

Table 5.--Analyses of water from wells in Live Oak County

(Analyses given are in parts per million except specific conductance, pH, and percent sodium)

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) g/3	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
A-1	James Essee	4,832	Aug. 8, 1956	Carrizo sand	-	-	-	-	-	783	-	135	-	-	-	-	17	0	-	-	1,910	8.6
A-2	Humble Pipe-line Co.	450	July 24, 1934	Jackson group	-	-	-	-	-	560	-	1,080	-	-	-	-	-	-	-	-	-	-
A-2	do	450	Aug. 16, 1940	do	-	-	41	5.6	1,200	386	819	1,110	0.2	-	-	3,430	125	0	-	-	-	-
A-3	do	450	do	do	-	-	69	5.6	1,200	566	790	1,080	.1	-	-	3,440	195	0	-	-	-	-
A-4	Humble Oil & Refining Co.	4,842	Aug. 8, 1956	Carrizo sand	39	0.13	2.8	.3	422 4.5	918	11	110	1.3	0.0	0.39	1,040	8	0	98	65	1,680	8.2
B-1	Mrs. Emilie Bruns	156	Oct. 3, 1957	Jackson group	-	-	-	-	-	350	-	525	-	-	-	-	415	128	-	-	3,620	7.8
B-2	Mrs. E. V. Harbeck	140	Oct. 31, 1956	Catahoula tuff	-	-	-	-	-	240	-	722	-	-	-	-	281	84	-	-	2,740	7.9
B-3	Caraway & Holmes	300	Nov. 1, 1956	do	-	-	-	-	-	275	-	1,700	-	-	-	-	505	280	-	-	5,880	7.5
B-4	L. L. Reasoner	125	Oct. 31, 1956	do	-	-	-	-	-	294	-	560	-	-	-	-	194	0	-	-	2,420	8.1
B-6	Ernest Blaschke	265	Oct. 25, 1956	do	-	-	-	-	-	173	-	2,650	-	-	-	-	590	448	-	-	8,780	8.2
B-8	J. O. Arnold	180	Oct. 30, 1956	do	-	-	-	-	-	421	-	1,090	-	-	-	-	236	0	-	-	4,240	7.9
B-8	do	180	Apr. 4, 1957	do	96	-	69	9.0	808 38	421	201	1,050	.3	1.0	3.3	2,480	210	0	87	24	4,170	7.6
B-9	Bryan Butler	150	Oct. 24, 1956	Catahoula tuff	-	-	-	-	-	398	-	1,050	-	-	-	-	252	0	-	-	4,250	7.6
B-10	Mrs. Eva B. Houston	150	Oct. 30, 1956	do	-	-	-	-	-	266	-	1,760	-	-	-	-	525	307	-	-	6,460	8.0
B-11	Bryan Butler	159	Oct. 24, 1956	do	-	-	-	-	-	416	-	578	-	-	-	-	164	0	-	-	2,800	7.7
B-12	do	149	do	do	-	-	-	-	-	375	-	950	-	-	-	-	286	0	-	-	4,200	7.7

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of	Date of collec-	Water-bearing	Silica (SiO ₂)	Iron (Fe)	Calcium	Magne-	Sodium	Bicar-	Sul-	Chlo-	Fluo-	Ni-	Boron	Diss-	Hard-	Per-	Sodium	Specific	pH
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Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
B-14	Lasca Butler	630	Oct. 24, 1956	Jackson group	-	-	-	-	-	174	-	2,120	-	-	-	-	155	12	-	-	6,850	7.7
B-14	do	630	Apr. 4, 1957	do	32	-	72	9.8	1,480	134	6.6	2,350	-	-	-	4,020	220	110	94	43	7,000	7.8
B-15	H. C. Stolte	65	Oct. 24, 1956	Catahoula tuff	-	-	-	-	-	430	-	880	-	-	-	-	218	0	-	-	3,770	7.6
B-16	do	135	do	do	-	-	-	-	-	282	-	2,350	-	-	-	-	1,380	1,150	-	-	8,850	8.1
B-17	James Kunde	70	Oct. 23, 1956	do	-	-	-	-	-	280	-	1,260	-	-	-	-	1,600	1,470	-	-	6,810	8.0
B-18	B. E. Stolte	155	Oct. 29, 1956	do	-	-	-	-	-	270	-	2,100	-	-	-	-	675	454	-	-	7,330	7.9
B-19	Robert Gaebler	142	do	do	-	-	-	-	-	290	-	1,230	-	-	-	-	455	217	-	-	4,450	7.3
B-22	B. E. Stolte	155	do	do	-	-	-	-	-	179	-	4,090	-	-	-	-	1,470	1,320	-	-	12,300	8.0
B-23	James Kunde	190	Oct. 23, 1956	do	-	-	-	-	-	222	-	2,500	-	-	-	-	510	328	-	-	7,570	8.0
B-24	Willie Kunde	214	do	Jackson group	-	-	-	-	-	204	-	800	-	-	-	-	320	153	-	-	3,060	7.7
B-27	Mrs. E. V. Harveck	110	Dec. 5, 1956	Catahoula tuff	-	-	-	-	-	170	-	3,640	-	-	-	-	1,970	1,830	-	-	11,100	7.4
B-28	M. L. White	170	Oct. 26, 1956	do	-	-	-	-	-	74	-	4,230	-	-	-	-	1,540	1,480	-	-	13,300	6.4
B-30	E. P. Ruhman	29	Nov. 1, 1956	do	-	-	-	-	-	357	-	2,900	-	-	-	-	1,710	1,420	-	-	9,550	7.3
B-34	do	150	do	do	-	-	-	-	-	40	-	3,540	-	-	-	-	1,120	1,090	-	-	11,700	8.0
B-35	Neill Butler	170	Oct. 30, 1956	do	-	-	-	-	-	362	-	1,600	-	-	-	-	460	164	-	-	6,370	7.9
B-36	Carmen Rodriguez	150	Oct. 25, 1956	do	-	-	-	-	-	214	-	2,950	-	-	-	-	1,020	845	-	-	9,830	7.6
B-38	Walter Goetze	480	do	do	-	-	-	-	-	268	-	2,000	-	-	-	-	360	140	-	-	6,930	7.7
C-1	Raford Withers	125	July 26, 1942	Jackson group	-	-	134	11	218	358	196	252	-	0.0	-	1,020	380	86	-	-	-	-

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) a/	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
C-1	Raford Withers	125	Mar. 26, 1946	Jackson group	-	-	-	-	-	220	280	270	-	-	-	-	-	-	-	-	-	-
C-2	do	166	July 24, 1934	do	-	-	-	-	-	450	-	139	-	-	-	-	-	-	-	-	-	-
C-3	Albert McCowen	61	Dec. 3, 1956	do	-	-	-	-	-	349	-	720	-	-	-	-	1,400	1,110	-	-	4,060	7.0
C-4	Ernest Esse	38	Dec. 5, 1956	do	-	-	-	-	-	259	-	470	-	-	-	-	426	214	-	-	2,670	7.8
C-5	Norah E. Herring	55	Aug. 29, 1956	do	-	-	-	-	-	196	-	360	-	-	-	-	149	0	-	-	2,050	8.4
C-8	do	205	do	do	-	-	-	-	-	445	-	2,480	-	-	-	-	110	0	-	-	10,600	8.7
C-9	City of Whitsett	500	Dec. 5, 1956	do	-	-	-	-	-	652	-	3,500	-	-	-	-	315	0	-	-	10,700	7.5
C-11	James K. New	500	Oct. 4, 1957	do	-	-	-	-	-	549	-	1,720	-	-	-	-	270	0	-	-	4,520	7.8
C-13	Vera W. Seale	359	Dec. 5, 1956	do	-	-	-	-	-	333	-	2,350	-	-	-	-	310	37	-	-	9,190	8.0
C-14	J. Dobie	491	do	do	-	-	-	-	-	482	-	1,010	-	-	-	-	90	0	-	-	5,260	7.8
C-15	do	430	Feb. 1951	do	39	-	36	3.2	1,280	497	925	1,070	-	1.0	-	3,600	103	0	-	-	5,640	8.0
C-31	A. J. Liska	120	Aug. 20, 1956	Catahoula tuff	-	-	-	-	-	416	-	1,750	-	-	-	-	765	424	-	-	8,690	8.0
C-33	Joe Armstrong	60	Jan. 15, 1957	do	-	-	-	-	-	335	-	56	-	-	-	-	126	0	-	-	845	7.6
C-34	H. D. House	71	do	do	-	-	-	-	-	540	-	115	-	-	-	-	90	0	-	-	1,350	7.8
C-39	Mable New	220	do	Jackson group	-	-	-	-	-	477	-	400	-	-	-	-	400	6	-	-	2,580	7.8
D-1	Chester Cotter	400	Oct. 17, 1956	Catahoula tuff	-	-	-	-	-	322	-	1,400	-	-	-	-	420	156	-	-	6,070	7.6
D-7	Louis Schmidt	900	Dec. 13, 1956	Jackson group	-	-	-	-	-	904	-	1,700	-	-	-	-	48	0	-	-	6,260	7.8

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of	Date of collection	Water-bearing	Silica (SiO ₂)	Iron (Fe)	Calcium	Magnesium	Sodium and	Bicarbonate	Sulfate	Chloride	Fluoride	Nitrate	Boron (B)	Dissolved	Hardness as CaCO ₃		Percent	Sodium	Specific	pH
																	Total	Non-carbonate				

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) ^{a/3}	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
																	Total	Non-carbonate					
D-8	Louis Schmidt	295	Dec. 13, 1956	Catahoula tuff	-	-	-	-	-	285	-	2,380	-	-	-	-	860	626	-	-	8,210	7.1	
D-9	J. A. Benham	400?	Dec. 31, 1956	do	-	-	-	-	-	292	-	2,850	-	-	-	-	525	286	-	-	8,700	7.9	
D-10	R. M. Boswell	90?	Dec. 12, 1956	do	-	-	-	-	-	284	-	370	-	-	-	-	1,180	948	-	-	3,100	7.6	
D-11	do	90?	do	do	-	-	-	-	-	268	-	740	-	-	-	-	1,190	970	-	-	3,960	7.6	
D-13	Louis Schmidt	500	Dec. 28, 1956	do	-	-	-	-	-	328	-	4,510	-	-	-	-	703	434	-	-	12,900	8.0	
D-14	P. Schweikert	275	Dec. 10, 1956	do	-	-	-	-	-	351	-	2,750	-	-	-	-	965	677	-	-	10,200	7.6	
D-15	Holly Ranch	325	Dec. 13, 1956	do	-	-	-	-	-	74	-	5,230	-	-	-	-	1,420	1,360	-	-	15,500	6.8	
D-15	do	325	Apr. 4, 1957	do	-	-	-	-	3,080	246	1,090	5,170	-	-	-	-	1,900	1,700	78	-	16,000	6.9	
D-17	W. L. O'Brian	3,558	July 30, 1934	Yegua formation?	-	-	-	-	-	1,560	-	3,160	-	-	-	-	b/ 24	0	-	-	-	-	
D-17	do	3,558	Dec. 7, 1956	do	-	-	-	-	-	1,520	-	3,050	-	-	-	-	28	0	-	-	10,700	8.2	
D-17	do	3,558	Apr. 4, 1957	do	29	-	5.6	2.2	2,550	1,510	0.6	3,050	-	-	5.8	6,390	23	0	100	231	10,700	7.9	
D-18	E. E. & F. W. Ludwig	80	Dec. 11, 1956	Oakville sandstone	-	-	-	-	-	266	-	670	-	-	-	-	702	484	-	-	2,770	7.3	
D-19	Henry Weiding	470	Jan. 2, 1957	do	-	-	-	-	-	37	-	430	-	-	-	-	265	4	-	-	2,270	7.9	
D-19	do	470	Oct. 3, 1957	do	32	0.00	79	14	384	26	329	251	410	0.5	3.0	1.1	1,380	254	0	74	10	2,300	7.6
D-20	J. A. Benham	88	Jan. 21, 1957	do	-	-	-	-	-	451	-	460	-	-	-	-	530	160	-	-	2,760	7.8	
D-21	do	200	Jan. 2, 1957	do	-	-	-	-	-	302	-	1,510	-	-	-	-	610	362	-	-	5,680	7.8	

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _{a/3}	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
D-22	E. H. Sparkman	48	Jan. 21, 1957	Lagarto clay	-	-	-	-	-	271	-	505	-	-	-	-	600	378	-	-	2,310	7.9
D-23	J. C. Dunn	43	do	do	-	-	-	-	-	207	-	1,020	-	-	-	-	1,180	1,010	-	-	3,860	7.6
D-25	O. A. Braune	280	Jan. 17, 1956	Catahoula tuff	-	-	-	-	-	394	-	3,280	-	-	-	-	545	222	-	-	9,830	7.9
D-26	do	48	do	Oakville sandstone	-	-	-	-	-	326	-	680	-	-	-	-	1,760	1,490	-	-	4,320	7.0
D-27	do	69	do	do	-	-	-	-	-	332	-	560	-	-	-	-	535	263	-	-	2,560	7.3
D-27	do	69	Apr. 5, 1957	do	77	-	165	24	313 14	367	68	530	0.9	129	1.0	1,500	510	209	56	6.0	2,550	7.2
D-28	do	48	Dec. 17, 1956	do	-	-	-	-	-	256	-	310	-	-	-	-	570	360	-	-	2,110	7.7
D-29	John T. Schulz	230	Sept. 26, 1956	Catahoula tuff	-	-	-	-	-	402	-	1,910	-	-	-	-	435	106	-	-	6,820	7.7
D-35	A. J. Liska	125	Aug. 20, 1956	do	-	-	-	-	-	270	-	6,150	-	-	-	-	1,920	1,690	-	-	18,200	7.8
D-37	Ernest Blaschke	-	Dec. 12, 1956	do	-	-	-	-	-	511	-	1,090	-	-	-	-	305	0	-	-	4,570	7.6
D-38	do	210	Dec. 11, 1956	do	-	-	-	-	-	405	-	700	-	-	-	-	216	0	-	-	2,920	7.4
D-40	Chester Cotter	512	Oct. 17, 1956	Jackson group	-	-	-	-	-	489	-	1,110	-	-	-	-	94	0	-	-	5,780	8.2
E-4	Howard Crawford	47	Sept. 12, 1956	Catahoula tuff	-	-	-	-	-	-	-	402	-	-	-	-	495	-	-	-	2,270	-
E-6	Mrs. Thomas Gilmore	144	Sept. 1956	do	-	-	-	-	-	212	-	980	-	-	-	-	765	591	-	-	5,260	7.9
E-7	R. B. Valentine	90	Sept. 11, 1956	do	-	-	-	-	-	581	-	1,010	-	-	-	-	105	0	-	-	3,950	7.8
E-8	V. B. Odom	50	do	Alluvium	-	-	-	-	-	518	-	95	-	-	-	-	310	0	-	-	1,090	7.5
E-11	Mrs. O. F. Akres	212	Sept. 1956	Catahoula tuff	-	-	-	-	-	-	-	850	-	-	-	-	182	-	-	-	3,610	-

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth	Date of	Water-	Silica	Iron	Cal-	Magne-	Sodium	Bicar-	Sul-	Chlo-	Fluo-	NI-	Boron	Dis-	Hardness as CaCO	Per-	Sodium	Specific	
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Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _{a/}	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
E-12	Mrs. O. F. Akres	100	Sept. 12, 1956	Catahoula tuff	-	-	-	-	-	418	-	1,600	-	-	-	-	308	0	-	-	5,310	8.1
E-13	W. R. Coquat	212	do	do	-	-	-	-	-	-	-	5,020	-	-	-	-	1,320	-	-	-	14,200	-
E-14	W. D. Bedell	186	Aug. 9, 1956	Oakville sandstone	-	-	-	-	-	274	-	345	-	-	-	-	397	173	-	-	1,760	7.6
E-18	K. W. Schreiner well A-2	264	Apr. 24, 1957	do	-	-	-	-	-	261	-	194	-	-	-	-	366	152	-	-	1,110	7.2
E-23	W. A. Smith	317	Sept. 19, 1956	do	-	-	-	-	-	241	-	322	-	-	-	-	305	107	-	-	1,830	7.9
E-25	do	625	do	Catahoula tuff	-	-	-	-	-	331	-	2,700	-	-	-	-	370	60	-	-	8,660	7.8
E-26	C. S. & W. H. Herring	722	Aug. 23, 1956	do	-	-	-	-	-	466	-	2,160	-	-	-	-	118	0	-	-	7,250	7.9
E-27	Harold D. House	386	Aug. 14, 1956	do	-	-	-	-	-	395	-	1,800	-	-	-	-	205	0	-	-	6,140	8.0
E-28	do	220	do	do	-	-	-	-	-	331	-	2,050	-	-	-	-	215	0	-	-	7,290	7.9
E-29	do	337	do	do	-	-	-	-	-	370	-	2,130	-	-	-	-	375	68	-	-	7,190	7.6
E-32	Fred W. Hudson	350	Aug. 29, 1956	do	-	-	-	-	-	235	-	2,300	-	-	-	-	1,160	967	-	-	8,280	8.0
E-36	R. E. Schiefelbein	160	July 5, 1950	do	85	-	13	17	912	318	425	980	-	1.2	-	2,590	102	0	-	-	4,360	8.4
E-37	Mrs. J. T. Nations	235	Oct. 4, 1957	do	-	-	-	-	-	501	-	925	-	-	-	-	70	0	-	-	4,000	7.9
F-3	Mrs. O. A. Goebel	250	Sept. 1956	Oakville sandstone	-	-	-	-	-	372	-	175	-	-	-	-	54	0	-	-	1,460	7.6
F-3	do	250	Jan. 16, 1957	do	-	-	-	-	-	357	-	118	-	-	-	-	64	0	-	-	1,280	7.6
F-3	do	250	Apr. 5, 1957	do	20	-	11	3.7	282 7.2	356	160	148	2.5	.0	1.2	811	42	0	92	19	1,330	7.6
F-9	George Maguglin	55	Jan. 18, 1957	Lagarto clay	-	-	-	-	-	321	-	620	-	-	-	-	525	262	-	-	2,780	8.2

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) a/	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
F-10	George Maguglin	84	Jan. 18, 1957	Lagarto clay	-	-	-	-	-	499	-	192	-	-	-	-	386	0	-	-	1,490	7.2
F-11	do	55	do	do	-	-	-	-	-	265	-	640	-	-	-	-	680	463	-	-	2,560	7.3
F-15	O. A. Goebel	112	Aug. 4, 1934	do	-	-	-	-	-	212	-	870	-	-	-	-	b/945	-	-	-	-	-
F-15	do	112	Sept. 1936	do	-	-	-	-	-	311	-	370	-	-	-	-	1,120	838	-	-	4,730	7.7
F-16	Walter Goebel	270	Jan. 16, 1957	Oakville sandstone	-	-	-	-	-	573	-	500	-	-	-	-	51	0	-	-	2,350	7.7
F-17	do	240	do	do	-	-	-	-	-	494	-	338	-	-	-	-	84	0	-	-	1,970	7.6
F-18	do	160	do	do	-	-	-	-	-	374	-	920	-	-	-	-	615	308	-	-	4,240	7.2
F-20	Harry Hinton	121	Oct. 6, 1911	do	-	0.2	28	12	487	220	9	544	-	-	-	1,410	119	0	-	-	-	-
F-20	do	121	July 30, 1934	do	-	-	-	-	-	464	-	580	-	-	-	-	b/141	0	-	-	-	-
F-21	G. C. Gillett	114	Jan. 18, 1957	Lagarto clay	-	-	-	-	-	249	-	660	-	-	-	-	1,380	1,180	-	-	4,030	7.8
F-22	George Maguglin	125	Jan. 14, 1957	do	-	-	-	-	-	252	-	640	-	-	-	-	705	498	-	-	2,550	7.8
F-23	do	80	do	do	-	-	-	-	-	303	-	322	-	-	-	-	248	0	-	-	1,640	7.8
F-24	do	55	Jan. 18, 1957	do	-	-	-	-	-	382	-	342	-	-	-	-	356	43	-	-	1,940	7.2
F-25	A. G. Morgan	85	Feb. 13, 1957	do	-	-	-	-	-	386	-	480	-	-	-	-	695	378	-	-	2,600	7.4
F-26	do	219	Feb. 12, 1957	do	-	-	-	-	-	422	-	258	-	-	-	-	80	0	-	-	1,440	7.8
F-27	Nannie Dunn	116	Feb. 11, 1957	do	-	-	-	-	-	234	-	700	-	-	-	-	670	478	-	-	2,740	7.8
F-28	J. C. Dunn	155	Aug. 7, 1934	do	-	-	-	-	-	280	-	535	-	-	-	-	b/477	-	-	-	-	-

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth	Date of	Water-	Silica	Iron	Cal-	Magne-	Sodium	Bicar-	Sul-	Chlo-	Fluo-	Ni-	Boron	Dis-	Hardness as CaCO	Per-	Sodium	Specific	
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Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) a/	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
F-28	J. C. Dunn	155	Feb. 11, 1957	Lagarto clay	-	-	-	-	-	295	-	700	-	-	-	-	655	413	-	-	3,280	8.1
F-29	do	91	do	do	-	-	-	-	-	345	-	840	-	-	-	-	705	422	-	-	3,570	7.3
F-30	H. P. Gillett	136	Jan. 24, 1957	do	-	-	-	-	-	158	-	680	-	-	-	-	525	396	-	-	2,540	7.7
F-31	C. Edwards	149	Jan. 28, 1957	do	-	-	-	-	-	225	-	640	-	-	-	-	505	320	-	-	2,510	7.8
F-31	do	149	Apr. 5, 1957	do	46	-	148	32	313 9.2	237	94	640	0.5	0.2	0.55	1,400	500	306	57	6.1	2,540	7.4
F-32	Scott Bledsoe	150	Jan. 28, 1957	do	-	-	-	-	-	330	-	440	-	-	-	-	266	0	-	-	2,080	8.2
F-33	Gus Dunn	137	do	do	-	-	-	-	-	279	-	350	-	-	-	-	231	2	-	-	1,660	8.0
F-35	Milton Dunn	110	Feb. 11, 1957	do	-	-	-	-	-	275	-	540	-	-	-	-	570	344	-	-	2,470	7.2
F-38	Webb Allan	187	Aug. 28, 1956	do	-	-	-	-	-	248	-	588	-	-	-	-	485	282	-	-	2,290	8.2
F-39	Dan Goynes, Jr.	88	Aug. 7, 1934	do	-	-	-	-	-	272	-	385	-	-	-	-	b/480	-	-	-	-	-
F-40	A. E. Johnson	189	Feb. 15, 1957	do	-	-	-	-	-	341	-	232	-	-	-	-	388	108	-	-	1,450	7.8
F-42	J. W. Ryan	65	Aug. 18, 1934	do	-	-	-	-	-	246	-	835	-	-	-	-	1,050 b/	-	-	-	-	-
F-43	W. H. Rosebrock	83	July 30, 1934	do	-	-	-	-	-	270	-	52	-	-	-	-	b/261	-	-	-	-	-
F-43	do	83	Aug. 16, 1940	do	-	-	82	8.6	57	206	105	59	0.5	0.0	-	435	340	71	-	-	-	-
F-47	J. L. Scogin	56	Aug. 21, 1934	do	-	-	-	-	-	316	-	100	-	-	-	-	b/285	-	-	-	-	-
F-50	R. E. Lane	58	Feb. 13, 1957	do	-	-	-	-	-	334	-	105	-	-	-	-	385	112	-	-	1,000	7.2
F-51	Jerome Troell	50	do	do	-	-	-	-	-	354	-	240	-	-	-	-	462	172	-	-	1,720	7.9

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) g/l	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
																	Total	Non-carbonate					
F-52	Daniel Pawlica	82	Aug. 18, 1934	Lagarto clay	-	-	-	-	-	286	-	730	-	-	-	-	1,370 b/	-	-	-	-	-	
F-53	Leonard Smith	108	Feb. 13, 1957	do	-	-	-	-	-	328	-	860	-	-	-	-	810	541	-	-	3,650	7.9	
F-54	do	347	do	Oakville sandstone	-	-	-	-	-	610	-	820	-	-	-	-	76	0	-	-	3,350	8.1	
F-55	E. F. Colle	105	do	Lagarto clay	-	-	-	-	-	398	-	1,070	-	-	-	-	1,320	994	-	-	5,420	7.6	
F-56	Leonard Smith	90	Feb. 21, 1957	do	-	-	-	-	-	333	-	700	-	-	-	-	580	307	-	-	3,490	8.0	
F-58	J. A. Hines	131	July 31, 1934	do	-	-	-	-	-	544	-	1,100	-	-	-	-	b/156	-	-	-	-	-	
F-60	Bob Reagan	80	Feb. 1, 1957	Oakville sandstone	-	-	-	-	-	265	-	153	-	-	-	-	396	179	-	-	1,090	7.4	
F-67	W. G. Engleman	210	Oct. 8, 1957	Catahoula tuff	-	-	-	-	-	409	-	4,830	-	-	-	-	797	462	-	-	14,100	7.7	
F-69	Lela E. Wilson	284	Sept. 27, 1956	do	-	-	-	-	-	385	-	4,000	-	-	-	-	475	70	-	-	12,100	7.4	
F-76	Goliad Corp.	262	Aug. 14, 1956	Oakville sandstone	-	-	-	-	-	259	-	133	-	-	-	-	254	42	-	-	933	7.4	
F-77*	do	262	Aug. 9, 1956	do	48	0.08	166	16	101	7.4	242	41	318	0.3	7.7	0.40	825	480	282	31	2.0	1,510	7.4
F-78	do	260																					
F-81	K. W. Schreiner	110	Feb. 17, 1928	do	46	.31	106	6.8	48	3.5	300	21	71	-	30	-	490	293	46	-	-	-	
F-81	do	110	Apr. 24, 1957	do	41	-	94	3.0	63	268	22	89	-	19	.37	490	247	28	36	1.7	779	7.4	
F-82	do	110	Aug. 2, 1934	do	-	-	-	-	-	304	-	89	-	-	-	-	b/288	-	-	-	-	-	

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth	Date of	Water-	Silica	Iron	Cal-	Magne-	Sodium	Bicar-	Sul-	Chlo-	Fluo-	Ni-	Boron	Dis-	Hardness as CaCO ₃		Per-	Sodium	Specific	pH
																	Total	Non-	cent	adsorp-	conduct-	
																		carbonate	so-	tion	ance	
																			dium	ratio	(micromhos	
																				(SAR)	at 25°C)	

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) ^a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
F-82	K. W. Schreiner	110	Apr. 24, 1957	Oakville sandstone	-	-	-	-	-	347	-	120	-	-	-	-	341	56	-	-	1,000	7.2
F-84	Albert West Estate	400	Oct. 8, 1957	do	45	-	64	12	304	282	55	420	-	2.0	1.0	1,060	209	0	76	9.1	1,890	7.6
F-86	do	45	do	Lagarto clay	-	-	-	-	-	291	-	365	-	-	-	-	324	86	-	-	1,710	7.9
F-87	T. A. Witt	221	Aug. 15, 1956	Oakville sandstone	48	-	70	14	247 15	259	56	355	-	5.9	0.69	939	232	20	68	7.1	1,660	7.6
F-88	Albert West Estate	120	Oct. 8, 1957	Lagarto clay	-	-	-	-	-	232	-	442	-	-	-	-	614	424	-	-	1,830	7.7
G-1	C. Lippard	151	Aug. 21, 1934	do	-	-	-	-	-	256	-	378	-	-	-	-	b/459	-	-	-	-	-
G-4	J. Garner	110	Feb. 12, 1957	do	-	-	-	-	-	326	-	352	-	-	-	-	496	229	-	-	1,830	7.2
G-5	S. R. Knight	201	do	do	-	-	-	-	-	351	-	600	-	-	-	-	770	482	-	-	2,590	7.2
G-6	do	160	do	do	-	-	-	-	-	289	-	285	-	-	-	-	274	37	-	-	1,420	7.7
G-8	H. P. Gillett	138	Jan. 24, 1957	do	-	-	-	-	-	324	-	930	-	-	-	-	575	310	-	-	4,090	7.9
G-9	L. A. Prouse	130	Feb. 12, 1957	do	-	-	-	-	-	240	-	1,240	-	-	-	-	1,180	984	-	-	4,260	7.8
G-10	do	218	do	do	-	-	-	-	-	300	-	335	-	-	-	-	278	32	-	-	1,670	8.0
G-11	B. K. Tindol	117	do	do	-	-	-	-	-	357	-	850	-	-	-	-	1,040	748	-	-	3,330	7.9
G-13	G. C. Gillett	117	Jan. 18, 1957	do	-	-	-	-	-	275	-	1,510	-	-	-	-	1,710	1,480	-	-	5,140	7.7
G-14	R. E. Sallee	235	Sept. 19, 1956	do	-	-	-	-	-	-	-	1,040	-	-	-	-	1,300	-	-	-	3,930	-
G-16	J. A. McNeill	60	Oct. 8, 1957	Rocks of goliad and younger age	-	-	-	-	-	304	-	328	-	-	-	-	442	193	-	-	1,680	7.9

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
																	Total	Non-carbonate					
G-18	Strohman Harris	133	Sept. 19, 1956	Lagarto clay	-	-	-	-	-	172	-	1,590	-	-	-	-	1,680	1,540	-	-	5,300	7.3	
G-19	Mrs. J. F. Goodwin	180	Aug. 28, 1956	do	-	-	-	-	-	276	-	660	-	-	-	-	790	564	-	-	2,670	7.7	
G-21	do	160	Aug. 6, 1934	do	-	-	-	-	-	324	-	438	-	-	-	-	b/622	-	-	-	-	-	
G-21	do	160	Aug. 16, 1940	do	-	-	172	47	180	336	115	435	0.4	6.0	-	1,260	623	347	-	-	-	-	
G-21	do	16	Aug. 28, 1956	do	-	-	-	-	-	338	-	425	-	-	-	-	665	388	-	-	2,050	7.9	
G-22	do	160	do	do	-	-	-	-	-	303	-	402	-	-	-	-	610	362	-	-	1,950	7.2	
G-24	do	170	do	do	-	-	-	-	-	280	-	628	-	-	-	-	785	556	-	-	2,570	7.1	
G-26	Louis Schmidt	610	Sept. 27, 1956	do	70	-	124	25	126 6.1	283	68	275	.8	8.2	0.51	843	412	180	39	2.7	1,450	7.2	
H-5	Jack Moss	300	Oct. 10, 1957	Catahoula tuff	77	-	57	7.7	586	-	552	246	500	-	16	4.3	1,870	174	0	88	19	2,930	7.9
H-6	W. W. Harris	271	Jan. 23, 1957	do	-	-	-	-	-	423	-	880	-	-	-	-	305	0	-	-	4,030	8.4	
H-10	Magnolia Petroleum Co.	410	Aug. 29, 1956	do	-	-	-	-	-	-	-	560	-	-	-	-	1,520	-	-	-	5,320	-	
H-15	Lucio Chapa	250	July 17, 1956	Oakville sandstone	-	-	-	-	-	301	-	400	-	-	-	-	312	66	-	-	1,830	8.4	
H-16	Gus Houdmann	287	Aug. 9, 1956	do	-	-	-	-	-	231	-	715	-	-	-	-	675	486	-	-	2,750	7.9	
H-18	do	385	July 18, 1956	do	46	0.00	216	47	350 20	95	49	990	-	.5	.80	1,770	732	654	50	5.6	3,350	7.2	
H-20	Emil Richter	150	July 17, 1956	Lagarto clay	-	-	-	-	-	210	-	880	-	-	-	-	945	673	-	-	3,300	7.2	
H-25	Gus Houdmann	300	July 25, 1956	Oakville sandstone	-	-	-	-	-	204	-	712	-	-	-	-	865	698	-	-	2,750	7.8	
H-26	Esidor Brysch	180	July 17, 1956	Lagarto clay	-	-	-	-	-	243	-	545	-	-	-	-	619	420	-	-	2,230	8.1	

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
H-27	B. C. Bodden	290	July 25, 1956	Oakville sandstone	-	-	-	-	-	226	-	580	-	-	-	-	551	366	-	-	2,240	7.5
H-28	Esidor Brysch	145	July 17, 1956	Lagarto clay	-	-	-	-	-	283	-	462	-	-	-	-	597	365	-	-	2,020	8.2
H-30	Sedan Breiton	160	July 24, 1956	do	-	-	-	-	-	280	-	660	-	-	-	-	1,060	830	-	-	3,240	8.0
H-33	Charles H. Burns	240	Oct. 17, 1957	do	-	-	-	-	-	323	-	400	-	-	-	-	1,340	1,080	-	-	3,100	7.1
H-34	do	240	Apr. 16, 1957	do	-	-	-	-	-	386	-	136	-	-	-	-	144	0	-	-	1,180	7.7
H-36	do	330	do	do	34	-	29	10	206 6.4	366	72	138	-	4.8	0.65	681	114	0	79	8.4	1,130	7.6
H-37	do	260	do	do	-	-	-	-	-	284	-	1,400	-	-	-	-	1,110	878	-	-	4,800	7.2
H-44	J. W. Halley	140	Aug. 16, 1934	do	-	-	-	-	-	418	-	145	-	-	-	-	b/102	-	-	-	-	-
H-44	do	140	Aug. 16, 1940	do	-	0.34	31	11	218	396	64	145	0.3	.0	-	690	123	0	-	-	-	-
H-45	Mrs. J. W. Halley	180	do	do	-	.86	38	13	226	428	20	189	-	2.0	-	706	148	0	-	-	-	-
H-46	do	198	July 24, 1956	do	-	-	-	-	-	415	-	191	-	-	-	-	145	0	-	-	1,270	8.3
H-47	J. R. Lyne	50	July 18, 1956	do	-	-	-	-	-	400	-	80	-	-	-	-	343	15	-	-	914	7.8
H-48	do	50?	Sept. 26, 1956	do	-	-	-	-	-	36	-	5,150	-	-	-	-	2,580	2,550	-	-	14,400	7.2
H-51	J. R. Dougherty Estate	240	Sept. 25, 1956	Oakville sandstone	-	-	-	-	-	388	-	870	-	-	-	-	330	12	-	-	3,530	7.7
H-52	do	347	do	do	-	-	-	-	-	152	-	1,450	-	-	-	-	1,280	1,155	-	-	4,750	7.1
H-54	J. R. Lyne	160	Sept. 26, 1956	Lagarto clay	-	-	-	-	-	57	-	3,980	-	-	-	-	4,080	4,030	-	-	11,200	7.1
H-57	M. O. Dolan	260	Mar. 15, 1957	do	-	-	-	-	-	341	-	330	-	-	-	-	256	0	-	-	1,540	7.2

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) a/	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
H-59	Tom Iley	354	Apr. 26, 1957	Oakville sandstone	-	-	-	-	-	358	-	117	-	-	-	-	53	0	-	-	878	8.2
H-61	do	153	do	Lagarto clay	-	-	-	-	-	200	-	1,270	-	-	-	-	1,520	1,360	-	-	4,350	7.1
H-62	do	280	do	do	-	-	-	-	-	339	-	115	-	-	-	-	53	0	-	-	852	7.6
H-65	J. R. Dougherty Estate	220	Sept. 25, 1956	do	-	-	-	-	-	195	-	1,130	-	-	-	-	1,300	1,140	-	-	4,030	7.6
H-66	do	99	do	do	-	-	-	-	-	180	-	1,180	-	-	-	-	1,260	1,060	-	-	3,860	7.6
H-69	do	-	do	do	-	-	-	-	-	317	-	76	-	-	-	-	101	0	-	-	795	7.9
H-70	do	292	do	Oakville sandstone	-	-	-	-	-	233	-	442	-	-	-	-	590	399	-	-	1,980	7.4
H-71	do	240	do	do	-	-	-	-	-	206	-	870	-	-	-	-	960	791	-	-	3,170	7.6
J-2	Esidor Brysch	160	July 17, 1956	Lagarto clay	-	-	-	-	-	0	-	960	-	-	-	-	960	960	-	-	3,200	4.6
J-3	Buck West	190	July 26, 1956	do	-	-	-	-	-	122	-	542	-	-	-	-	275	175	-	-	2,100	7.9
J-4	S. C. Morris	180	Aug. 19, 1934	do	-	-	-	-	-	352	-	158	-	-	-	-	b/153	-	-	-	-	-
J-4	do	180	Aug. 16, 1940	do	-	-	46	11	201	340	75	168	0.5	2.0	-	701	160	0	-	-	-	-
J-5	J. Harvell	180	July 19, 1956	do	-	-	-	-	-	185	-	678	-	-	-	-	250	98	-	-	2,580	8.3
J-7	Buck West	400	July 26, 1956	Oakville sandstone	-	-	-	-	-	257	-	640	-	-	-	-	558	348	-	-	2,530	7.7
J-8	do	300	do	Lagarto clay	-	-	-	-	-	354	-	95	-	-	-	-	185	0	-	-	899	7.5
J-9	C. C. Schley	490	Sept. 28, 1951	Oakville sandstone & Lagarto clay, undifferentiated	25	-	42	16	310	252	7.4	462	-	.0	0.80	1,040	171	0	-	-	1,870	8.1

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth	Date of collection	Water-bearing unit	Silica	Iron	Calcium	Magnesium	Sodium and potassium	Bicarbonate	Sulfate	Chloride	Fluoride	Nitrate	Boron	Dissolved solids	Hardness as CaCO ₃	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
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Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) ^a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
J-10	Katzfey Bros.	440	July 19, 1956	Oakville sandstone & Lagarto clay, undifferentiated	-	-	-	-	-	367	-	248	-	-	-	-	191	0	-	-	1,570	8.1
J-12	Buck West	135	July 26, 1956	Lagarto clay	-	-	-	-	-	315	-	358	-	-	-	-	378	120	-	-	1,760	7.8
J-13	City of George West	537	July 19, 1956	Oakville sandstone	33	0.02	56	17	381 14	351	347	285	1.2	0.0	1.6	1,310	210	0	78	11	2,090	7.7
J-14	do	500	Aug. 28, 1934	do	-	-	-	-	-	362	-	258	-	-	-	-	b/234	-	-	-	-	-
J-14	do	500	Aug. 16, 1940	do	-	-	69	20	349	356	326	268	.9	.0	-	1,220	254	0	75	9.5	-	-
J-14	do	500	Apr. 19, 1945	do	30	.56	74	20	333	343	316	267	1.4	0	-	1,230	266	0	73	8.9	1,930	7.4
J-14	do	500	July 19, 1956	do	34	.16	61	18	366 14	361	316	285	1.2	.0	1.2	1,270	226	0	77	11	2,060	8.1
J-15	C. W. Kendall	280	do	Lagarto clay	-	-	-	-	-	251	-	478	-	-	-	-	512	306	-	-	2,060	7.9
J-16	Harold Anderson	95	Aug. 23, 1956	do	-	-	-	-	-	338	-	422	-	-	-	-	495	218	-	-	1,950	8.4
J-17	Perkins & West	140	Aug. 7, 1956	do	-	-	-	-	-	362	-	70	-	-	-	-	211	0	-	-	846	8.0
J-18	do	187	do	do	-	-	-	-	-	304	-	432	-	-	-	-	292	43	-	-	2,010	7.9
J-19	do	300	do	do	33	.04	43	13	202 8.1	321	28	217	1.2	.0	.73	704	162	0	72	69	1,230	7.8
J-20	Tom Gregorcyk	51	Aug. 2, 1934	do	-	-	-	-	-	452	-	700	-	-	-	-	b/ 96	-	-	-	-	-
J-23	Rorick Cravens	90	Feb. 26, 1957	do	-	-	-	-	-	336	-	532	-	-	-	-	106	0	-	-	2,280	8.0
J-24	do	90	do	do	-	-	-	-	-	414	-	500	-	-	-	-	100	0	-	-	2,210	7.8

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
J-26	Rorick Cravens	90	Feb. 26, 1957	Lagarto clay	-	-	-	-	-	399	-	550	-	-	-	-	77	0	-	-	2,400	8.0
J-27	do	259	do	do	-	-	-	-	-	249	-	1,120	-	-	-	-	440	236	-	-	4,100	7.7
J-29	C. L. Gerhardt	110	Mar. 16, 1957	do	-	-	-	-	-	323	-	217	-	-	-	-	272	8	-	-	1,260	7.3
J-31	F. B. Frerich	60	Aug. 20, 1934	do	-	-	-	-	-	312	-	610	-	-	-	-	b/645	-	-	-	-	-
J-32	do	54	Aug. 14, 1934	do	-	-	-	-	-	328	-	740	-	-	-	-	b/720	-	-	-	-	-
J-32	do	54	Feb. 27, 1957	do	-	-	-	-	-	328	-	184	-	-	-	-	266	0	-	-	1,160	7.7
J-36	Perkins & West	142	Aug. 7, 1956	do	-	-	-	-	-	371	-	388	-	-	-	-	227	0	-	-	2,360	8.2
J-37	do	170	do	do	-	-	-	-	-	324	-	440	-	-	-	-	176	0	-	-	2,330	8.4
J-39	do	80	Aug. 9, 1934	do	-	-	-	-	-	358	-	222	-	-	-	-	b/167	-	-	-	-	-
J-39	do	80	Aug. 7, 1956	do	-	-	-	-	-	350	-	238	-	-	-	-	176	0	-	-	1,760	8.3
J-40	Buck West	150	July 26, 1956	do	-	-	-	-	-	372	-	156	-	-	-	-	150	0	-	-	1,120	8.1
J-41	do	188	do	do	-	-	-	-	-	363	-	212	-	-	-	-	139	0	-	-	1,220	7.7
J-42	do	500	July 19, 1956	Lagarto clay & Oakville sandstone undifferentiated	-	-	-	-	-	272	-	210	-	-	-	-	131	0	-	-	1,560	8.4
J-44	do	500	do	Oakville sandstone	-	-	-	-	-	322	-	145	-	-	-	-	103	0	-	-	1,120	8.4
J-47	do	150	July 26, 1956	Lagarto clay	-	-	-	-	-	330	-	385	-	-	-	-	192	0	-	-	1,710	7.9

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of	Date of collec-	Water-bearing	Silica (SiO ₂)	Iron (Fe)	Calcium	Magnesium	Sodium and	Bicarbonate	Sulfate	Chloride	Fluoride	Nitrate	Boron (B)	Dissolved	Hardness as CaCO ₃		Percent	Sodium adsorp-	Specific conduct-	pH
																	Total	Non-				

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) a/	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
J-48	C. H. Burns	900	Oct. 18, 1957	Oakville sandstone	32	-	51	11	252	267	112	268	-	2.5	1.1	889	172	0	76	8.4	1,520	7.6
J-49	Buck West	2007	July 26, 1956	Lagarto clay	-	-	-	-	-	289	-	315	-	-	-	-	292	55	-	-	1,750	7.8
J-51	S. & M. West	160	July 24, 1956	do	-	-	-	-	-	263	-	588	-	-	-	-	436	220	-	-	2,420	7.5
J-52	Jim Pugh	240	Aug. 9, 1934	do	-	-	-	-	-	272	-	295	-	-	-	-	b/225	-	-	-	-	-
J-52	do	240	July 24, 1956	do	-	-	-	-	-	269	-	278	-	-	-	-	232	12	-	-	1,590	8.0
J-53	E. B. Baker	130	Feb. 27, 1957	Lagarto clay & rocks of Goliad and younger age, undifferentiated	-	-	-	-	-	266	-	412	-	-	-	-	474	256	-	-	1,800	8.3
J-64	A. Kubala	155	Aug. 10, 1934	Lagarto clay	-	-	-	-	-	222	-	815	-	-	-	-	1,020 b/	-	-	-	-	-
J-66	Margaret Grover Estate	200	Aug. 8, 1956	do	-	-	-	-	-	315	-	202	-	-	-	-	168	0	-	-	1,220	8.3
J-68	Hall Bros.	250	Aug. 19, 1934	Rocks of Goliad and younger age	-	-	-	-	-	336	-	312	-	-	-	-	b/273	-	-	-	-	-
J-68	do	250	Aug. 16, 1940	do	-	-	69	23	231	322	50	320	1.0	-	-	912	267	2	-	-	-	-
J-69	Edward Holland	236	Aug. 20, 1934	Lagarto clay	-	-	-	-	-	258	-	990	-	-	-	-	b/728	-	-	-	-	-
J-69	do	236	Aug. 7, 1956	do	-	-	-	-	-	238	-	1,000	-	-	-	-	720	525	-	-	3,580	8.0

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
J-72	W. M. Crocker	170	Aug. 14, 1956	Rocks of Goliad and younger age	-	-	-	-	-	251	-	770	-	-	-	-	945	739	-	-	3,040	7.4
K-1	Mrs. J. F. Goodwin	80	Aug. 28, 1956	Lagarto clay	-	-	-	-	-	263	-	270	-	-	-	-	442	226	-	-	1,380	7.8
K-3	J. I. Hailey	200	Apr. 19, 1957	do	-	-	-	-	-	296	-	662	-	-	-	-	760	518	-	-	2,690	7.2
K-4	do	269	do	do	39	-	158	37	268 9.2	246	58	632	-	2.5	0.41	1,330	546	344	51	50	2,410	7.1
K-5	do	200	do	do	-	-	-	-	-	233	-	700	-	-	-	-	700	509	-	-	2,820	7.9
K-6	do	75	Apr. 18, 1957	do	-	-	-	-	-	300	-	380	-	-	-	-	472	226	-	-	1,780	7.5
K-7	do	75	do	do	-	-	-	-	-	174	-	780	-	-	-	-	570	428	-	-	2,860	7.5
K-8	do	85	do	do	-	-	-	-	-	232	-	147	-	-	-	-	267	77	-	-	871	8.0
K-10	do	70	do	do	-	-	-	-	-	303	-	275	-	-	-	-	420	172	-	-	1,490	8.0
K-11	do	85	do	Lagarto clay & rocks of Goliad and younger age, undifferentiated	-	-	-	-	-	301	-	302	-	-	-	-	450	204	-	-	1,640	7.5
K-14	do	110	do	do	-	-	-	-	-	295	-	201	-	-	-	-	326	84	-	-	1,220	7.6
K-15	do	-	do	do	-	-	-	-	-	246	-	48	-	-	-	-	194	0	-	-	545	7.9
K-17	do	400	do	do	-	-	-	-	-	274	-	302	-	-	-	-	260	36	-	-	1,430	7.8
K-18	Merle West	110	Sept. 18, 1956	Rocks of Goliad and younger age	-	-	-	-	-	298	-	25	-	-	-	-	103	0	-	-	602	7.8
K-19	do	95	do	do	-	-	-	-	-	481	-	41	-	-	-	-	210	0	-	-	933	8.1

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth	Date of	Water-	Silica	Iron	Cal-	Magne-	Sodium	Bicar	Sul-	Chlo-	Fluo-	Ni-	Boron	Dis-	Hardness as CaCO	Per	Sodium	Specific	
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Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) a/	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent adsorption ratio (SAR)	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
																	Total	Non-carbonate					
K-20	Merle West	210	Sept. 18, 1956	Rocks of Goliad and younger age	-	-	-	-	-	-	-	385	-	-	-	-	605	-	-	-	1,800	-	
K-21	do	400	do	do	-	-	-	-	-	267	-	592	-	-	-	-	805	586	-	-	2,450	8.2	
K-23	do	141	do	do	-	-	-	-	-	192	-	412	-	-	-	-	495	338	-	-	1,870	7.9	
K-24	do	150	do	do	-	-	-	-	-	374	-	157	-	-	-	-	270	0	-	-	1,180	8.1	
K-28	G. B. Matheson	120	Oct. 10, 1957	do	-	-	-	-	-	276	-	510	-	-	-	-	655	429	-	-	2,200	7.8	
K-29	J. N. Jones	1407	do	do	-	-	-	-	-	336	-	172	-	-	-	-	282	6	-	-	1,160	7.7	
K-30	Walter H. Range	400	Aug. 14, 1956	do	-	-	-	-	-	500	-	270	-	-	-	-	502	92	-	-	1,810	7.9	
K-31	do	215	do	do	-	-	-	-	-	247	-	548	-	-	-	-	830	628	-	-	2,300	7.3	
K-32	J. I. Hailey	400	Apr. 18, 1957	do	30	-	30	9.1	260	5.1	314	36	285	0.5	0.2	0.61	81	112	0	83	11	1,430	7.6
K-33	Walter H. Range	150	Aug. 14, 1956	do	-	-	-	-	-	301	-	1,220	-	-	-	-	1,160	950	-	-	4,510	7.5	
K-34	J. I. Hailey	100	Apr. 18, 1957	do	-	-	-	-	-	298	-	480	-	-	-	-	690	446	-	-	2,380	7.5	
K-36	do	400	do	do	-	-	-	-	-	404	-	440	-	-	-	-	67	0	-	-	2,000	8.1	
K-37	do	100	do	do	-	-	-	-	-	249	-	640	-	-	-	-	890	686	-	-	2,500	7.5	
K-49	J. R. McGuffin	75	Aug. 21, 1934	do	-	-	-	-	-	258	-	375	-	-	-	-	b/525	-	-	-	-	-	
K-49	do	75	Aug. 16, 1940	do	-	0.73	148	40	150	276	86	385	0.7	-	-	1,050	534	308	-	-	-	-	
K-53	Ross Boothe	170	Aug. 8, 1934	do	-	-	-	-	-	198	-	780	-	-	-	-	1,206	-	-	-	-	-	
K-55	J. A. McCumber	126	Aug. 29, 1956	do	-	-	-	-	-	-	-	505	-	-	-	-	780	-	-	-	2,210	-	
K-73	Hall Bros.	121	Aug. 8, 1934	do	-	-	-	-	-	262	-	440	-	-	-	-	b/585	-	-	-	-	-	

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
K-76	Holman Cartwright	220	Sept. 20, 1951	Rocks of Goliad and younger age	20	-	21	9.1	484	292	2.3	638	-	0.5	-	1,320	90	0	-	-	2,530	8.4
K-76	do	220	Nov. 7, 1957	do	-	-	-	-	-	290	-	780	-	-	-	-	132	0	-	-	2,820	8.0
K-77	do	100	Sept. 17, 1956	do	-	-	-	-	-	-	-	312	-	-	-	-	290	-	-	-	1,430	-
K-78	do	125	Sept. 20, 1951	do	-	-	-	-	-	264	100	352	-	-	-	-	380	164	-	-	1,650	8.2
K-79	do	159	Sept. 27, 1956	do	-	-	-	-	-	250	-	365	-	-	-	-	485	280	-	-	1,660	7.7
K-82	do	104	do	do	-	-	-	-	-	348	-	298	-	-	-	-	410	125	-	-	1,660	7.5
K-84	do	800	Sept. 20, 1951	Lagarto clay & rocks of Goliad and younger age, undifferentiated	24	-	18	5.6	637	168	131	835	-	.8	-	1,730	68	0	95	34	3,190	8.2
K-85	Houston pipeline Co.	600	Sept. 20, 1951	Rocks of Goliad and younger age	26	-	13	10	313	318	88	285	-	0.5	-	892	74	0	90	16	1,650	8.4
K-86	Holman Cartwright	75	do	do	-	-	-	-	-	182	140	710	-	-	-	-	555	407	-	-	2,940	8.1
K-88	do	20	do	do	-	-	-	-	-	148	400	1,770	-	-	-	-	945	825	-	-	6,260	8.1
K-88	do	20	Nov. 19, 1957	do	-	-	-	-	-	216	-	2,010	-	-	-	-	720	543	-	-	6,670	8.1
K-89	do	40	Sept. 20, 1951	do	-	-	-	-	-	270	0.0	106	-	-	-	-	172	0	-	-	960	8.1
K-89	do	40	Sept. 17, 1956	do	-	-	-	-	-	-	-	145	-	-	-	-	345	-	-	-	1,260	-

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of	Date of collec-	Water-bearing	Silica (SiO ₂)	Iron (Fe)	Calcium	Magnesium	Sodium and	Bicarbonate	Sulfate	Chloride	Fluoride	Nitrate	Boron	Dissolved	Hardness as CaCO ₃		Per-	Sodium	Specific	
		of	tion	unit					and							solids	Total	Non-carbonate	cent sodium	adsorption ratio (SAR)	conductance	

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _{a/3}	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
																	Total	Non-carbonate					
K-90	Holman Cartwright	425	Sept. 20, 1951	Rocks of Goliad and younger age	51	-	20	15	153	175	28	190	-	5.8	-	549	112	0	75	6.3	966	8.2	
K-90	do	425	Nov. 8, 1957	do	18	-	15	6.0	293	4.5	448	15	220	-	1.5	1.5	812	62	0	90	16	1,390	8.1
K-91	do	245	Sept. 20, 1951	do	32	-	6.0	8.3	196	226	58	127	-	2.0	-	591	49	0	90	12	1,020	8.5	
K-91	do	245	Sept. 17, 1956	do	-	-	-	-	-	-	-	510	-	-	-	-	118	-	-	-	2,190	-	
K-92	do	84	Sept. 27, 1956	do	-	-	-	-	-	317	-	285	-	-	-	-	355	95	-	-	1,540	7.5	
K-96	Henshaw Bros.	125	Aug. 8, 1934	do	-	-	-	-	-	352	-	210	-	-	-	-	b/153	-	-	-	-	-	
K-96	do	125	Apr. 22, 1957	do	-	-	-	-	-	293	-	230	-	-	-	-	159	0	-	-	1,380	8.2	
K-98	J. Curlee	160	Aug. 4, 1934	do	-	-	-	-	-	328	-	134	-	-	-	-	b/218	-	-	-	-	-	
K-98	do	160	Aug. 16, 1940	do	-	-	73	16	113	330	31	130	1.2	6.2	-	596	248	0	-	-	-	-	
K-98	do	160	Mar. 1, 1957	do	-	-	-	-	-	315	-	300	-	-	-	-	402	144	-	-	1,500	8.0	
K-102	H. F. Meyers	128	do	do	-	-	-	-	-	187	-	1,800	-	-	-	-	1,690	1,540	-	-	5,830	7.9	
K-103	do	140	do	do	-	-	-	-	-	228	-	2,440	-	-	-	-	2,380	2,190	-	-	7,700	7.7	
K-104	L. T. Porter, Jr.	176	do	do	-	-	-	-	-	282	-	495	-	-	-	-	620	389	-	-	2,330	7.5	
K-105	do	470	do	do	-	-	-	-	126	-	308	-	106	-	-	-	184	0	60	4.0	908	7.8	
K-106	Jack Brown, Jr.	140	do	do	-	-	-	-	-	372	-	215	-	-	-	-	348	43	-	-	1,320	7.6	
K-107	H. F. Meyers	460	do	do	-	-	-	-	138	-	328	-	118	-	-	-	182	0	62	4.4	961	7.5	
K-108	A. L. McCraw	220	do	do	-	-	-	-	-	251	-	312	-	-	-	-	388	182	-	-	1,520	8.1	
K-109	Henshaw Bros.	270	Apr. 22, 1957	do	-	-	-	-	-	294	-	220	-	-	-	-	341	100	-	-	1,240	7.5	

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
K-111	Henshaw Bros	241	Apr. 22, 1957	Rocks of Goliad and younger age	-	-	-	-	-	368	-	107	-	-	-	-	99	0	-	-	958	7.6
K-116	M. M. Morris	200?	Aug. 7, 1934	do	-	-	-	-	-	312	-	270	-	-	-	-	b/393	-	-	-	-	-
K-116	do	200?	Oct. 10, 1957	do	-	-	-	-	-	282	-	278	-	-	-	-	714	483	-	-	1,850	7.6
K-120	H. H. Wallace	786	Oct. 11, 1957	Lagarto clay & rocks of Goliad and younger age, undifferentiated	-	-	-	-	-	368	-	450	-	-	-	-	13	0	-	-	2,010	8.7
L-1	J. R. Dougherty Estate	225	Sept. 25, 1956	Lagarto clay	-	-	-	-	-	276	-	522	-	-	-	-	495	269	-	-	2,220	7.9
L-6	Tom Iley	555	Apr. 24, 1957	Oakville sandstone	19	-	15	4.2	170	352	0.0	96	-	0.0	0.77	482	55	0	87	9.9	822	7.9
L-7	J. O. Hendrick	160	Aug. 3, 1934	Lagarto clay	-	-	-	-	-	192	-	930	-	-	-	-	b/698	-	-	-	-	-
L-7	do	160	Aug. 16, 1940	do	-	-	194	50	404	188	97	930	0.6	-	-	1,980	690	536	-	-	-	-
L-7	do	160	July 24, 1956	do	-	-	-	-	-	183	-	960	-	-	-	-	700	550	-	-	3,360	7.6
L-10	Tom Iley	615	Oct. 17, 1957	Oakville sandstone & Lagarto clay, undifferentiated	28	-	144	49	636	254	269	1,040	-	4.0	2.2	2,300	561	353	71	12	4,070	7.5
L-11	W. O. Allen	130	Sept. 12, 1956	Lagarto clay	-	-	-	-	-	197	-	1,040	-	-	-	-	580	420	-	-	3,550	7.9

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth	Date of	Water	Silica	Iron	Cal	Magn	Sod	Bic	Sulf	Chlor	Fluo	Nit	Boron	Diss	Hardness	Hardness	Percent	Sodium	Specific	pH
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Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) ^{a/3}	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
L-13	Ben Lyssy	312	July 24, 1956	Lagarto clay	-	-	-	-	-	151	-	1,060	-	-	-	-	560	435	-	-	3,750	7.4
L-19	T. W. Lemley	318	Oct. 4, 1957	do	-	-	-	-	-	265	-	372	-	-	-	-	178	0	-	-	1,820	7.4
L-20	W. Lemley	300	Feb. 14, 1928	do	26	0.14	40	11	243 5.1	302	107	227	-	6.3	-	815	145	0	-	-	-	-
L-20	do	300	Aug. 3, 1934	do	-	-	-	-	-	324	-	230	-	-	-	-	b/153	-	-	-	-	-
L-21	John Dunn	254	Aug. 16, 1940	do	-	-	50	14	426	192	154	560	.4	-	-	1,340	182	50	-	-	-	-
L-23	A. R. Lindblon	280	Sept. 12, 1956	do	-	-	-	-	-	256	-	760	-	-	-	-	760	540	-	-	2,960	7.9
L-24	do	200	do	do	-	-	-	-	-	227	-	748	-	-	-	-	890	705	-	-	2,820	7.8
L-26	J. R. Dougherty Estate	173	Sept. 25, 1956	do	-	-	-	-	-	179	-	800	-	-	-	-	750	600	-	-	2,940	7.7
L-29	do	80	do	do	-	-	-	-	-	321	-	138	-	-	-	-	270	7	-	-	1,020	7.9
L-34	Lee Moore	144	Aug. 19, 1934	do	-	-	-	-	-	244	-	600	-	-	-	-	b/810	-	-	-	-	-
L-35	Alfredo Garza	139	Oct. 4, 1957	do	-	-	-	-	-	238	-	690	-	-	-	-	770	575	-	-	2,700	7.9
L-36	Mrs. Jesus G. Anrica	180?	do	do	-	-	-	-	-	239	-	850	-	-	-	-	815	619	-	-	3,280	7.2
L-38	Ernest Chapa	140	do	Rocks of Goliad and younger age	-	-	-	-	-	157	-	890	-	-	-	-	830	702	-	-	3,250	7.6
L-40	E. H. Wilkinson	312	Aug. 16, 1956	Lagarto clay	-	-	-	-	-	78	-	810	-	-	-	-	255	46	-	-	3,120	7.6
L-41	Mrs. King Hinnant	193	Aug. 11, 1934	Rocks of Goliad and younger age	-	-	-	-	-	336	-	252	-	-	-	-	b/162	-	-	-	-	-

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
																	Total	Non-carbonate					
L-41	Mrs. King Hinnant	193	Aug. 16, 1940	Rocks of Goliad and younger age	-	-	46	13	241	326	48	260	0.8	8.4	-	778	168	0	-	-	-	-	
L-41	do	193	Sept. 12, 1956	do	-	-	-	-	-	328	-	262	-	-	-	-	160	29	-	-	1,420	7.9	
L-43	Oscar Kuntz	142	Oct. 4, 1957	do	-	-	-	-	-	374	-	200	-	-	-	-	144	0	-	-	1,330	7.9	
M-1	J. W. Patterson	109	July 25, 1956	do	-	-	-	-	-	287	-	1,280	-	-	-	-	960	725	-	-	4,330	8.1	
M-3	do	220	do	do	-	-	-	-	-	321	-	390	-	-	-	-	248	0	-	-	1,910	7.7	
M-4	do	203	do	do	-	-	-	-	-	383	-	310	-	-	-	-	222	0	-	-	1,870	7.4	
M-5	do	132	do	do	-	-	-	-	-	154	-	1,580	-	-	-	-	1,500	1,380	-	-	5,100	7.1	
M-6	do	118	do	do	-	-	-	-	-	242	-	1,310	-	-	-	-	1,160	960	-	-	4,630	7.9	
M-8	do	227	do	do	-	-	-	-	-	392	-	198	-	-	-	-	162	0	-	-	1,430	7.4	
M-9	Louis Rouch	405	July 18, 1956	Lagarto clay & rocks of Goliad and younger age, undifferentiated	7.0	0.00	8.6	12	338	11	407	137	232	-	2.8	1.0	949	71	0	90	17	1,650	8.8
M-10	do	86	do	Rocks of Goliad and younger age	-	-	-	-	-	324	-	165	-	-	-	-	364	98	-	-	1,150	8.1	
M-11	J. W. Matthews	180	Oct. 17, 1957	do	-	-	-	-	-	337	-	540	-	-	-	-	730	454	-	-	2,410	7.3	
M-12	W. D. Stevens	232	July 26, 1956	do	-	-	-	-	-	319	-	495	-	-	-	-	435	174	-	-	2,220	8.2	
M-18	Mike Davidson	290	Aug. 8, 1956	do	-	-	-	-	-	252	-	505	-	-	-	-	443	237	-	-	2,140	7.9	

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth	Date of	Water-	Silica	Iron	Cal-	Magne-	Sodium	Bicar-	Sul-	Chlo-	Fluo-	Ni-	Boron	Dis-	Hardness as CaCO ₃	Per-	SAR	Specific	pH
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Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) g/3	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
M-20	Mary Davidson	260	Aug. 8, 1956	Rocks of Goliad and younger age	-	-	-	-	-	278	-	390	-	-	-	-	308	80	-	-	1,740	7.8
M-22	Humble Oil & Refining Co.	337	Sept. 26, 1956	do	-	-	-	-	-	222	-	572	-	-	-	-	470	288	-	-	2,280	7.6
M-22	do	337	Oct. 17, 1957	do	-	-	-	-	-	237	-	490	-	-	-	-	640	446	-	-	2,640	7.7
M-23	do	317	Aug. 16, 1956	do	-	-	-	-	-	197	-	682	-	-	-	-	386	223	-	-	2,610	7.8
M-26	do	406	do	do	-	-	-	-	-	253	-	435	-	-	-	-	316	109	-	-	1,860	7.9
M-28	do	425	do	do	-	-	-	-	-	281	-	505	-	-	-	-	613	383	-	-	2,090	8.0
M-29	F. X. Dougherty	164	Aug. 7, 1956	do	-	-	-	-	-	358	-	89	-	-	-	-	194	0	-	-	903	8.3
M-30	William Hinnant	85	Aug. 15, 1956	do	-	-	-	-	-	365	-	175	-	-	-	-	262	0	-	-	1,210	7.4
M-32	do	120	do	do	-	-	-	-	-	320	-	352	-	-	-	-	444	182	-	-	1,770	8.0
M-35	Holman Cartwright	177	Sept. 27, 1956	do	-	-	-	-	-	300	-	258	-	-	-	-	385	139	-	-	1,360	7.7
M-40	William Hinnant	173	Aug. 15, 1956	do	-	-	-	-	-	287	-	94	-	-	-	-	235	0	-	-	883	7.8
M-41	Roy Hinnant	100	do	do	-	-	-	-	-	326	-	120	-	-	-	-	195	0	-	-	985	7.9
M-43	do	178	do	do	-	-	-	-	-	331	-	278	-	-	-	-	417	146	-	-	1,520	7.8
M-44	do	60	do	do	-	-	-	-	-	280	-	165	-	-	-	-	263	34	-	-	1,100	7.5
M-45	do	105	do	do	-	-	-	-	-	279	-	412	-	-	-	-	469	240	-	-	1,870	7.9
N-2	Holman Cartwright	80	Sept. 20, 1951	do	-	-	-	-	-	262	50	267	-	-	-	-	280	65	-	-	1,560	8.1
N-2	do	80	Sept. 24, 1956	do	-	-	-	-	-	347	-	205	-	-	-	-	265	0	-	-	1,280	7.7
N-3	do	468	Sept. 20, 1951	do	30	-	11	9.3	205	320	44	143	-	2.8	-	608	66	0	87	11	1,190	8.4

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) _a	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
N-3	Holman Cartwright	468	Nov. 7, 1957	Rocks of Goliad and younger age	24	-	33	11	186 6.5	366	49	129	2.0	4.5	1.1	626	128	0	75	7.2	1,060	7.7
N-4	do	472	Apr. 19, 1951	do	28	-	14	9.2	186	294	57	136	2.4	3.0	.76	582	73	0	85	9.5	1,100	8.1
N-7	Reeves Brown	200	Mar. 4, 1957	do	-	-	-	-	-	570	-	355	-	-	-	-	462	0	-	-	1,890	8.1
N-8	do	137	do	do	-	-	-	-	-	317	-	230	-	-	-	-	370	110	-	-	1,550	7.2
N-10	do	500	do	do	-	-	-	-	-	388	-	151	-	-	-	-	36	0	-	-	1,150	7.9
N-11	L. Porter	138	Mar. 1, 1957	do	-	-	-	-	-	376	-	158	-	-	-	-	240	0	-	-	1,130	7.7
N-12	G. V. Rouse	160	Mar. 4, 1957	do	-	-	-	-	-	324	-	220	-	-	-	-	334	68	-	-	1,410	7.2
N-13	do	110	do	do	-	-	-	-	-	368	-	140	-	-	-	-	38	0	-	-	989	8.6
N-14	Joe & Bera Hill	120	do	do	-	-	-	-	-	235	-	325	-	-	-	-	260	68	-	-	1,640	7.9
N-17	J. A. Stewart	105	Sept. 27, 1956	do	-	-	-	-	-	298	-	146	-	-	-	-	278	34	-	-	991	7.6
N-18	Holman Cartwright	93	do	do	-	-	-	-	-	310	-	97	-	-	-	-	234	0	-	-	824	7.6
N-19	J. A. Stewart	150	do	do	-	-	-	-	-	296	-	150	-	-	-	-	280	37	-	-	994	7.2
N-21	Holman Cartwright	250	Sept. 20, 1951	do	-	-	-	-	-	286	24	153	-	-	-	-	289	51	-	-	1,000	8.5
N-21	do	250	Sept. 24, 1956	do	-	-	-	-	-	385	-	120	-	-	-	-	150	0	-	-	1,080	8.2
N-24	do	178	Sept. 27, 1956	do	-	-	-	-	-	348	-	80	-	-	-	-	244	0	-	-	832	7.5
N-25	do	147	do	do	-	-	-	-	-	385	-	435	-	-	-	-	510	195	-	-	2,260	7.4
N-26	Lenora Rivera	106	Feb. 14, 1928	do	34	-	80	11	65 3.2	315	23	80	-	1.3	-	458	245	0	-	-	-	-

See footnotes at end of table.

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of	Date of collec-	Water-bearing	Silica (SiO ₂)	Iron (Fe)	Calcium	Magnesium	Sodium and	Bicarbonate	Sulfate	Chloride	Fluoride	Nitrate	Boron (B)	Dissolved	Hardness as CaCO ₃		Percent	Sodium adsorp-	Specific conduct-	pH
																	Total	Non-				

Table 5.--Analyses of water from wells in Live Oak County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Water-bearing unit	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO ₃) ^{a/3}	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids	Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
																	Total	Non-carbonate				
N-28	H. D. Miller	160	Feb. 27, 1957	Rocks of Goliad and younger age	-	-	-	-	-	300	-	292	-	-	-	-	366	120	-	-	1,470	8.1
N-29	do	270	do	do	-	-	-	-	248	345	-	250	-	-	-	-	166	0	76	8.4	1,490	8.2
N-30	do	160	do	do	-	-	-	-	-	341	-	640	-	-	-	-	530	250	-	-	2,680	7.9
N-32	do	160	do	do	-	-	-	-	-	343	-	210	-	-	-	-	282	1	-	-	1,290	7.8
N-33	do	350	Aug. 18, 1934	do	-	-	-	-	-	406	-	238	-	-	-	-	b/210	-	-	-	-	-
N-33	do	350	July 16, 1948	do	26	-	51	23	258	422	87	240	-	10	-	903	222	0	72	7.6	1,550	-
N-33	do	350	Feb. 27, 1957	do	-	-	-	-	-	419	-	230	-	-	-	-	194	0	-	-	1,520	8.0
N-36	Holman Cartwright	385	Sept. 27, 1956	do	-	-	-	-	-	321	-	532	-	-	-	-	515	252	-	-	2,360	7.7

^{a/} Includes the equivalent of any carbonate (CO₃) present.

^{b/} Hardness by soap method.