

Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
								Below land surface datum (ft)	Date of measurement			
*SB-61-58-505	City of Liberty well 1	-- Tucker	--	651	4	Ev	30	8 31.0 43.1	Nov. 1944 Apr. 9, 1958 Feb. 26, 1964	N	N	Reported flowed 40 gpm, Nov. 1944. Observation well. Unused public supply well. Temp. 76°F. ^{3/}
* 506	John Mecom	--	--	540	4	Ev	+ 33	+	Jan. 1966	Flows	D	Supplies water for swimming pool. Estimated flow 5 gpm, Jan. 1966.
* 507	Mecom & Harrison	--	1903	260	4	Ch	25	+	Dec. 1944	Flows, T, F, 7-1/2	S	Formerly used for rice irrigation. Reported flowed 150 gpm in 1903; flowed 50 gpm in Dec. 1944. Temp. 71°F.
* 508	Trinity Valley Cold Storage Co.	--	1924	350	10	Ev	30	--	--	N	N	Formerly used for rice irrigation. Reported destroyed in 1965.
* 509	C. W. Fisher	C. W. Fisher	1895	232	2	Ch	28	34	1908	N	N	Reported flow 17 gpm in 1908. Formerly used for swimming pool. Destroyed.
* 510	Louis Fair	Louis Fair	1933	18	2	Ch	31	8	Jan. 1945	N	N	Driven well. Screen from 14 ft to bottom. Destroyed in 1965.
* 511	Mecom & Harrison	Serles Yount	1909	260	8	Ch	23	5.0 6.4	Dec. 9, 1944 Apr. 18, 1951	N	N	Formerly used for livestock. Unable to locate. Destroyed in 1965. ^{3/}
* 512	do	--	1903	260	4	Ch	23	--	--	N	N	Formerly used for rice irrigation. Destroyed in 1965.
* 514	Southern Pacific RR.	Layne-Bowler Co.	1911	601	10	Ev	35	--	--	N	N	Formerly used as industrial well. Screen from 559 to 591 ft. Destroyed in 1965.
* 515	City of Liberty well 1-A	-- Walling	--	680	8	Ev	23	7 14.7	Dec. 1944 Apr. 12, 1954	N	N	Observation well from 1944 to 1954 dropped. Formerly used for public supply. Old well. Abandoned. ^{3/}
* 516	Layl Sandwich Shop	Pitre Water Well Drilling Co.	1940	119	4	Ch	30	17	Dec. 1944	N	N	Screen from 98 to 108 ft. Formerly used for public supply. Destroyed. ^{3/}
* 517	City of Liberty	-- Tucker	--	695	8	Ev	28	18	1931	N	N	Formerly used for public supply. Old well. Abandoned, 1939.
* 518	Mrs. Maggie L. Moorefield	Pitre Water Well Drilling Co.	1941	200	2	Ch	30	18	Aug. 1941	N	N	Formerly used as domestic well. Destroyed.
* 601	City of Liberty	do	1953	818	4,2	Ev	42	31	Mar. 1953	N	N	Screen from 793 ft to bottom. Well originally drilled in 1946 but deepened to 818 ft in 1953. Formerly a public supply well. Abandoned in 1965.
* 602	do	do	1952	786	4	Ev	42	30	Aug. 1952	N	N	Screen from 747 ft to bottom. Formerly used as public supply. Abandoned in 1965.
* 603	do	do	1953	341	4	Ch	46	--	--	N	N	Formerly used for public supply. Abandoned in 1965.

See footnotes at end of table.

Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
								Below land surface datum (ft)	Date of measurement			
*SB-61-58-605	A. C. Neyland	--	1927	28	4	Ch	42	12	Mar. 1945	N	N	Screen from 24 ft to bottom. Abandoned in 1965.
* 606	Sun Pipeline Co.	Sun Pipeline Co.	1932	40	6	Ch	31	10	Apr. 1945	N	N	Screen from 30 ft to bottom. Destroyed in 1966.
607	Liberty County	Pitre Water Well Drilling Co.	1943	65	4	Ch	20	19	Oct. 1943	N	N	Well located at fairgrounds. Screen from 45 to 57 ft. Destroyed by 1966.
608	do	do	1943	65	2	Ch	38	19	do	N	N	Formerly used as public supply at fairgrounds. Screen from 47 to 57 ft. Destroyed by 1966.
* 609	Ames Minglewood	Layne-Texas Co.	1964	610	4	Ev	73	94	May 1964	T,E,14	P	Screen from 519 to 550 and 570 to 600 ft.
* 702	Texas Pipeline Co.	J. M. Trager	1918	350	6	Ch	20	8.0	June 15, 1945	N	N	Formerly supplied water for pumping station. Destroyed by 1966. ^{3/}
703	Bullard & Wilson well 5	--	--	670	--	--	13	--	--	--	--	Oil test. Salt water charged with hydrogen sulfide reported below 360 ft. Well abandoned and casing pulled. Old well.
705	J. C. Baldwin well 4	Humble Oil & Refining Co.	1953	10,357	--	--	20	--	--	--	--	Oil test. ^{2/}
802	Florance Fisher	do	1949	6,788	--	--	18	--	--	--	--	Do.
803	E. F. Simms well 1	do	1953	7,099	--	--	21	--	--	--	--	Do.
804	A. Deussen Fee "A"	Gulf Oil Co.	1955	2,265	--	--	18	--	--	--	--	Do.
805	M. Van Deventer well 1	Humble Oil & Refining Co.	--	6,017	--	--	20	--	--	--	--	Do.
901	Cliff Tevis well 1	The Texas Co.	1955	9,500	--	--	17	--	--	--	--	Do.
59-101	Jack Turner	Katy Drilling Co.	1954	404	18,10	Ev,Ch	70	62.4	Mar. 25, 1965	T,G	Irr	Casing: 18-in. to 240 ft, 10-in. from 240 ft to bottom. 234 ft of slotted pipe.
102	Graves & Partlow	do	1952	600	20,12	Ev,Ch	72	54.5 59.3	Jan. 14, 1960 Mar. 25, 1965	T,G	Irr	Cased to bottom. 453 ft of screen. Gravel-walled.
103	do	Texas Water Wells, Inc.	1951	600	--	Ev,Ch	72	54.6	Jan. 14, 1960	T,G	Irr	
* 104	do	do	1948	800	20,13, 12,10	Ev	72	27.7	do	N	N	Formerly used for irrigation. Gravel-walled. Reported destroyed.
105	Felton & Dennison	Katy Drilling Co.	1951	522	24,12	Ev,Ch	70	--	--	N	N	Cased to bottom. Formerly used for irrigation. 347 ft of screen. Collapsed not used.

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Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
								Below land surface datum (ft)	Date of measurement			
SB-61-59-106	Graves & Partlow	Katy Drilling Co.	1963	485	20,12	Ev	72	--	--	T,G	Irr	Casing: 20-in. to 323 ft, 12-in. from 323 to 482 ft. Originally drilled to 620 ft, plugged back to 485 ft.
107	F. M. Graves	do	1951	539	24,16,10	Ev,Ch	72	54.2 63.8	Jan. 14, 1960 Mar. 25, 1965	N	N	Casing: 24-in. to 220 ft, 16-in. from 220 to 280, 10-in. from 280 to bottom. 416' ft of screen. Abandoned irrigation well.
108	John Tarlton	Humble Oil & Refining Co.	1947	10,036	--	--	69	--	--	--	--	Oil test. ^{2/}
109	A. S. J. Stevenson well 1	Hunt Oil Co.	1948	9,344	--	--	72	--	--	--	--	Do.
110	Graves & Partlow	Katy Drilling Co.	1964	530	20,12	Ev,Ch	71	85	Mar. 1964	T,G	Irr	Cased to bottom. 342 ft of slotted pipe. Reported discharge 2,316 gpm, test by driller.
112	Frank S. Spear	Pitre Water Well Drilling Co.	1963	77	2	Ch	69	31	Sept. 1963	J,E,1/2	D	Screen from 66 to 72 ft.
201	G. F. and J. O. Dennison	Katy Drilling Co.	1953	570	20,12	Ev,Ch	71	54.9	Jan. 19, 1960	N	N	Cased to bottom. Slotted pipe 330 ft. Gravel-walled. Abandoned irrigation well.
* 202	do	do	1952	572	20,12	Ev,Ch	71	55.0 62.4	Jan. 19, 1960 Mar. 25, 1965	T,G	Irr	Cased to bottom. Screen 357 ft. Temp. 73°F.
203	Liberty Ranch Co.	--	1917	703	24,10	Ev	70	5	1917	N	N	Cased to bottom. Formerly supplied water for rice irrigation. Destroyed. ^{1/}
204	G. F. Dennison	Katy Drilling Co.	1963	525	--	Ev,Ch	70	--	--	T,G	Irr	Reported salt water below 525 ft. Temp. 72°F.
* 205	do	do	1953	525	--	Ev,Ch	70	--	--	T,G	Irr	Screen below 240 ft. Temp. 73°F.
206	W. L. Bingle well 5	Humble Oil & Refining Co.	1952	5,800	--	--	63	--	--	--	--	Oil test. ^{2/}
* 301	Hamill & Smith	Pitre Water Well Drilling Co.	1938	255	5	Ch	63	29.1 46.9 54.5	Mar. 16, 1949 Apr. 9, 1958 Feb. 26, 1964	N	N	Observation well. Screen from 228 ft to bottom. Formerly supplied water for oil lease. ^{3/}
302	do	do	1938	305	4	Ch	63	20	1938	N	N	Screen from 285 ft to bottom. Formerly supplied water for drilling rig. Abandoned.
304	Houston Production Oil Co. well 2	do	1941	374	5	Ch	65	30	July 1941	N	N	Screen from 353 to 373 ft. Formerly supplied water for drilling rig. Destroyed.
305	Joe Haines	do	1938	106	6	Ch	77	32	May 1938	N	N	Screen from 85 ft to bottom. Reported poor quality of water. Formerly drilled for public supply. Reported casing pulled in 1940. Destroyed. ^{1/}

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Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
								Below land surface datum (ft)	Date of measurement			
SB-61-59-306	John Mecom	Pitre Water Well Drilling Co.	1937	236	4	Ch	74	20	Nov. 1937	N	N	Screen from 226 ft to bottom. Water reported to be salty. Abandoned.
307	The Texas Co.	L. Patterson	1941	383	5	Ch	65	30	Oct. 1941	N	N	Screen from 355 to 379 ft. Formerly supplied water for drilling rig. Destroyed by 1966.
308	Gulf Oil Co.	Pitre Water Well Drilling Co.	1944	321	4	Ch	65	21	Sept. 1944	N	N	Screen from 286 to 310 ft. Well is in middle of lake. Formerly supplied water for drilling rig. Not used.
309	Houston Production Co.	do	1939	255	7,5	Ch	69	30	1939	N	N	Screen from 233 ft to bottom. Formerly supplied water for drilling rig. Destroyed by 1966.
310	Morris-Phillips well 30	Gulf Oil Corp.	1941	2,910	--	--	69	--	--	--	--	Oil test. ^{2/}
311	Morris-Phillips well 29	do	1941	3,134	--	--	69	--	--	--	--	Do.
312	Baldwin Fee well 24	do	1937	5,063	--	--	64	--	--	--	--	Do.
313	Barngrover well 38	Cities Service Co.	1953	4,000	--	--	66	--	--	--	--	Do.
314	Phoenix well 11-A	Sterling Oil & Gas Co.	1951	5,577	--	--	65	--	--	--	--	Do.
315	Sun Pipeline Co.	--	--	97	6	Ch	68	11.0 17.0	Feb. 20, 1948 Apr. 10, 1953	N	N	Screen from 77 ft to bottom. Destroyed by 1966. ^{3/}
401	Graves & Partlow	Katy Drilling Co.	1953	821	20,12	Ev,Ch	70	--	--	T,E,150	Irr	Casing: 20-in. to 296 ft, 12-in. from 296 to 525 ft. Slotted pipe 525 ft. Gravel-walled. Temp. 74°F.
402	Swilley Estate	Layne-Texas Co.	1947	675	--	Ev,Ch	67	--	--	T,G	N	Unused irrigation well.
* 404	Our Mother of Mercy Church	Pitre Water Well Drilling Co.	1962	571	2	Ev	72	90	Dec. 1962	T,E,2	P	Screen from 549 to 564 ft. Supplies water for church and school. ^{1/}
406	Partlow & Graves	Lawrence J. Kelley	1958	7,495	--	--	71	--	--	--	--	Oil test. ^{2/}
* 501	C. F. Kellina	Baseman, Dodge & Ericson	1948	1,180	20,12,8	Ev	66	51.8 61.3	Apr. 4, 1957 Mar. 24, 1965	T,G	Irr	Cased to bottom. Observation well. 450 ft of slotted pipe opposite sands. Measured discharge 2,550 gpm in 1955. Temp. 74°F. ^{3/}
* 503	A. L. Ericson	Katy Drilling Co.	1962	790	--	Ev	69	--	--	T,-	Irr	Cased to about 200 ft. Temp. 75°F.
504	Mrs. Ruth Robinett	Pitre Water Well Drilling Co.	1944	161	4	Ch	64	26	Apr. 1944	J,E,1/4	S	Screen from 147 to 157 ft.
505	Regile Fontenet	do	1962	65	2	Ch	65	18	July 1962	J,E,1/2	D	Screen from 51 ft to bottom.

See footnotes at end of table.

Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks	
								Below land surface datum (ft)	Date of measurement				
*SB-61-59-506	W. H. Gilfillian	Pitre Water Well Drilling Co.	1963	371	4	Ch	66	100	Oct.	1963	T,E,3	Ind	Screen from 355 ft to bottom. ^{1/}
507	Wallace Fontenet	-- Schneider	1963	98	2	Ch	69	10	Mar.	1963	J,E	D	Screen from 92 ft to bottom.
508	Jason Gradney	Pitre Water Well Drilling Co.	1962	62	2	Ch	65	19	Oct.	1962	J,E,1/2	D	Screen from 53 to 59 ft. ^{1/}
509	Silva & Welch	do	1940	151	4,2	Ch	65	26	Sept.	1940	N	N	Screen from 138 to 148 ft. Abandoned by 1966.
* 601	N. S. Bean	Katy Drilling Co.	1953	876	20,12	Ev,Ch	64	30	Mar.	1953	T,G	Irr	Casing: 20-in. to 279 ft., 12-in. from 279 to 597 ft. Slotted pipe 595 ft. Temp. 74°F.
604	do	Pitre Water Well Drilling Co.	1963	197	2	Ch	64	55	July	1963	J,E,1	D	Screen from 181 to 192 ft. ^{1/}
703	C. C. Thornton	do	1944	287	4	Ch	55	32	Sept.	1944	C,W	S	Screen from 273 to 283 ft.
704	Thornton well 1	Lawrence J. Kelley	1958	8,747	--	--	57	--	--	--	--	--	Oil test. ^{2/}
705	Louise A. Swilley well 1	Harry Hart Inc.	1959	7,794	--	--	69	--	--	--	--	--	Do.
* 801	A. C. Holbrook	Pitre Water Well Drilling Co.	1948	350	14	Ch	62	56.2	Feb. 18,	1960	T,G	Irr	Temp. 74°F.
802	Pitre Water Supply	do	1948	825	4	Ev	62	--	--	--	T,E,5	P	Screen from 539 to 561 ft. Originally drilled to 561 ft in 1948; deepened to 825 ft in 1961.
* 803	do	do	1956	845	7,4	Ev	62	56	May	1956	T,E,5	P	Cased to bottom. Screen from 805 ft to bottom.
804	A. C. Holbrook	Texas Water Wells, Inc.	1955	580	20,14	Ev,Ch	62	28.7 54.2 51.6	Jan. 27, Mar. 25, Mar. 1,	1960 1965 1966	T,G	Irr	Cased to bottom. Gravel-walled.
805	C. V. Welch	Katy Drilling Co.	1956	500	20,12	Ev,Ch	57	48		1956	T,G	Irr	Casing: 20-in. to 250 ft., 12-in. from 250 ft to bottom. Gravel-walled.
806	Eli & Hollis Rich	Pitre Water Well Drilling Co.	1956	469	12,8	Ch	57	53.3	Jan. 15,	1960	T,G	Irr	Screened from 364 ft to bottom.
807	Howard LaCour	do	1945	145	2	Ch	66	24	May	1945	N	N	Screen from 134 ft to bottom. Abandoned by 1966.
810	J. B. Clark, Sr.	do	1963	145	2	Ch	63	42	July	1963	J,E,3/4	D	Screen from 136 to 142 ft.
812	R. D. McDonald well 1	Shell Oil Co.	1959	11,509	--	--	62	--	--	--	--	--	Oil test. ^{2/}

See footnotes at end of table.

Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks	
								Below land surface datum (ft)	Date of measurement				
SB-61-59-813	Keith Flournoy	Katy Drilling Co.	1961	408	--	Ch	64	--	--	T,G	Irr		
901	Carl A. Johnson	Layne-Texas Co.	1957	900	14	Ev	57	59	1957	T,G	Irr	Reported drawdown 85 ft pumping 3,230 gpm in 1957. Reported water is of poor quality.	
908	F. A. Connell	Pitre Water Well Drilling Co.	1964	95	2	Ch	60	11	Apr. 1964	J,E,1/3	D,S	Plastic screen from 86 ft to 92 ft. ^{1/}	
909	Edgar E. Reavis	R. H. Schneider	1965	88	2	Ch	60	15	Nov. 1965	--	D	Screen from 82 ft to bottom.	
60-101	V. K. Palmer	Pitre Water Well Drilling Co.	1965	147	2	Ch	64	22	Jan. 1965	J,E,1/2	D	Screen from 84 to 90 ft. ^{1/}	
301	Levi Carr	Levi Carr	1962	29	--	Ch	54	15	1962	C,H	D	Screen from 25 ft to bottom. Supplies water for hunting camp.	
501	Garland Jones	R. H. Schneider	1963	100	12	Ch	52	16.2	Aug. 4, 1965	T,G	Irr	Screen from 100 ft to bottom. ^{1/}	
502	The Texas Co.	Pitre Water Well Drilling Co.	1944	232	4	Ch	52	11	Aug. 1944	N	N	Screen from 209 to 231 ft. Formerly supplied water for oil test. Abandoned.	
503	Sabine Tram. Co.	Humble Oil & Refining Co.	1930	5,800	--	--	57	--	--	--	--	Oil test. Abandoned. ^{1/}	
504	C. A. Moore well 1	The Texas Co.	1944	6,905	--	--	55	--	--	--	--	Oil test. ^{2/}	
701	Devers Independent School District	Pitre Water Well Drilling Co.	1965	229	2	Ch	56	38	Aug. 1965	J,E,1	P	Screen from 210 to 216 ft. Supplies water for school. ^{1/}	
706	A. L. Callihan	Green Bros. Water Well Service	1963	440	2	Ch	58	47	May 1963	--	D	Slotted pipe from 432 ft to bottom. ^{1/}	
713	G. W. Maxwell	Pitre Water Well Drilling Co.	1963	71	2	Ch	62	13	Dec. 1963	J,E,1/2	D	Screen from 57 to 68 ft.	
716	Devers Implement Co.	Green Bros. Water Well Service	1962	390	2	Ch	58	18	Nov. 1962	--	Ind	Screen from 382 ft to bottom.	
*	802	V. D. Myers	Pitre Water Well Drilling Co.	1943	99	2,1	Ch	56	8.8 5.6	Jan. 23, 1945 Apr. 8, 1952	N	N	Screen from 74 to 79 ft. Observation well from 1945 to 1952. Casing pulled and well destroyed in 1953. ^{1/ 3/}
	901	Sidney Hill, Jr.	Layne-Louisiana	1948	650	20,12	Ev,Ch	48	8.0	Mar. 24, 1965	T,G	Irr	Cased to 150 ft.
*	902	Sinclair Pipeline Co.	--	1923	492	8,6	Ch	47	11.9 28.6 35.2	June 20, 1945 Apr. 4, 1956 Mar. 24, 1965	N	N	Observation well. Screen from 429 ft to bottom. Formerly supplied water for pump station and 6 houses. Not used. ^{3/}
*	903	B. H. Willis Estate	--	--	180	6	Ch	50	13.1 19.0	Jan. 17, 1945 Apr. 13, 1954	N	N	Formerly supplied water for livestock and domestic use. Destroyed. Old well. ^{3/}
*	904	Sidney Hill	Layne-Louisiana	1950	650	20,12	Ev,Ch	51	22.0	July 14, 1965	T,G	Irr	Screen from 400 ft to bottom. Not used since 1962.

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Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
								Below land surface datum (ft)	Date of measurement			
SB-61-60-905	B. H. Willis Farm & Ranch Co.	Pitre Water Well Drilling Co.	1962	114	2	Ch	47	18	Oct.	1962 J,E,1/2	D	Screen from 105 to 111 ft. Used for fall-out-shelter. ^{2/}
61-101	-- Stone well 1	Sun Oil Co.	1959	11,000	--	--	46	--	--	--	--	Oil test. ^{2/}
401	M. E. Pickett	Hamble Oil & Refining Co.	1960	11,517	--	--	43	--	--	--	--	Do.
701	A. L. Banke	Katy Drilling Co.	1958	538	12	Ev,Ch	42	18.9	Mar. 24, 1965	T,G	Irr	Gravel-walled.
703	B. H. Willis Farm & Ranch Co.	Pitre Water Well Drilling Co.	1964	134	2	Ch	46	18	Apr. 1964 J,E,1/2	D,S	D,S	Screen from 126 to 132 ft. ^{1/}
802	Ritter Bros. Farm	do	1963	148	2	Ch	45	16	Jan. 1963	--	S	Screen from 131 to 142 ft. ^{1/}
64-01-101	Hall & Heal	Layne-Texas Co.	--	407	9,8	Ch	67	--	--	N	N	Screen from 248 to 285, and 314 to 395 ft. Formerly used for rice irrigation. Unable to locate probably destroyed. Old well. ^{1/}
102	C. M. Rogers	--	--	650	4	Ev,Ch	67	8.5	Oct. 30, 1931	N	N	Formerly used for livestock well. Abandoned. Old well.
* 103	R. Freeman	--	--	175	2	Ch	64	--	--	N	N	Formerly used for domestic and livestock. Destroyed by 1965. Old well.
104	-- Davis well 16	General Grude Oil Co.	1936	3,719	--	--	62	--	--	--	--	Oil test. ^{2/}
105	-- Davis well 13	do	1936	4,205	--	--	62	--	--	--	--	Do.
106	-- Davis well 17	do	1936	1,901	--	--	61	--	--	--	--	Do.
107	-- Davis well 15	do	1936	3,585	--	--	59	--	--	--	--	Do.
* 201	J. M. Hlavaty	Frank Gay	1940	400	4	Ch	58	38	Aug. 1944	N	N	Formerly used for domestic purpose. Abandoned.
202	Heal-Brown Rice Land & Irrigation Co.	--	--	487	8	Ev	85	10	1903	N	N	Screened from 447 ft to bottom. Formerly used for rice irrigation. Destroyed. Old well.
203	Charles Seaburg	C. A. Brown	1902	415	11,8	Ch	65	17	1908	N	N	Formerly used for rice irrigation. Reported destroyed.
204	W. A. Noble	do	1904	400	9	Ch	67	8	1908	N	N	Do.
205	-- Esperson well B-2	General Crude Oil Co.	1939	7,352	--	--	57	--	--	--	--	Oil test. ^{2/}
206	-- Burgess well 1	do	1939	7,944	--	--	56	--	--	--	--	Do.
401	W. O. Kay well 1	Massart Oil Co.	1939	2,917	--	--	57	--	--	--	--	Do.

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Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
								Below land surface datum (ft)	Date of measurement			
SB-64-01-602	Moore's Bluff well Q-8	General Crude Oil Co.	1960	11,447	--	--	45	--	--	--	--	Oil test. ^{2/}
603	Moore's Bluff well D-1	do	1958	13,469	--	--	48	--	--	--	--	Do.
701	J. M. Frost, Jr.	Katy Drilling Co.	1951	940	20,13, 10	Ev,Ch	43	44.3 41.3	Mar. 23, 1965 Mar. 1, 1966	T,G	Irr	Cased to bottom. Slotted pipe 818 ft.
801	do	do	1951	920	24,13, 10	Ev,Ch	40	--	--	N	N	Casing: 24-in. to 240 ft, 13-in. from 240 to 298, 10-in. from 298 to 383 ft. Slotted pipe 705 ft. Abandoned rice irrigation well.
802	do	do	1960	919	20,12	Ev,Ch	43	113	June 1960	T,G	Irr	Casing: 20-in. to 303 ft, 12-in. from 303 ft to 607 ft. Slotted pipe 398 ft to bottom. Gravel-walled. Reported pumping level 175 ft at 2,896 gpm, June 1960.
02-101	Sidney A. Smith well 1	Gulf Oil Co.	1948	5,050	--	--	18	--	--	--	--	Oil test. ^{2/}
202	Loftis Bros.	F. Gay	1942	190	4	Ch	17	+	1942	N	N	Screen from 170 ft to bottom. Plugged and abandoned. Formerly supplied water for drilling rig.
* 601	Devers Canal Co.	Paul Acheson	1940	176	3	Ch	12	3.6 7.5	Dec. 8, 1944 Apr. 14, 1954	J,E,1/2	D	Screen from 160 ft to bottom. Temp. 70°F. ^{3/}
603	Lacy Armour well 1	John W. Meacom	1956	11,570	--	--	10	--	--	--	--	Oil test. ^{2/}
* 604	Robert D. Jones	Layne-Texas Co.	1963	491	12	Ch	15	38	May 1963	T,E,25	P	Slotted pipe from 230 to 260 ft, and 395 to 480 ft. ^{1/}
701	-- League	The Texas Co.	1926	1,428	--	--	25	--	--	--	--	Shallow test well. ^{1/}
* 03-101	Liberty County	-- Waggoner	1910	825	8	Ev	14	--	--	N	N	Casing filled with rocks. No flow in 1965. Reported flow in 1944, 50 gpm. Originally drilled to 1,500 ft; plugged back to 825 ft.
103	Bill Norman	Pitre Water Well Drilling Co.	1944	275	4	Ch	25	10.7 20.0	June 16, 1945 Apr. 7, 1953	J,E	S	Screen from 261 to 273 ft. ^{3/}
201	H. E. LaCour	Katy Drilling Co.	1956	500	20,12	Ev,Ch	57	48	1956	T,G	Irr	Cased to 250 ft. Gravel-walled.
202	Mrs. M. R. Groesbeck	Wilson Brosch Co.	1956	8,592	--	--	48	--	--	--	--	Oil test. ^{2/}
301	D. I. Moss	Katy Drilling Co.	1956	490	20,12	Ch	53	100	1956	T,G	Irr	Casing: 20-in. to 258 ft, 12-in. from 258 ft to 232 ft. Screen 364 ft.
302	Devers Canal Co.	do	1956	487	20	Ch	51	--	--	T,G	Irr	Supplies water to sulfur company. Originally drilled to 525 ft; plugged back to 487 ft.

See footnotes at end of table.

Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
								Below land surface datum (ft)	Date of measurement			
*SB-64-03-303	Howard LaCour	Katy Drilling Co.	1956	496	20, 12	Ch	48	38.7 30.9	Mar. 25, 1965 Mar. 1, 1966	T, G	Irr	Cased to bottom. Screen 423 ft. Reported discharge 990 gpm, Aug. 1965. Temp. 72°F.
* 401	Shiloh Baptist Church	Pitre Water Well Drilling Co.	1940	333	2	Ch	32	4	June 1940	J, E, 1/2	D	Screen from 306 to 317 ft. ^{1/}
402	Liberty Investment Co.	The Pure Oil Co.	1929	5,766	--	--	25	--	--	--	--	Abandoned oil test. ^{1/}
701	R. H. Manger	Hinkle Drilling Co.	1950	6,029	--	--	24	--	--	--	--	Oil test. ^{2/}
702	-- Kyle well 3	U. S. Oil of Texas-Louisiana	1959	1,046	--	--	25	--	--	--	--	Do.
703	-- Cowan well 1	U. M. Harrison	1958	6,018	--	--	27	--	--	--	--	Do.
* 801	Texas Gulf Sulfur Co.	Pitre Water Well Drilling Co.	1957	68	10, 4	Ch	37	21	Feb. 1957	T, E, 15	Ind	Reported discharge 100 gpm. Screen 21 ft of 4-in. Temp. 72°F.
* 802	do	do	1957	68	8	Ch	37	21	Mar. 1959	T, E, 3	D	Used as standby well. Screen 22 ft of 8-in. Temp. 71°F.
803	R. S. Sterling well 11	Humble Oil & Refining Co.	1950	6,700	--	--	33	--	--	--	--	Oil test. ^{2/}
804	Martha Carter	U. M. Harrison	1958	1,022	--	--	42	--	--	--	--	Do.
901	Robertson-McDonald Lumber Co.	Humble Oil & Refining Co.	1957	17,952	--	--	33	--	--	--	--	Do.
* 04-101	J. D. Sellers	Pitre Water Well Drilling Co.	1938	406	4	Ch	43	20.6 26.2	Feb. 20, 1948 Apr. 7, 1950	J, E, 1/4	D, S	Screen from 384 to 404 ft. Formerly supplied water for pump station. (Texas Pipeline Co.) ^{1/3/}
103	Autry Kelley well 1	Lawrence Kelley	1956	7,951	--	--	44	--	--	--	--	Oil test. ^{2/}
503	J. M. Rich well 1	Humble Oil & Refining Co.	1947	8,501	--	--	39	--	--	--	--	Do.
702	Gulf Oil Co.	Gulf Oil Corp.	1935	225	7	Ch	34	--	--	N	N	Screen from 182 to 205 ft. Formerly used for drilling rig. Abandoned.
704	Dan. J. Harrison, Jr.	Dan J. Harrison, Jr.	1955	1,452	--	--	36	--	--	--	--	Oil test. ^{2/}
705	-- Boyt well 27	Gulf Oil Corp.	1938	2,946	--	--	33	--	--	--	--	Do.
706	-- Boyt well 28	do	1939	2,961	--	--	33	--	--	--	--	Do.
707	-- Stangler well 2	Hankamer Oil Co.	1938	2,641	--	--	20	--	--	--	--	Do.
708	B. Hankamer well 1	Scurlock Oil Co.	1948	3,800	--	--	34	--	--	--	--	Do.

See footnotes at end of table.

Table 5.--Records of wells and springs in Liberty County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
								Below land surface datum (ft)	Date of measurement			
SB-64-04-801	Crow & Jacobs well 1	Robert E. Rew	1939	3,400	--	--	40	--	--	--	--	Oil test. ^{2/}
802	E. B. Pickett well 1	Humble Oil & Refining Co.	1951	7,262	--	--	35	--	--	--	--	Do.
05-701	-- Boyt	do	1944	9,183	--	--	38	--	--	--	--	Do.

* For analyses of water from wells and springs in Liberty County see Table 8.

^{1/} For drillers' logs of wells in Liberty County see Table 6.

^{2/} Electric logs in files of Texas Water Development Board or U.S. Geological Survey, Austin, Texas, files.

^{3/} For water levels in wells in Liberty County see Table 7.

Table 6.--Drillers' logs of wells in Liberty County

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-60-48-104					
Owner: Gulf, Colorado & Santa Fe Ry., Co. Driller: --					
Surface-----	44	44	Shale -----	33	750
Sand-----	62	106	Sand -----	20	770
Clay -----	13	119	Gumbo -----	24	794
Sand and gravel ----	27	146	Sand -----	45	839
Rock -----	3	149	Shale -----	66	905
Clay -----	66	215	Sand, loose -----	13	918
Sand, fine -----	24	239	Gumbo -----	3	921
Shale -----	34	273	Sand -----	9	930
Sand and gravel ----	55	328	Shale -----	15	945
Gumbo -----	137	465	Rock -----	12	957
Shale -----	35	500	Gumbo -----	8	965
Rock -----	1	501	Shale -----	6	971
Gumbo -----	26	527	Gumbo -----	9	980
Gumbo and boulders -	40	567	Shale -----	127	1,107
Shale, soft -----	23	590	Sand, packed, fine -	21	1,128
Boulders -----	5	595	Gumbo -----	42	1,170
Shale -----	7	602	Shale, streaks ----	10	1,180
Boulders -----	9	611	Sand -----	25	1,205
Rock, ledges -----	13	624	Boulders -----	2	1,207
Gumbo -----	68	692	Sand and gravel ----	32	1,239
Sand, fine -----	18	710	Gravel -----	6	1,245
Gumbo -----	7	717	Gumbo -----	5	1,250

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 60-48-104--Continued					
Sand -----	30	1,280	Sand -----	35	1,451
Gumbo -----	5	1,285	Shale streaks -----	13	1,464
Sand -----	52	1,337	Sand -----	14	1,478
Shale and boulders -	58	1,395	Shale -----	34	1,512
Sand, tight -----	21	1,416			

Well SB-60-48-802

Owner: Black Gold Petroleum Co. Driller: Layne-Texas Co.

Sand -----	10	10	Sand and gravel ----	21	88
Clay -----	33	43	Clay -----	7	95
Rock and sand -----	24	67			

Well SB-60-56-201

Owner: Jordan Campbell. Driller: Humble Oil & Refining Co.

Sand, surface -----	12	12	Shale -----	11	248
Clay, sandy -----	13	25	Sand and gravel ----	13	261
Sand -----	13	38	Shale, sticky -----	22	283
Clay -----	22	60	Shale -----	24	307
Sand -----	26	86	Gumbo -----	5	312
Clay -----	5	91	Shale, sticky -----	17	329
Gumbo -----	13	104	Sand and gravel ----	44	373
Shale -----	27	131	Rock -----	3	376
Sand -----	42	173	Gumbo -----	40	416
Gravel -----	64	237			

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-60-56-201--Continued					
Gumbo, lime and sand -----	17	433	Gumbo -----	27	935
Gumbo and lime ----	32	465	Sand -----	9	944
Sand and boulders --	21	486	Gumbo -----	43	987
Sand, hard -----	5	491	Sand -----	3	990
Gumbo and lime ----	20	511	Shale, sandy ----	26	1,016
Lime, hard -----	4	515	Gumbo -----	44	1,060
Sand and boulders --	15	530	Rock -----	1	1,061
Lime, hard -----	4	534	Gumbo -----	9	1,070
Gumbo and lime ----	47	581	Sand -----	40	1,110
Sand and boulders --	19	600	Gumbo -----	34	1,144
Sand, hard, brown --	12	612	Sand and boulders --	16	1,160
Sand -----	8	620	Gumbo -----	32	1,192
Gumbo and lime ----	108	728	Shale, sandy, hard -	3	1,195
Sand -----	3	731	Gumbo and boulders -	9	1,204
Sand and boulders --	28	759	Gumbo -----	9	1,213
Gumbo and lime ----	41	800	Boulders -----	3	1,216
Shale and lime ----	18	818	Sand -----	24	1,240
Shale, tough, sticky -----	18	836	Shale, sandy, hard -	5	1,245
Rock -----	1	837	Gumbo -----	121	1,366
Shale, sticky ----	16	853	Sand -----	2	1,368
Gumbo -----	54	907	Shale, sandy ----	17	1,385
Rock -----	1	908	Gumbo -----	15	1,400
			Sand -----	3	1,403

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-60-56-201--Continued					
Shale, sandy, soft -	16	1,419	Shale and lime -----	15	1,672
Gumbo -----	62	1,481	Sand and shale -----	4	1,676
Sand -----	21	1,502	Sand, hard, and shale -----	10	1,686
Gumbo -----	39	1,541	Shale and lime -----	18	1,704
Shale, sandy -----	40	1,581	Gumbo -----	4	1,708
Rock -----	2	1,583	Gumbo and lime -----	47	1,755
Gumbo -----	11	1,594	Gumbo, lime, sand and boulders -----	62	1,817
Shale, sticky, and lime -----	11	1,605	Sand -----	52	1,869
Sand, packed -----	5	1,610	Sand and boulders --	16	1,885
Sand -----	10	1,620	Gumbo -----	7	1,892
Shale, sticky -----	6	1,626	Gumbo, tough -----	55	1,947
Gumbo and lime -----	2	1,628	Gumbo -----	2	1,949
Shale and lime -----	1	1,629	Shale, sandy and lime -----	32	1,981
Shale, sticky, and lime -----	28	1,657	Gumbo -----	19	2,000

Well SB-60-64-601

Owner: E. J. Stoesser well 1. Driller: Layne-Texas Co.

Soil, sandy -----	3	3	Sand (good) -----	31	164
Clay -----	17	20	Clay -----	22	186
Clay, sandy -----	21	41	Shale, sandy -----	16	202
Clay and sandy clay -----	92	133	Shale -----	10	212
			Shale, sandy -----	10	222

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-60-64-601--Continued					
Shale -----	22	244	Shale, sandy -----	5	585
Sand (good) -----	19	263	Shale -----	13	598
Shale, sandy -----	13	276	Sand (good) -----	12	610
Sand (good) -----	58	334	Shale, sticky -----	14	624
Shale -----	7	341	Shale, sandy -----	6	630
Shale and sand layers -----	22	363	Shale, sticky -----	15	645
Sand (good) -----	31	394	Shale, sandy -----	5	650
Shale, sandy, hard -	20	414	Sand (good) -----	37	687
Shale -----	8	422	Shale -----	13	700
Sand (good) -----	87	509	Sand -----	55	755
Shale, hard -----	6	515	Sand and gravel ----	27	782
Sand (good) -----	17	532	Sand, fine and boulders -----	20	802
Shale -----	3	535	Shale, hard -----	6	808
Sand (good) -----	45	580			

Well SB-61-33-605

Owner: C. M. Lusk. Driller: Noack Drilling Co.

Topsoil -----	2	2	Clay, sand streaks -	5	40
Clay, red -----	2	4	Clay, white -----	12	52
Sand -----	14	18	Sand, coarse, gravel, fine -----	19	71
Sand and gravel ----	6	24	Clay -----	1	72
Clay, white -----	11	35			

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Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-33-605--Continued

Sand, coarse -----	7	79	Sand, rock, and lime -----	4	143
Clay, white -----	12	91	Sand, coarse -----	12	155
Sand, coarse -----	29	120	Clay, jointed, red and white -----	107	262
Clay, white -----	10	130			
Sand, coarse -----	9	139			

Well SB-61-33-705

Owner: Mrs. W. P. Johnston. Driller: Pitre Water Well Drilling Co.

Sand, hard, red to pink -----	38	38	Sand and lime lenses -----	18	255
Clay, sandy, red ---	21	59	Rock, lime -----	2	257
Sand, brown -----	21	80	Sand -----	1	258
Gravel and clay, sand streaks ----	18	98	Rock, lime -----	2	260
Sand -----	19	117	Sand -----	8	268
Clay, sandy -----	7	124	Rock and lime -----	6	274
Gravel -----	2	126	Sand, hard and soft -----	32	306
Clay, sandy -----	3	129	Clay, brown, red and white ----	48	354
Gravel -----	11	140	Sand -----	2	356
Clay, sandy, white -	9	149	Clay -----	44	400
Clay, tough, cream-colored ----	24	173	Rock, and sand, brown -----	4	404
Rock -----	1	174	Sand, gray -----	26	430
Sand and gravel ----	16	190	Clay -----	4	434
Clay, hard, brown, red and white ----	47	237	Clay, sandy -----	6	440

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-33-706

Owner: Roy Morton. Driller: Layne-Texas Co.

Soil, sandy -----	2	2	Clay -----	26	96
Clay, red -----	10	12	Sand, gray (good) --	29	125
Sand, fine, red and clay streaks -----	30	42	Clay -----	30	155
Sand, white (good) -	18	60	Sand, fine, broken, brown, and clay --	21	176
Sand, white, and clay streaks -----	10	70	Sand and gravel, fine -----	48	224
			Clay -----	2	226

Well SB-61-33-802

Owner: Lewis Wells, Jr. Driller: A. & L. Pump & Well Service.

Surface -----	5	5	Clay, white -----	8	38
Clay, sandy, red ---	25	30	Sand and gravel ----	10	48

Well SB-61-34-401

Owner: Gulf, Colorado & Santa Fe Ry. Co. Driller: Homer Wright.

Soil, surface -----	7	7	Shale -----	21	169
Clay, sandy, and gravel -----	39	46	Sand and boulders --	63	232
Clay, red -----	12	58	Shale -----	29	261
Sand and clay -----	32	90	Sand -----	24	285
Sand, very fine ----	34	124	Gumbo -----	17	302
Shale -----	17	141	Sand -----	40	342
Sand, hard -----	7	148	Shale -----	43	385

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-34-401--Continued

Sand, very hard ----	20	405	Sand, salt and pepper -----	64	596
Gumbo -----	67	472	Sand, rough -----	14	610
Sand, hard -----	12	484	Shale -----	35	645
Gumbo, hard -----	8	492			
Sand, hard -----	40	532			

Well SB-61-34-503

Owner: T. B. Allen & Co. Driller: R. B. Melat.

Clay -----	10	10	Gravel -----	19	210
Sand -----	70	80	Rock and sand -----	30	240
Clay and gravel ----	20	100	Clay and gravel ----	160	400
Sand -----	40	140	Sand -----	20	420
Clay and gravel ----	20	160	Clay and gravel ----	50	470
Sand -----	20	180	Rock, sand layers ---	12	482
Rock -----	2	182	Shale -----	38	520
Clay and gravel ----	6	188	Clay and gravel ----	30	550
Rock -----	3	191	Sand, water -----	109	659

Well SB-61-34-801

Owner: Texas Construction Material Co. Driller: -- Jackson.

Clay and sand -----	24	24	Sand and gravel ----	72	130
Sand and gravel ----	26	50	Clay and gravel ----	16	146
Clay -----	8	58	Sand and gravel ----	26	172

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-34-801--Continued

Clay, hard -----	68	240	Sand and gravel ----	20	416
Sand and gravel ----	12	252	Sand -----	26	442
Clay -----	26	278	Sand and gravel ----	62	504
Sand and gravel ----	17	295	Shale -----	11	515
Gravel -----	52	347	Sand, clay, and boulders -----	15	530
Shale -----	3	350	Shale -----	102	632
Gravel -----	29	379	Sand and gravel ----	96	728
Rock -----	1	380	Shale and gumbo ----	21	749
Sand, clean -----	11	391	Sand and gravel ----	59	808
Clay and gravel ----	5	396			

Well SB-61-41-403

Owner: Dovall Ranch. Driller: Pitre Water Well Drilling Co.

Clay -----	69	69	Sand and gravel ----	9	140
Sand -----	10	79	Clay -----	11	151
Clay -----	5	84	Clay, sandy -----	6	157
Shale -----	13	97	Sand -----	3	160
Sand -----	33	130	Clay -----	47	207
Clay, sticky -----	1	131	Sand -----	77	284

Well SB-61-41-501

Owner: W. C. Leasure. Driller: Pitre Water Well Drilling Co.

Sand -----	3	3	Sand -----	6	18
Clay -----	9	12	Clay, hard -----	49	67

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-61-41-501--Continued					
Sand, red -----	29	96	Clay, hard -----	72	293
Clay, hard -----	21	117	Sand and gravel ----	12	305
Sand, red -----	6	123	Clay, hard -----	2	307
Clay, hard -----	40	163	Sand and gravel ----	4	311
Sand -----	23	186	Clay, hard -----	10	321
Clay, hard -----	12	198	Sand and gravel ----	15	336
Sand -----	6	204	Clay, hard -----	10	346
Clay, hard -----	2	206	Gravel, medium ----	5	351
Sand, coarse, red, and gravel -----	15	221	Clay -----	17	368

Well SB-61-42-402

Owner: A. G. Lesterjette. Driller: --

Soil -----	12	12	Sand and shale ----	150	570
Shale and sand ----	173	185	Gumbo -----	5	575
Gumbo, blue -----	100	285	Sand, and oil (blow- out) -----	18	593
Sand, packed, and shale -----	95	380	Gumbo -----	47	640
Gumbo (showing oil) -----	40	420	Sand with salt water -----	22	662

Well SB-61-50-604

Owner: Humble Oil & Refining Co. Driller: Pitre Water Well Drilling Co.

Sand -----	2	2	Sand and gravel ----	26	38
Clay -----	10	12	Clay -----	4	42

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-50-604--Continued

Clay, sandy -----	56	98	Sand -----	25	176
Sand -----	18	116	Clay -----	13	189
Sand lenses and clay -----	35	151	Sand and gravel ----	30	219
			Clay -----	11	230

Well SB-61-50-801

Owner: James R. Nowery. Driller: Pitre Water Well Drilling Co.

Sand and gravel ----	36	36	Gravel -----	5	207
Clay -----	60	96	Clay -----	13	220
Sand, fine -----	22	118	Gravel and clay streaks -----	13	233
Clay -----	43	161	Clay -----	8	241
Sand, fine -----	35	196	Sand, fine -----	13	254
Clay and sand streaks -----	6	202			

Well SB-61-51-107

Owner: Ethel Cleveland. Driller: West Water Well Service.

Topsoil -----	1	1	Sand, fine, blue ---	11	74
Clay, red -----	49	50	Sand and gravel ----	16	90
Clay, blue -----	13	63			

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-51-709

Owner: W. A. Lacy. Driller: Pitre Water Well Drilling Co.

Sand, surface, black -----	6	6	Clay, blue -----	7	65
Clay, hard, red ----	9	15	Sand and gravel ----	23	88
Clay, hard, white --	7	22	Clay and sand, brown -----	6	94
Clay, hard, brown --	36	58			

Well SB-61-51-913

Owner: Hull Fresh Water Supply District. Driller: Layne-Texas Co.

Soil, sandy -----	2	2	Sand -----	33	521
Clay, white -----	40	42	Shale and sand layers -----	31	552
Clay, sandy, and layers of wood ---	20	62	Shale -----	31	583
Shale, blue, sand and gravel -----	43	105	Shale, hard -----	72	655
Shale, hard -----	19	124	Shale, hard and shale streaks ----	21	676
Shale, sandy and shale -----	271	395	Sand and shale, broken -----	31	707
Sand, white -----	36	431	Shale -----	3	710
Shale -----	2	433	Sand and shale breaks -----	28	738
Sand and shale, sandy -----	39	472	Shale, sandy and shale streaks ----	22	760
Shale, sandy -----	16	488			

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-51-914

Owner: Mrs. J. M. Phillips. Driller: Pitre Water Well Drilling Co.

Surface -----	4	4	Clay, sandy, brown -	26	48
Clay, hard, white --	2	6	Sand, coarse -----	19	67
Clay, hard, red ----	6	12	Clay, hard, blue ---	7	74
Clay, hard, brown --	10	22			

Well SB-61-57-201

Owner: D. A. Reidland. Driller: Layne-Texas Co.

Sand, soil and clay -----	56	56	Sand -----	22	462
Clay -----	64	120	Clay -----	10	472
Clay, sandy -----	20	140	Sand -----	68	540
Clay -----	10	150	Clay -----	12	552
Sand -----	30	180	Sand -----	14	566
Clay, sandy -----	10	190	Clay, sandy -----	16	582
Clay, sandy -----	15	205	Clay -----	12	594
Sand -----	23	228	Sand -----	24	618
Clay, sandy -----	40	268	Clay -----	7	625
Clay -----	36	304	Sand -----	85	710
Clay, sandy -----	14	318	Clay -----	15	725
Clay -----	42	360	Clay, sandy -----	5	730
Clay, sandy -----	10	370	Sand -----	42	772
Sand -----	30	400	Clay -----	5	777
Clay -----	40	440	Sand -----	30	807
			Clay -----	5	812

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-57-412

Owner: Sun Oil Co. Driller: --

Clay, surface, yellow -----	20	20	Shale -----	4	601
Shale, blue -----	13	33	Sand -----	12	613
Sand, white -----	20	53	Gumbo -----	8	621
Sand and clay -----	105	158	Shale, rock and clay -----	39	660
Quicksand, white ---	13	171	Shale -----	12	672
Shale, blue -----	9	180	Rock, hard -----	1	673
Sand, white -----	6	186	Gumbo -----	6	679
Shale, blue -----	7	193	Sand -----	26	705
Gumbo -----	47	240	Shale -----	25	730
Sand and gravel ---	85	325	Gumbo -----	65	795
Gumbo -----	22	347	Rock -----	4	799
Sand, putty sand ---	11	358	Gumbo -----	7	806
Sand and gravel ---	79	437	Shale -----	12	818
Shale -----	6	443	Gumbo -----	27	845
Sand -----	22	465	Clay, yellow -----	10	855
Gumbo -----	16	481	Gumbo -----	20	875
Sand -----	15	496	Clay -----	9	884
Gumbo -----	17	513	Gumbo -----	6	890
Sand, putty sand ---	14	527	Sand, putty sand ---	5	895
Gumbo -----	38	565	Limestone -----	1	896
Sand, putty sand ---	32	597	Sand, putty sand ---	8	904

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-61-57-412--Continued					
Sand, coarse -----	6	910	Shale -----	86	1,392
Gumbo -----	23	933	Sand, hard -----	6	1,398
Sand, putty sand ---	9	942	Shale -----	8	1,406
Shale -----	16	958	Gumbo -----	14	1,420
Rock -----	3	961	Shale -----	34	1,454
Gumbo and shale ----	64	1,025	Gumbo, tough -----	71	1,525
Shale, rock and shale -----	11	1,036	Shale, hard -----	27	1,552
Rock -----	2	1,038	Shale and gumbo ----	39	1,591
Shale -----	22	1,060	Shell, white, and rock -----	7	1,598
Rock -----	5	1,065	Shale, blue -----	32	1,630
Gumbo and shale ----	47	1,112	Rock, soft -----	2	1,632
Shale and rock ----	12	1,124	Gumbo -----	8	1,640
Limestone -----	2	1,126	Sand, hard, blue and strata of rock ---	10	1,650
Sand, putty sand ---	7	1,133	Gumbo, blue -----	30	1,680
Limestone -----	1	1,134	Rock -----	3	1,683
Shale, blue and brown -----	33	1,167	Shale -----	8	1,691
No record -----	78	1,245	Sandstone, hard ----	2	1,693
Boulders (concre- tions) and rock --	4	1,249	Shale, blue, and sand, blue -----	12	1,705
Gumbo -----	41	1,290	Shale, blue, rock strata -----	13	1,718
Shale -----	5	1,295	Shale, blue -----	45	1,763
Rock and clay -----	4	1,299			
Gumbo -----	7	1,306			

Table 6.--Drillers' logs of wells in Liberty County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well SB-61-57-501

Owner: C. B. Peterson. Driller: --

Shale and clay -----	60	60	Sand and boulders --	25	1,030
Clay -----	283	343	Shale and shell ----	20	1,050
Gumbo, blue -----	64	407	Sand and boulders --	12	1,062
Sand and gravel ----	22	429	Gumbo and sand -----	119	1,181
Shale and sand -----	91	520	Gumbo and gypsum ---	4	1,185
Sand, hard and gravel -----	35	555	Sand, hard and boulders -----	29	1,214
Shale and sand -----	40	595	Shale and shell ----	10	1,224
Gumbo and sand -----	115	710	Gumbo -----	11	1,235
Shale and sand -----	25	735	Sand and boulders --	28	1,263
Shale and gumbo ----	17	752	Gumbo and gypsum ---	15	1,278
Rock -----	4	756	Rock -----	2	1,280
Sand, hard, and boulders -----	24	780	Sand and pyrites ---	32	1,312
Gypsum and gumbo ---	14	794	Rock -----	3	1,315
Sand and shale ----	46	840	Shale -----	5	1,320
Sand and rock -----	17	857	Gumbo and gypsum ---	42	1,362
Gumbo -----	15	872	Rock -----	3	1,365
Sand, hard, and boulders -----	68	940	Gumbo -----	23	1,388
Rock -----	5	945	Rock -----	3	1,391
Gumbo -----	58	1,003	Sand, hard, and boulders -----	8	1,399
Rock -----	2	1,005	Rock -----	16	1,415

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-61-57-501--Continued					
Gumbo and shale ----	101	1,516	Gypsum, rock, and shale, blue --	15	2,280
Sand, packed, hard -	19	1,535	Shale -----	50	2,330
Shale and gumbo ----	75	1,610	Gypsum -----	1	2,331
Sand and boulders --	17	1,627	Gumbo and shale ----	311	2,642
Gumbo and boulders -	46	1,673	Shell, hard -----	38	2,680
Sand, hard -----	21	1,694	Gumbo and shale ----	70	2,750
Rock -----	2	1,696	Rock, and lime -----	18	2,768
Sand and boulders --	6	1,702	Gypsum and rock, sand -----	23	2,791
Gumbo -----	16	1,718	Gumbo and sand -----	35	2,826
Sand, hard and boulders -----	14	1,732	Rock, sand, hard ---	21	2,847
Gumbo -----	14	1,746	Rock, hard -----	5	2,852
Rock and lime -----	6	1,752	Sand, hard -----	9	2,861
Gumbo and sand -----	195	1,947	Sand, hard, and boulders -----	27	2,888
Sand and boulders --	4	1,951	Rock and gypsum ----	3	2,891
Gumbo -----	34	1,985	Sand, hard -----	8	2,899
Sand, hard and shale -----	39	2,024	Rock, hard -----	3	2,902
Gumbo and shale ----	121	2,145	Rock and sand, hard -----	50	2,952
Gypsum -----	2	2,147	Gumbo -----	23	2,975
Shale and gumbo ----	41	2,188	Shale and sand -----	8	2,983
Shale, hard, sticky -----	24	2,212	Gumbo and shale ----	424	3,407
Clay, shelly -----	53	2,265			

Table 6.--Drillers' logs of wells in Liberty County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well SB-61-58-504

Owner: City of Liberty well 2. Driller: A. E. Fawcett.

Clay, surface -----	12	12	Sand and gravel ----	14	320
Sand -----	48	60	Shale, sticky -----	40	360
Clay -----	20	80	Sand -----	16	376
Sand -----	14	94	Shale, sticky -----	69	445
Clay -----	25	119	Sand -----	10	455
Sand and clay -----	27	146	Sand and shale -----	10	465
Shale, sticky -----	110	256	Shale, sticky -----	58	523
Sand -----	42	298	Sand -----	39	562
Shale, sticky -----	8	306	Shale, sticky -----	3	565

Well SB-61-59-203

Owner: Liberty Ranch Co. Driller: --

Clay, yellow -----	120	120	Gumbo -----	21	529
Shale, soft -----	10	130	Sand, fine -----	35	564
Gumbo, light-blue --	110	240	Gumbo -----	20	584
Sand -----	20	260	Sand -----	13	597
Gumbo -----	60	320	Gumbo -----	46	643
Sand -----	120	440	Sand, fine -----	19	662
Gumbo -----	32	472	Gumbo -----	5	667
Sand -----	36	508	Sand (good) -----	36	703

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-59-305

Owner: Joe Haines. Driller: Pitre Water Well Drilling Co.

Clay, tough -----	53	53	Clay, tough -----	5	84
Sand -----	26	79	Sand and gravel ----	22	106

Well SB-61-59-404

Owner: Our Mother of Mercy Church. Driller: Pitre Water Well Drilling Co.

Clay, hard, brown --	83	83	Shale, hard, blue --	51	357
Clay, sandy, brown -	27	110	Shale, hard, broken, gray -----	125	482
Sand, powder, brown -----	18	128	Sand, salt and pepper -----	14	496
Clay, hard, gray ---	110	238	Shale, hard, blue --	9	505
Shale, hard, blue --	21	259	Shale, hard, broken, blue -----	28	533
Shale, hard, red and blue -----	12	271	Sand, hard, white --	31	564
Sand, fine, brown --	9	280	Shale, hard, blue --	7	571
Shale, soft, blue --	26	306			

Well SB-61-59-506

Owner: W. H. Gilfillian. Driller: Pitre Water Well Drilling Co.

Sand, surface -----	6	6	Clay, hard, brown --	52	214
Clay, hard, brown --	17	23	Clay and sand streaks, brown ---	55	269
Sand, brown -----	34	57	Rock, hard, black --	1	270
Clay, hard, brown --	78	135	Shale, sandy, gray -	37	307
Clay, hard, gray ---	23	158	Sand, salt and pepper -----	64	371
Sand, powder-white -	4	162			

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-59-508

Owner: Jason Gradney. Driller: Pitre Water Well Drilling Co.

Surface, hard, black -----	6	6	Clay, hard brown ---	5	56
Clay, hard, brown --	36	42	Sand, powder-white -	5	61
Clay, hard, white --	9	51	Clay -----	1	62

Well SB-61-59-604

Owner: N. S. Bean. Driller: Pitre Water Well Drilling Co.

Surface, hard, black -----	9	9	Clay, sandy, brown -	15	115
Clay, hard, brown --	52	61	Clay, gray -----	53	168
Sand, powder-white -	7	68	Clay, hard, blue ---	7	175
Clay, brown -----	32	100	Sand, fine, white --	20	195
			Clay, hard -----	2	197

Well SB-61-59-908

Owner: Fred A. Connell. Driller: Pitre Water Well Drilling Co.

Sand, surface, brown -----	5	5	Sand, coarse -----	16	75
Clay, yellow -----	23	28	Clay, blue -----	3	78
Clay, hard, white --	6	34	Sand, salt and pepper -----	16	94
Sand, powder-white -	25	59	Clay, hard, brown --	1	95

Well SB-61-60-101

Owner: Vernon K. Palmer. Driller: Pitre Water Well Drilling Co.

Surface -----	3	3	Sand, salt and pepper -----	80	94
Clay, joint, red and yellow -----	11	14	Clay, blue -----	53	147

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-60-501

Owner: Garland L. Jones. Driller: R. H. Schneider.

Clay -----	20	20	Sand -----	25	100
Shale, blue -----	55	85			

Well SB-61-60-503

Owner: Sabine Tram. Co. Driller: Humble Oil & Refining Co.

Clay, surface -----	45	45	Sand -----	10	840
Sand -----	49	94	Gumbo -----	16	856
Shale and sand -----	78	172	Sand -----	46	902
Sand -----	42	214	Sand and boulders --	40	942
Shale -----	53	267	Shale and lime -----	30	972
Gumbo -----	37	304	Sand and boulders --	58	1,030
Sand -----	30	334	Gumbo -----	19	1,049
Shale -----	27	361	Sand and boulders --	159	1,208
Sand -----	29	390	Shale and lime -----	15	1,223
Gumbo -----	160	550	Sand -----	26	1,249
Sand -----	98	648	Shale, lime and sand -----	32	1,281
Gumbo -----	38	686	Shale and lime -----	17	1,298
Shale -----	23	709	Lime -----	45	1,343
Sand and gravel ----	73	782	Sand and boulders --	35	1,378
Gumbo -----	16	798	Gumbo and lime -----	40	1,418
Sand -----	20	818	Sand and lime -----	34	1,452
Gumbo -----	12	830			

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Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-61-60-503--Continued--partial log					
Gumbo -----	4	1,456	Sand -----	3	1,757
Sand -----	44	1,500	Lime, sandy -----	40	1,797
Lime, shale and sand -----	2	1,502	Gumbo -----	32	1,829
Shale, sandy -----	12	1,514	Sand -----	5	1,834
Gumbo and lime -----	38	1,552	Shale, sticky -----	88	1,922
Sand -----	2	1,554	Lime, sandy -----	10	1,932
Sand and shale -----	15	1,569	Shale, sticky -----	33	1,965
Shale, sandy -----	16	1,585	Sand -----	31	1,996
Gumbo -----	169	1,754	Shale -----	27	2,023
			Total depth -----		5,800

Well SB-61-60-701

Owner: Devers Independent School District. Driller: Pitre Water Well Drilling Co.

Clay, gray -----	23	23	Sand, fine, dirty --	14	118
Sand, powdered, white -----	46	69	Clay, hard, white --	63	181
Log, black -----	1	70	Sand, salt and pepper -----	40	221
Sand, coarse, salt and pepper -----	34	104	Clay, sandy, brown -	8	229

Well SB-61-60-706

Owner: A. L. Callihan. Driller: Green Bros. Water Well Service.

Clay, yellow -----	30	30	Clay, green -----	60	150
Sand, red -----	60	90	Sand, water -----	40	190

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-60-706--Continued

Clay, green -----	115	305	Sand, water -----	70	440
Clay, blue -----	65	370			

Well SB-61-60-802

Owner: V. D. Meyers. Driller: Pitre Water Well Drilling Co.

Clay -----	74	74	Sand, loose, coarse -----	25	99
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Well SB-61-60-905

Owner: B. H. Willis Farm & Ranch Co. Driller: Pitre Water Well Drilling Co.

Surface, black -----	6	6	Clay, brown -----	16	74
Clay, hard, yellow -	12	18	Sand, fine -----	23	97
Clay, hard, white --	29	47	Sand, coarse -----	17	114
Clay, sandy, brown -	11	58			

Well SB-61-61-703

Owner: B. H. Willis Farm & Ranch Co. Driller: Pitre Water Well Drilling Co.

Clay, hard, brown ---	15	15	Clay, white and blue -----	40	122
Sand, fine, white --	15	30	Sand, hard, white --	11	133
Clay, white -----	12	42	Clay, hard, brown --	1	134
Clay, sandy, brown -	40	82			

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-61-61-802

Owner: Ritter Bros. Farm. Driller: Pitre Water Well Drilling Co.

Clay, hard, red ----	6	6	Sand, fine, brown --	16	82
Clay, yellow -----	9	15	Clay, brown -----	3	85
Clay, sandy, yellow -----	2	17	Clay, sandy, brown -	6	91
Clay, hard, yellow -	25	42	Clay, blue and white -----	8	99
Clay, blue -----	5	47	Sand, medium coarse -----	47	146
Sand, fine, brown --	3	50	Clay -----	2	148
Clay, hard, gray ---	16	66			

Well SB-64-01-101

Owner: Hail & Heal. Driller: Layne-Texas Co.

Soil and clay -----	26	26	Sand, rock layers --	42	287
Sand, fine -----	5	31	Clay, soft -----	16	303
Shale and clay -----	57	88	Sand -----	2	305
Sand -----	11	99	Clay -----	5	310
Clay -----	71	170	Sand, rock layers --	87	397
Sand -----	5	175	Clay -----	6	403
Clay -----	70	245	Sand -----	4	407

Well SB-64-02-604

Owner: Robert D. Jones. Driller: Layne-Texas Co.

Soil -----	3	3	Sand, brown -----	10	25
Clay, sandy -----	12	15	Clay -----	75	100

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Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-64-02-604--Continued					
Sand, broken -----	74	174	Clay, sandy, and clay -----	89	394
Clay -----	38	212	Sand, fine -----	66	460
Sand, fine -----	46	259	Sand, coarse -----	16	476
Clay -----	47	305	Clay -----	15	491

Well SB-64-02-701

Owner: -- League. Driller: The Texas Co.

Soil -----	1	1	Shale, sand, shell and gravel -----	48	757
Clay -----	21	22	Gumbo, sandy, blue -	32	789
Clay, yellow and gravel -----	62	84	Gumbo, blue -----	38	827
Sand and clay -----	37	121	Shale, blue, and shell -----	36	863
Gumbo, blue -----	260	381	Gumbo, sandy, blue -	94	957
Shale, sand, shell and gravel -----	56	437	Shale, blue and shell -----	61	1,018
Sand, gray, and shell -----	33	470	Sand, gray, and shell -----	16	1,034
Gumbo, blue -----	34	504	Gumbo and lime, sandy -----	65	1,099
Gumbo and shell, sandy -----	57	561	Shale, blue and shell -----	24	1,123
Gumbo, blue -----	44	605	Gumbo, sandy, blue -	28	1,151
Sand, gray, and shell -----	46	651	Shale and boulders -	68	1,219
Gumbo, sandy, blue -	58	709	Gumbo, blue -----	17	1,236

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Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-64-02-701--Continued

Gumbo, blue and lime -----	28	1,264	Gumbo, brown -----	39	1,374
Gumbo -----	52	1,316	Shale, blue and lime -----	37	1,411
Shale and lime -----	19	1,335	Gumbo, blue -----	17	1,428

Well SB-64-03-401

Owner: Shiloh Baptist Church. Driller: Pitre Water Well Drilling Co.

Clay -----	17	17	Sand, fine -----	34	250
Sand, fine -----	22	39	Clay -----	52	302
Clay -----	12	51	Sand -----	10	312
Clay, sandy -----	13	64	Sand, fine -----	8	320
Clay -----	152	216	Clay -----	13	333

Well SB-64-03-402, partial log

Owner: Liberty Investment Co. Driller: The Pure Oil Co.

Clay -----	31	31	Clay -----	32	562
Sand and clay -----	129	160	Sand -----	21	583
Sand -----	46	206	Clay -----	25	608
Clay -----	30	236	Sand -----	15	623
Sand -----	46	282	Clay -----	78	701
Clay -----	47	329	Sand and gravel ----	69	770
Sand and gravel ----	42	371	Clay -----	10	780
Gumbo -----	37	408	Sand and gravel ----	16	796
Sand and gravel ----	122	530	Clay -----	26	822

(Continued on next page)

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well SB-64-03-402--Continued--partial log					
Sand and gravel -----	103	925	Sand and gravel ----	45	1,200
Gumbo and lime -----	29	954	Gumbo -----	32	1,232
Sand and gravel ----	42	996	Sand and gravel ----	15	1,247
Gumbo, sandy -----	33	1,029	Gumbo -----	40	1,287
Sand -----	22	1,051	Sand -----	37	1,324
Gumbo -----	63	1,114	Gumbo -----	79	1,403
Sand -----	18	1,132	Sand -----	90	1,493
Gumbo -----	4	1,136	Gumbo -----	17	1,510
Sand and gravel ----	9	1,145	Total depth -----		5,766
Gumbo -----	10	1,155			

Well SB-64-04-101

Owner: J. D. Sellers. Driller: Pitre Water Well Drilling Co.

Clay -----	38	38	Sand, fine, and shale lenses -----	21	297
Shell -----	3	41	No record -----	36	333
Shale, sandy -----	59	100	Sand and boulders --	5	338
Sand, fine, red ----	22	122	Rock and lime -----	3	341
Shale, sandy, and shell beds -----	79	201	Sand, very fine, gray -----	45	386
Sand, fine -----	5	206	Sand, fine, gray ---	20	406
Shale, sandy -----	49	255			
Shale, sandy, and shell -----	21	276			

Table 6.--Drillers' logs of wells in Liberty County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well SB-64-04-401

Owner: Dan Hart. Driller: --

Clay -----	95	95	Sand, fine -----	11	296
Sand, fine -----	45	140	Shale -----	18	314
Clay, hard -----	10	150	Shale and sand -----	141	455
Sand, fine -----	10	160	Shale -----	18	473
Shale -----	22	182	Sand, fine -----	13	486
Sand, fine -----	48	230	Shale -----	2	488
Shale -----	55	285			

Well SB-64-04-702

Owner: Gulf Oil Corp. Driller: --

Clay -----	150	150	Gumbo -----	50	290
Clay and sand -----	90	240	Sand and boulders --	54	344

Table 7.--Water levels in wells in Liberty County

[Measurements generally are in feet below land surface; those above land surface are indicated by plus sign (+).]

Date	Water level	Date	Water level	Date	Water level
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Well SB-60-40-903

Owner: Roy Morton & Sons.

Mar. 15, 1949	36.05	Apr. 9, 1952	37.64	Apr. 8, 1958	40.38
Nov. 3	36.62	Oct. 7	38.98	Jan. 4, 1960	41.66
Apr. 5, 1950	35.18	Apr. 9, 1953	38.24	Apr. 4, 1961	40.07
Oct. 30	36.49	Oct. 14	40.06	Nov. 2, 1962	42.21
Apr. 16, 1951	36.33	Apr. 13, 1954	41.30	Mar. 29, 1963	39.80
Oct. 10	38.05	Apr. 3, 1956	40.58	Mar. 26, 1965	41.70

Well SB-60-48-107

Owner: Corrigan Lumber Co.

Jan. 26, 1945	28.40	Apr. 5, 1950	21.90	Apr. 9, 1952	26.33
Oct. 20, 1948	26.58	Oct. 30	24.12	Apr. 9, 1953	25.43
Mar. 14, 1949	25.55	Apr. 16, 1951	24.59	Oct. 14	26.46
Oct. 31	23.22	Oct. 10	25.85	Apr. 13, 1954	25.71

Well SB-60-48-501

Owner: C. W. Dove.

June 8, 1945	6.25	Oct. 30, 1950	8.64	Apr. 9, 1953	9.07
Oct. 20, 1948	9.50	Apr. 16, 1951	7.61	Apr. 10, 1957	12.68
Mar. 14, 1949	7.35	Oct. 10	10.02	Jan. 6, 1960	6.72
Oct. 31	6.09	Apr. 9, 1952	8.75	Apr. 3, 1961	3.25
Apr. 5, 1950	3.90	Oct. 7	11.26	Apr. 4, 1962	3.31

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Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-60-48-501--Continued

Nov. 2, 1962	7.89	Feb. 27, 1964	6.19	Mar. 1, 1966	7.06
Mar. 29, 1963	5.33	Oct. 15	7.77		
Oct. 29	8.57	Mar. 26, 1965	9.71		

Well SB-60-56-901

Owner: E. J. Stoesser.

Oct. 15, 1956	94.35	Jan. 19, 1960	68.30	Oct. 14, 1964	88.24
Apr. 10, 1957	66.45	Apr. 3, 1961	63.03	Mar. 23, 1965	75.00
Oct. 28	81.36	Oct. 20	79.75		
Apr. 8, 1958	62.33	Oct. 25, 1963	94.31		

Well SB-60-64-301

Owner: E. J. Stoesser.

Mar. 17, 1949	46.85	Apr. 2, 1956	62.39	Mar. 28, 1963	72.27
Nov. 2	63.20	Oct. 15	94.85	Oct. 25	103.57
Apr. 3, 1950	46.17	Apr. 10, 1957	66.33	Feb. 27, 1964	77.60
Oct. 31	69.57	Oct. 28	82.66	Oct. 14	98.31
Apr. 13, 1951	52.00	Apr. 9, 1958	64.54	Mar. 23, 1965	78.31
Oct. 9	78.64	Jan. 19, 1960	69.58	Oct. 21	101.80
Apr. 8, 1952	54.54	Apr. 3, 1961	63.74	Mar. 1, 1966	77.98
Oct. 6	85.09	Oct. 20	81.76		
Oct. 10, 1955	83.00	Oct. 26, 1962	96.47		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-60-64-302

Owner: Roy Seaberg.

Oct. 13, 1953	78.32	Apr. 8, 1958	64.44	Mar. 28, 1963	72.06
Apr. 12, 1954	63.73	Jan. 19, 1960	69.58	Oct. 25	98.04
Oct. 10, 1955	80.71	Apr. 3, 1961	65.20	Feb. 27, 1964	77.25
Apr. 2, 1956	62.31	Oct. 20	82.97	Oct. 14	96.01
Apr. 10, 1957	65.99	Apr. 3, 1962	65.43	Mar. 23, 1965	77.84
Oct. 28	79.01	Oct. 26	89.25		

Well SB-60-64-601

Owner: E. J. Stoesser.

Mar. --, 1944	57	Apr. 7, 1953	75.75	Apr. 3, 1961	77.55
Feb. 19, 1948	55.09	Oct. 13	96.00	Oct. 20	95.38
Mar. 17, 1949	60.63	Oct. 10, 1955	98.50	Apr. 3, 1962	79.95
Oct. 31	78.97	Apr. 2, 1956	76.77	Oct. 26	101.88
Apr. 3, 1950	61.51	Oct. 15	109.33	Mar. 28, 1963	83.79
Oct. 31	85.92	Apr. 10, 1957	80.23	Oct. 25	111.59
Apr. 13, 1951	68.82	Oct. 28	92.60	Feb. 27, 1964	87.43
Oct. 9	95.49	Apr. 8, 1958	88.99	Oct. 21, 1965	113.43
Apr. 8, 1952	70.80	Oct. 27	99.91	Mar. 1, 1966	91.69
Oct. 6	102.29	Jan. 7, 1960	84.62		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-60-64-602

Owner: Ed Stoesser.

Oct. 15, 1956	113.21	Apr. 3, 1961	82.43	Oct. 25, 1963	125.71
Apr. 10, 1957	80.12	Oct. 26, 1962	108.67	Oct. 14, 1964	118.07
Jan. 19, 1960	94.26	Mar. 28, 1963	91.91		

Well SB-60-64-603

Owner: Magnolia Pipeline Co.

Apr. --, 1945	27.1	Oct. 31, 1949	72.46	Jan. 7, 1960	82.97
Feb. 19, 1948	53.00	Apr. 3, 1950	58.30	Apr. 3, 1961	76.0±
Oct. 15	74.10	Oct. 19	83.02		
Mar. 14, 1949	57.80	Apr. 17, 1951	66.20		

Well SB-61-33-601

Owner: C. Die.

Apr. 4, 1945	49.50	Apr. 9, 1953	54.45	Dec. 31, 1959	57.10
Oct. 20, 1948	55.64	Oct. 14	59.20	Apr. 4, 1961	52.91
Mar. 15, 1949	53.88	Apr. 13, 1954	54.84	Oct. 23	59.14
Nov. 3	53.52	Oct. 12, 1955	57.71	Apr. 4, 1962	54.12
Apr. 5, 1950	52.04	Apr. 3, 1956	56.30	Nov. 2	56.32
Oct. 30	54.94	Oct. 16	59.51	Mar. 29, 1963	59.94
Apr. 16, 1951	53.97	Apr. 4, 1957	56.76	Oct. 29	65.27
Oct. 10	56.88	Oct. 29	55.59	Feb. 27, 1964	56.51
Apr. 9, 1952	54.28	Apr. 9, 1958	53.83	Mar. 26, 1965	60.24
Oct. 7	56.33	Oct. 20	56.55		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-33-604

Owner: C. Die.

Apr. 4, 1945	47.85	Nov. 3, 1949	48.00	Apr. 16, 1951	48.09
Oct. 20, 1948	47.51	Apr. 5, 1950	47.29		
Mar. 15, 1949	48.80	Oct. 30	47.27		

Well SB-61-33-701

Owner: Roy Elledge.

Aug. 2, 1955	179.6	Apr. 8, 1958	36.34	Mar. 29, 1963	40.32
Aug. 2	92.25	Oct. 20	44.47	Oct. 29	46.42
Oct. 12	42.15	Jan. 4, 1960	39.86	Feb. 27, 1964	39.31
Apr. 3, 1956	36.12	Apr. 4, 1961	37.75	Oct. 15	49.75
Oct. 16	45.90	Oct. 23	45.72	Mar. 26, 1965	39.72
Apr. 10, 1957	36.43	Apr. 4, 1962	37.61		
Oct. 29	43.96	Nov. 2	42.76		

Well SB-61-33-704

Owner: J. W. Whatley.

Apr. 5, 1945	33.50	Oct. 30, 1950	28.92	Apr. 9, 1953	32.42
Oct. 20, 1948	31.09	Apr. 16, 1951	29.85	Oct. 14	32.76
Mar. 15, 1949	30.47	Oct. 10	30.62	Apr. 13, 1954	33.17
Nov. 3	30.62	Apr. 9, 1952	31.38	Oct. 12	34.02
Apr. 5, 1950	29.21	Oct. 7	32.02		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-33-706

Owner: Roy Morton.

June 16, 1943	32	Apr. 9, 1953	29.67	Oct. 23, 1961	33.22
Oct. 21, 1948	37.58	Oct. 12, 1955	31.05	Apr. 4, 1962	29.12
Mar. 15, 1949	26.45	Apr. 3, 1956	30.23	Nov. 2	30.43
Nov. 3	26.81	Oct. 16	39.20	Mar. 29, 1963	27.31
Apr. 5, 1950	27.09	Apr. 10, 1957	31.00	Oct. 29	32.15
Oct. 30	27.83	Oct. 29	32.29	Feb. 27, 1964	30.35
Apr. 16, 1951	25.38	Apr. 8, 1958	29.06	Oct. 15	32.52
Oct. 10	29.17	Oct. 20	32.32	Mar. 26, 1965	30.87
Apr. 9, 1952	26.87	Jan. 4, 1960	31.51	July 6	37.40
Oct. 7	30.80	Apr. 4, 1961	28.94		

Well SB-61-33-708

Owner: Roy Morton.

Mar. 15, 1949	26.03	Oct. 12, 1955	37.57	Apr. 4, 1962	38.19
Nov. 3	27.54	Apr. 3, 1956	35.53	Nov. 2	41.89
Apr. 5, 1950	25.96	Oct. 16	43.69	Mar. 29, 1963	34.97
Oct. 30	31.32	Apr. 10, 1957	34.22	Oct. 29	47.80
Apr. 16, 1951	25.93	Oct. 29	42.14	Feb. 27, 1964	39.93
Oct. 10	32.57	Apr. 8, 1958	34.88	Oct. 15	50.38
Apr. 9, 1952	26.57	Oct. 20	44.98	Mar. 26, 1965	38.96
Oct. 7	34.66	Jan. 4, 1960	39.08	Oct. 20	49.08
Apr. 9, 1953	27.58	Apr. 4, 1961	36.72	Mar. 3, 1966	41.55
Apr. 13, 1954	35.94	Oct. 23	45.20		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-34-103

Owner: John Griffin.

Jan. 11, 1945	41.50	Apr. 16, 1951	41.40	Apr. 13, 1954	43.27
Oct. 21, 1948	42.50	Oct. 10	42.66	Oct. 12, 1955	43.30
Mar. 15, 1949	41.66	Apr. 9, 1952	42.12	Apr. 3, 1956	42.77
Nov. 3	41.58	Oct. 7	43.47	Apr. 4, 1957	44.11
Apr. 5, 1950	39.56	Apr. 9, 1953	42.63	Oct. 29	44.25
Oct. 30	44.5	Oct. 14	43.00		

Well SB-61-41-701

Owner: M. H. Scott.

Aug. 2, 1955	125.31	Apr. 8, 1959	50.84	Apr. 4, 1962	49.15
Aug. 2	75.41	Oct. 27	54.44	Nov. 2	54.81
Oct. 16, 1956	60.81	Jan. 6, 1960	52.20	Mar. 29, 1963	50.70
Apr. 10, 1957	52.49	Apr. 3, 1961	49.75	Oct. 15, 1964	58.25
Oct. 29	55.59	Oct. 23	54.73	Mar. 26, 1965	54.65

Well SB-61-49-101

Owner: Harvard Ranch.

Jan. 25, 1945	39.45	Oct. 30, 1950	48.13	Apr. 9, 1953	49.60
Oct. 20, 1948	46.53	Apr. 16, 1951	46.03	Oct. 14	52.25
Mar. 17, 1949	44.50	Oct. 10	51.08	Apr. 13, 1954	49.94
Oct. 31	46.22	Apr. 9, 1952	48.44	Oct. 12, 1955	53.84
Apr. 5, 1950	43.46	Oct. 7	51.51		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-49-803

Owner: W. A. Conner.

Apr. 19, 1945	48.33	Apr. 7, 1953	67.21	Apr. 3, 1961	60.27
Feb. 19, 1948	58.52	Oct. 13	97.32	Oct. 20	68.44
Oct. 15	85.29	Apr. 12, 1954	70.98	Apr. 3, 1962	60.74
Mar. 14, 1949	62.69	Oct. 10, 1955	78.20	Oct. 26	85.29
Oct. 31	76.10	Apr. 3, 1956	63.98	Mar. 28, 1963	66.61
Apr. 5, 1950	61.42	Oct. 15	76.24	Oct. 25	92.49
Oct. 19	78.93	Apr. 10, 1957	68.98	Feb. 27, 1964	67.09
Apr. 13, 1951	66.68	Oct. 28	78.52	Oct. 14	107.7±
Oct. 9	84.72	Apr. 8, 1958	64.91	Mar. 23, 1965	64.24
Apr. 10, 1952	66.64	Oct. 27	76.22	July 6	90.51
Oct. 6	100.61	Jan. 7, 1960	68.38	Mar. 1, 1966	63.92

Well SB-61-49-805

Owner: W. A. Conner.

Aug. 4, 1955	135.39	Oct. 27, 1958	82±	Mar. 28, 1963	76.4±
Feb. 2, 1956	72.34	Jan. 7, 1960	73.68	Feb. 27, 1964	66.80
Apr. 10, 1957	70.27	Apr. 3, 1961	67.20	Mar. 23, 1965	63±
Oct. 28	79.47	Oct. 20	82±	Mar. 1, 1966	62.97
Apr. 8, 1958	68.37	Apr. 3, 1962	69.55		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-51-707

Owner: S. E. Viles.

June 7, 1945	34.90	Apr. 5, 1950	38.31	Oct. 7, 1952	56.99
Feb. 20, 1948	36.81	Oct. 31	45.27	Apr. 10, 1953	44.08
Oct. 21	40.52	Apr. 16, 1951	41.06	Apr. 13, 1954	48.07
Mar. 15, 1949	39.50	Oct. 10	52.53		
Nov. 3	42.72	Apr. 9, 1952	42.78		

Well SB-61-51-806

Owner: Morgan Tippett.

Aug. 5, 1955	118.61	Oct. 20, 1958	55.79	Oct. 29, 1963	58.33
Aug. 5	80.38	Jan. 12, 1960	42.60	Oct. 15, 1964	66.14
Oct. 16, 1956	73.59	Apr. 4, 1961	38.22	Mar. 24, 1965	43.70
Apr. 4, 1957	39.18	Apr. 4, 1962	36.20	Mar. 2, 1966	45.29
Oct. 29	59.38	Nov. 2	56.40		
Apr. 9, 1958	37.56	Mar. 29, 1963	40.83		

Well SB-61-57-101

Owner: D. A. Reidland.

Apr. 19, 1945	38.55	Apr. 7, 1953	66.19	Oct. 26, 1962	101.25
Oct. 15, 1948	84.09	Apr. 2, 1956	69.49	Mar. 28, 1963	85.3±
Mar. 17, 1949	55.04	Apr. 10, 1957	75.79	Feb. 27, 1964	86.95
Apr. 3, 1950	54.99	Oct. 28	90.94	Mar. 23, 1965	78.8±
Oct. 31	82.10	Oct. 27, 1958	97.31	Mar. 1, 1966	73.22
Apr. 13, 1951	62.58	Apr. 3, 1961	72.16		
Apr. 8, 1952	69.20	Apr. 3, 1962	73.43		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-57-301

Owner: Russ Mitchell.

1936	48.20	Apr. 9, 1953	73.71	Apr. 6, 1961	81.33
Feb. 19, 1948	48.28	Oct. 13	94.25	Oct. 20	94.78
Oct. 20	85.20	Apr. 12, 1954	78.07	Apr. 3, 1962	83.46
Mar. 14, 1949	61.68	Oct. 12, 1955	98.22	Oct. 26	101.47
Oct. 31	78.85	Apr. 3, 1956	77.55	Mar. 28, 1963	88.74
Apr. 3, 1950	61.92	Oct. 15	102.04	Oct. 25	100.41
Oct. 19	87.25	Apr. 10, 1957	82.99	Feb. 27, 1964	95.41
Apr. 13, 1951	68.78	Oct. 28	99.22	Oct. 14	105.47
Oct. 9	93.48	Apr. 8, 1958	83.37	Mar. 23, 1965	95.42
Apr. 8, 1952	70.64	Oct. 27	103.07	Mar. 1, 1966	67.35
Oct. 6	100.07	Jan. 7, 1960	85.64		

Well SB-61-57-405

Owner: Leo Moreau.

Apr. 18, 1945	52.82	Apr. 3, 1950	67.66	Oct. 6	107.50
Feb. 19, 1948	58.90	Oct. 19	95.40	Apr. 7, 1953	78.49
Oct. 15	90.89	Apr. 13, 1951	75.22	Oct. 10, 1955	107.98
Mar. 14, 1949	64.35	Oct. 9	97.30	Apr. 2, 1956	89.20
Oct. 31	71.30	Apr. 8, 1952	76.53	Apr. 10, 1957	92.45

Well SB-61-57-902

Owner: Humble Pipeline Co.

Jan. 27, 1945	49.46	Oct. 15, 1948	66.91	Oct. 31, 1949	67.49
Feb. 20, 1948	56.96	Mar. 14, 1949	61.03	Apr. 3, 1950	62.61

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Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-57-902--Continued

Oct. 19, 1950	73.98	Apr. 7, 1953	72.65	Apr. 10, 1957	82.80
Apr. 13, 1951	69.59	Oct. 14	80.85	Oct. 28	89.07
Apr. 8, 1952	70.35	Apr. 12, 1954	76.87	Apr. 8, 1958	80.66
Oct. 6	81.61	Apr. 3, 1956	80.14		

Well SB-61-57-903

Owner: Peoples Lumber Co.

Jan. 27, 1945	59	Oct. 31, 1949	72.33	Oct. 9, 1951	84.73
Oct. 15, 1948	73.10	Apr. 3, 1950	63.66		
Mar. 14, 1949	62.40	Apr. 13, 1951	69.40		

Well SB-61-58-502

Owner: City of Liberty well 1.

Mar. 16, 1949	13.60	Oct. 6, 1952	37.40	Feb. 15, 1960	32.50
Oct. 19, 1950	25.45	Apr. 7, 1953	32.31	Mar. 28, 1963	54.69
Oct. 12, 1951	33.50	Apr. 12, 1954	36.30		
Apr. 9, 1952	25.88	Apr. 9, 1958	41.9±		

Well SB-61-58-504

Owner: City of Liberty well 2.

Nov. 26, 1943	+0.58	Nov. 1, 1949	32.13	Oct. 12, 1951	39.20
Dec. 8, 1944	- .15	Apr. 5, 1950	22.37	Apr. 9, 1952	30.06
Oct. 18, 1948	-30.98	Oct. 19	30.24	Oct. 6	43.62
Mar. 16, 1949	-17.2	Apr. 17, 1951	32.20	Apr. 7, 1953	36.36

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Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-58-504--Continued

Oct. 13, 1953	51.19	Apr. 9, 1958	51.04	Mar. 28, 1963	64.89
Apr. 12, 1954	41.62	Oct. 27	59.67	Oct. 25	76.67
Oct. 10, 1955	48.48	Feb. 15, 1960	34.44	Feb. 26, 1964	59.33
Apr. 3, 1956	53.80	Apr. 6, 1961	47.02	Oct. 14	75.64
Oct. 16	64.86	Oct. 20	64.19	Mar. 24, 1965	46.42
Apr. 10, 1957	55.43	Apr. 3, 1962	53.30		
Oct. 29	58.41	Oct. 26	67.15		

Well SB-61-58-505

Owner: City of Liberty.

Nov. 7, 1944	+8	Apr. 7, 1953	19.95	Apr. 6, 1961	30.91
Oct. 18, 1948	-8.75	Oct. 13	26.13	Apr. 3, 1962	31.57
Mar. 16, 1949	-6.17	Apr. 12, 1954	22.59	Oct. 26	41.55
Nov. 1	10.59	Apr. 3, 1956	29.39	Mar. 28, 1963	37.26
Apr. 5, 1950	9.41	Oct. 16	41.05	Feb. 26, 1964	41.34
Oct. 19	14.69	Apr. 10, 1957	32.98	Oct. 14	45.79
Apr. 17, 1951	12.26	Oct. 29	35.64	Oct. 21, 1965	49.25
Oct. 12	19.84	Apr. 9, 1958	30.98	Mar. 3, 1966	42.34
Apr. 9, 1952	15.24	Oct. 27	32.08		
Oct. 6	22.17	Feb. 19, 1960	27.02		

Well SB-61-58-511

Owner: Mecom & Harrison.

Mar. 17, 1949	0.86	Apr. 7, 1950	2.07	Apr. 18, 1951	6.36
Nov. 1	6.91	Oct. 19	11.67		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-58-515

Owner: City of Liberty.

Dec. 7, 1944	+7	Oct. 19, 1950	6.18	Apr. 7, 1953	11.33
Oct. 18, 1948	+0.68	Apr. 17, 1951	3.74	Oct. 13	17.53
Mar. 16, 1949	+2.12	Oct. 12	11.26	Apr. 12, 1954	14.70
Nov. 1	-2.12	Apr. 9, 1952	7.26		
Apr. 5, 1950	.93	Oct. 6	13.56		

Well SB-61-58-702

Owner: Texas Pipeline Co.

June 15, 1945	7.95	Mar. 17, 1949	18.56	Apr. 3, 1950	20.87
Oct. 18, 1948	23.50	Oct. 31	24.18		

Well SB-61-59-301

Owner: Hamill & Smith.

1938	17	Apr. 10, 1953	37.69	Apr. 4, 1961	43.55
Feb. 20, 1948	24.55	Oct. 14	50.91	Oct. 23	60.34
Oct. 19	38.00	Apr. 13, 1954	45.39	Apr. 4, 1962	46.99
Mar. 16, 1949	29.14	Oct. 12, 1955	59.70	Nov. 2	58.39
Nov. 1	39.64	Apr. 3, 1956	40.71	Mar. 29, 1963	50.35
Apr. 6, 1950	32.39	Oct. 16	80.70	Oct. 29	60.61
Oct. 20	46.03	Apr. 4, 1957	47.69	Feb. 26, 1964	54.52
Apr. 18, 1951	34.07	Oct. 29	77.33	Oct. 15	77.30
Oct. 10	49.60	Apr. 9, 1958	46.87	May 5, 1965	72.15
Apr. 9, 1952	36.44	Oct. 20	74.83		
Oct. 7	54.54	Jan. 8, 1960	49.40		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-59-315

Owner: Sun Pipeline Co.

Feb. 20, 1948	11.04	Apr. 6, 1950	11.01	Apr. 8, 1952	15.71
Oct. 19	15.94	Oct. 20	15.69	Apr. 10, 1953	17.03
Mar. 16, 1949	13.75	Apr. 18, 1951	15.35	Oct. 14	18.11
Nov. 1	13.51	Oct. 10	17.39		

Well SB-61-59-501

Owner: C. F. Kellina.

Aug. 3, 1955	90.08	Jan. 12, 1960	53.32	Mar. 24, 1965	61.34
Oct. 16, 1956	71.5±	Apr. 4, 1961	49.60	July 6	95.86
Apr. 4, 1957	51.77	Oct. 23	65.78	Oct. 20	76.12
Oct. 29	65.76	Nov. 2, 1962	72.77	Mar. 2, 1966	60.32
Apr. 9, 1958	52.48	Oct. 29, 1963	79.00		
Oct. 20, 1958	67.27	Feb. 26, 1964	60.99		

Well SB-61-60-802

Owner: V. D. Myers.

Jan. 23, 1945	8.80	Nov. 2, 1949	9.07	Oct. 12, 1951	8.66
Feb. 20, 1948	8.85	Apr. 7, 1950	6.44	Apr. 8, 1952	5.55
Oct. 19	13.14	Oct. 20	8.11		
Mar. 17, 1949	9.16	Apr. 18, 1951	6.14		

Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-61-60-902

Owner: Sinclair Pipeline Co.

June 20, 1945	11.92	Oct. 8, 1952	27.34	Oct. 20, 1958	30.83
Feb. 20, 1948	13.00	Apr. 10, 1953	24.15	Jan. 15, 1960	30.55
Oct. 19	16.95	Oct. 14	28.99	Apr. 6, 1961	29.10
Mar. 17, 1949	16.48	Apr. 13, 1954	25.12	Apr. 4, 1962	29.39
Nov. 21	19.38	Oct. 12, 1955	31.05	Mar. 28, 1963	32.06
Apr. 7, 1950	18.57	Apr. 4, 1956	28.64	Feb. 26, 1964	34.91
Oct. 20	22.32	Oct. 16	31.64	Mar. 24, 1965	35.19
Apr. 18, 1951	19.96	Apr. 4, 1957	29.87	Mar. 3, 1966	35.05
Oct. 12	25.29	Oct. 29	31.18		
Apr. 9, 1952	22.19	Apr. 9, 1958	29.10		

Well SB-61-60-903

Owner: B. H. Willis Estate.

Jan. 17, 1945	13.10	Apr. 7, 1950	13.20	Oct. 8, 1952	17.98
Feb. 20, 1948	12.56	Oct. 20	14.99	Oct. 14, 1953	18.39
Oct. 19	14.60	Apr. 18, 1951	14.95	Apr. 13, 1954	19.04
Mar. 16, 1949	14.14	Oct. 12	15.52		
Nov. 2	14.32	Apr. 8, 1952	15.32		

Well SB-64-02-601

Owner: Devers Canal Co.

Dec. 8, 1944	3.60	Mar. 16, 1949	4.20	Apr. 6, 1950	5.62
Oct. 19, 1948	6.85	Nov. 1	4.28	Oct. 20	6.73

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Table 7.--Water levels in wells in Liberty County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well SB-64-02-601--Continued

Apr. 17, 1951	7.33	Oct. 8, 1952	8.89	Apr. 14, 1954	7.53
Oct. 9	8.23	Apr. 7, 1953	8.12		
Apr. 11, 1952	7.89	Oct. 13	8.80		

Well SB-64-03-103

Owner: Bill Norman.

June 16, 1945	10.73	Apr. 6, 1950	18.36	Apr. 11, 1952	23.24
Oct. 19, 1948	15.52	Oct. 20	21.58	Oct. 8	25.26
Mar. 16, 1949	14.34	Apr. 17, 1951	20.96	Apr. 7, 1953	20.00
Nov. 1	17.40	Oct. 9	23.06		

Well SB-64-04-101

Owner: J. D. Sellers.

1938	14	Oct. 19, 1948	30.43	Nov. 2, 1949	32.61
Feb. 20, 1948	19.43	Mar. 16, 1949	24.24	Apr. 7, 1950	26.18

Table 8.--Chemical analyses of water from wells and springs in Liberty County

(Analyses given are in parts per million, except specific conductance, pH, percent sodium, sodium-adsorption ratio, and residual sodium carbonate.)

Water-bearing unit: J, Jasper aquifer; Ev, Evangeline aquifer; Ch, Chicot aquifer.

Well	Depth of well (ft)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) ^g	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Phosphate (PO ₄)	Boron (B)	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	Specific conductance (micromhos at 25°C)	pH
SB-60-48-101	1,337	Dec. 7, 1955	J	19	0.06	--	7.8	0.6	131	1.5	263	15	52	0.8	0.2	0.3	0.22	--	22	92	12	3.87	584	8.0
102	845	Aug. 4, 1965	Ev	--	--	--	--	--	--	--	314	--	20	--	--	--	--	--	104	--	--	3.07	566	7.7
103	833	Apr. 11, 1944	Ev	17	.12	--	34	7.2	90	6.7	321	15	27	.6	.5	--	--	377	114	--	3.7	2.97	590	7.7
104	1,512	June 8, 1945	J	19	.02	--	6.5	.9	*140	--	291	15	47	.8	.8	--	--	378	20	--	14	4.39	717	8.0
105	90	Jan. 26, 1945	Ev	--	--	--	12	3.2	*33	--	29	2	57	--	10	--	--	171	43	--	2.2	.00	--	--
106	300	do	Ev	26	.05	--	47	3.4	*11	--	154	2	18	.2	.0	--	--	190	131	--	.4	.00	301	7.8
107	200	do	Ev	--	--	--	21	2.7	*22	--	52	3	47	--	.5	--	--	157	64	--	1.2	.00	--	--
108	1,298	Jan. 8, 1937	Ev,J	--	--	--	4	--	*133	--	270	16	47	--	.0	--	--	323	16	--	14	4.11	--	--
109	386	do	Ev	--	--	--	--	--	--	1.5	186	2	14	--	.0	--	--	180	171	--	--	--	--	--
202	1,641	Jan. 10, 1966	J	21	.12	--	30	.6	168	1.3	352	6.4	60	1.4	.0	--	.39	435	10	97	23	5.57	734	8.2
301	980	July 28, 1965	Ev,J	--	--	--	--	--	--	--	264	--	31	--	--	--	--	--	184	--	--	.65	518	7.0
302	452	July 15, 1965	Ev	34	--	--	53	.9	*31	--	178	14	30	.1	.0	--	.04	251	136	33	1.2	.20	370	7.0
401	327	Apr. 6, 1945	Ev	--	--	--	68	3.1	*12	--	222	3	16	--	0	--	--	238	182	--	.4	.00	--	--
402	187	do	Ev	--	--	--	71	14	*17	--	239	3	21	--	.2	--	--	265	192	--	.5	.07	--	--
404	18	do	Ev	--	--	--	40	7.5	*27	--	104	10	47	--	33	--	--	268	131	--	1.0	.00	--	--
405	25	Dec. 13, 1965	Ev	--	.37	--	--	--	--	--	6	--	18	--	2.2	--	--	--	17	--	--	--	102	6.0
702	1,394	Dec. 7, 1966	J	--	--	--	--	--	--	--	258	14	60	--	--	--	--	--	10	--	--	4.03	632	7.9
801	100	Mar. 30, 1945	Ev	--	--	--	31	5.7	*43	--	24	7	118	--	--	--	--	298	101	--	1.9	.00	--	--
56-902	1,040	Aug. 5, 1965	Ev	--	--	--	--	--	--	--	162	--	26	--	--	--	--	--	118	--	--	.30	345	7.3
64-502	980	July 29, 1965	Ev	--	--	--	--	--	--	--	190	--	40	--	--	--	--	--	112	--	--	.87	443	7.2
601	808	June 9, 1945	Ev,Ch	--	.26	--	68	8.1	*61	--	205	8	113	--	--	--	--	388	203	--	1.9	.00	--	--
601	808	July 23, 1965	Ev,Ch	--	--	--	--	--	--	--	274	--	184	--	--	--	--	--	292	--	--	--	1,040	7.5
602	1,017	do	Ev,Ch	21	--	--	34	2.2	*118	--	190	15	127	.2	.0	--	.07	410	94	73	5.3	1.23	747	7.3
603	540	Apr. 18, 1945	Ev,Ch	--	.89	--	66	7.5	*108	--	182	7	178	--	--	--	--	502	196	--	3.4	.00	--	--
604	20	do	Ch	--	.38	--	129	11	*40	--	371	6	68	--	6.9	--	--	523	367	--	.9	.00	--	--
901	912	Aug. 5, 1965	Ev	--	--	--	--	--	--	--	198	--	27	--	--	--	--	--	61	--	--	2.02	403	7.6

See footnotes at end of table.

Table 8.--Chemical analyses of water from wells and springs in Liberty County--Continued

Well	Depth of well (ft)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) ^g	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Phosphate (PO ₄)	Boron (B)	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	Specific conductance (micromhos at 25°C)	pH	
SB-60-64-902	595	Aug. 9, 1955	Ev,Ch	19	--	--	42	4.4	50	2.0	206	8.9	42	--	0.2	--	0.12	274	122	--	2.0	0.94	472	8.0	
907	276	Apr. 18, 1945	Ch	--	0.26	--	50	5.9	*40	--	184	7	43	--	.2	--	--	264	149	--	1.4	.36	--	--	
61-33-601	140	Apr. 4, 1945	Ev	--	--	--	65	4.8	*13	--	207	3	26	--	.5	--	--	249	182	--	.4	.00	--	--	
601	140	Dec. 9, 1965	Ev	--	--	--	--	--	--	--	214	--	34	--	--	--	--	--	180	--	--	.00	444	7.0	
602	86	Apr. 4, 1945	Ev	--	--	--	31	2.7	*11	--	94	3	23	--	--	--	--	157	88	--	.5	.00	--	--	
603	23	do	Ev	--	--	--	18	16	*61	--	11	17	74	--	138	--	--	419	111	--	2.5	.00	--	--	
604	56	do	Ev	--	--	--	217	14	*94	--	219	7	425	--	20	--	--	1,060	599	--	--	--	--	--	
701	835	Aug. 2, 1955	Ev	32	--	--	34	2.5	36	2.2	173	4.5	24	--	.0	--	.15	224	95	--	1.6	.93	359	7.7	
701	835	July 28, 1965	Ev	--	--	--	--	--	--	--	149	--	22	--	--	--	--	--	113	--	--	.18	319	6.6	
702	110	Apr. 5, 1945	Ev	--	--	--	7.7	1.3	*24	--	64	2	11	--	7.5	--	--	97	25	--	2.1	.56	--	--	
703	1,200	Jan. 8, 1937	J	--	--	--	2	--	*208	--	402	1	98	--	.0	--	--	493	16	--	--	--	--	--	
704	52	Apr. 5, 1945	Ev	--	--	--	81	7.3	*104	--	166	13	215	--	5.6	--	--	600	232	--	3.0	.00	--	--	
705	440	Apr. 17, 1945	Ev	--	.29	--	33	6.0	*31	--	172	4	20	--	.2	--	--	201	107	--	1.3	.69	--	--	
706	226	June 8, 1945	Ev	--	.10	--	17	1.7	*18	--	66	2	22	--	.5	--	--	143	49	--	1.1	.09	--	--	
707	36	Mar. 29, 1945	Ev	--	--	--	9.2	3.3	*21	--	42	2	21	--	20	--	--	119	31	--	1.6	.00	--	--	
801	85	Apr. 5, 1945	Ev	--	--	--	23	1.9	*22	--	89	2	27	--	.0	--	--	172	65	--	1.2	.16	--	--	
803	45	do	Ev	--	--	--	27	2.2	*27	--	101	8	31	--	.2	--	--	179	76	--	1.3	.13	--	--	
901	135	Nov. 23, 1944	Ev	--	.06	--	55	3.8	*15	--	188	2	21	--	--	--	--	232	153	--	.5	.02	--	--	
902	100	do	Ev	--	.06	--	48	4.7	*5.8	--	150	2	19	--	--	--	--	247	139	--	.2	.00	--	--	
903	22	Apr. 4, 1945	Ev	--	--	--	3.0	.9	*12	--	26	4	6.0	--	5.5	--	--	65	11	--	1.6	.20	--	--	
904	30	Apr. 6, 1945	Ev	--	--	--	23	2.4	*17	--	71	11	24	--	.8	--	--	147	67	--	.9	.00	--	--	
905	236	July 26, 1965	Ev	--	--	--	--	--	--	--	245	--	9.0	--	--	--	--	--	42	--	--	--	3.18	423	7.2
908	62	Apr. 6, 1945	Ev	--	--	--	28	6.4	*17	--	21	7	17	--	104	--	--	229	96	--	.8	.00	--	--	
909	Spring	Apr. 4, 1945	Ev	--	--	--	17	2.1	*20	--	32	3	45	--	1.8	--	--	148	51	--	1.2	.00	--	--	
912	283	Dec. 12, 1965	Ev	--	.01	--	--	--	--	--	232	--	23	--	.2	--	--	--	178	--	--	--	.24	416	7.7
34-106	800	Sept. 1, 1965	J	--	--	--	--	--	--	--	292	--	46	--	--	--	--	--	26	--	--	--	4.27	639	7.7

See footnotes at end of table.

Table 8.--Chemical analyses of water from wells and springs in Liberty County--Continued

Well	Depth of well (ft)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) #	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Phosphate (PO ₄)	Boron (B)	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	Specific conductance (micromhos at 25°C)	pH
SB-61-34-107	Spring	Sept. 1, 1965	Ev	--	--	--	--	--	--	--	316	--	84	--	--	--	--	--	302	--	--	0.00	787	7.0
401	645	Nov. 23, 1944	Ev	--	0.49	--	44	7.4	*32	--	216	7	18	--	--	--	--	237	140	--	1.2	.74	--	--
401	645	Dec. 9, 1965	Ev	--	.66	--	--	--	--	--	191	--	19	--	--	--	--	--	116	--	--	.81	363	7.5
402	608	Jan. 10, 1945	Ev	20	.06	--	36	6.6	*44	--	219	7.8	18	--	--	--	--	244	117	--	1.8	1.25	397	7.4
403	233	do	Ev	22	.04	--	43	3.5	*25	--	170	3	24	--	0.2	--	--	207	122	--	1.0	.35	332	7.2
404	382	Aug. 31, 1965	Ev	--	--	--	--	--	--	--	218	--	18	--	--	--	--	--	115	--	--	1.27	409	7.3
408	650	Apr. 13, 1942	Ev	--	--	--	53	2.2	*29	--	214	5	16	--	--	--	--	210	141	--	--	--	--	--
501	808	do	Ev	--	.15	--	46	4.5	*33	--	220	5	14	--	--	--	--	211	133	--	--	--	--	--
501	808	Nov. 23, 1944	Ev	--	.15	--	46	8.9	*23	--	211	6	15	--	--	--	--	236	151	--	.8	.43	--	--
502	585	Apr. 13, 1942	Ev	--	--	--	60	4.6	*12	--	207	4	14	--	--	--	--	197	168	--	--	--	--	--
503	659	Jan. 11, 1945	Ev	--	.08	--	41	7.1	*31	--	202	4	16	--	--	--	--	268	132	--	1.2	.81	--	--
506	715	Aug. 30, 1965	Ev	24	--	--	37	5.3	*42	--	214	8.4	14	0.2	.0	--	--	236	114	44	1.7	1.22	387	7.4
509	500	Sept. 1, 1965	Ev	--	--	--	--	--	--	--	210	--	15	--	--	--	--	--	119	--	--	1.06	384	7.3
511	650	Aug. 30, 1965	Ev	31	--	--	55	2.4	*13	--	190	6.2	8.6	.1	.2	--	--	210	147	16	.5	.17	334	7.2
601	580	Apr. 13, 1942	Ev	--	--	--	6.4	5.4	*75	--	207	4	18	--	--	--	--	211	38	--	--	--	--	--
601	580	Dec. 8, 1965	Ev	--	--	--	--	--	--	--	204	--	19	--	--	--	--	--	144	--	--	.46	386	7.2
603	165	Jan. 11, 1945	Ev	--	37	--	20	1.5	*16	--	62	14	18	--	.2	--	--	121	56	--	.9	.00	--	--
605	90	do	Ev	--	.81	--	6.6	1.6	*15	--	26	2	22	--	.5	--	--	72	23	--	1.4	.00	--	--
607	87	Jan. 24, 1945	Ev	18	5.2	--	19	2.3	*15	--	65	2	24	.2	.0	--	--	123	57	--	.9	.00	188	6.2
801	808	Apr. 13, 1942	Ev	--	--	--	27	1.0	*58	--	207	5	16	--	--	--	--	209	71	--	--	--	--	--
801	808	Jan. 4, 1945	Ev	--	--	--	--	--	--	--	196	6	17	--	--	--	--	--	88	--	--	--	--	--
805	480	July 12, 1965	Ev	--	--	--	--	--	--	--	268	--	46	--	--	--	--	--	128	--	--	1.83	566	7.2
807	310	Apr. 13, 1942	Ev	--	--	--	51	2.2	*9.2	--	171	2	10	--	--	--	--	158	136	--	--	--	--	--
807	310	Jan. 4, 1945	Ev	--	--	--	--	--	--	--	155	3	12	--	--	--	--	--	135	--	--	--	--	--
902	104	Jan. 10, 1945	Ev	--	.00	--	30	1.8	*20	--	92	2	34	--	.2	--	--	168	82	--	1.0	.00	--	--
903	Spring	Jan. 24, 1945	Ev	--	--	--	29	3.2	*24	--	78	10	45	--	.5	--	--	184	86	--	1.1	.00	--	--

See footnotes at end of table.

Table 8.--Chemical analyses of water from wells and springs in Liberty County--Continued

Well	Depth of well (ft)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) ^{gr}	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Phosphate (PO ₄)	Boron (B)	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	Specific conductance (micromhos at 25°C)	pH
SB-61-41-101	502	Aug. 5, 1965	Ev	--	--	--	--	--	--	--	106	--	13	--	--	--	--	--	80	--	--	0.14	220	6.3
102	45	Apr. 17, 1945	Ev	--	0.71	--	5.7	2.8	*14	--	34	5	15	--	3.7	--	--	92	26	--	1.2	.04	--	--
301	40	Jan. 9, 1945	Ev	--	.10	--	31	1.9	*13	--	117	9	6.0	--	--	--	--	164	85	--	.6	.22	--	--
401	325	Jan. 25, 1945	Ev	30	.05	--	64	4.0	*15	--	221	2	18	--	.2	--	--	252	176	--	.5	.10	395	7.4
402	100	Jan. 26, 1945	Ev	--	.06	--	17	2.2	*26	--	87	4	23	--	.2	--	--	145	52	--	1.6	.40	--	--
405	35	Jan. 25, 1945	Ev	--	.11	--	62	1.0	*256	--	88	26	410	--	94	--	--	1,040	196	--	8.0	.00	--	--
406	39	Jan. 26, 1945	Ev	--	.09	--	19	1.4	*18	--	61	2	26	--	4.5	--	--	120	53	--	1.1	.00	--	--
501	368	Jan. 25, 1945	Ev	--	--	--	49	4.1	*18	--	178	3	20	--	.2	--	--	212	139	--	.7	.14	--	--
501	368	Dec. 12, 1965	Ev	--	.01	--	--	--	--	--	172	--	18	--	1.0	--	--	--	127	--	--	.28	337	7.1
502	247	Jan. 25, 1945	Ev	--	--	--	57	4.4	*17	--	205	4	18	--	--	--	--	238	160	--	.6	.15	--	--
503	95	Apr. 17, 1945	Ev	--	.41	--	5.9	1.7	*27	--	63	2	18	--	1.2	--	--	106	22	--	2.5	.60	--	--
701	625	Aug. 2, 1955	Ev	32	--	--	40	3.3	16	2.2	146	1.6	22	--	.0	--	--	194	113	23	.7	.13	307	7.4
901	222	Jan. 25, 1945	Ev	--	--	--	36	2.7	*24	--	139	5	24	--	--	--	--	188	101	--	1.0	.26	--	--
902	60	do	Ev	--	.17	--	6.9	2.6	*28	--	64	3	18	--	11	--	--	99	28	--	2.3	.49	--	--
42-101	480	Jan. 9, 1945	Ev	--	.04	--	45	3.9	*22	--	163	2	29	--	--	--	--	217	128	--	.8	.10	--	--
301	1,000	Sept. 9, 1965	Ev	23	--	--	32	6.4	*46	--	211	10	16	0.2	.2	--	--	238	106	49	1.9	1.34	395	7.2
501	379	Aug. 5, 1965	Ev	--	--	--	--	--	--	--	570	--	245	--	--	--	--	--	--	59	--	8.16	1,640	7.7
503	600	do	Ev	--	--	--	--	--	--	--	240	--	1,010	--	--	--	--	--	--	308	--	.00	3,560	7.0
43-701	150	July 23, 1965	Ev	--	--	--	--	--	--	--	246	--	100	--	--	--	--	--	--	272	--	--	725	7.1
702	639	May 20, 1960	Ev	32	--	--	66	3.3	14	2.7	200	6.2	30	--	.0	--	0.05	252	178	14	.5	.00	419	7.4
801	100	July 23, 1965	Ev	--	--	--	--	--	--	--	312	--	176	--	--	--	--	--	--	378	--	--	1,060	7.3
49-102	103	Jan. 25, 1945	Ev	--	--	--	13	1.9	*38	--	90	2	32	--	2.5	--	--	161	40	--	2.6	.67	--	--
301	24	June 8, 1945	Ev	--	.26	--	5.2	2.4	*16	--	19	2	19	--	16	--	--	85	23	--	1.5	.00	--	--
301	24	Dec. 13, 1965	Ev	--	.13	--	--	--	--	--	44	--	110	--	.0	--	--	--	--	58	--	--	438	6.8
801	750	June 9, 1945	Ev	--	.06	--	53	4.9	*28	--	201	4	32	--	.2	--	--	254	152	--	1.0	.25	--	--
802	760	Aug. 4, 1965	Ev	--	--	--	--	--	--	--	220	--	37	--	--	--	--	--	168	--	--	.25	472	7.5

See footnotes at end of table.

Table 8.--Chemical analyses of water from wells and springs in Liberty County--Continued

Well	Depth of well (ft)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) g/l	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Phosphate (PO ₄)	Boron (B)	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	Specific conductance (micromhos at 25°C)	pH
SB-61-49-804	760	July 15, 1965	Ev	26	--	--	55	3.1	*37	--	204	8.0	38	0.3	0.0	--	0.02	267	150	35	1.3	0.34	453	7.2
805	624	Aug. 4, 1955	Ev	29	--	--	71	5.8	38	1.6	240	7.7	59	--	.0	--	.12	330	200	29	1.2	.00	599	7.7
805	624	July 15, 1965	Ev	--	--	--	--	--	--	--	362	--	79	--	--	--	--	--	296	--	--	.01	818	7.1
806	885	Aug. 4, 1965	Ev	--	--	--	--	--	--	--	184	--	37	--	--	--	--	--	148	--	--	.06	421	7.5
51-102	660	July 13, 1965	Ev	--	--	--	--	--	--	--	250	--	29	--	--	--	--	--	192	--	--	.26	496	7.1
107	90	Aug. 19, 1965	Ch	--	--	--	--	--	--	--	262	--	17	--	--	--	--	--	174	--	--	.81	454	7.3
201	643	July 12, 1965	Ev	--	--	--	--	--	--	--	201	--	33	--	--	--	--	--	179	--	--	--	437	7.2
202	100	July 22, 1965	Ch	--	--	--	--	--	--	--	314	--	36	--	--	--	--	--	206	--	--	1.03	610	7.0
501	160	July 13, 1965	Ch	--	--	--	--	--	--	--	296	--	49	--	--	--	--	--	218	--	--	.47	622	7.0
502	106	Aug. 19, 1965	Ch	--	--	--	--	--	--	--	390	--	38	--	--	--	--	--	216	--	--	2.07	718	7.0
601	550	July 19, 1965	Ev,Ch	--	--	--	--	--	--	--	220	--	59	--	--	--	--	--	186	--	--	--	563	6.9
701	678	May 20, 1960	Ev,Ch	23	--	--	144	10	84	2.6	257	22	250	--	--	--	.02	669	400	31	1.8	.00	1,240	6.9
701	678	July 13, 1965	Ev,Ch	--	--	--	--	--	--	--	282	22	173	--	--	--	--	--	344	--	--	.00	1,030	7.1
705	150	do	Ch	24	--	--	101	7.3	*70	--	428	5.6	54	.4	.0	--	.08	472	282	35	1.8	1.37	809	7.5
801	817	July 20, 1965	Ev	28	--	--	54	4.3	*79	--	270	10	65	.3	.0	--	.08	374	152	53	2.8	1.39	646	7.3
804	625	do	Ev	--	--	--	--	--	--	--	260	8.0	37	--	--	--	--	--	156	--	--	1.14	536	7.3
806	624	Aug. 5, 1955	Ev,Ch	26	--	--	57	3.1	*43	--	233	7.6	36	--	--	--	.03	288	154	--	1.8	--	498	7.9
806	624	July 20, 1965	Ev,Ch	--	--	--	--	--	--	--	253	--	39	--	--	--	--	--	174	--	--	.67	536	6.8
906	365	Apr. 12, 1944	Ch	24	0.03	--	50	3.2	46	4.0	213	4.7	44	.8	.5	--	--	288	138	--	1.7	.73	492	7.9
906	365	Feb. 1, 1966	Ch	27	--	--	46	3.7	50	1.6	220	5.8	40	.2	.2	0.01	.05	283	130	45	1.9	1.01	482	7.3
913	580	Jan. 10, 1966	Ev	23	.12	--	50	3.7	46	1.5	220	5.8	40	.3	.0	--	.05	278	140	41	1.7	.81	476	7.4
57-101	1,000	June 9, 1945	Ev,Ch	--	.61	--	92	8.5	*104	--	354	12	133	--	.2	--	--	550	264	--	2.8	.51	--	--
102	740	do	Ev,Ch	--	.48	--	97	8.3	*46	--	264	12	104	--	.2	--	--	470	276	--	1.2	.00	--	--
102	740	July 23, 1965	Ev,Ch	--	--	--	--	--	--	--	208	--	51	--	--	--	--	--	152	--	--	.37	514	7.2
105	880	do	Ev	--	--	--	--	--	--	--	200	--	26	--	--	--	--	--	108	--	--	1.12	375	7.2
202	816	do	Ev	--	--	--	--	--	--	--	236	--	72	--	--	--	--	--	214	--	--	--	626	7.1

See footnotes at end of table.

Table 8.--Chemical analyses of water from wells and springs in Liberty County--Continued

Well	Depth of well (ft)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) ₂	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Phosphate (PO ₄)	Boron (B)	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	Specific conductance (micromhos at 25°C)	pH	
SB-61-57-204	827	July 23, 1965	Ev	--	--	--	--	--	--	--	204	--	38	--	--	--	--	--	124	--	--	0.86	437	7.1	
	206	887	do	Ev,Ch	23	--	--	50	3.2	*306	--	200	17	440	0.3	0.8	--	0.08	938	138	83	11	.52	1,790	7.3
	401	545	do	Ev,Ch	--	--	--	--	--	--	228	--	288	--	--	--	--	--	200	--	--	--	1,320	7.1	
	402	1,030	Apr. 19, 1945	Ev,Ch	--	0.54	--	12	2.0	*235	--	250	12	234	--	--	--	--	638	38	--	17	3.35	--	--
	403	1,005	June 19, 1945	Ev,Ch	--	.21	--	18	2.1	*250	--	241	18	270	--	--	--	--	708	54	--	15	2.88	--	--
	405	870	June 7, 1945	Ev,Ch	--	.08	--	4.2	.8	*212	--	258	19	172	--	.2	--	--	542	14	--	25	3.97	--	--
	405	870	July 30, 1965	Ev,Ch	--	--	--	--	--	--	220	--	234	--	--	--	--	--	--	44	--	--	2.73	1,190	7.2
	406	834	Apr. 19, 1945	Ev,Ch	--	.40	--	26	3.3	*423	--	240	12	560	--	.8	--	--	1,140	78	--	21	2.36	--	--
	406	834	July 30, 1965	Ev,Ch	--	--	--	--	--	--	254	--	636	--	--	--	--	--	--	50	--	--	3.16	2,460	7.3
	409	884	do	Ev	--	--	--	--	--	--	230	--	240	--	--	--	--	--	--	61	--	--	2.55	1,130	7.2
	506	940	July 15, 1965	Ev	--	--	--	--	--	--	266	--	225	--	--	--	--	--	--	54	--	--	3.28	1,160	7.5
	601	490	Aug. 16, 1965	Ev	--	--	--	--	--	--	188	--	240	--	--	--	--	--	--	236	--	--	--	1,060	6.9
	602	376	do	Ch	--	--	--	--	--	--	256	--	218	--	--	--	--	--	--	140	--	--	1.40	1,080	6.9
	603	806	do	Ev	18	--	0.04	48	8.3	277	2.3	198	6.8	415	.5	.8	0.02	.12	874	154	79	9.7	.17	1,670	7.3
	605	399	Apr. 17, 1944	Ch	21	.11	--	48	4.4	170	4.0	239	2	207	.8	.0	--	--	590	118	--	6.8	1.56	1,080	7.7
	701	780	June 15, 1945	Ev,Ch	--	.65	--	11	1.6	*132	--	256	12	69	--	--	--	--	382	34	--	9.8	3.53	--	--
	703	837	Aug. 13, 1965	Ev,Ch	--	--	--	--	--	--	264	--	48	--	--	--	--	--	--	24	--	--	3.85	585	8.0
	902	400	Jan. 27, 1945	Ch	--	--	--	7.2	1.3	*112	--	229	4	54	--	.2	--	--	304	24	--	9.9	3.28	--	--
	903	685	do	Ev	11	.06	--	29	5.6	*247	--	240	2	307	.2	.5	--	--	753	96	--	11	2.55	1,370	7.8
58-501	960	June 27, 1960	Ev	18	.80	.20	64	14	171	3.0	169	.0	318	.2	1.8	.05	--	--	731	217	63	5.0	.00	1,290	7.6
	502	806	Jan. 27, 1966	Ev	22	.07	.11	75	9.0	77	2.4	178	5.4	174	.3	.2	.0	.05	453	224	42	2.2	.00	855	7.2
	503	351	Nov. 18, 1943	Ch	21	.10	--	53	4.7	54	2.5	240	9.5	46	.6	.8	--	--	312	152	--	1.9	.89	544	7.5
	504	565	do	Ev	21	.08	--	70	6.6	62	3.6	190	6.8	125	.4	.2	--	--	419	202	--	1.9	.00	730	7.5
	505	651	do	Ev	16	.08	--	76	11	112	3.5	149	3.7	251	.2	1.0	--	--	636	234	--	3.2	.00	1,090	7.6
	506	540	Jan. 16, 1945	Ev	--	2.4	--	55	7.6	*65	--	206	2	98	--	.8	--	--	341	168	--	2.2	.01	--	--
	507	260	Dec. 9, 1944	Ch	--	--	--	67	7.0	*89	--	231	5	138	--	1.0	--	--	379	196	--	2.8	.00	--	--

See footnotes at end of table.

Table 8.--Chemical analyses of water from wells and springs in Liberty County--Continued

Well	Depth of well (ft)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) ²⁻	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Phosphate (PO ₄)	Boron (B)	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	Specific conductance (micromhos at 25°C)	pH	
SB-61-58-508	350	Jan. 23, 1945	Ev	20	0.37	--	60	6.8	*54	--	210	4	83	0.4	--	--	--	345	178	--	1.8	0.00	611	7.4	
	510	Jan. 27, 1945	Ch	--	--	--	26	28	*11	--	12	6	30	--	180	--	--	361	180	--	.4	.00	--	--	
	514	Oct. 30, 1931	Ev	--	--	--	--	--	--	--	--	10	130	--	--	--	--	--	--	--	--	--	--	--	
	515	Nov. 1, 1931	Ev	--	--	--	--	--	--	--	--	5	256	--	--	--	--	--	--	--	--	--	--	--	
	605	Mar. 31, 1945	Ch	--	--	--	62	5.2	*15	--	185	4	38	--	--	--	--	259	176	--	.5	.00	--	--	
	606	Apr. 20, 1945	Ch	--	.63	--	38	2.4	*17	--	108	8	8	--	.2	--	--	142	105	--	.1	.00	--	--	
	609	Jan. 8, 1966	Ev	19	--	--	50	8.5	78	2.3	176	5.6	132	.3	.2	--	.06	383	160	51	2.7	.00	715	7.4	
	702	June 15, 1945	Ch	--	1.4	--	32	3.8	*166	--	248	3	177	--	--	--	--	542	96	--	7.4	2.16	--	--	
59-104	800	July 16, 1965	Ev	--	--	--	--	--	--	--	322	--	144	--	--	--	--	--	310	--	--	--	--	989	7.1
	202	Aug. 19, 1965	Ev,Ch	--	--	--	--	--	--	--	220	--	348	--	--	--	--	--	316	--	--	--	--	1,480	7.1
	205	do	Ev,Ch	--	--	--	--	--	--	--	200	--	470	--	--	--	--	--	412	--	--	--	--	1,820	6.6
	301	June 21, 1945	Ch	--	.08	--	42	4.6	*81	--	223	9	77	--	--	--	--	358	124	--	3.2	1.18	--	--	
	404	Jan. 10, 1966	Ev	16	--	--	68	9.8	94	2.5	180	3.2	190	.3	.0	--	.08	473	210	49	2.8	.00	898	7.3	
	501	Aug. 3, 1955	Ev	21	--	--	75	8.5	331	2.9	210	2.7	558	--	2.0	--	.32	1,120	222	--	9.7	.00	2,100	8.3	
	503	July 14, 1965	Ev,Ch	--	--	--	--	--	--	--	202	--	460	--	--	--	--	--	198	--	--	--	--	1,830	7.2
	506	Jan. 8, 1966	Ch	25	--	--	81	15	410	3.0	278	.8	660	.3	2.5	--	.09	1,330	262	77	11	.00	2,490	7.3	
	601	July 14, 1965	Ev,Ch	20	--	--	26	3.4	*289	--	218	7.6	368	.6	.5	--	.11	822	79	89	14	1.99	1,570	7.3	
	801	do	Ch	--	--	--	--	--	--	--	260	--	520	--	--	--	--	--	246	--	--	--	--	2,080	7.1
	803	Jan. 26, 1966	Ev	14	.10	0.04	11	2.6	182	1.3	158	4.8	216	.3	.5	0.02	.10	511	38	91	13	1.83	966	7.4	
60-802	99	Jan. 23, 1945	Ch	--	25	--	56	6.6	*29	--	171	21	49	--	--	--	--	274	167	--	1.0	.00	--	--	
	902	June 20, 1945	Ch	--	1.1	--	21	3.9	*308	--	303	2	344	--	2.5	--	--	854	68	--	16	3.61	--	--	
	903	Jan. 17, 1945	Ch	--	--	--	35	5.6	*94	--	269	4	63	--	1.0	--	--	338	110	--	3.9	2.20	--	--	
	904	July 19, 1965	Ev,Ch	21	--	--	55	4.6	*84	--	288	20	57	.4	.0	--	.06	384	156	54	2.9	1.6	665	7.3	
64-01-103	175	Oct. 30, 1931	Ch	--	--	--	--	--	--	--	--	--	224	--	--	--	--	--	--	--	--	--	--	--	
	201	Jan. 27, 1945	Ch	12	.68	--	5.2	1.5	*149	--	333	2	45	1.4	.2	--	--	389	19	--	15	5.08	647	7.3	
02-601	176	Dec. 8, 1944	Ch	--	.04	--	39	7.4	*244	--	254	3	294	--	--	--	--	760	128	--	9.4	2.27	--	--	

See footnotes at end of table.

Table 8.--Chemical analyses of water from wells and springs in Liberty County--Continued

Well	Depth of well (ft)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃) ^y	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Phosphate (PO ₄)	Boron (B)	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Residual sodium carbonate (RSC)	Specific conductance (micromhos at 25°C)	pH
SB-64-02-601	176	Feb. 1, 1966	Ch	15	--	--	44	11	237	1.7	344	0.2	282	0.6	0.05	--	0.16	761	156	77	8.2	2.52	1,420	7.5
604	491	Jan. 9, 1966	Ch	16	--	--	35	8.9	260	1.6	300	.0	312	.9	.5	--	.21	783	124	82	10	2.44	1,450	7.5
03-101	825	Dec. 23, 1944	Ev	--	0.06	--	50	4.8	*336	--	186	2	510	--	.2	--	--	1,080	144	--	12	.17	--	--
303	496	Aug. 17, 1965	Ch	27	.03	--	41	4.3	146	1.2	322	4.0	126	.7	.2	--	.14	509	120	72	5.8	2.88	1,000	7.4
401	333	Jan. 1, 1945	Ch	--	.07	--	26	4.1	*300	--	318	2	334	--	--	--	--	836	82	--	14	3.57	--	--
801	68	do	Ch	23	.03	--	160	21	318	1.6	364	58	580	.5	.8	--	.10	1,340	486	59	6.3	.00	2,460	7.0
802	68	do	Ch	--	--	--	--	--	--	--	400	--	520	--	--	--	--	--	462	--	--	--	2,300	7.4
04-101	406	do	Ch	24	1.1	--	23	3.1	*213	--	279	2	212	1.0	.2	--	--	615	70	--	11	3.18	1,130	7.9
101	406	Feb. 1, 1966	Ch	27	--	--	21	3.3	211	1.2	260	.6	228	.8	.8	--	.14	622	66	87	--	--	1,130	7.5

* Sodium and potassium calculated as sodium (Na).

^y Includes the equivalent of any carbonate (CO₃) present.