillers.		
Clay	34	34
Rock	1	35
Clay	9	44
Shale	72	116
Gray sand	23	139
White sand	69	208
Shale	61	269
Sand	10	279
Shale	66	345
Fine-grained gray sand	117	462
Rock	1	463
Shale	9	472
Screen from 139 to 199 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 341-A</u>		
Tide Water Associated Oil Co. No. 1 (J. R. Irion), 1 mile west of Turnertown, L. W. Little, driller.		
Surface material	2	2
Red clay	15	17
Sand	11	28
Sandy shale	6	34
Sand	31	65
Sandy shale	71	136
Sand	4	140
Sandy shale	86	226
Shells	1	227
Shale	14	241
Sandy shale	43	284
Sand	67	351
Shale	8	359
Sand	5	364
Casing slotted opposite sands at 284-351 and 359-364 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 348-A</u>		
Stanolind Oil and Gas Co. No. 1 (Melinda Schuler), 1 1/2 miles north of Carlisle, W. C. Benson, driller.		
Surface soil	2	2
Sandy clay	14	16
Dry gravel	4	20
Sand and gravel	94	114
Sticky shale	3	117
White sand	52	169
Shells	1	170
Sand	15	185
Shale	5	190
Shale and lignite streaks	80	270
Sand	29	299

(Continued on next page)

Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 348-A--continued</u>		
Rock	1	300
Sandy shale	88	388
Sand, lignite and shale	94	482
Water sand	78	560
Gumbo	11	571
Sandy shale	4	575
Shells	1	576
Sand and lignite streaks	24	600
Water sand	147	747
Lignite	15	762
Water sand	82	844
Rock	11	855
Water sand	25	880
Rock	1	881
Sandy shale	20	901
Hard sand	25	926
Casing slotted at 147-162, 260-293, 506-557 and 652-745 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 389-A</u>		
Magnolia Petroleum Co. No. 1 (Dan Kelly), 1 3/4 miles north of Carlisle. Layne-Texas Co., drillers.		
Sandy clay	18	18
Fine-grained sand	3	21
Water sand	98	119
Clay	12	131
Lignite and shale	5	136
Rock	3	139
Shale	15	154
Lignite and shale	13	167
Shale	9	176
Shale and streaks of hard sand	22	198
Sand	18	216
Sandy clay	5	221
Shale	4	225
Fine-grained sand	17	242
Rock	5	247
Hard shale	15	262
Fine-grained sand	21	283
Rock	3	286
Sand and shale	20	306
Hard sand	9	315
Rock	2	317
Screen from 28 to 119 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 414</u>		
City of Henderson test well, in Henderson, 1 mile east of courthouse. I. D. White, driller.		
Clay	18	18

	Thickness (feet)	Depth (feet)
<u>Well 414--continued</u>		
Sand	9	27
Sand and lignite	23	50
Rock	1	51
Hard sandy shale	49	100
Rock	1	101
Gumbo	31	132
Lignite	11	143
Brown shale	13	156
Gumbo	36	192
Fine-grained sand	20	212
Gumbo	26	238
Shale and lignite	32	270
Fine-grained sand	27	297
Gummy shale	37	334
Fine-grained gray sand	33	370
Gummy shale	33	403
Gumbo	29	432
Brown shale	23	455
Gumbo	13	468
Fine-grained water sand	82	550
Brown shale	29	579
Gumbo	18	597
Shale	18	615
Shale and lignite	25	640
Shale and boulders	32	672
Gumbo	9	681
Shale and boulders	92	773
Shale and lignite	27	800
Sandy blue shale and lignite	20	820
Water sand	40	860
Gumbo	77	937
Shale, gumbo and boulders	63	1000

	Thickness (feet)	Depth (feet)
<u>Well 415</u>		
City of Henderson No. 2, in Henderson, 1 mile southeast of courthouse. Layne- Texas Co., drillers.		
Sandy yellow clay	30	30
Sandy shale	33	63
Sand and lignite	15	78
Shale and lignite	29	107
Sandy blue shale and lignite	30	137
Fine-grained gray sand	32	169
Rock	2	171
Sandy shale and lignite	48	219
Hard shale	37	256
Fine-grained gray sand	40	296
Hard sandy shale	11	307
Hard shale	13	320
Soft gray sand	26	346

(Continued on next page)

Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 415--continued</u>		
Sand, rock and shale	4	350
Fine-grained sand	64	414
Hard shale and gumbo	30	444
Gray sand	72	516
Hard sandy shale	10	526
Gray sand	34	560
Sand and lignite	62	622
White sand	16	638
Shale and sand	42	680
Casing slotted from 448 to 558 feet.		

Well 410

City of Henderson No. 4, in Henderson, 1 mile southeast of courthouse. Layne-Texas Co., drillers.

Clay	10	10
Yellow sand	10	20
Sandy shale	80	100
Shale and lignite	45	145
Fine-grained sand	15	160
Sandy shale and lignite	92	252
Fine-grained sand	10	262
Shale and lignite	33	295
Sand	20	315
Rock	1	316
Sandy shale	49	365
Shale	35	400
Gray sand	12	412
Shale	15	427
Sand	52	479
Shale	3	482
Sand	78	560
Brown shale and lignite	23	583

Well 627

Tide Water Associated Oil Co. No. 1 (J. S. Beall), 2 miles northwest of Laird Hill.

Sand and clay	45	45
Rock	2	47
Sand and gravel	5	52
Rock	2	54
Shale and sand	54	108
Rock	1	109
Sandy shale	172	281
Water sand	9	290
Screen from 247 to 290 feet.		

Well 628

Tide Water Associated Oil Co. No. 2 (Nat Bean "A"), 1½ miles northeast of

	Thickness (feet)	Depth (feet)
<u>Well 628--continued</u>		
Laird Hill. Layne-Texas Co., drillers.		
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
Light gray fine-grained sand	39	292
Soft shale	5	297
Light gray sand	55	352
Soft shale	7	359
Good water sand	10	369
Thin layers of soft shale and sand	28	397
Good water sand	16	413
Hard blue shale	24	437
Screen from 354 to 437 feet.		

Well 629

Gulf Oil Corp. No. 3 (M. E. Peterson), ½ mile north of Laird Hill. Layne-Texas Co., drillers.

Surface material	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
Layers of shale and sand	23	213
Hard shale	20	233
Shale and lignite	29	262
Sand	15	277
Sandy shale	8	285
Sand	16	301
Sandy shale	45	346
Sand	94	440
Screen from 340 to 440 feet.		

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Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 631</u>		
Humble Oil and Refining Co. No. 2 (R. F. Laird "A"), in Laird Hill. Layne-Texas Co., drillers.		
Red clay	10	10
White sand	30	40
Brown shale	80	120
Hard rock	1	121
Sand	12	133
Shale	18	151
Hard rock	1	152
Shale	7	159
Rock	1	160
Sand	43	203
Soft shale	26	229
Hard shale	16	245
Sand and shale layers	62	312
Sand	26	338
Sand and shale layers	28	366
Lignite	10	376
Fine-grained gray sand	35	411
Shale and layers of lignite and sand	39	450
Sand and layers of shale	22	472
Sandy shale	82	554
Lignite	1	555
Shale	95	650
Lignite	1	651
Sandy shale	20	671
Lignite	2	673
Sandy shale	20	693
Lignite	1	694
Sandy shale	18	712
Sandy shale and shale	8	720
Sandy shale	39	759
Fine-grained hard sand and sandy shale	51	810
Sticky sand and sandy shale	16	826
Shale	8	834
Rock	1	835
Sandy shale and shaley sand	34	869
Hard sandy shale	14	883
Layers of white sand and shale sand	6	889
Screen at 319-342, 385-407, 429-452, 730-752 and 841-872 feet.		

Well 632

Humble Oil and Refining Co. No. 1 (R. F. Laird "B"), in Laird Hill. Walter A. Meller, driller.		
Surface sand and clay	49	49
Shale	45	94
Sandy shale and boulders	45	139

	Thickness (feet)	Depth (feet)
<u>Well 632--continued</u>		
Shale and boulders	22	161
Gumbo	45	206
Hard shale	46	252
Hard gray shale	86	338
Sand	22	360
Sand and lignite	23	383
Sandy shale	68	451
Sand	48	499
Broken sand and shale	20	519
Hard sand	15	534
Gumbo	16	550
Sandy shale	135	685
Sand	65	750
Shale	26	776
Screen at 460-520, 470-484 and 695-741 feet.		

Well 633

Sinclair-Prairie Oil Co. (Major Kennedy "C"), 1 1/2 miles southeast of Laird Hill. Walter A. Meller, driller.		
Clay and sand	15	15
Sand	31	46
Broken shale	42	88
Gumbo	43	131
Shale	9	140
Sandy shale	14	154
Gumbo	6	160
Sand	4	164
Rock	1	165
Sandy shale	25	190
Sand	24	214
Gumbo	18	232
Shells and gumbo	47	279
Shale and gumbo	66	345
Sandy shale (water)	50	395
Sand	65	460
Sand, shells and gumbo	6	466
Shale and gumbo	34	500
Screen from 431 to 500 feet.		

Well 643

Midstates Oil Corp. (Brightwell "B"), 2 miles southwest of Laird Hill.		
Clay	15	15
Sand and shells	80	95
Shale	11	106
Shale, shells and streaks of sand	394	500
Sandy shale	28	528
Sandy shale and shells	207	735
(Continued on next page)		

Table of drillers' logs, Puck County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 643--continued</u>		
Hard sand	30	765
Coarse-grained water sand	19	784
Shale	11	795
Water sand	5	800
Shale	29	829
Casing perforated from 744 to 829 feet.		

Well 646

Tide Water Associated Oil Co. (W. H. Jernigan), 2 miles north of Sexton City.		
Sand and shale	172	172
Water sand	10	182
Shale	121	303
Water sand	9	312
Shale	3	320
Water sand	50	370
Shale	34	404
Water sand	6	410
Shale	40	450
Water sand	15	465
Shale	5	470
Water sand	4	474
Shale	21	495
Water sand	45	540
Shale	3	542

Well 647

Tide Water Associated Oil Co. No. 1 (E. P. Levratt), 1½ miles north of Sexton City. Fred Fielder, driller.		
Sandy clay	35	55
Blue shale	235	270
Lignite and sand	15	285
Sand	15	300
Rock	3	303
Gumbo	37	370
Rock	2	372
Lignite and sand	23	400
Sandy gray shale and streaks of sand	483	883
Water sand	139	1075
Casing roof rated from 834 to 1,075 feet.		

Well 649

Tide Water Associated Oil Co. No. 1 (C. O. Christian), 1½ miles northwest of Sexton City. F. W. Murray, driller.		
Surface material	3	3
Shale	3	6
Quicksand	0	12
Gumbo	38	50

	Thickness (feet)	Depth (feet)
<u>Well 648--continued</u>		
Shale	25	75
Sand	5	80
Shale	10	90
Sand	10	100
Shale	50	150
Sand	6	210
Gumbo	50	265
Shale	210	475
Sand	15	490
Shale	10	540
Sand	8	548
Shale	50	600
Sand	3	603
Shale	12	620
Sand	3	623
Shale	2	625
Sand	27	652
Shale	73	725
Water sand	15	740
Shale	5	745
Casing perforated from 155 to 170 feet and at 135-210 and 654-374 feet.		

Well 651

Devonian Oil Co. (R. I. Motley), 2 miles west of Sexton City. Walter A. Keller, driller.		
Clay	11	11
Sand	33	64
Gumbo	27	91
Shale and boulders	113	207
Water sand	34	291
Shale	52	343

Well 652

City of Overton No. 3, in Overton. Layne-Texas Co., drillers.		
Sandy clay	15	15
Sand	12	27
Sandy shale	10	37
Brown shale	63	100
Pock	1	107
Brown shale	45	150
Pock	1	151
Shale	3	154
Rock	1	155
Shale and sandy shale	8	163
Hard green sand	6	169
Rock	1	170
Hard green sand	9	179
Rock	1	180

(Continued on next page)

Table of drillers' logs, Risk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 652--continued</u>		
Sandy green shale	10	120
Shale	4	124
Sandy shale and boulders	10	204
Sandy shale and shale	15	219
White sand and a few streaks of shale and lignite	85	304
Sandy shale and lignite	3	307
White sand	21	328
Shale	10	338
Screen at 246-285 and 309-330 feet.		

<u>Well 653</u>		
Humble Oil and Refining Co. No. 2 (P. E. L. Silver <sup>1</sup> / <sub>2</sub> "), 1 1/2 miles south of Sexton City. Lawe-Texas Co., drillers.		
Red clay	5	5
Sandy clay	17	22
White sand	14	36
Sandy shale	24	60
Rock	1	61
Shale	122	183
Shale and boulders	29	212
Sandy shale	19	231
Sand	36	311
Rock	2	313
Shale	8	321
Rock	3	324
Sandy shale	50	374
Lignite	7	381
Shale and streaks of lignite	44	425
Rock	1	426
Shale	15	441
Rock	2	443
Sand and layers of shale	88	511
Shale	32	543
Screen from 451 to 535 feet.		

<u>Well 654</u>		
Humble Oil and Refining Co. No. 1 (P. E. L. Silver <sup>1</sup> / <sub>2</sub> "), 1 1/2 miles south of Sexton City. Fred Fielder, driller.		
Sand	25	25
Sandy shale	50	115
Shale	20	135
Rock	1	136
Shale	9	145
Rock	1	146
Shale	13	159
Rock	1	160
Sand	15	175

	Thickness (feet)	Depth (feet)
<u>Well 654--continued</u>		
Rock	1	176
Sand	53	229
Shale	23	252
Sand	92	344
Lignite, shale and sand	31	375
Sand	10	385
Lignite and sand	24	409
Wine-grained sand, lignite and shale	46	455
Shale	62	517
Screen from 414 to 503 feet.		

<u>Well 655</u>		
Humble Oil and Refining Co. No. 3 (Ida Holt "B"), 1 1/2 miles northeast of London. Walter A. Weller, driller.		
Surface material and sand	10	30
Blue shale	57	137
Boulders	2	139
Blue shale	44	183
Loose shale	48	231
Sand	79	310
Gumbo	75	385
Shale	53	438
Water sand	95	533
Shale	1	534
Screen from 414 to 521 feet.		

<u>Well 656</u>		
Humble Oil and Refining Co. No. 4 (Ida Holt "B"), 1 1/2 miles northeast of London. Lawe-Texas Co., drillers.		
Shale, rock and clay	141	141
Shale and boulders	59	200
Sandy shale	28	228
White sand and shale	155	383
Rock	1	384
Sand and shale	90	474
Sand, shale and lignite	66	540
Sand and shale	10	550
Sandy shale	46	596
Screen from 453 to 577 feet.		

<u>Well 657</u>		
Humble Oil and Refining Co. No. 2 (Ida Holt "B"), 1 1/2 miles northeast of London. Humble Oil and Refining Co., drillers.		
Clay and boulders	50	50
Clay and sand	121	171
Boulders	3	174
(Continued on next page)		

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Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 657--continued</u>		
Sandy shale	22	196
Shale	24	220
Sandy shale	17	237
Sand	35	320
Shale	3	323
Sand and gravel	3	354
Shale	32	367
Screen from 213 to 351 feet.		

<u>Well 658</u>		
New London School, $\frac{3}{4}$ mile northeast of London. Lawne-Texas Co., drillers.		
Sandy red clay	15	15
Rock	1	16
Fine-grained sand	12	28
Good water sand	65	93
Shale	23	116
Black shale	12	128
Hard rock	2	130
Hard black shale	32	162
Shale	63	231
Sand	84	315
Shale	7	322
Rock	2	324
Shale	132	456
Sand	60	516
Shale	10	526
Rock	1	527
Shale	10	537
Screen from 452 to 535 feet.		

<u>Well 660</u>		
Gulf Oil Corp. No. 2 (T. P. Cashen), $2\frac{1}{2}$ miles northwest of London. Fred Fielder, driller.		
Surface sand	2	2
Red clay	6	3
Sandy clay	27	35
Blue shale	81	116
Sandy gray shale	39	155
Shale and boulders	25	180
Hard black sand	18	198
Black water sand	37	235
White water sand	45	280
Hard sandstone	2	282
Water sand	78	360
Brown sand	25	385
Hard sand	20	405
Lignite	2	407
Sand	28	435
Brown shale	19	454
Casine perforated from 317 to 420 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 661</u>		
Gulf Oil Corp. No. 3 (T. P. Cashen), $2\frac{1}{2}$ miles northwest of London. Lawne-Texas Co., drillers.		
Surface soil	4	4
Sand	24	23
Sandy clay	20	48
Sand and shale	26	74
Shale	41	115
Rock	1	116
Shale	42	158
Rock	1	159
Shale	19	173
Shale and boulders	9	187
Shale	11	198
Black sand	10	214
Shale	13	227
White sand	73	300
Shale	2	302
Sand	22	324
Shale	4	328
Screen from 265 to 325 feet.		

<u>Well 662</u>		
Gulf Oil Corp. No. 1 (T. P. Cashen), $2\frac{1}{2}$ miles northwest of London. Walter I. Weller, driller.		
Sand and clay	40	40
Sandy shale	78	118
Rock	5	121
Sandy shale	21	142
Rock	3	145
Shale	14	159
Rock	1	160
Gumbo	23	183
Rock	2	185
Shale	7	192
Rock	1	193
Shale	3	196
Shale and boulders	11	207
Sand and boulders	80	287
Hard sand	13	300
Sand and boulders	20	320
Gumbo and hard sand	30	350
Sand and boulders	10	360
Hard sand	40	400
Gumbo	20	420
Sand and boulders	30	450
Hard sand	14	464
Hard sand and rock	1	465
Rock	1	466
Gumbo	24	490

(Continued on next page)

Table of drillers' logs, Pusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 662--continued</u>		
Shale and streaks of lignite and sand	164	354
Sand	30	384
Sandy shale	7	391
Gumbo	21	712
Shale	54	766
Hard sand	37	803
Hard shale	31	834
Gumbo	8	842
Fine-grained broken sand	35	877
Lignite	4	881
Sand	9	890
Gumbo	20	910
Casing perforated from 875 to 889 feet.		

Well 663

Stanolind Oil and Gas Co. (T. C. Alford), 2½ miles northwest of London. Walter A. Meller, driller.		
Sand	4	4
Sandy clay	15	19
Red sand	4	23
Sandy clay	1	24
White sand	14	38
Gray sand	18	56
Sand and clay	15	71
Chocolate-colored clay	17	88
Sand	4	92
Chocolate-colored clay	41	133
Sand	6	139
Brown clay	19	158
Rock	5	163
Clay	22	185
Sand	30	215
Clay	35	250
White water sand	29	279
Sandy clay	31	310
White water sand	10	320
Tough gray clay	30	350
Clay and streaks of white sand	17	367
Sand and thin clay streaks	29	396
Sandy clay	9	405
Sand, clay streaks	43	448
Sand	5	453
Clay	7	460
Fine-grained sand, clay	34	494
Tough clay	37	531
Sandy clay	18	549
Tough clay	28	577
Shale with boulders	15	592
Fine-grained hard sand	26	618
Hard sand rock	4	622

	Thickness (feet)	Depth (feet)
<u>Well 665--continued</u>		
Gray water sand	41	633
Sandy shale	12	675
Casing perforated at 259-274 and 511-526 feet.		

Well 667

Stanolind Oil and Gas Co. (J. R. Wilstead), ¾ mile southeast of London. Walter A. Meller, driller.		
Clay	15	15
Sand	22	37
Shale and boulders	126	163
Hard sand	8	171
Gumbo	49	220
Fine-grained water sand	51	251
Shale and boulders	79	330
Water sand	25	355
Shale	35	390

Well 682

Parade Gasoline Co. No. 3, 1¼ miles northeast of Turnertown. Layne-Texas Co., drillers.		
Sandy red clay	15	15
Sand and clay streaks	18	33
Soft shale with breaks of sand	43	76
Rock	1	80
Soft shale	12	92
Hard shale and streaks of sand	13	105
Rock	1	106
Fine-grained gray sand	11	117
White sand	6	123
Fine-grained gray sand	8	131
Rock	1	132
Fine-grained gray sand	13	145
Sand	85	230
White sand and layers of shale	8	238
White sand	13	251
Lignite	5	256
Shale	36	290
Sandy shale	21	311
Lignite	6	317
Sand and shale	40	357
Rock	2	359
Sandy shale	23	382
Gray sand	64	446
Shale	93	539
Sandy shale	6	545

(Continued on next page.)



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Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 682--continued</u>		
Rock	2	547
Sandy shale	47	594
Shale	6	600
Screen from 560 to 443 feet.		

<u>Well 687</u>		
Sinclair-Prairie Oil Co. (J. B. Wilson), 2 miles west of Turnertown. Walter A. Muller, driller.		
Clay	19	19
Sand	184	203
Sandy shale	107	310
Water sand and boulders	45	355
Water sand	63	421
Water sand and boulders	44	465
Gumbo	2	467
Casing perforated from 367 to 467 feet.		

<u>Well 690</u>		
Beacon Oil and Refining Co. (C. C. Gibbs), $\frac{1}{4}$ mile east of Turnertown. Walter A. Meller, driller.		
Not given	130	130
Shale	50	180
Water sand	20	200
Shale	104	304
Water sand	72	376

<u>Well 700</u>		
Sun Oil Co. (R. J. Hendon), 2 miles southeast of Turnertown. Sun Oil Co., drillers.		
Surface material	20	20
Broken sand	60	80
Shale	178	258
Water sand	46	304
Casing perforated from 254 to 304 feet.		

<u>Well 701</u>		
Atlantic Refining Co. (Arnold), $1\frac{1}{4}$ miles southeast of Turnertown. Boling and Boling, drillers.		
Shale	145	145
Quicksand	65	210
Lignite and sandy shale	135	345
Gray water sand	30	375
Sandy shale	23	408
Casing perforated from 356 to 376 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 708</u>		
The Ohio Oil Co. No. 3 (S. H. Moore), 1 mile south of Turnertown.		
Clay	15	15
Clay and sand	70	85
Sandy shale	32	147
Sand	50	197
Rock	1	198
Screen from 187 to 198 feet.		

<u>Well 711</u>		
The Ohio Oil Co. No. 2 (S. H. Moore), 1 mile south of Turnertown.		
Clay	20	20
Shale and sand	70	90
Sand	105	195
Sand and lignite	80	284
Screen from 227 to 284 feet.		

<u>Well 712</u>		
Midstates Oil Corp. No. 2 (A. J. Deason), $\frac{3}{4}$ mile southeast of Turnertown. Walter A. Meller, driller.		
Surface material	10	10
Clay	8	18
Sand	10	28
Shale	7	35
Pecksand	6	41
Shale	75	116
Water sand	76	192
Gumbo	33	225
Casing perforated from 157 to 200 feet.		

<u>Well 713</u>		
Midstates Oil Corp. No. 1 (A. J. Deason), $\frac{3}{4}$ mile southeast of Turnertown. Walter A. Meller, driller.		
Soil and red clay	9	9
Sand	7	16
Shale	11	27
Sand and boulders	1	28
Shale	11	39
Sand	7	46
Gumbo	38	84
Shale	50	134
Water sand	47	181
Gumbo	10	191
Pecksand	26	217
Gumbo	2	219
Casing perforated from 157 to 196 feet.		

Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 716</u>		
Atlantic Refining Co. No. 2 (G. Young "F"), $\frac{1}{2}$ mile southeast of Turnertown, Bill Soling, driller.		
Clay and shale	120	120
Quicksand	30	300
Gray shale	45	245
Lignite and sand	10	255
Brown shale	15	270
Lignite and sand	5	275
Brown shale	15	290
Gray shale	15	305
Lignite and sand	5	310
Sand and sandy shale	60	370
Gray shale	35	405
Broken shale	32	437
Water sand	76	513
Casing perforated from 450 to 520 feet.		

<u>Well 717</u>		
Atlantic Refining Co. No. 1 (G. Young "F"), $\frac{1}{2}$ mile southeast of Turnertown, Bill Soling, driller.		
Shale	135	135
White quicksand	81	216
Brown shale	9	225
Water sand	5	230
Sandy shale	120	350
Water sand	35	385
Sandy shale	47	428
Casing perforated from 343 to 384 feet.		

<u>Well 720</u>		
Sun Oil Co. No. 1 (S. A. Selman), $\frac{1}{2}$ mile southwest of Turnertown, Sun Oil Co., drillers.		
Surface material	25	25
Shaley sand	51	76
Sand	56	132

<u>Well 721</u>		
Sun Oil Co. No. 2 (S. A. Selman), $\frac{1}{2}$ mile southwest of Turnertown, Walter A. Meller, driller.		
Clay and sand rock	27	27
Black shale	8	35
Shells	13	50
Shells and sand	25	75
Broken shale	147	222
Gummy shale	8	230
Gumbo	20	250
Loose shale	28	278

	Thickness (feet)	Depth (feet)
<u>Well 721--continued</u>		
Sandy shale	30	308
Pecksand	10	318
Sand	84	402
Casing perforated from 336 to 402 feet.		

<u>Well 728</u>		
The Ohio Oil Co. No. 1 (C. L. Graham), 2 miles southwest of Turnertown, S. C. Cox, driller.		
Clay and sand	50	50
Shale and sand	30	80
Water sand	40	120
Shale	295	415
Rock	1	416
Shale and boulders	71	487
Rock	5	492
Gummy shale	108	600
Rock	1	601
Gummy shale	109	710
Shale	63	773
Sand	24	797
Shale	8	805
Rock	1	806
Water sand	45	851
Shale	181	1032
Sand	42	1074
Screen: 108 feet placed opposite sands at 806-851 and 1,032-1,074 feet.		

<u>Well 729</u>		
The Ohio Oil Co. No. 2 (C. L. Graham), 2 miles southwest of Turnertown, S. C. Cox, driller.		
Sand and clay	50	50
Sand and shale	30	80
Water sand	30	110
Casing perforated from 65 to 110 feet.		

<u>Well 732</u>		
Amerada Petroleum Corp. No. 2 (T. J. Stovall), $1\frac{1}{2}$ miles south of Turnertown, Walter A. Meller, driller.		
Shale and gumbo	250	250
Shale and sand	45	295
Fine-grained sand and lignite	92	387
Sand	31	418

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Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 735</u>		
The Ohio Oil Co. No. 1 (E. T. Moore), 1 1/2 miles south of Turnertown. S. C. Cox, driller.		
Clay and sand	35	55
Sand, shale and boulders	365	420
Shale	20	440
Rock	2	442
Shale and sand	73	515
Rock	1	516
Sand	34	550
Shale and streaks of sand	60	610
Rock	2	612
Shale	23	635
Sand	23	712
Sandy shale	78	790
Sand	95	885
Sandy shale	5	890
Shale and streaks of sand	43	933
Gummy shale	68	1001
Casing perforated from 784 to 880 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 740</u>		
Atlantic Refining Co. (Strickland), 1 1/2 miles northeast of Carlisle. Golin and Boling, drillers.		
Shale and sand	50	50
Lignite, sand and shale	123	170
Shale	49	219
Water sand	40	259
Shale	60	319
Water sand	30	349
Shale	35	384
Casing perforated from 310 to 350 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 741</u>		
Sinclair-Prairie Oil Co. No. 1 (W. H. McCord), 1/2 mile northeast of Carlisle. L. T. Little, driller.		
Soil	3	3
Brown shale	20	23
Quicksand	12	35
Sand	39	74
Brown shale	3	77
Coarse-grained brown sand	3	80
Brown sand	7	87
Blue shale	10	97
Black lignite	2	101
Blue shale	37	138
Lignite	15	153
Sand and shale	3	156
Lignite	12	168
Brown shale	22	190

	Thickness (feet)	Depth (feet)
<u>Well 741--continued</u>		
Blue shale	4	194
Brown shale	19	213
Water sand	30	243

	Thickness (feet)	Depth (feet)
<u>Well 742</u>		
Carlisle School, in Carlisle. Layne-Texas Co., drillers.		
Soil	3	3
Red clay	7	10
Brown clay	15	25
White sand	62	87
Sand, shale and lignite	10	97
Shale	4	101
Grey sand	12	113
Sandy shale and lignite	31	144
Sandy shale	31	175
Sand and layers of shale	32	207
Shale	4	211
Sandy shale	12	223
Sand	15	238
Sand and layers of shale	55	293
Casing perforated at 225-237 and 241-260 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 743</u>		
Sinclair-Prairie Oil Co. (D. Ledbetter), 1 1/4 miles southwest of Carlisle. L. W. Little, driller.		
Clay	20	20
Sand	38	58
Brown shale	2	60
Blue shale	30	90
Brown shale	10	100
Blue shale	5	105
Water sand	25	130
Blue shale	35	165
Lignite	2	167
Blue shale	18	185
Brown shale	15	200
Lignite	2	202
Brown shale	18	220
Sandy shale	15	235
Brown shale	10	245
Sandy shale	10	255

	Thickness (feet)	Depth (feet)
<u>Well 744</u>		
The Ohio Oil Co. No. 1 (J. P. Mason), 1/2 mile northwest of Carlisle. Fred Fielder, driller.		
Sand and clay	120	120
Sand and shale	160	280
Sand	122	402

Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 748</u>		
Tide Water Associated Oil Co., No. 1 (C. B. Rollins), 1½ miles northwest of Carlisle. Walter A. Meller, driller.		
Clay	12	12
Sand	18	30
Lime and shells	1	31
Sand	29	60
Gumbo	109	169
Shale	11	180
Sand	6	186
Shale and gumbo	58	244
Sand	7	251
Shale	77	328
Sand	11	339
Shale and gumbo	46	385
Sand	5	390
Shale	15	405
Lime	5	410
Water sand	41	451
Casing perforated from 401 to 451 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 749</u>		
Humble Oil and Refining Co., No. 1 (M. and R. Kangerga), 2 miles northwest of Carlisle. Walter A. Meller, driller.		
Clay	30	30
Sand	110	140
Gumbo	42	182
Gumbo and sandy shale	68	250
Sand	15	265
Shale	67	332
Sand and sandy shale	63	395
Screen from 310 to 378 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 750</u>		
Sun Oil Co., No. 5 (H. Schuler "A"), 2 miles northwest of Carlisle. Sun Oil Co., driller.		
Surface material	15	15
Sand	15	30
Shells	50	80
Sand	35	115
Shale and shells	85	200

	Thickness (feet)	Depth (feet)
<u>Well 750--continued</u>		
Sand	45	245
Shale	33	278
Sand	36	314
Shale	3	317
Casing perforated from 275 to 317 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 751</u>		
Gulf Oil Corp. No. 1 (Mayfield "C"), 2½ miles northwest of Carlisle. C. L. Watts, driller.		
Clay and sand	85	85
Gravel	10	95
Water sand	45	140
Sand and shale	20	160
Shale and boulders	70	230
Sandy shale	155	385
Shale	62	447
Sandy shale and boulders	243	690
Rock	1	691
Water sand	138	829
Lignite	3	832
Screen from 710 to 829 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 752</u>		
Sinclair-Prairie Oil Co., No. 2 (W. D. Kinney), 2 miles northwest of Carlisle. Layne-Texas Co., drillers.		
Red clay	16	16
Sand	12	28
Blue shale	5	33
Red sand and layers of shale and lignite	37	70
White sand and lignite	22	92
Coarse-grained white sand	44	136
Gray shale and lignite	45	181
Shale and layers of hard sand	145	326
Fine-grained hard sand and lignite	23	349
Soft shale	14	363
Sand	5	368
Hard shale	28	396
Sand and layers of shale and lignite	59	455

(Continued on next page)

Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 752--continued</u>		
Hard shale	25	480
Hard shale and layers of sand	6	436
Gray water sand	17	505
Soft shale	5	510
Gray sand	3	513
Soft shale and lignite	37	555
Hard rock	5	558
Soft shale, hard layers of sand and lignite	74	632
Rock	1	633
Soft shale, thin layers of sand and lignite	59	692
Fine-grained sand	45	737
Gray sand and lignite	32	769
Soft shale	10	779
Sand	6	785
Rock	1	786
Fine-grained hard silty sand	13	804
Fine-grained white sand, shale, lignite	49	853
Soft shale	10	863
White sand	16	879
Soft shale	7	886
Gray sand	24	910
Rock	1	911
Fine-grained sand, shale, lignite	19	930
Soft shale	16	946
Screen at 435-504, 754-795 and 811-911 feet.		

Well 754

The Chic Oil Co. No. 1 (C. M. Cross), 2 miles northwest of Carlisle.

Clay	15	15
Water sand	65	80
Sand, shale and boulders	130	210
Rock	1	211
Sand, shale and boulders	130	341
Sand rock	4	345
Sandy shale	25	370
Rock	1	371
Sandy shale	69	440
Rock	3	443
Sand	53	500
Shale	125	625
Rock	1	626
Sand	247	873

Casing perforated from 739 to 873 feet.

	Thickness (feet)	Depth (feet)
<u>Well 753</u>		
City of Henderson No. 5, in Henderson, 1 mile east of courthouse, Levine-Texas Co., drillers.		
Red clay	9	9
Red sand	20	29
Blue sand	28	57
Shale	32	95
Fine-grained sand	19	114
Shale	80	200
Sand and streaks of lignite	22	222
Shale	21	243
Shale and streaks of sand and lignite	57	300
Shale	54	354
Sand	13	372
Shale	52	424
Sand	11	435
Shale	16	451
Shale and streaks of fine-grained muddy sand and thin layers of rock	47	498
Good sand	32	530
Sand and streaks of shale	36	566
Shale and hard streaks	114	680
Rock	2	682
Shale and boulders	43	725
Tough shale and boulders	15	740
Shale and boulders	80	820
Rock	1	821
Good sand	20	841
Broken sand and shale	9	850
Shale	18	868
Screen at 490-572 and 593-654 feet.		

Well 759

City of Henderson test No. 3-1, in Henderson, 1/2 mile southeast of courthouse, Levine-Texas Co., drillers.

Soft sandy clay	58	58
Shale and sandy shale	74	132
Hard shale and streaks of lignite	91	223
Sand and shells (hard)	18	241
Rock	1	242
Hard shale	11	253
Shale and sandy shale	54	307
Fine-grained hard sand	16	323
Shale	22	345
Hard sand	14	359

(Continued on next page)

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Table of drillers' logs, Rusk County. -Continued

	Thickness (feet)	Depth (feet)
<u>Well 759--continued</u>		
Shale	7	330
Sand	3	333
Shale	29	393
Hard sand	13	411
Shale and sandy shale	56	467
Fine-grained hard sand	11	478
Sandy shale	13	491
Rock	1	492
Sand	3	495
Shale	12	507
Sand	75	582
Sandy shale	5	587
Sand	8	595
Sandy shale	5	600
Hard sand	54	634
Fine-grained sand	13	647
Shale	4	651
Sand	6	657
Shale	20	677
Rock	1	678
Shale and boulders	23	701

Well 760

City of Henderson test No. 4-2, in  
Henderson,  $\frac{1}{2}$  mile southwest of courthouse.  
Layne-Texas Co., drillers.

Red clay	10	10
Shale and sand	75	85
Shale and sandy shale	61	146
Rock	1	147
Shale, sandy shale and streaks of lignite and sand	223	370
Rock	1	371
Shale and sand	9	380
Hard sand	15	393
Sand and shale layers	16	409
Shale and sand layers	57	466
Rock	1	467
Hard shale, sandy shale and boulders	53	520
Rock	1	521
Sand and shale	13	539
Hard sand	12	551
Sandy shale (hard)	8	559
Sand	95	654

	Thickness (feet)	Depth (feet)
<u>Well 760--continued</u>		
Sand and shale	7	661
Shale	22	683
Sand	57	740
Rock	2	742
Sand	11	753
Sand and sandy shale	24	777
Shale	17	794

Well 761

City of Henderson test No. 5-2, in  
Henderson, 0.9 mile southeast of court-  
house. Layne-Texas Co., drillers.

Sand and clay	40	40
Sand	30	70
Shale	152	222
Rock	1	223
Sandy shale	15	238
Sand	23	260
Sandy shale	13	284
Sand	14	298
Sandy shale (hard)	37	335
Hard shale	40	375
Sand	4	379
Sand, shale and lignite	70	449
Shale and sandy shale	6	455
Rock	2	457
Shale	2	459
Sandy shale	25	484
Shale	8	492
Sand	26	518
Rock	1	519
Sand	28	547
Broken shale	8	555
Sand and lignite	11	566
Broken sandy shale	27	593
Sand	36	629
Shale	21	650
Rock	1	651
Shale	9	660
Rock	1	661
Shale and sandy shale	27	688
Sand and shale breaks	31	719
Sand	5	724
Sandy shale	12	736
Rock (hard)	2	738
Shale and sandy breaks	21	759

- 45 -  
Table of drillers' logs, Rusk County--Continued

	Thickness (feet)	Depth (feet)
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Well 762

City of Henderson No. 6, in Henderson,  
1 mile east of courthouse. Layne-Texas  
Co., drillers.

Soil	3	3
Yellow clay	30	33
Blue sand and shale	61	94
Shale and layers of lignite	17	111
Fine-grained sand	15	126
Shale and layers of sand	65	191
Fine-grained sand	10	201

	Thickness (feet)	Depth (feet)
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Well 762--continued

Soft rock	1	202
Shale	4	206
Fine-grained sand and lignite	188	394
Fine-grained packsand	30	424
Sand (Good)	22	446
Shale	23	469
Sand (Good)	130	599
Hard lignite	7	606
Sand	3	609
Screen from 487 to 592 feet.		

Partial analyses of water from wells in Rusk County, Texas

Analyzed at The University of Texas under the direction of W. W. Hastings, Chemist, 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	Owner or (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
31-b	Tide Water Associated Oil Co.No.2 (W. P. Moore)	820	Oct. 7, 1941	330	0	0	135	281	46	11	0.3	a/	0
b/ 32	Gulf Pipe Line Co. (W. Florence)	1,033	June 5, 1936	1,452	25	5	555	634	20	535	-	-	83
32	do.	1,033	Oct. 6, 1941	1,411	4.4	1.2	564	500	18	575	0.3	2.0	16
47-a	Magnolia Petroleum Co. (Dick Wells)	862	Nov. 28, 1931	-	-	-	-	-	20	330	-	-	15
47-a	do.	862	Oct. 9, 1941	398	2.8	2.4	163	421	15	8.0	-	a/	17
b/336-a	Humble Oil and Ref. Co.No.1 (M.& R.Kangerga "A")	259	Jan. 20, 1942	201	22	9.7	25	12	109	19	0	0.5	96
415	City of Henderson No. 2	558	June 19, 1936	220	3	1	90	238	c/	9	-	-	11
416	City of Henderson No. 4	583	do.	162	3	2	63	171	c/	10	-	-	17
628	Tide Water Associated Oil Co.No.2 (Nat Bean "A")	437	Oct. 4, 1941	389	3.6	0.2	158	372	38	6.0	-	a/	10

a/ Less than 20 parts per million.

b/ Analyses of water from selected wells are given in milligram equivalents per liter on page 56 .

c/ Less than 10 parts per million.

d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.



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

Results are in parts per million

Well	Owner or (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
629	Gulf Oil Corp. No. 3 (M.E.Peterson)	440	Aug. 28, 1941	359	8	1.5	140	354	27	8.0	-	a/	26
630	Houston Oil Co. No. 3 (D.M.Peterson)	378	Oct. 16, 1941	412	16	1.2	153	409	31	7.0	-	3.0	46
631	Humble Oil and Ref. Co.No.2 (B.F.Laird "A")	889	Oct. 4, 1941	622	d/	1.5	259	573	31	48	-	0	6
633	Sinclair-Prairie Oil Co.(Major Kennedy "C")	500	Oct. 8, 1941	357	8.4	1.2	142	384	10	6.0	-	a/	26
634	Star Bailey School	25	Jan. 21, 1942	44	2.8	3.6	9.0	18	10	5.5	-	4.0	17
636	Snowden and McSweeney (Francis Bean)	665	Oct. 15, 1941	665	4.8	2.4	273	683	38	10	0.7	a/	22
638	Midstates Oil Corp. (Brightwell "A")	168	Oct. 7, 1941	351	49	27	36	0	31	208	0.1	a/	232
639	Houston Oil Co. (W.P.Brightwell)	625	Dec. 6, 1941	460	9.6	6.1	166	384	77	10	0.2	a/	49
640	Atlantic Ref. Co. (Mose Brock)	400	Oct. 6, 1941	559	2.4	1.2	232	567	35	9.0	0.4	a/	11
641	H.G.Samson, Inc. (Mose Brock)	788	Oct. 7, 1941	558	0.4	1.2	236	586	20	11	1.0	a/	6
642	Brock Oil Co. (Murphy and Roberts)	900	Oct. 8, 1941	403	2.8	3.6	164	439	15	0.5	1.2	0	22

a/ Less than 20 parts per million.

b/ Analyses of water from selected wells are given in milligram equivalents per liter on page 56.

c/ Less than 10 parts per million.

d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.

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

Results are in parts per million

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
643	Midstates Oil Corp. (Brightwell "B")	329	Oct. 7, 1941	1,019	6.0	0	415	610	12	285	1.0	a/	15
644	J.S.Abercrombie Co. and Harrison Oil Co. (M.A.Cantrell)	600	Oct. 8, 1941	303	20	1.2	145	415	23	5.0	0.4	a/	56
b/645	Tide Water Associated Oil Co. (F.L.Bunton "B")	780	Jan. 19, 1942	509	0.4	1.2	214	525	26	9.5	0.3	0	6
b/647	Tide Water Associated Oil Co.No.1 (H.P.Leverett)	1,075	do.	2,082	9.6	6.1	815	519	26	970	0.4	0	49
650	Magnolia Petroleum Co.(W.P. Moore)	95	Oct. 7, 1941	228	26	9.7	39	73	94	23	0.1	a/	106
651	Devonian Oil Co. (R. A. Motley)	343	Oct. 6, 1941	234	20	9.7	46	61	108	20	0.1	a/	91
b/652	City of Overton No. 3	338	Oct. 7, 1941	140	11	3.6	32	24	61	20	0	0	42
653	Humble Oil and Ref.Co.No.2 (R.E.L.Silvey "A")	562	Oct. 10, 1941	306	14	0	114	317	16	5.0	-	a/	35
656	Humble Oil and Ref.Co.No.4 (Ida Holt "B")	596	Oct. 17, 1941	293	6.8	2.4	109	262	38	7.0	-	a/	27
b/658	New London School	537	Oct. 9, 1941	252	8.4	1.2	84	122	81	17	0.1	a/	26

a/ Less than 20 parts per million.

b/ Analyses of water from selected wells are given in milligram equivalents per liter on page 56.

c/ Less than 10 parts per million.

d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.

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

Results are in parts per million

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
659	Olsan Bros.Inc. (C.W.Mullins)	500	Jan. 19, 1942	183	47	3.6	22	201	7	4.5	-	0	132
661	Gulf Oil Corp. No. 3 (T.B.Cashen)	328	Oct. 7, 1941	143	6.8	3.6	40	49	46	22	0.1	a/	32
663	Stanolind Oil and Gas Co. (W.O.Alford)	675	Oct. 17, 1941	171	18	7.3	31	49	69	22	-	a/	75
665	G.H.Vaughn Prod. Co.(L.F.Thrash)	1,000+	do.	746	6.8	3.6	302	641	16	102	0.9	a/	32
b/666	Wilford Oil Co. (M. A. Thrash)	195	Jan. 19, 1942	140	10	8.5	29	61	41	20	-	1.0	60
667	Stanolind Oil and Gas Co. (J. B. Milstead)	390	May 9, 1940	161	-	-	29	18	82	19	-	0.4	66
667	do.	390	Jan. 19, 1942	140	16	9.7	17	31	64	18	-	0	81
b/671	D. B. Malernee (E. B. Alford)	880	do.	298	2.0	7.3	112	299	23	5.5	0.8	0	35
672	Octo Oil Corp. (Cox "C")	200	do.	108	7.6	6.1	20	12	52	16	-	0	44
673	Atlantic Ref.Co. (W.H.Frederick)	440	do.	243	1.6	6.1	34	171	56	9.0	-	2.0	29
674	Tres Oil Corp. (Camp "A")	98	Oct. 8, 1941	70	5.6	6.1	8.7	0	31	18	0.2	a/	39
b/676	Panola Pipe Line Co. (--Ashby)	100+	Jan. 19, 1942	60	8.4	1.0	10	6	27	10	0.1	0	25
677	do.	100+	May 7, 1940	103	-	-	13	0	59	12	-	0.0	51
679	Tidal Pipe Line Co. (D.Bradford "E")	329	Jan. 19, 1942	223	18	6.1	61	177	34	15	-	2.0	69
680	Pine Petroleum Corp.(Mayfield- Alford)	420	Oct. 8, 1941	136	7.2	4.9	61	165	20	11	-	a/	38

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49  
1

a/ Less than 20 parts per million.

b/ Analyses of water from selected wells are given in milligram equivalents per liter on page 56.

c/ Less than 10 parts per million.

d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.

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

Results are in parts per million

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
681	Parade Gasoline Co. No. 2 (C. C. Giles)	457	May 9, 1940	282	-	-	112	194	76	6.0	-	2.9	6.0
681	do.	457	Jan. 19, 1942	279	4.8	2.4	101	201	64	6.0	-	1.5	22
b/682	Parade Gasoline Co. No. 3 (C. C. Giles)	466	Jan. 21, 1942	343	e/	2.4	124	159	124	14	0	0.5	10
683	Spandsco Oil & Ref. Co. (W. P. Brett)	400+	Jan. 19, 1942	228	4.8	2.4	81	159	52	8.0	-	1.3	22
685	Atlantic Ref. Co. (M. L. Thompson)	500+	Jan. 20, 1942	164	17	12	24	85	56	12	0.1	0.5	93
688	British-American Oil Co. (Kangerga Bros.)	508	do.	296	50	17	26	116	124	20	-	1.5	196
689	British-American Oil Co. (J. D. Stone)	482	do.	279	44	17	23	67	139	22	-	0.5	180
690	Beacon Oil and Ref. Co. (C. C. Giles)	376	May 9, 1940	392	-	-	143	114	195	15	-	4.0	9.0
691	Retsal Drilling Co. (J. T. Brown)	500+	Jan. 19, 1942	93	13	12	d/	6	52	12	-	0.5	83
692	Haynes Oil Corp. (J. T. Brown)	500+	May 7, 1940	431	-	-	155	110	249	21	-	4.8	45

a/ Less than 20 parts per million.

b/ Analyses of water from selected wells are given in milligram equivalents per liter on page 56 .

c/ Less than 10 parts per million.

d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.

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

Results are in parts per million

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
692	Haynes Oil Corp. (J. T. Brown)	500+	Jan. 20, 1942	309	20	6.1	81	116	124	17	-	4.0	74
693	do.	300+	May 7, 1940	152	-	-	12	0	94	12	-	0.0	90
693	do.	300+	Jan. 20, 1942	120	22	8.5	0.9	0	75	13	0.2	0.5	90
695	Shell Oil Co. Inc. (H. Brooks)	340+	do.	112	22	6.1	4.6	6	64	12	-	0.5	79
697	Miller Production Co. (D. Bradford "B")	355	Jan. 19, 1942	195	6.0	e/	75	183	13	10	-	1.0	15
b/698	Gaston School	415	May 8, 1940	145	-	-	62	142	10	9.0	-	0.0	4.0
698	do.	415	Sept. 18, 1941	146	2.4	2.7	54	134	13	8.0	0.1	a/	17
700	Sun Oil Co. (R. J. Hendon)	304	Jan. 19, 1942	234	12	e/	85	226	15	9.5	-	1.0	30
701	Atlantic Ref. Co. (-- Arnold)	408	Jan. 20, 1942	244	2.0	8.5	86	232	26	5.5	-	2.0	40
702	Frankel et al (J. E. Arnold)	450	do.	260	15	2.4	79	146	86	5.5	-	0.5	47
703	Stuart Petr. Co. (Dr. Deason)	250+	do.	99	17	2.4	12	12	52	10	-	0	52
705	T. C. Adams (J. F. Arnold)	190+	Jan. 21, 1942	107	18	8.5	3.9	12	56	14	-	0.5	80
706	Texas Trading Co. (A. J. & D. F. Deason)	311	do.	166	14	7.3	29	12	97	12	-	0.5	65
707	Ebony Oil Co. (A. J. Deason)	239	do.	115	13	12	6.4	12	64	14	-	0	82
708	The Ohio Oil Co. No. 3 (S. H. Moore)	198	Jan. 20, 1942	120	14	7.3	12	0	75	12	-	0	65
709	The Ohio Oil Co. (S. H. Moore)	198	do.	98	14	9.7	e/	0	64	10	-	0.5	76

a/ Less than 20 parts per million.

b/ Analysis of water from selected wells are given in milligram equivalents per liter on page 56 .

c/ Less than 10 parts per million.

d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.

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

Results are in parts per million

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K (calc.))	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
b/710	The Ohio Oil Co. No. 5 (S. H. Moore)	200	Jan. 20, 1942	208	28	16	13	0	135	16	0.1	0	135
b/712	Midstates Oil Corp. No. 2 (A.J. Deason)	225	do.	103	13	11	4.1	12	56	12	-	0.5	77
715	Dalclark Oil Corp. (C. Young "B")	460	Sept. 19, 1941	154	22	10	11	0	100	11	-	a/	96
b/716	Atlantic Ref. Co. No. 2 (C. Young "F")	543	Jan. 21, 1942	331	4.8	2.4	129	323	25	6.5	0.4	2.0	22
717	Atlantic Ref. Co. No. 1 (C. Young "F")	428	Sept. 22, 1941	357	15	14	89	104	169	18	-	1.0	93
718	Granite Oil Trust (C. Young)	-	Jan. 21, 1942	133	16	15	0.9	0	86	15	-	0.5	99
b/719	S. A. Selman	153	Jan. 19, 1942	206	44	16	0.5	0	139	22	-	0.5	175
721	Sun Oil Co. No. 2 (S. A. Selman)	402	Jan. 21, 1942	403	4.0	7.3	149	354	56	9.5	0.2	3.0	40
722	Arkansas Fuel Oil Co. (G. Ferguson)	400+	Jan. 20, 1942	213	8.0	7.3	63	140	56	9.5	-	0.5	50
723	Jackson, Wise and Sneedon (J. B. Wilson)	440	do.	268	27	12	52	134	94	14	-	3.0	117
724	Midstates Oil Corp. (M. & R. Kangerga)	504	do.	252	6.8	3.6	88	195	52	6.0	-	0	32
725	Atlantic Ref. Co. (Pinkston "A")	511+	do.	269	7.2	4.9	88	171	75	7.5	0.1	2.0	38
726	Atlantic Ref. Co. (R. W. Fair)	250+	Sept. 22, 1941	232	0.4	2.7	90	195	35	8.0	0.2	0	12

a/ Less than 20 parts per million.

b/ Analyses of water from selected wells are given in milligram

equivalents per liter on page 56 .

c/ Less than 10 parts per million.

d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.

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

Results are in parts per million

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Cal- (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
727	British-American Oil Co. (--Murphy)	416	Jan. 20, 1942	273	4.8	2.4	100	214	56	4.0	-	1.0	22
b/730	Lone Pine Oil Co. (--Pinkston)	126	do.	101	18	7.3	3.0	0	56	16	-	0.5	75
732	Amerada Petroleum Corp. No. 2 (T.J.Stovall)	421	May 6, 1940	253	-	-	99	168	76	4.0	-	0.0	7.5
732	do.	421	Jan. 21, 1942	224	2.8	3.6	78	146	60	5.5	-	2.0	22
b/733	Lisbon Gasoline Co. No. 1 (F. E. Moore)	667	Sept. 17, 1941	458	d/	d/	194	476	27	3.0	0.1	a/	0
b/734	Lisbon Gasoline Co. No. 2 (F. E. Moore)	486	do.	158	16	10	19	0	100	13	0	a/	81
736	Gant, Garvin and Vegeener (W. P. Moore)	300	May 7, 1940	291	-	-	125	286	13	5.0	-	2.1	9.0
736	do.	300	Jan. 21, 1942	312	21	3.4	105	329	12	8.5	0.4	0	67
737	Atlantic Pipe Line Co. (W.P. Moore)	-	May 7, 1940	291	-	-	128	300	3.0	4.0	-	0.0	6.0
739	Atlantic Ref. Co. (I. L. Kinney)	700+	Jan. 21, 1942	306	2.4	1.2	126	323	11	4.5	0.3	2.0	11
b/740	Atlantic Ref. Co. (--Strickland)	390	Sept. 22, 1941	281	d/	1.5	116	287	10	6.0	0.2	6.0	6
741	Sinclair-Prairie Oil Co. No. 1 (W.H. McCord)	243	Jan. 21, 1942	403	0.4	1.2	169	421	15	8.5	-	2.0	6
b/742	Carlisle School	275	Sept. 18, 1941	477	2.4	2.7	199	531	5	6.0	1.2	a/	17

1  
59  
1

a/ Less than 20 parts per million.  
 b/ Analyses of water from selected wells are given in milligram  
 equivalents per liter on page 56 .  
 c/ Less than 10 parts per million.

d/ Less than 5 parts per million.  
 e/ Less than 3 parts per million.  
 f/ Analyzed by State Department of Health.

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

Results are in parts per million

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
b/743	Sinclair-Prairie Oil Co. (D.Ledbetter)	136	Jan. 21, 1942	232	8.4	1.2	85	214	25	7.0	-	0.5	26
744	The Ohio Oil Co. No. 1 (J.F.Mason)	402	do.	94	13	11	0.5	0	52	15	-	1.5	77
745	Magnolia Petroleum Co. (T.O.Mason)	400+	do.	75	7.6	6.1	9.2	0	26	26	-	0	44
746	The Texas Co. (Cora Hanna)	80	do.	90	6.0	8.5	15	49	20	16	-	0	50
747	British-American Oil Co. (J. Mayfield)	495	Jan. 20, 1942	265	0.8	3.6	106	275	10	8.0	-	2.0	17
748	Tide Water Asso- ciated Oil Co. No. 1 (C. B. Rollins)	451	do.	709	2.8	2.4	292	709	52	12	-	0	17
749	Humble Oil & Ref. Co. No. 1 (M.& R. Kangerga)	395	do.	457	1.2	4.9	180	415	56	10	-	1.0	23
750	Sun Oil Co.No.5 (H.Schüler "A")	317	do.	815	6.8	3.6	334	781	15	59	1.4	1.0	32
751	Gulf Oil Corp.No.1 (Mayfield "C")	832	do.	927	6.8	3.6	380	811	8	130	-	0	32
b/752	Sinclair-Prairie Oil Co. No. 2 (W. D. Kinney)	946	do.	819	0.4	1.2	346	781	15	69	1.4	2.0	6
753	The Ohio Oil Co. No. 2 (M.M.Cross)	62	Oct. 4, 1941	506	22	8.5	160	0	15	300	0.2	a/	90
753	do.	62	Jan. 20, 1942	615	12	15	205	0	13	370	-	0	39
755	The Ohio Oil Co. No. 6 (M.M.Cross)	65	do.	176	12	9.7	39	6	22	90	-	0	71

a/ Less than 20 parts per million.

b/ Analyses of water from selected wells are given in milligram  
equivalents per liter on page 56.

c/ Less than 10 parts per million.

d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.



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

Results are in parts per million

Well	Owner (Lessor)	Depth of well (ft.)	Date of collection	Total dissolved solids	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
b/756	The Ohio Oil Co. No. 5 (M. M. Cross)	65	Jan. 20, 1942	139	12	7.3	29	6	20	68	0.1	0	60
b/758	City of Henderson No. 5	727	June --, 1942	473	11	5	194	400	9	34	1.3	0.4	43
f/759	City of Henderson test no. 3-1	634- 647	Jan. --, 1942	596	-	-	157	354	0	9.0	0.9	-	-
f/760	City of Henderson test no. 4-2	577- 588	Jan. --, 1942	982	-	-	282	571	0	55	-	-	-
f/760	City of Henderson test no. 4-2	704- 715	Feb. --, 1942	1,112	1.3	-	309	673	0	45	1.6	-	3.2
f/761	City of Henderson test no. 5-3	246- 257	Feb. --, 1942	292	4.7	1.1	66	172	2.5	11	0.7	-	16
f/761	City of Henderson test no. 5-3	493- 504	Feb. --, 1942	1,116	-	0	308	688	0	23	1.7	-	-
f/761	City of Henderson test no. 5-3	600- 611	Feb. --, 1942	845	2.8	0.4	230	483	6.2	40	1.8	-	8.6
f/761	City of Henderson test no. 5-3	683- 694	Feb. --, 1942	795	2.3	0.6	202	512	1.9	3.5	1.4	-	9.2
b/762	City of Henderson No. 6	609	Aug. --, 1942	230	5	2	88	201	6	7	0.4	0.4	21

e/ Less than 20 parts per million.

b/ Analyses of water from selected wells are given in milligram equivalents per liter on page 56 .

c/ Less than 10 parts per million.

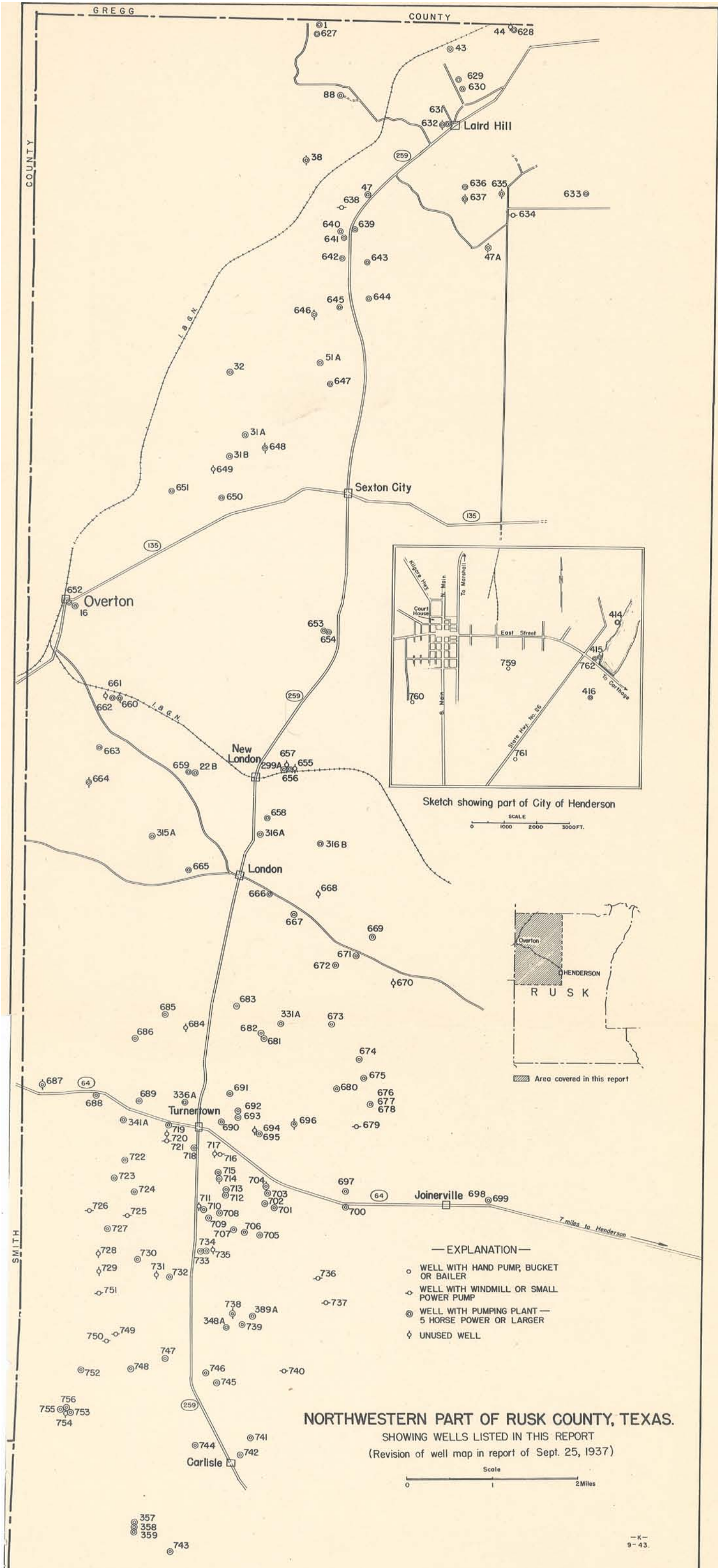
d/ Less than 5 parts per million.

e/ Less than 3 parts per million.

f/ Analyzed by State Department of Health.

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 <sub>3</sub> )	Sul- fate (SO <sub>4</sub> )	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.) <sup>3</sup>
32	Gulf Pipe Line Co. (W. Florence)	1,033	Oct. 6, 1941	0.22	0.10	24.50	8.20	0.37	16.22	0.02	0.03	0.32
336-a	Humole Oil and Ref. Co.No.1 (M. & R. Kangerga "A")	259	Jan. 20, 1942	1.12	.80	1.09	.20	2.26	.54	0	.01	1.92
645	Tide Water Associated Oil Co. (F.L.Suntyn "B")	780	Jan. 19, 1942	.02	.10	9.30	8.60	.55	.27	.02	0	.12
647	Tide Water Associated Oil Co. (H.P.Leverett)	1,075	do.	.48	.50	35.43	8.50	.55	27.36	.02	0	.98
652	City of Overton No. 3	338	Oct. 7, 1941	.54	.30	1.40	.40	1.28	.56	0	0	.84
658	New London School	537	Oct. 9, 1941	.42	.10	3.64	2.00	1.68	.48	.01	-	.52
666	Milford Oil Co. (M. A. Thrash)	195	Jan. 19, 1942	.50	.70	1.24	1.00	.86	.56	-	.02	1.20
671	D. B. Malornee (F. B. Alford)	380	do.	.10	.60	4.88	4.90	.48	.16	.04	0	.70
676	Panola Pipe Line Co. (-- Ashby)	100+	do.	.42	.08	.44	.10	.56	.28	.01	0	.50
682	Parade Gasoline Co. No. 3 (O. C. Giles)	466	Jan. 21, 1942	0	.20	5.37	2.60	2.56	.39	0	.01	.20
698	Gaston School	415	Sept. 18, 1941	.12	.22	2.36	2.20	.27	.23	.01	-	.34
710	The Ohio Oil Co. No. 5 (S. H. Moore)	200	Jan. 20, 1942	1.40	1.0	.56	0	2.81	.15	.01	0	2.70
712	Midstates Oil Corp. No. 2 (A. J. Deason)	225	do.	.64	.90	.18	.20	1.17	.34	-	.01	1.54
716	Atlantic Ref. Co. No. 2 (C Young "F")	543	Jan. 21, 1942	.24	.20	5.59	5.30	.52	.18	.02	.03	.44
719	S. A. Selman	153	Jan. 19, 1942	2.20	1.30	.02	0	2.89	.62	-	.01	3.50
730	Lone Pine Oil Co. (-- Pinkston)	126	Jan. 20, 1942	.90	.60	.13	0	1.17	.45	-	.01	1.50
733	Lisbon Gasoline Co.No. 1 (E. E. Moore)	567	Sept. 17, 1941	0	0	8.44	7.80	.56	.08	.01	-	0
734	Lisbon Gasoline Co.No. 2 (E. E. Moore)	486	do.	.80	.82	.33	0	2.08	.37	0	-	1.62
740	Atlantic Ref. Co. (-- Strickland)	390	Sept. 22, 1941	0	.12	5.06	4.70	.21	.17	.01	.10	.12



**NORTHWESTERN PART OF RUSK COUNTY, TEXAS.**  
 SHOWING WELLS LISTED IN THIS REPORT  
 (Revision of well map in report of Sept. 25, 1937)

- EXPLANATION —
- WELL WITH HAND PUMP, BUCKET OR BAILER
  - ◐ WELL WITH WINDMILL OR SMALL POWER PUMP
  - ⊗ WELL WITH PUMPING PLANT — 5 HORSE POWER OR LARGER
  - UNUSED WELL