

ERATH COUNTY

Table 6.—Chemical Analyses of Oil-Field Brines

(Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM (Na)	BICARBONATE (HCO ₃)	SULFATE (SO ₄)	CHLORIDE (Cl)	TOTAL DISSOLVED SOLIDS	pH
Pennsylvanian ^{a/}	Strawn	—	2,900	K-10	3,160	559	24,184	124	30	44,587	72,856	7.38

^{a/} Analyses obtained from data accompanying Railroad Commission of Texas' 1967 Salt Water Production and Disposal questionnaires.

FALLS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
 Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JR-39-42-801	H. C. Cockburn and Zephyr Oil Co.	N. D. Buie No. 1	1945	6,823	390	E
43-401	Cockburn and Gilliam	Gilliam No. 1	1945	7,606	403	E
801	Seaboard Oil Co. of Delaware	J. E. Green No. 1	1948	6,200	430	E
49-401	A. S. Hudgens	Lee Casey No. 1	1949	2,432	435	E
50-110	Dail Goodson	J. G. Barganier No. 1	1947	4,487	320	E
57-402	Delhi-Taylor Oil Corp.	J. A. Cobb No. 1	1955	4,024	390	E
40-47-702	Shallow Sands Oil Co.	Stifelman No. 1	1954	798	595	E
55-201	H. E. Rains	J. B. Scott No. 1	1951	1,110	500	E
56-302	Maury Hughes, Trustee, A. H. Bell	C. L. Trice No. 1	1941	3,104	480	E
64-102	Fumble Oil and Refining Co.	Elanor Carroll No. 1	1951	3,717	530	E
201	do.	Emma Pieper No. 2	1952	2,887	434	E
701	W. P. Luse	Voltin No. 1	1951	2,926	445	E

FALLS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JR-39-41-604			Well JR-40-48-501—Continued		
Owner: City of Marlin Driller: H. G. Johnson			Chalk	98	735
			Shale	45	780
Blue marl	1,150	1,150	Chalk	20	800
Chalky limestone	200	1,350	Blue shale	60	860
Blue clay	100	1,450	Blue sandy shale	40	900
Limestone	125	1,575	Blue shale	20	920
Blue clay	77	1,652	Black shale	55	975
White limestone	338	1,990	Blue shale with hard lime shells	15	990
Shelly limestone and clay	200	2,190	Black shale	20	1,010
Limestone	1,000	3,190	Lime	33	1,043
A little sand, first flow	10	3,200	Sandy shale	72	1,115
Shaly limestone	100	3,300	Lime (oil shows at 1,250 ft)	145	1,260
Sand	30	3,330	Soft lime (sulphur)	5	1,265
Well JR-40-40-804			Soft lime	9	1,274
Owner: Golinda Water Supply Corp. Driller: J. L. Myers Sons			Hard lime	5	1,279
Surface soil	4	4	Lime (oil showing)	61	1,340
Clay (Taylor)	48	52	Blue shale	12	1,352
Shale (Eagle Ford)	402	454	Lime (oil showing)	18	1,370
Chalk (Austin)	206	660	Soft lime	25	1,395
Shale (Edwards)	280	940	Lime	35	1,430
Lime (Buda)	1,160	2,100	Blue shale	15	1,445
Sand (Glen Rose)	176	2,276	Shale	55	1,500
Lime	43	2,319	Lime	28	1,528
Shale and sand (top of Trinity)	83	2,402	Blue shale	17	1,545
Sand	213	2,615	Lime	39	1,584
Shale	12	2,627	Shale	51	1,635
Red Bed	13	2,640	Hard lime	5	1,640
Well JR-40-48-501			Lime	43	1,683
Owner: G. DeGraffenried Driller: Sun Oil Co.			Granulated lime (water)	11	1,694
No record	245	245	Gray lime	46	1,740
Blue shale	65	310	Blue shale	3	1,743
No record	105	415	Gray lime	52	1,795
Blue shale	15	430	Granulated lime water	5	1,800
Gray marl	30	460	Gray lime	45	1,845
Gray marl	177	637	Granulated lime water	3	1,848
			Gray lime	239	2,087

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-48-501—Continued			Well JR-40-56-102—Continued		
Blue shale	10	2,097	Shale	32	2,575
Gray lime	29	2,126	Sand	63	2,638
Light shale	4	2,130	Lime	63	2,701
Gray lime	37	2,167	Sand	67	2,768
Broken lime and shale	16	2,183			
Granulated lime water	11	2,194	Well JR-40-56-301		
Hard lime	14	2,208	Owner: City of Lott Driller: Layne Texas Co.		
Blue shale	16	2,224	Surface soil	3	3
Gray lime	11	2,235	Yellow clay	20	23
Granulated lime water	12	2,247	Black shale	122	145
Gray lime	38	2,285	Hard, sandy rock	88	233
Blue shale	2	2,287	Shale	624	857
Gray lime	58	2,345	Chalk	150	1,007
Granulated lime water	15	2,360	Shale	168	1,175
Gray lime	35	2,395	Shale - hard layers	50	1,225
Blue shale	5	2,400	Shale	15	1,240
Sandy shale	5	2,405	Buda lime	33	1,273
Gray lime	10	2,415	Shale	57	1,330
Blue shale	8	2,423	Hard shale	20	1,350
Gray lime	22	2,445	Georgetown lime	31	1,381
Granulated lime water	25	2,470	Lime	122	1,503
Sandy lime	22	2,492	Shale	14	1,517
Gray lime	8	2,500	Lime	129	1,646
Blue shale with shell streaks	45	2,545	Shale	16	1,662
Sandy lime	10	2,555	Lime and shale breaks	42	1,704
Lime and shale	20	2,575	Shale and lime	56	1,760
Sandy lime	5	2,580	Shale streaks - lime	56	1,816
Fine sand, water	50	2,630	Shale and layers of lime	24	1,840
Gray lime	10	2,640	Lime	32	1,872
Sand (water at 2,675 to 2,708 ft)	68	2,708	Lime and shale	33	1,905
			Lime and shale breaks	55	1,960
			Lime	20	1,980
Well JR-40-56-102			Shale	13	1,993
			Lime	36	2,029
			Lime and shale	197	2,226
Shale and lime	2,269	2,269	Hard lime	9	2,235
Sand	164	2,433	Lime and shale	28	2,263
Lime	62	2,495	Lime and shale breaks	43	2,306
Sand	48	2,543			

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-56-301—Continued			Well JR-40-56-301—Continued		
Lime	42	2,348	Sand (cored)	20	3,214
Lime and shale	32	2,380	Lime and sand layers	29	3,243
Shale	12	2,392	Sand and layers of hard shale	16	3,259
Lime	43	2,435	Hard sandy lime	11	3,270
Lime and shale	26	2,461	Sand	21	3,291
Lime	101	2,562	Shale	4	3,295
Lime and shale layers	50	2,612			
Sandy shale and sand	13	2,625			
Lime shale and anhydrite	42	2,667			
Lime and shale	28	2,695	Surface soil	3	3
Lime	31	2,726	Clay	83	86
Lime	46	2,772	Shale	544	630
Shale	63	2,835	Chalk rock	560	1,190
Sand	2	2,837	Shale	230	1,420
Shale	19	2,856	Lime	187	1,607
Hard shale	10	2,866	Lime and shale	293	1,900
Sandy lime (cored)	20	2,886	Sandy lime	125	2,025
Sandy lime and layers of hard lime	19	2,905	Lime	275	2,300
Lime and shale (cored)	5	2,910	Sandy lime	33	2,333
Porous lime and shale	17	2,927	Lime	332	2,665
Hard shale	25	2,952	Sandy lime	235	2,900
Hard sand (corec)	7	2,959	Sand	145	3,045
Blue shale	3	2,962	Shale	15	3,060
Hard sand and layers of red shale (cored)	26	2,988			
Sand and layers of red and blue shale (cored)	20	3,008			
Sand - few layers of red and blue shale	42	3,050	Soil	10	10
Sand and shale (cored)	6	3,056	Clay	20	30
Shale	8	3,064	Black shale	145	175
Sand	12	3,076	Shale	670	845
Hard shale	14	3,090	Shale and chalk	91	936
Hard sand - layers of hard shale (cored)	25	3,115	Chalk	390	1,326
Sand	2	3,117	Shale	120	1,446
Hard shale	28	3,145	Chalk	22	1,468
Sand and shale layers (cored)	20	3,165	Shale	62	1,530
Sand and layers of shale	29	3,194	Shale and lime	31	1,561
			Lime	18	1,579
			Lime and shale	60	1,639

Table 3.—Drillers' Logs of Selected Wells in Falls County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JR-40-64-601—Continued			Well JR-40-64-601—Continued		
Lime	157	1,796	Shale and lime	179	3,197
Chalky Lime	34	1,830	Sand	3	3,200
Lime	52	1,882	Hard shale	5	3,205
Shale	5	1,887	Sandy lime	10	3,215
Lime	44	1,931	Sandy lime and shale	30	3,245
Lime and layers of shale	73	2,004	Shale and lime	59	3,304
Shale and lime	359	2,363	Hard sandy lime	10	3,314
Lime	58	2,421	Sandy shale	16	3,330
Soft lime	18	2,439	Sand and layers of shale	15	3,345
Lime	14	2,453	Sand	48	3,393
Soft lime	36	2,489	Shale and lime	3	3,396
Lime	42	2,531	Sand	5	3,401
Lime and shale	120	2,651	Hard shale	2	3,403
Lime	49	2,700	Sand	30	3,433
Lime and shale	40	2,740	Hard shale	12	3,445
Lime	155	2,895	Sand	72	3,517
Lime and shale	62	2,957	Red and blue shale	5	3,522
Lime, shale, and anhydrite	20	2,977	Sand and layers of shale	152	3,674
Shale and lime	26	3,003	Sand	10	3,684
Shale and pyrite	10	3,013	Shale	8	3,692
Sand	5	3,018			

HAMILTON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LA-40-09-401	Amerada Petroleum Corp.	John Briscoe No. 1	1949	4,471	1,185	E,R,S
17-201	Luling Oil and Gas, et al.	Ernest Phillips No. 1	1950	4,413	1,272	S
703	Louisiana Coastal Petroleum Corp.	E. B. James No. 1	1967	3,997	1,055	E
41-08-701	Shell Development Co.	Garland Parker No. 1	1960	170	1,260	E,D
14-802	C. I. Producing Co.	C. E. Lund No. 1	1944	3,453	1,307	S
15-701	Grady Wallace, et al.	J. H. Robertson No. 1	1942	3,501	1,250	S
16-201	Seaboard Oil Corp.	Fee No. 1	1937	4,438	1,223	S
202	Amerada Petroleum Corp.	L. S. Burney, et al. No. 1	1949	5,238	1,200	R,S
601	Andrews, Smith Dugger and Herring Drilling Co.	J. R. Parks No. 1	1962	4,310	1,167	E
902	General American Oil Co.	Warren Sibley No. 1	1949	4,372	1,159	E
21-602	Dolan and Pate	Orville Richardson No. 1	1960	—	1,485	S
22-101	Lone Star Producing Co.	J. W. Harris No. 1	1966	2,725	1,427	E
401	Lone Star Gas Co.	E. J. Burks No. 1	1941	2,714	1,357	E
601	Shell Oil Co.	Jewell Christian-son No. 1	1965	3,883	1,385	R
701	Lone Star Producing Co.	E. Riewe No. 1	1947	3,350	1,471	E
23-201	Amerada Petroleum Co.	Maude S. McIntyre No. 1	1951	3,456	1,254	E,S
202	Prince Brothers Drilling Co.	Petrey No. 1	1951	3,440	1,260	E
502	Amerada Petroleum Co.	Alice D. Cowling No. 1	1950	3,740	1,259	S
602	Shell Development Co.	W. R. Streger No. 1	—	141	1,305	E
24-502	American Liberty Oil Co.	Bywaters, et al. No. 1	1949	3,855	1,091	S
31-301	Walter H. Grant	S. P. Drake No. 1	1936	3,835	1,210	S
902	American Manufacturing Co.	T. W. Winters No. 1	1947	3,604	1,243	E,S
32-103	Phillips Petroleum Co.	Townson No. A-1	1956	6,398	1,192	E,R

HAMILTON COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-40-09-104			Well LA-40-09-501—Continued		
Owner: Marvin Porterfield Driller: Tatum Drilling Co.			Water sand	5	425
Caliche	24	24	Blue clay (sandy)	7	432
Well LA-40-09-801			Owner: Lydia Neie Driller: Clarence Erickson		
Dark blue shale	54	78	Hard layers rock and clay	8	8
Gray shale	36	114	Yellow clay	2	10
Blue clay	20	134	Blue soapstone	2	12
White, sandy shale	10	144	Hard, gray rock	68	80
Gray shale	19	163	Blue shale	10	90
White sand	5	168	White rock	70	160
Gray shale and limestone	216	384	Broken lime	20	180
Black sand	12	396	Hard lime rock	90	270
Sandy, blue shale	12	408	Gray shale	33	303
Well LA-40-09-203			Green shale	2	305
Owner: Duncan Ranch Driller: L. W. Little Drilling Co.			Paluxy sand and water	15	320
Surface rock	23	23	Black shale	4	324
Hard, blue shale and limestone	119	142	Hard lime rock	8	332
Soft, blue shale	25	167	Well LA-40-09-901		
Water sand (Paluxy)	30	197	Owner: J. D. Lawson Driller: L. W. Little Drilling Co.		
Hard limestone	7	204	Surface	15	15
Well LA-40-09-501			Hard, white limestone	4	19
Owner: C. A. Bullard Driller: Tatum Drilling Co.			Blue shale and limestone	156	175
Caliche	4	4	Fine, white sand	7	182
Limestone	1	5	Blue shale and limestone	30	212
Sandy shale	2	7	Very hard, white limestone	48	260
Blue shale	33	40	Blue shale and limestone	101	361
Limestone and white shale	30	70	White limestone and shale	78	439
Sticky, blue clay	20	90	Sand	6	445
Sandy shale and sandstone	20	110	Green shale	5	450
Blue shale and limestone	40	150	Sand	6	456
Limestone (water) 24 gph	5	155	Hard sand rock	1	457
Limestone and blue shale	135	290	Sandy shale	4	461
Sandy shale and clay (blue)	70	360	Sand	4	465
Sand	5	365	Black shale	30	495
Blue clay and sandy clay	55	420			

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-40-09-901—Continued			Well LA-40-25-301		
Sand	2	497	Owner: W. A. Suggs Driller: R. A. Adams and Son		
Black shale	8	505	Surface sand and gravel	12	12
Well LA-40-17-702			Glen Rose lime	288	300
Owner: A. G. Thompson Driller: Tatum Drilling Co.			Little sand and water	20	320
Caliche	19	19	Shale and lime streaks	50	370
Gray shale and limestone	206	225	Sand and lime	10	380
Crystal sandstone	3	228	Sand and water	23	403
Sandy shale	42	270	Well LA-41-07-502		
Water sand	8	278	Owner: C. M. Roberson Driller: Tatum Drilling Co.		
Sandy shale	37	315	Caliche and limestone	32	32
Brown, porous limestone (water)	10	325	Blue shale	23	55
White limestone	2	327	Sand	9	64
Well LA-40-18-702			Sandy, blue clay	25	89
Owner: John Calverts Driller: R. A. Adams and Son			Water sand	13	102
Yellow clay and chalk	20	20	Blue shale	6	108
Gray lime	51	71	Well LA-41-08-201		
Shale and lime	35	106	Owner: J. P. Cattle Co. Driller: Tatum Drilling Co.		
Sandy lime	9	115	Caliche	18	18
Sand	5	120	Blue shale and limestone	101	119
Blue shale	4	124	Gray shale	51	170
Glen Rose, 8 in. hard	14	138	Sandy, blue shale	15	185
Glen Rose, 6 in. hard	178	316	Dark sand	15	200
Green shale	5	321	Green, sandy shale	25	225
Glen Rose lime	102	423	Black sand	10	235
Green shale and lime	5	428	Sandy, blue shale	10	245
Blue shale	6	434	Black water sand	15	260
Sandy lime	4	438	Blue shale	4	264
Sandy lime and shale	6	444	Well LA-41-08-302		
Sandy lime	34	478	Owner: City of Hico Driller: Jones and Duncan		
Green shale	5	483	Surface	3	3
Sand and water	19	502	Lime	164	167
Black shale	4	506	Sand	5	172
Red, sandy shale	9	515	Hard rock	1	173
Sand and water	13	528	Sand and water	21	194

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-08-302—Continued			Well LA-41-08-502—Continued		
Green mud	3	197	Lime rock	23	95
Sand rock	7	204	Blue shale	2	97
Water	6	210	Lime rock	13	110
Hard sand	7	217	Blue shale	3	113
Sand and water	17	234	Lime rock	167	280
Sand rock	12	246	Sandy shale	60	340
Green muck	6	252	Top, water strata	18	358
Coarse sand	25	277			
Water	29	306	Well LA-41-08-702		
Rock	1.5	307.5	Owner: — Bulman Driller: Leon Drilling Co.		
Water	3.5	311	Caliche	30	30
			Hard sand (trace water)	35	65
Well LA-41-08-303			Gray lime - shale	85	150
Owner: Bluebonnet Country Club Driller: Leon Drilling Co.			Gray lime	15	165
Caliche and boulders	15	15	Lime - shale	25	190
Broken lime	60	75	Gray shale - shells	70	260
Gray lime	50	125	Dark, sandy shale	40	300
Broken lime - shale	28	153	Water sand and shells	40	340
Gray shale - shells	42	195	Gray lime	5	345
Water sand - trace water	25	220			
Hard sand - shells - shale	20	240	Well LA-41-14-801		
Water sand and gravel	40	280	Owner: Lund Ranch Driller: Tatum Drilling Co.		
Hard, sandy lime	7	287	Pack sand	30	30
Water sand and gravel - trace water	23	310	Limestone and blue shale	190	220
Sandy shale and shells	20	330	Sandy shale	25	245
Red rock - shale - sandy	14	344	Sand and gravel	20	265
			Brown limestone	8	273
Well LA-41-08-502			Well LA-41-15-301		
Owner: Billy Glidewell Driller: Jones Drilling Co.			Owner: Mrs. R. D. Ford Driller: Tatum Drilling Co.		
Topsoil	1	1	Caliche	22	22
Substrata	5	6	Dark blue shale	20	42
Yellow shale	14	20	Black water sand	14	56
Blue shale	10	30	White limestone	4	60
Lime rock	10	40			
Blue shale	10	50	Well LA-41-15-501		
Lime rock	20	70	Owner: J. L. Roberson Driller: Stewart Drilling Co. (Partial log)		
Blue shale	2	72	No record	7	7
			Sand and gravel	43	50

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-15-501—Continued			Well LA-41-22-402		
White rock	12	62	Owner: Herman Rea Driller: R. A. Adams and Son		
Sand and gravel	25	87	Soil and chalk rock	15	15
Red bed with gravel streaks	86	173	Lime	31	46
Sand and gravel	34	207	Paluxy, 2 gpm	22	68
Well LA-41-16-203			Glen Rose	39	107
Owner: H. D. Wuemling Driller: Tatum Drilling Co.			Well LA-41-22-502		
Caliche	14	14	Owner: Perry Karasek Driller: Tatum Drilling Co.		
Blue shale and limestone stringers	46	60	Caliche and limestone	14	14
Water sand	7	67	White lime	16	30
Blue shale	8	75	Blue shale	116	146
Well LA-41-16-501			Dark blue, sandy clay	4	150
Owner: Frederick S. Rice Driller: Tatum Drilling Co.			Gray shale	23	173
Limestone and caliche	15	15	Water sand	6	179
Blue shale	99	114	Gray, sandy shale	17	196
Sandy, blue shale	26	140	Red bed	8	204
Water sand, 3.5 gpm	10	150	Water sand	6	210
Sandy, blue shale	25	175	Green, sandy shale	10	220
Water sand	10	185	Water sand	10	230
Dark blue clay	14	199	Well LA-41-22-702		
Well LA-41-21-801			Owner: C. O. Schulz Driller: Tatum Drilling Co.		
Owner: Mrs. Bert Mayfield Driller: Tatum Drilling Co.			Caliche and sandstone	28	28
Weathered limestone	23	23	Blue shale	47	75
Blue shale and limestone	87	110	Water sand, 2 gpm	10	85
Sandy, blue shale	30	140	Blue shale and limestone	160	245
Blue shale and limestone	48	188	Blue, sandy shale and clay	47	292
Water sand, 1.5 gpm	5	193	Water sand	13	305
Blue shale and limestone	92	285	Porous, brown limestone	10	315
Sandy, blue clay	60	345	White limestone	2	317
Crystal sandstone, very hard	3	348	Well LA-41-23-301		
Blue clay	10	358	Owner: City of Hamilton Driller: J. L. Myers Sons		
Sand and gravel	12	370	Surface soil	2	2
Blue clay	1	371	Clay	3	5
			Rock and clay	9	14
			Lime and clay	23	37

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-23-301—Continued			Well LA-41-23-401—Continued		
Rock and shale	11	48	White sand	12	120
Sandy	49	97	White limestone and shale streaks	36	156
Sandy shale	19	116	Blue shale and limestone streaks	140	296
Lime	144	260	Green sand (fine)	5	301
Shale and lime	28	288	Green shale	3	304
Lime	10	298	Hard sand rock	4	308
Sand	4	302	Blue shale and limestone	20	328
Broken lime and shale	2	304	Water sand (fine)	20	348
Shale	12	316	Shale and sand streaks	8	356
Lime and sandy shale	29	345	Water sand (fine)	4	360
Lime	8	353	Hard sandstone	2	362
Red mix shale	12	365			
Sand	13	378	Well LA-41-23-503		
Lime	6	384	Owner: Edwin Crain Driller: Tatum Drilling Co.		
Broken lime and sand	24	408			
Sand	19	427	Caliche	16	16
Red bed	23	450	Pack sand	10	26
Mixture shale	20	470	Water sand	11	37
Sand	31	501	Blue shale	9	46
Hard rock	2	503			
Sand	72	575	Well LA-41-23-601		
Lime	25	600	Owner: Perry Country Club Driller: Leon Drilling Co.		
			Yellow clay - shells	30	30
Well LA-41-23-302			Gray shale and shells	70	100
Owner: Mrs. Adelle May Driller: Tatum Drilling Co.			Broken lime - shale	100	200
Caliche and limestone	27	27	Gray lime	30	230
Limestone and blue shale	42	69	Sandy shale - trace water	15	245
Dark blue shale	19	88	Sandy lime - shale	15	260
Sandstone and sand	28	116	Sandy shale - trace water	10	270
Gray, sandy shale	7	123	Sandy lime - shale	30	300
Limestone	7	130	Water sand	23	323
			Sandy lime	7	330
Well LA-41-23-401			Red shale - shells	10	340
Owner: Jack R. Raney Driller: L. W. Little Drilling Co.					
			Well LA-41-23-603		
Surface	2	2	Owner: Hamilton Industrial Air Park Driller: Tatum Drilling Co.		
Yellow clay	33	35			
Blue shale and limestone	55	90	Caliche	10	10
Hard, white limestone	18	108	Blue shale	30	40

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-23-603—Continued			Well LA-41-24-102—Continued		
Gray shale	35	75	Lime and shale streaks	11	260
Water sand	20	95	Sand and water, 2.5 gpm	5	265
Sandstone	10	105	Sand and water, 4 gpm	32	297
White limestone	20	125	Green shale	4	301
Brown, porous limestone	7	132			
Blue limestone	5	137			
			Well LA-41-24-401		
			Owner: City of Hamilton Driller: J. L. Myers Sons		
Well LA-41-24-101					
Owner: O'Dell Ranch Driller: L. W. Little Drilling Co.			Soil	4	4
			Rock	59	63
Surface	4	4	Lime	68	131
Blue shale and hard, blue lime rock	103	107	Sand	10	141
Hard, blue lime rock with shale streaks	95	202	Sandy lime	13	154
Very hard, blue lime rock	8	210	Lime and shale	95	249
Hard, blue lime rock with shale streaks	80	290	Sand	30	279
Fine, green sand	6	296	Shale and lime	70	349
Green, sandy shale	24	320	Sandy lime	20	369
Hard sand rock with shale streaks	11	331	Sand	71	440
Hard lime rock	31	362	Lime	70	510
Hard, red shale	41	403	Sand	67	577
			Shale and lime	24	601
Fine, green sand, turning to coarse white sand	10	413	Well LA-41-24-403		
			Owner: City of Hamilton Driller: J. L. Myers Sons		
Hard, black shale	5	418	Surface soil	2	2
Red shale	5	423	Rock and clay	26	28
White, coarse sand	5	428	Sand, gravel and shell	8	36
Red shale	21	449	Sand	33	69
White, coarse sand	3	452	Rock	9	78
Red shale	8	460	Lime	220	298
			Shale and lime	141	439
Well LA-41-24-102					
Owner: Dennis G. Harris Driller: R. A. Adams and Son			Sandy lime	31	470
Surface	2	2	Sand	94	564
Paluxy sand	21	23	Shale	5	569
Glen Rose limestone	193	216			
			Well LA-41-24-405		
Sand-no water	7	223	Owner: J. C. Latham Driller: L. W. Little Drilling Co.		
Green and blue shale	2	225	Surface	14	14
Glen Rose sand and water, 2.5 gpm	24	249	Hard limestone	2	16

Table 3.—Drillers Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-24-701—Continued			Well LA-41-31-602		
Brown sand	7	147	Owner: Rankin Russel Driller: Tatum Drilling Co.		
Blue shale and limestone	213	360	Caliche	31	31
Sandstone	27	387	Pack sand	29	60
Blue and green, sandy shale	48	435	Sandy shale and clay	120	180
Red bed	3	438	Blue shale and limestone	90	270
Crystal limestone	3	441	Black sand (2 gpm)	20	290
Dry, porous brown limestone	27	468	Blue clay	10	300
White, sandy shale and sandstone	22	490	Red bed	5	305
Red bed	25	515	Sand	5	310
			Blue, sandy shale	14	324
Well LA-41-24-702			Well LA-41-32-101		
Owner: Gene Pruitt Driller: Tatum Drilling Co.			Owner: Jack Stribling Driller: Tatum Drilling Co.		
Caliche and rock	16	16	Caliche	14	14
Blue soapstone	11	27	Yellow sand	11	25
Dark gray shale	83	110	Red sand	10	35
Light gray shale	33	143	Yellow sand	3	38
Dark soapstone	15	158	White limestone and gray shale	206	244
Gray sand	20	178	Sandy shale	6	250
Gray shale	221	399	Water sand (black)	12	262
Cap rock	1	400	Sandy shale	13	275
Sandy shale	10	410			
Water sand	10	420	Well LA-41-32-102		
Sandy shale	44	464	Owner: Mary Ruth Pruitt Driller: Tatum Drilling Co.		
Porous, brown limestone	15	479	White sand	18	18
Limestone	6	485	Yellow sand	6	24
Well LA-41-30-301			Blue shale	15	39
Owner: August Nieman Driller: Tatum Drilling Co.			Gray shale	186	225
Caliche and limestone	16	16	Black, water sand (charcoal)	12	237
Sandy clay, yellow	22	38	Gray shale	8	245
Sand, water, .5 gpm	5	43	Sandstone	2	247
White shale and blue shale	195	238	Gray soapstone	6	253
Sandy, blue clay	18	256			
Sand and sandstone	16	272	Well LA-41-32-104		
Blue shale	3	275	Owner: Mrs. Ben Winkler Driller: Tatum Drilling Co.		
			Topsoil	3	3
			Caliche	11	14

Table 3.—Drillers' Logs of Selected Wells in Hamilton County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LA-41-32-104—Continued			Well LA-41-32-501—Continued		
Blue clay	31	45	Water sand, 2 gpm	9	307
Water sand	20	65	Green, rotten, sandy shale	61	368
White lime	10	75	White limestone	3	371
			Brown, porous limestone	14	385
			White limestone	5	390
Well LA-41-32-501			Well LA-41-38-201		
Owner: Charles Easterling Driller: Tatum Drilling Co.			Owner: Carl M. Casbeer Driller: Unknown		
Caliche	19	19			
Blue shale	17	36			
Dark blue clay	15	51	Yellow clay	20	20
White sand	5	56	White lime	90	110
White limestone and blue shale	239	295	Gray water sand	30	140
Blue clay	3	298	White lime	7	147

HILL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LW-32-47-902	Humble Oil and Refining Co.	Ella Freeman No. 1	1959	11,808	636	E
54-502	Joe A. Humphrey	J. E. Osborne No. 1	1953	8,270	761	E
55-303	Hunt Oil Co.	E. W. Wright No. 1	1948	6,681	615	E
63-701	C. Stubblefield, et al.	Summer No. 1	1951	2,500	600	E
33-57-701	Phillips Petroleum Co.	Posey No. A-1	1956	6,616	594	E
39-02-201	George Rahal	Lewis Martin No. 1	1957	3,277	515	E
701	Glen McCarthy	McDaniel No. 1	1959	2,003	453	E
801	C. A. Lee	Hight No. A-1	1954	1,318	613	E
09-401	Camtex Oil Corp.	Cartright No. 1	1952	1,197	540	E
10-101	A. O. Phillips and American Liberty Oil Co.	Vosburg No. 1	1952	1,190	535	E
401	Joseph Thompson	Easter Doherty No. 2	1950	1,405	615	E
402	W. B. Fianagan, et al.	Johnson No. 1	1950	1,202	593	E
601	Shell Development Co. and Penrod	E. W. Barrett No. 1	1967	4,267	575	E
701	Joe Thompson	Jack Carr No. 1	1947	1,339	627	E
702	M. L. Richards and David E. Lee	H. D. Walker No. 1	1952	1,604	584	E
703	McKenzie Brothers Oil and Gas Co.	T. M. Morris No. 1	1958	1,257	615	E
704	Davidson and Fitzpatrick	Grant No. 1	1956	1,439	610	E
40-06-802	Brandon Oil Co.	Shannon No. 1	1958	1,204	573	E
15-501	A. P. Merritt	H. Norris No. 1	1947	3,129	530	E
601	Robert M. Bass	John Gerek No. 1	1946	1,019	510	E

HILL COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-53-701			Well LW-32-53-701—Continued		
Owner: U.S. Army Corps of Engineers Driller: Unknown			Hard sand and sandy shale streaks		
				6	797
Red, sandy clay	18	18	Hard sand	33	830
Sand and small gravel	20	38	Hard sand and rock streak	5	835
Rock	31	69			
Well LW-32-53-902			Well LW-32-53-902		
Shale and rock streaks			Owner: Blum Water Supply Corp. Driller: J. L. Myers Sons		
	18	87			
Shale and sand streaks	16	103	Surface soil	1	1
Sand	65	168	Lime	37	38
Gray sand, shale	4	172	Broken lime	182	220
Sand	3	175	Lime and shale	111	331
Gray shale	8	183	Shale	11	342
Rock	202	385	Sand	43	385
Shaly lime	20	405	Lime and shale	38	423
Rock	71	476	Lime	25	448
Rock and shale streaks	44	520	Broken lime	26	474
Soft sand rock	6	526	Lime and shale	142	616
Rock and shale streaks	44	570	Broken lime	156	772
Shale and sand streaks	15	585	Shale	9	781
Sand	12	597	Lime and shale	56	837
Shale	5	602	Shale	8	845
Sand and shale streaks	19	621	Sand	73	918
Sand	4	625	Sand and shale	6	924
Red shale	12	637	Shale	10	934
Rock and sand	5	642			
Well LW-32-54-702			Well LW-32-54-702		
Red shale	64	706	Owner: Jack Taylor Driller: C. M. Stoner Drilling Co.		
Sandy shale	15	721	Soil	3	3
Rock	2	723	Rock	27	30
Red and gray shale	27	750	Blue shale	15	45
Sandy shale	10	760	White rock	370	415
Sand	5	765	Sandy shale	37	452
Red, sandy shale	3	768	Sand	60	512
Sand and sandy shale	9	777	Glen Rose lime	438	950
Sand	9	786	Shale	60	1,010
Red, sandy shale	5	791	Sand	27	1,037
			Shale	1	1,038

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-54-702—Continued			Well LW-32-55-602—Continued		
Sand	4	1,042	Blue shale	10	30
Shale	5	1,047	Brown shale	135	165
Sand	3	1,050	Sand	25	190
Broken sand	13	1,063	Broken, sandy shale and sand	62	252
Well LW-32-55-304			Sand	20	272
Owner: Sam Gard Driller: C. M. Stoner Drilling Co.			Sandy shale	8	280
Soil	2	2	Sand	15	295
Yellow clay	8	10	Sandy shale and sand	35	330
Brown shale	60	70	Lime rock	10	340
Sand	20	90	Well LW-32-55-902		
Sandy shale	30	120	Owner: City of Itasca Driller: Layne Texas Co.		
Sand	15	135	Surface soil	4	4
Sandy shale	10	145	Yellow clay	22	26
Broken sand and sandy shale	50	195	Black shale	110	136
Sandy shale	25	220	Sand rock	1	137
Sand	20	240	Black shale	48	185
Shale and sand rock	20	260	Rock	3	188
White rock	13	273	Sandy shale	10	198
Well LW-32-55-601			Brown shale	48	246
Owner: — Morris Driller: C. M. Stoner Drilling Co.			Sand	8	254
Soil	3	3	Sand and sandy shale	37	291
Yellow clay	15	18	Hard shale and lime	134	425
Brown shale	92	110	Lime	202	627
Sand	23	133	Lime and layers of hard shale	29	656
Shale	17	150	Lime	174	830
Hard sand	17	167	Lime and layers of shale	15	845
Shale	30	197	Sand	7	852
Sand	13	210	Sandy shale	40	892
Shale	11	221	Shale and layers of lime	46	938
Sand	73	294	Lime	16	954
Sand and lime	11	305	Shale and layers of sand	25	979
Well LW-32-55-602			Lime and layers of shale	57	1,036
Owner: Texas Highway Department Driller: C. M. Stoner Drilling Co.			Shale	81	1,117
Soil	1	1			
Clay	19	20			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-55-902—Continued			Well LW-32-55-904		
Limestone	115	1,232	Owner: City of Itasca Driller: Texas Water Wells		
Lime	2	1,234	Rotary to ground level	6	6
Lime and layers of shale	88	1,322	Topsoil	4	10
Lime	35	1,357	Yellow clay	30	40
Sandy shale	28	1,385	Hard shale streaked with rock	156	196
Shale	5	1,390	Sand with streaks of shale	51	247
Hard shale and layers of anhydrite	36	1,426	Shale, lime, and sand streaks	65	312
Hard shale	20	1,446	Shale and lime	27	339
Sandy shale	30	1,476	Lime - hard	5	344
Sand	40	1,516	Shale and lime rock	82	426
Layers of sand and shale	8	1,524	Lime and streaks of shale	208	634
Blue shale	9	1,533	Hard shale and lime	36	670
Sand	13	1,546	Hard lime streaked with shale	117	787
Hard, blue and gray shale	8	1,554	Hard shale	16	803
Sand	20	1,574	Hard shale and lime	21	824
Hard shale	11	1,585	Lime streaked with shale	39	863
Sand	20	1,605	Shale	25	888
Hard, blue shale	21	1,626	Hard sand streaked with shale (Paluxy)	84	972
Sand	18	1,644	Lime	72	1,044
Hard, blue shale	22	1,666	Shale streaked with lime	66	1,110
Red shale	13	1,679	Lime streaked with shale	380	1,490
Hard, red and blue shale	17	1,696	Sand streaked with shale	128	1,618
Hard, blue and brown shale	25	1,721	Shale and lime hard and red bed	52	1,670
Sand	13	1,734	Hard sand	20	1,690
Layers of sand and shale	20	1,754	Shale	14	1,704
Sand	25	1,779	Hard sand streaked with shale	114	1,818
Shale	6	1,785	Sand and layers of shale	38	1,856
Sand	9	1,794			
Sand and layers of hard shale (cored)	15	1,809			
Hard sandy shale	5	1,814			
Hard, blue, red, and brown shale	17	1,831			
No record	4	1,835			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-55-905			Well LW-32-55-909—Continued		
Owner: Itasca Cotton Manufacturing Co. Driller: J. L. Myers Sons			Fine sand	4	217
			Shale	15	232
Surface soil	8	8	Sand	37	269
Yellow clay	6	14	Shale and white rock	20	289
Gravel	4	18			
Yellow clay	15	33	Well LW-32-56-401		
Shale	147	180	Owner: Presbyterian Children's Home Driller: J. L. Myers Sons		
Sand	15	195	Rock and yellow clay	30	30
Shale	12	207	Shale	268	298
Sand	13	220	Shale and rock	74	372
Shale	6	226	Sand	8	380
Sand	15	241	Sandy shale	20	400
Shale	59	300	Shale	10	410
Well LW-32-55-908			Sand	50	460
Owner: Harris Electric Co. Driller: C. M. Stoner Drilling Co.			Shale	10	470
Soil	3	3	Well LW-32-56-402		
Yellow clay	27	30	Owner: Presbyterian Children's Home Driller: J. L. Myers Sons		
Black shale	54	84	Soil	1	1
Brown shale	91	175	Chalk rock	39	40
Sand	25	200	Shale	357	397
Broken, sandy shale	10	210	Sandy shale	32	429
Good sand	24	234	Sand	59	488
Shale	13	247	Shale	22	510
Sand	6	253	Sand	13	523
Broken sand and shale	22	275	Shale and sand streaks	24	547
Sand	21	296			
Shale	20	316	Well LW-32-56-902		
Well LW-32-55-909			Owner: A. G. Bailey Driller: C. M. Stoner Drilling Co.		
Owner: Ernest Whitfield Driller: C. M. Stoner Drilling Co.			Chalk	85	85
Soil	3	3	Blue shale	200	285
Yellow clay	27	30	Brown shale	135	420
Brown shale	100	130	Sand	10	430
Sand	59	189	Broken sand and sandy shale	30	460
Broken sand and rock	6	195	Hard sand rock	3	463
Sandy shale	18	213	Broken sand and shale	62	525

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-56-902—Continued			Well LW-32-61-901—Continued		
Sand	25	550	Lime	15	60
Sandy shale and sand rock	60	610	Lime and shale	115	175
Sand	20	630	Shale	45	220
Sandy shale	10	640	Sand and lime	20	240
White rock	8	648	Lime	360	600
			Sand and lime	40	640
			Shale	100	740
Well LW-32-61-103			Sand - first Trinity	40	780
Owner: U.S. Army Corps of Engineers			Red bed	135	915
Driller: Ward and Ward Drilling Co.					
Red clay	30	30			
Gravel	10	40	Well LW-32-61-902		
Gray shale	120	160	Owner: G. V. Paden		
Sand	20	180	Driller: C. M. Stoner Drilling Co.		
Rock	13	193	Soil	.5	.5
Water sand	35	228	Chunk rock	5.5	6
Shale	152	380	White rock	309	315
			Broken shale and shale	30	345
Well LW-32-61-201			Green shale	10	355
Owner: Brazos Lime Co.			Sand	40	395
Driller: C. M. Stoner Drilling Co.			Lime rock	455	850
Lime	300	300	Broken sand and sandy shale	58	908
Sand	57	357	Sand	27	935
Glen Rose lime	415	772	Red bed	90	1,025
Sand	12	784	Sand	25	1,050
Shale	6	790	Sandy shale	20	1,070
Hard sand	14	804	Sand	62	1,132
Red bed	13	817			
Sand	5	822	Well LW-32-62-101		
Shale	12	834	Owner: Rex Cauble		
Sand	20	854	Driller: C. M. Stoner Drilling Co.		
Shale	1	855	Soil	3	3
Sand	13	868	White rock	32	35
Red bed	70	938	Blue shale	3	38
Sand	57	995	White rock	327	365
Shale	7	1,002	Shell rock	45	410
			Sandy shale	15	425
Well LW-32-61-901			Paluxy sand	90	515
Owner: U.S. Army Corps of Engineers			Lime	350	865
Driller: Watts Drilling Co.			Lime and shale	110	975
Topsoil	10	10	Sand	78	1,053
Lime and shale	35	45			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-62-302			Well LW-32-63-101		
Owner: Ed Allen Driller: C. M. Stoner Drilling Co.			Owner: L. L. Fullilove Driller: C. M. Stoner Drilling Co.		
Soil	3	3	Soil	3	3
Yellow clay	14	17	Yellow clay	5	8
Blue shale	111	128	Sand	1	9
White rock	392	520	Yellow clay	11	20
Shell rock	40	560	Broken sand	22	42
Sandy shale	55	615	Shale	28	70
Sand	37	652	Sand	14	84
Sand	36	688	Sand	25	109
Glen Rose lime	430	1,118	Sand	23	132
Shale	30	1,148	Sandy shale	10	142
Sand (not good)	5	1,153	Shale	18	160
Sand (good)	60	1,213			
Well LW-32-62-401			Well LW-32-63-301		
Owner: T. E. Harris Driller: C. M. Stoner Drilling Co.			Owner: C. M. Myers Driller: C. M. Stoner Drilling Co.		
			Soil	3	3
White rock	435	435	Yellow clay	7	10
Blue shale	11	446	Gravel	15	25
Sandy shale	9	455	Brown shale	106	131
Sand, broken (top Paluxy 478 ft)	20	475	Sand rock	4	135
Sand	15	490	Sandy shale	45	180
White rock	435	925	Sand	30	210
Shale and lime	21	946			
Sandy lime	4	950	Well LW-32-63-403		
Green shale	8	958	Owner: Joe Esmond Driller: Fort Worth Drilling Co.		
Sandy shale	12	970	Sand	3	3
Sand (top Trinity 980 ft)	50	1,020	Yellow clay	17	20
			Quicksand	15	35
Well LW-32-62-701			Gray shale with sand rocks	35	70
Owner: Lonnie Allen Driller: C. M. Stoner Drilling Co.			Blue shale	52	122
White rock	380	380	White lime	68	190
Shale rock	60	440	Brown shale	5	195
Sandy shale	10	450	White lime	31	226
Sand	7	457	Brown shale	41	267
Glen Rose lime	511	968	White lime	55	322
Sand	31	999	Blue gray shale	19	341
Sandy shale	8	1,007	White lime	149	490

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-403—Continued			Well LW-32-63-801—Continued		
Gray shale	52	542	Lime and layers shale	175	785
Shell rock	41	583	Sand	40	825
Sandy shale	41	624	Lime	34	859
Water sand	32	656	Sandy lime and shale	68	927
Sandy lime and shale	11	667	Soft, brown lime	350	1,277
Well LW-32-63-601			Soft, brown shale	10	1,287
			Brown lime and shale	16	1,303
Owner: Joe B. Pharris			Soft, brown lime	92	1,395
Driller: C. M. Stoner Drilling Co.			Sand	45	1,440
Soil	3	3	Shale	20	1,460
Yellow clay	17	20	Hard lime	10	1,470
Brown shale	74	94	Red shale	25	1,495
Sand	9	103	Layers shale, sandy shale	24	1,519
Shale	17	120	Sandy shale and layers sand	56	1,575
Sand	23	143	Hard shale	11	1,586
Shale	3	146	Red shale	10	1,596
Rock	2	148	Red, sandy shale, layers sand	19	1,615
Sand	10	158	Shale and sandy shale	17	1,632
Broken, sandy shale	19	177	Sand	11	1,643
White sand	14	191	Red sand and shale	12	1,655
Shale	16	207	Layers sand and shale	17	1,672
Sand	8	215	Red shale and layers hard, fine sand	31	1,703
Sandy shale	2	217	Hard sand rock	5	1,708
Sand	23	240	Hard shale	45	1,753
Well LW-32-63-801			Red and blue shale	25	1,778
Owner: City of Hillsboro			Red, blue, some yellow shale	82	1,860
Driller: Layne Texas Co.			Red, blue, yellow shale	39	1,899
Surface soil	3	3	Well LW-32-63-902		
Yellow clay	17	20	Owner: City of Hillsboro		
Hard, black shale	35	55	Driller: Layne Texas Co.		
Hard sand	20	75	Surface	5	5
Blue clay	62	137	Dark shale	45	50
Sand	18	155	Sandstone	5	55
Sandy shale and clay	24	179	Blue clay	15	70
Sandy shale	21	200	Water sand	5	75
Hard, blue shale	107	307			
Lime	114	421			
Lime and layers shale	112	533			
Hard, white lime	77	610			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-902—Continued			Well LW-32-63-909—Continued		
Blue shale	20	95	Lime	36	341
Sandy shale	25	120	Hard lime	33	374
Blue shale	38	158	Broken lime and shale	19	393
Sandy shale	12	170	Lime	37	430
Hard sand	20	190	Broken lime and shale	42	472
Blue shale	90	280	Hard, lime rock	2	474
White lime	70	350	Chalk	26	500
Blue shale	5	355	Lime	6	506
White lime	25	380	Lime and shale	57	563
Blue shale	15	395	Hard shale and lime	43	606
Gray lime	30	425	Shale	74	680
White lime	30	455	Lime	10	690
Gray lime	20	475	Hard lime	16	706
Blue shale	45	520	Hard lime	16	722
White lime	105	625	Shale and boulders	4	726
Blue shale	15	640	Hard sand rock	1	727
White lime	10	650	Shale	20	747
Blue shale	55	705	Hard sand rock	3	750
Sandstone	5	710	Shale	14	764
Hard, gray lime	30	740	Lime	5	769
Blue shale	39	779	Hard sand	9	778
Shale and sand (too sand)	4	783	Hard, white clay	11	789
Good sand (Paluxy)	50	833	Shale and sandy lime	43	832
Dark lime	9	842	Sandy lime	53	885
			Lime	33	918
			Sandy lime and shale	12	930
			Lime	15	945
Well LW-32-63-909					
Owner: City of Hillsboro					
Driller: Layne Texas Co.					
Surface soil	10	10	Shale layers and sandy lime	18	963
Yellow clay and gravel	5	15	Hard, sandy lime	3	966
Hard, fine sand	35	50	Lime and shale	8	974
Hard shale	67	117	Sandy lime and shale	56	1,030
Sand	17	134	Sandy lime and hard shale	35	1,065
Sand rock	2	136	Hard lime	5	1,070
Sand	22	158	Lime	30	1,100
Hard shale	22	180	Hard lime	16	1,116
Pyrite of iron	1	181	Lime	24	1,140
Hard shale	102	283	Hard lime	20	1,160
Hard chalk	22	305			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-63-909—Continued			Well LW-32-63-910—Continued		
Lime and shale	31	1,191	Shale	5	80
Hard lime	24	1,215	Blue shale	30	110
Shale and lime	9	1,224	Sand stone	5	115
Sandy lime and shale	32	1,256	Blue shale	35	150
Lime rock	54	1,310	Water sand (Woodbine)	35	185
Hard, sandy lime	25	1,335	Blue shale	30	215
Sandy shale, streaks hard sand	55	1,390	Blue lime	60	275
Packed sand	29	1,419	White lime	115	390
Shale	5	1,424	Blue shale	20	410
Hard sand, streaks of shale	15	1,439	Gray lime	75	485
Rock	17	1,456	Blue shale	35	520
Red shale	14	1,470	White lime	140	660
Shale	30	1,500	Blue clay	20	680
Red shale	75	1,575	Blue shale	20	700
Blue shale	15	1,590	Gray lime	5	705
Hard, red shale	12	1,602	Sand stone	5	710
Hard shale	6	1,608	Gray lime	35	745
Hard, sandy lime	12	1,620	Blue shale	32	777
Red shale and hard, red sand	27	1,647	Lime and shell	1	778
Red sand rock and shale	13	1,660	Lime	2	780
Sand	10	1,670	Sand (Paluxy)	50	830
Hard gravel and sand	3	1,673	Lime	15	845
Sandy lime and gravel	3	1,676	Well LW-32-64-101		
Sand rock	4	1,680	Owner: Edwin Clay Driller: C. M. Stoner Drilling Co.		
Shale	12	1,692	Soil	2	2
Hard rock	4	1,696	Yellow clay	41	43
Shale, hard	4	1,700	Blue shale	75	118
Shale	19	1,719	Brown shale	27	145
Hard shale	65	1,784	Sandy shale	42	187
			Sand	38	225
			Good sand	48	273
Well LW-32-63-910			Well LW-32-64-102		
Owner: City of Hillsboro Driller: Layne Texas Co.			Owner: Boyd "Buck" Bailey Driller: C. M. Stoner Drilling Co.		
Yellow clay	8	8			
Black shale	47	55			
Dark rock	10	65	Soil	3	3
Blue, sandy clay	5	70	Yellow clay	37	40
Sand (little water)	5	75	Blue shale	60	100

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-102—Continued			Well LW-32-64-301		
Brown shale	115	215	Owner: D. O. Clinkscales Driller: C. M. Stoner Drilling Co.		
Sand	100	315	Soil	.5	.5
Shale	38	353	Chalk rock	179.5	180
Well LW-32-64-103			Blue shale	220	400
Owner: James and McKinney Construction Co. Driller: C. M. Stoner Drilling Co.			Brown shale	115	515
Soil	3	3	Broken sand and sandy shale	35	550
Yellow clay	27	30	Sand	30	580
Blue shale	100	130	Sandy shale	25	605
Brown shale	100	230	Sand	25	630
Broken sand	27	257	Good sand	46	676
Sand	16	273	Well LW-32-64-701		
Sandy shale	15	288	Owner: City of Hillsboro Driller: Texas Water Wells		
Sand	32	320	Rotary to ground level	6	6
Sand	11	331	Surface	2	8
Shale	4	335	Gravel	3	11
Sand	4	339	Clay	29	40
Well LW-32-64-201			Clay, sand	10	50
Owner: C. E. Bartlett Driller: C. M. Stoner Drilling Co.			Sand	5	55
Soil	1	1	Shale	10	65
Chalk rock	1	2	Sandy shale	5	70
Chalk rock	13	15	Blue shale	10	80
Blue shale	185	200	Shale	210	290
Brown shale	145	345	Sandy shale	10	300
Sand	20	365	Sand	14	314
Sandy shale	17	382	Shale	11	325
Sand	13	395	Sand	11	336
Sandy shale	7	402	Shale, shells	39	375
Sand	17	419	Shale, lime streaks of sand	75	450
Sandy shale	21	440	Shale lime	132	582
Gray shale	63	503	Lime	28	610
Sand	5	508	Shale, lime	46	656
White rock	12	520	Lime	32	688
			Shale, lime shells	22	710
			Sand, lime shells	30	740

Table 3.—Drillers’ Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-701—Continued			Well LW-32-64-702—Continued		
Shale, lime	126	866	Shale and hard streaks	28	174
Shale	13	879	Fine, sandy shale	16	190
Lime	9	888	Gray shale	43	233
Sand, broken	57	945	Hard, fine, white sand	37	270
Lime	20	965	Gray shale	23	293
Sand, lime shells	30	995	Lime	28	321
Chalk	5	1,000	Gray shale and lime streaks	49	370
Sand	10	1,010	Hard lime and shale streaks	9	379
Chalk	5	1,015	Gray shale and lime streaks	48	427
Sand, lime shells	35	1,050	Hard lime and shale streaks	48	475
Chalk	55	1,105	Hard shale and layers of lime	130	605
Lime, shale	130	1,235	Hard, gray lime and shale breaks	80	685
Sticky shale	10	1,245	Hard shale and hard lime streaks	65	750
Sandy shale, hard lime	55	1,300	Hard, gray shale	35	785
Sand, lime shells	30	1,330	Hard, gray lime and shale breaks	21	906
Lime, hard	121	1,451	Hard, gray shale and streaks of soft shale	65	971
Sandy lime, hard shale	89	1,540	Hard lime	87	1,058
Anhydrite	5	1,545	Hard shale and lime streaks	23	1,081
Líme, shale	65	1,610	Soft lime and streaks of hard lime	63	1,144
Sandy shale	10	1,620	Hard shale and lime	9	1,153
Sand	60	1,680	Hard lime	6	1,159
Sandy lime, shale	125	1,805	Soft lime	10	1,169
Sand	35	1,840	Hard lime and soft streaks	57	1,226
Lime, shale, red bed	15	1,855	Hard lime	149	1,375
Sand	85	1,940	Soft lime and white shale	22	1,397
Red bed, black shale	15	1,955	Hard lime and streaks of shale	20	1,417
Shale lime	10	1,965	Shale	32	1,449
Red bed, streaks of lime	15	1,980	Soft shale and lime	18	1,467
Black shale, hard lime	20	2,000	Gray, sandy shale	21	1,488
			Hard, brown shale and white lime	12	1,500
			Gray, sandy shale	26	146
Well LW-32-64-702					
Owner: Certain-Teed Production Corp. Driller: Layne Texas Co.					
No record	—	—			
Clay	—	31			
Shale	26	57			
Sandy shale	28	85			
Black shale and sand streaks	35	120			
Gray, sandy shale	26	146			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-32-64-702—Continued			Well LW-32-64-801—Continued		
Hard shale and sand streaks	16	1,516	Sandy shale	25	540
			Sand	10	550
Fine, gray sand and shale breaks	46	1,562	Sandy shale	12	562
			Sand	13	575
Shale, streaks of sand, and lime	17	1,579	Gray shale	2	577
Lime and hard sand streaks	23	1,602	Sand	6	583
Hard lime	3	1,605	Sandy shale	9	592
Hard lime, shale, and sand streaks	37	1,642	Sandy rock	1	593
			White rock	2	595
Hard lime and shale streaks	7	1,649			
Gray shale	17	1,666	Well LW-33-57-402		
			Owner: Brandon-Irene Water Supply Corp. Driller: J. L. Myers Sons		
Hard, gray sand and shale streaks	25	1,691	Surface soil	10	10
Shale and white lime	12	1,703	Lime	70	80
Hard, gray, fine sand and shale streaks	10	1,713	Lime and shaly sand	265	345
Hard, gray shale, lime, and sand streaks	11	1,724	Shale and sandy shale	297	642
Fine, hard sand	20	1,744	Shale with sand and lime streaks	98	740
Sandy lime and pink shale breaks	16	1,760	Lime	10	750
Pink shale	10	1,770	Shale and streaks of sand	130	880
Fine, hard sand	30	1,800	Limy shale	174	1,054
Hard shale	15	1,815	Lime and shale	458	1,512
Fine sand	13	1,828	Sandy shale	176	1,688
Hard shale and lime streaks	48	1,876	Lime and shaly sand	565	2,253
			Shale and sand	189	2,442
Well LW-32-64-801			Sand with shale streaks	110	2,552
			Sand	59	2,611
			Lime	41	2,652
Chunk rock	4	4			
Chalk	121	125	Well LW-33-57-601		
Blue shale	170	295	Owner: City of Mertens Driller: Layne Texas Co.		
Brown shale	122	417	Yellow clay	23	23
Sandy shale	3	420	Gumbo	92	115
Sand	35	455	Shale	199	314
Sandy shale	30	485	Gumbo shale	336	650
Gray shale	20	505	Brown shale	118	768
Sandy shale	7	512	Lime	4	772
Sand	3	515	Sand	5	777

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-33-57-601—Continued			Well LW-39-09-201—Continued		
Lime	2	779	Sand - gravel	50	3,050
Shale	13	792	Shale	88	3,138
Sand	40	832			
Well LW-39-01-102			Well LW-39-09-901		
Owner: Adron Tekell Driller: C. M. Stoner Drilling Co.			Owner: City of Mt. Calm Driller: West-Tex Tool Service		
			Caliche and clay	203	203
Soil	3	3	Blue shale	708	911
Austin chalk	217	220	Shale and lime	374	1,285
Blue shale	300	520	Shale and lime	196	1,481
Brown shale	109	629	Lime and chalk	98	1,579
Sand	31	660	Lime and shale	229	1,808
Sandy shale with sand streaks	140	800	Lime	53	1,861
Sand	12	812	Shale and lime	114	1,975
Broken sand and shale	58	870	Lime	215	2,190
			Lime and shale	70	2,260
Well LW-39-09-201			Lime	177	2,437
Owner: City of Penelope Driller: J. L. Myers Sons			Lime	81	2,518
			Lime, sand, and shale	197	2,715
Surface soil	48	48	Sandy lime and shale	218	2,933
Blue shale	92	140	Sand, lime	130	3,063
Shale	245	385	Lime and sand	212	3,275
Chalk	265	650	Sand and lime	46	3,321
Shale	641	1,291	Lime and sand	86	3,407
Lime	165	1,456	Sand, lime, and chert	51	3,458
Lime - shale	413	1,869			
Sand - shale	65	1,934	Well LW-39-10-201		
Lime - shale	164	2,098	Owner: City of Hubbard Driller: J. L. Myers Sons		
Shale - sand	20	2,118	Sand	3	3
Shale - lime	100	2,218	Clay	22	25
Shale	7	2,225	Sand rock	25	50
Sand - shale	48	2,273	Shale	671	721
Lime - shale	287	2,560	Chalk rock	304	1,025
Sand - shale	20	2,580	Shale	425	1,450
Lime - shale	140	2,720	Broken sand	70	1,520
Shale	31	2,751	Shale and sandy shale	90	1,610
Sand - shale	189	2,940	Lime	345	1,955
Shale	25	2,965	Lime and broken lime	530	2,485
Sand - shale	35	3,000			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-39-10-201—Continued			Well LW-40-05-601		
Sandy lime	45	2,530	Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.		
Broken lime	50	2,580	Subsoil	15	15
Lime	175	2,755	Lime	155	170
Broken lime	159	2,914	Shale	84	254
Sandy lime	123	3,037	Lime	56	310
Lime	63	3,100	Paluxy sand	24	334
Shale	45	3,145	Lime	133	467
Broken lime	115	3,260	Shale	323	790
Sandy shale	105	3,365	Sand	30	820
Sand	85	3,450	Lime	4	824
Gumbo shale and red shale	40	3,490	Sand and shale	8	832
Sand	20	3,510	Sand	35	867
Broken sand	45	3,555			
Well LW-40-05-303			Well LW-40-06-101		
Owner: Lake Whitney Enterprises Driller: C. M. Stoner Drilling Co.			Owner: Lake Whitney Recreation Club Driller: J. L. Myers Sons		
			Surface soil	4	4
Soil	1	1	Broken lime	7	11
Gravel	1	2	Lime	41	52
Caliche	2	4	Broken lime	270	322
White rock	355	359	Shale	45	367
Shale	25	384	Broken lime	55	422
Sand	26	410	Shale	46	468
White rock	417	827	Lime	85	553
Sand	10	837	Broken lime	352	905
White rock	23	860	Sandy lime	62	967
Sandy shale	25	885	Sand	13	980
Sand	20	905	Broken sand	45	1,025
Pink, sandy shale	7	912	Broken lime	50	1,075
Sand	13	925	Lime and shale	59	1,134
Gray, sandy shale	55	980	Sand	22	1,156
Red bed	73	1,053	Broken sand	52	1,208
Gray, sandy shale	21	1,074	Sand	11	1,219
Sand	21	1,095	Sand and shale	31	1,250
Gray, sandy shale	11	1,106	Shale	28	1,278
Sand	31	1,137			
Yellow clay	9	1,146			
Sand	44	1,190			
Red shale	10	1,200			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-06-103			Well LW-40-06-402—Continued		
Owner: U.S. Army Corps of Engineers Driller: C. M. Stoner Drilling Co.			Blue lime	50	80
			White lime	280	360
Soil	6	6	Sand	20	380
Red gravel, clay	6	12	Blue lime	155	535
White rock	303	315	Shale	115	650
Sand	10	325	Lime	113	763
Shale	9	334	Shale	120	883
Sand	40	374	Sand	17	900
White lime	456	830	Shale	55	955
Green, sandy shale	10	840	Red bed	110	1,065
Sand	25	865	Sand and lime streaks	18	1,083
Sandy shale	5	870	Sand	12	1,095
Sand	42	912	Sandy lime	10	1,105
Green shale	12	924			
Red shale	56	980	Well LW-40-06-501		
Sand	10	990	Owner: City of Whitney Driller: Layne Texas Co.		
Mixed shale	77	1,067	Black soil	5	5
Sand	67	1,134	Gravel	15	20
			Chalk	10	30
Well LW-40-06-104			Shale and shell	50	80
Owner: Lake Whitney Enterprises Driller: J. L. Myers Sons			Lime, gray	45	125
Lime	205	205	Shale	15	140
Lime and shale	153	358	White lime	70	210
Sand	37	395	Shale, gray	50	260
Lime	181	576	Lime, gray	60	320
Sandy lime	116	692	Blue gumbo	10	330
Lime	118	810	Lime, gray	5	335
Sandy lime	58	868	Blue shale	40	375
Sandy shale	40	908	Lime, gray	10	385
Sand	28	936	Lime rock	20	405
Shale	112	1,048	Lime and flint	15	420
Sandy shale	48	1,096	Blue shale	30	450
Sand	65	1,161	Sand	36	486
Shale	5	1,166	White lime	14	500
			Lime	135	635
Well LW-40-06-402			Shale, blue	15	650
Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.			Lime, white	105	755
Subsoil	8	8	Lime	55	810
White lime	22	30			

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-06-501—Continued			Well LW-40-06-504—Continued		
Blue shale	25	835	Shale	6	1,316
Lime	25	860	Sand	8	1,324
Sandy lime	35	895	Shale	4	1,328
Sandy shale	70	965	Broken sand with streaks of shale	7	1,335
Sand	15	980	Sand	45	1,380
Shell, hard	7	987	Broken sand and shale	40	1,420
Sand	3	990	Shale with streaks of sand	50	1,470
Lime, sandy	8	998			
Sand	15	1,013			
Shale	4	1,017			
Red rock	3	1,020			
Shale	10	1,030	No record	1,014	1,014
Sandy lime	10	1,040	Lime	55	1,069
Lime	40	1,080	Lime and shale	58	1,127
Lime, hard	14	1,094	Hard sand	8	1,135
Shale	22	1,116	Lime	48	1,183
Red shale	7	1,123	Sand	7	1,190
Sandy lime	5	1,128	Broken lime, shale, and sand	70	1,260
Sand	142	1,270	Sand	10	1,270
Sand, red	5	1,275	Hard sand	5	1,275
Red, sandy lime	5	1,280			
Lime	3	1,283			
			Well LW-40-07-201		
			Owner: City of Hillsboro Driller: Layne Texas Co.		
Well LW-40-06-504			Soil	4	4
Owner: Hill County Water Supply Corp. Driller: J. L. Myers Sons			Clay and sandy clay	18	22
Clay and sand	38	38	Clay and sandy clay	16	38
Shale	49	87	Clay and gravel	8	46
Lime with streaks of shale	493	580	Shale	6	52
Sand	10	590	Shale and boulders	150	202
Sandy shale	27	617	Sandy shale	45	247
Lime	33	650	Shale and lime	443	690
Lime and shale	102	752	Blue shale and lime	45	735
Lime and shale with streaks of sand	120	872	Sandy shale and lime	10	745
Lime and shale	229	1,101	Shale and lime	35	780
Broken sand and shale	189	1,290	Hard, gray lime and shale	136	916
Shale	16	1,306	Dark shale and lime	26	942
Sand	4	1,310	Gray shale and sandy lime	38	980

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-07-201—Continued			Well LW-40-08-501		
Hard, gray, sandy shale and lime	115	1,095	Owner: Chatt Water Supply Corp. Driller: J. L. Myers Sons		
Hard shale and lime	75	1,170	Surface soil	15	15
Hard shale	29	1,199	Shale	535	550
Hard lime and shale	86	1,285	Lime	60	610
Sandy lime	20	1,305	Lime and shale	267	877
Shale and sandy shale	51	1,356	Lime and sandy streaks	120	997
Broken, gray sand	8	1,364	Lime and shale	338	1,335
Hard, sandy shale	63	1,427	Lime with sand and shale	325	1,660
Sand, gray, lime breaks	34	1,461	Sand with lime and shale streaks	134	1,794
Hard shale, green and blue	47	1,508	Lime and sand	148	1,942
Shale, green and blue	52	1,560	Sand	98	2,040
Sandy shale, red-blue	53	1,613	Shale	30	2,070
Hard, sandy shale	71	1,684			
Well LW-40-08-101			Well LW-40-08-801		
Owner: Robert Davis Driller: C. M. Stoner Drilling Co.			Owner: City of Abbott Driller: J. L. Myers Sons		
Soil	3	3	Topsoil	2	2
Rock	57	60	Chalk rock	112	114
Blue shale	180	240	Shale and lime streaks	404	518
Brown shale	112	352	Sandy shale	91	609
Sand	45	397	Lime	75	684
Shale	27	424	Broken lime	36	720
Sand	8	432	Lime with shale streaks	512	1,232
Shale	48	480	Sandy lime	20	1,252
Well LW-40-08-202			Broken, sandy lime	61	1,313
Owner: Mrs. B. H. Cheatham Driller: C. M. Stoner Drilling Co.			Sand	34	1,347
Soil	1	1	Broken lime	347	1,722
White rock	134	135	Sandy shale	133	1,855
Blue shale	175	310	Shale	12	1,867
Brown shale	129	439	Sandy lime	13	1,880
Sand	20	459	Sandy shale	30	1,910
Sandy shale	63	522	Broken sand	40	1,950
Sand	24	546	Sand	22	1,972
Shale	35	581	Broken sand	38	2,010
Sand	5	586	Sand	80	2,090
Shale	23	609	Lime	13	2,103

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-14-102			Well LW-40-14-201—Continued		
Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons			Lime	419	869
Surface	4	4	Lime - shale	56	925
Clay	14	18	Lime	15	940
Gravel	7	25	Lime - shale	19	959
Lime	156	181	Sandy lime	21	980
Lime with shallow shale breaks	74	255	Sandy shale	21	1,001
Hard lime	145	400	Lime	34	1,035
Sandy shale	34	434	Sandy lime	21	1,056
Lime	36	470	Lime	24	1,080
Shale	15	485	Shale	28	1,108
Lime	335	820	Sand	18	1,126
Shale	16	836	Shale	43	1,169
Sandy shale	4	840	Sand	46	1,215
Sand	13	853	Sandy lime	10	1,225
Shale	5	858	Well LW-40-14-601		
Sand	22	880	Owner: Baptist Encampment Driller: Hervey Meadows and Son Well Driller		
Lime	8	888	Soil	2	2
Broken lime and shale	47	935	Clay and gravel	15	17
Sand	15	950	White rock	13	30
Rock	5	955	Blue rock	60	90
Lime and shale	34	989	White rock	50	140
Sand	21	1,010	Hard, blue rock	55	195
Hard sand	8	1,018	White lime	185	380
Sand	98	1,116	Blue shale	40	420
Hard sand	16	1,132	White lime	35	455
Shale	13	1,145	Black shale	30	485
Well LW-40-14-201			Glen Rose lime	570	1,055
Owner: Prairie Valley Presbyterian Church Driller: J. L. Myers Sons			Trinity sand	57	1,112
Surface soil	1	1	Well LW-40-14-602		
Clay - rock	5	6	Owner: Baptist Encampment Driller: Hervey Meadows and Son Well Driller		
Lime	268	274	Soil	2	2
Lime - shale	62	336	Clay and gravel	15	17
Lime	66	402	White rock	13	30
Lime - shale	15	417	Blue rock	60	90
Sand	11	428	White rock	50	140
Lime - shale	22	450	Hard, blue rock	55	195

Table 3.—Drillers' Logs of Selected Wells in Hill County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LW-40-14-602—Continued			Well LW-40-15-102—Continued		
White lime	185	380	Limestone	19	575
Blue shale	40	420	Sand	31	606
White lime	35	455	Limestone and shale	192	798
Black shale	30	485	Sandy limestone	28	826
Glen Rose lime	560	1,045	Limestone	20	846
Trinity sand	57	1,102	Limestone and shale	96	942
			Anhydrite	15	957
Well LW-40-15-101			Limestone	62	1,019
Owner: A. D. Urbanovsky Driller: C. M. Stoner Drilling Co.			Sandy limestone	61	1,080
Soil	3	3	Limestone and shale	92	1,172
Clay	15	18	Sandy limestone	76	1,248
No record	1	19	Limestone and shale	26	1,274
Slate	41	60	Shale	41	1,315
White rock	490	550	Sand and shale	55	1,370
Blue shale	20	570	Sand	40	1,410
Sandy shale (Paluxy)	20	590	Sand and shale	62	1,472
White rock	480	1,070	Shale	13	1,485
Blue shale	80	1,150			
Sandy shale	4	1,154	Well LW-40-15-201		
Sand	19	1,173	Owner: Menlow Water Supply Corp. Driller: C. M. Stoner Drilling Co.		
Green shale	6	1,179	Soil	2	2
Sandy shale	16	1,195	Yellow clay	38	40
Sand	26	1,221	Sandy shale	40	80
Sandy shale	65	1,286	Blue shale	180	260
Sand	211	1,497	White rock	490	750
			Sand	20	770
Well LW-40-15-102			Lime rock	555	1,325
Owner: Aquilla Water Supply Corp. Driller: J. L. Myers Sons			Sandy lime	25	1,350
Soil	12	12	Sand	50	1,400
Clay	6	18	Blue shale	50	1,450
Sandy clay	13	31	Broken sand and shale	25	1,475
Clay and rock	11	42	Sand	43	1,518
Shale	48	90	Red bed	12	1,530
Limestone and shale	28	118	Broken sand and red bed	10	1,540
Limestone	72	190	Red bed	30	1,570
Limestone and shale	366	556	Sand	130	1,700

HILL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well LW-32-53-701		Well LW-32-54-701		Well LW-32-55-902	
Owner: U.S. Army Corps of Engineers		Owner: Gulf Oil Corp.		Owner: City of Itasca	
Apr. 13, 1963	+ 3	Feb. 18, 1965	179.10	Apr. 20, 1939	133
Mar. 23, 1966	23.17	Mar. 11, 1966	175.50	Feb. 17, 1965	198.00
Apr. 17, 1967	22.46	Mar. 24, 1967	181.26	Dec. 30, 1965	146.63
Mar. 18, 1968	23.73	Mar. 19, 1968	183.25	Mar. 11, 1966	219.33
Mar. 7, 1969	39.70	Mar. 7, 1969	189.10	Mar. 8, 1967	218.01
Well LW-32-53-902		Well LW-32-55-304		Mar. 20, 1968	221.23
Owner: Blum Water Supply Corp.		Owner: Sam Gard		Mar. 3, 1969	237.7
Sept. 28, 1964	150	July 19, 1964	85	Well LW-32-55-909	
Feb. 18, 1965	123.96	Dec. 21, 1965	67.36	Owner: Ernest Whitfield	
Mar. 11, 1966	117.90	Sept. 7, 1966	58.21	Dec. 30, 1965	113.28
Mar. 24, 1967	130.40	Sept. 26, 1966	58.16	Mar. 25, 1968	113.52
Mar. 20, 1968	129.51	Oct. 27, 1966	57.70	Well LW-32-56-902	
Mar. 7, 1969	132.65	Nov. 21, 1966	58.06	Owner: A. G. Bailey	
Well LW-32-54-501		Feb. 7, 1967	58.75	Sept. 16, 1964	480
Owner: Edith Hood		Mar. 8, 1967	62.07	Dec. 30, 1965	384.95
May 18, 1960	19	June 2, 1967	62.23	Well LW-32-61-201	
Mar. 11, 1966	27.13	June 27, 1967	61.15	Owner: Brazos Lime Co.	
Apr. 17, 1967	18.78	July 31, 1967	59.54	Apr. 22, 1964	165
Mar. 18, 1968	17.75	Sept. 13, 1967	64.00	Feb. 17, 1965	170
Mar. 4, 1969	18.30	Oct. 9, 1967	64.50	Mar. 11, 1966	143.05
Well LW-32-54-601		Nov. 6, 1967	60.86	Mar. 24, 1967	167.79
Owner: R. A. Harris		Dec. 7, 1967	57.59	Mar. 20, 1968	161.13
Aug. 31, 1958	175	Jan. 11, 1968	55.47	Mar. 7, 1969	172.10
Nov. 19, 1964	299.33	Feb. 12, 1968	53.45	Well LW-32-62-302	
Apr. 19, 1966	355.49	Mar. 3, 1969	62.10	Owner: Ed Allen	
Apr. 18, 1967	330.24	Well LW-32-55-601		Jan. 16, 1964	175
Mar. 20, 1968	303.15	Owner: — Morris		Mar. 10, 1966	159.00
Mar. 4, 1969	358.7	Dec. 15, 1965	125.62	Apr. 17, 1967	161.63
		Dec. 5, 1966	124.63	Mar. 18, 1968	163.72
		Mar. 8, 1967	114.73	Mar. 4, 1969	171.10

HILL COUNTY

Table 4.—Water Levels in Selected Wells

Water levels: Reported water levels are given to the nearest foot; measured water levels are given to the nearest tenth or hundredth of a foot. Measurements are above (+) or below land surface.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well LW-32-53-701		Well LW-32-54-701		Well LW-32-55-902	
Owner: U.S. Army Corps of Engineers		Owner: Gulf Oil Corp.		Owner: City of Itasca	
Apr. 13, 1963	+ 3	Feb. 18, 1965	179.10	Apr. 20, 1939	133
Mar. 23, 1966	23.17	Mar. 11, 1966	175.50	Feb. 17, 1965	198.00
Apr. 17, 1967	22.46	Mar. 24, 1967	181.26	Dec. 30, 1965	146.63
Mar. 18, 1968	23.73	Mar. 19, 1968	183.25	Mar. 11, 1966	219.33
Mar. 7, 1969	39.70	Mar. 7, 1969	189.10	Mar. 8, 1967	218.01
Well LW-32-53-902		Well LW-32-55-304		Mar. 20, 1968	221.23
Owner: Blum Water Supply Corp.		Owner: Sam Gard		Mar. 3, 1969	237.7
Sept. 28, 1964	150	July 19, 1964	85	Well LW-32-55-909	
Feb. 18, 1965	123.96	Dec. 21, 1965	67.36	Owner: Ernest Whitfield	
Mar. 11, 1966	117.90	Sept. 7, 1966	58.21	Dec. 30, 1965	113.28
Mar. 24, 1967	130.40	Sept. 26, 1966	58.16	Mar. 25, 1968	113.52
Mar. 20, 1968	129.51	Oct. 27, 1966	57.70	Well LW-32-56-902	
Mar. 7, 1969	132.65	Nov. 21, 1966	58.06	Owner: A. G. Bailey	
Well LW-32-54-501		Feb. 7, 1967	58.75	Sept. 16, 1964	480
Owner: Edith Hood		Mar. 8, 1967	62.07	Dec. 30, 1965	384.95
May 18, 1960	19	June 2, 1967	62.23	Well LW-32-61-201	
Mar. 11, 1966	27.13	June 27, 1967	61.15	Owner: Brazos Lime Co.	
Apr. 17, 1967	18.78	July 31, 1967	59.54	Apr. 22, 1964	165
Mar. 18, 1968	17.75	Sept. 13, 1967	64.00	Feb. 17, 1965	170
Mar. 4, 1969	18.30	Oct. 9, 1967	64.50	Mar. 11, 1966	143.05
Well LW-32-54-601		Nov. 6, 1967	60.86	Mar. 24, 1967	167.79
Owner: R. A. Harris		Dec. 7, 1967	57.59	Mar. 20, 1968	161.13
Aug. 31, 1958	175	Jan. 11, 1968	55.47	Mar. 7, 1969	172.10
Nov. 19, 1964	299.33	Feb. 12, 1968	53.45	Well LW-32-62-302	
Apr. 19, 1966	355.49	Mar. 3, 1969	62.10	Owner: Ed Allen	
Apr. 18, 1967	330.24	Well LW-32-55-601		Jan. 16, 1964	175
Mar. 20, 1968	303.15	Owner: — Morris		Mar. 10, 1966	159.00
Mar. 4, 1969	358.7	Dec. 15, 1965	125.62	Apr. 17, 1967	161.63
		Dec. 5, 1966	124.63	Mar. 18, 1968	163.72
		Mar. 8, 1967	114.73	Mar. 4, 1969	171.10

Table 4.—Water Levels in Selected Wells in Hill County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
Well LW-32-62-401		Well LW-32-62-901—Continued		Well LW-32-64-301—Continued		
	Owner: T. E. Harris	Mar.	24, 1967	16.72	Apr. 18, 1967	472.17
June 22, 1960	125	Mar.	18, 1968	13.14	Mar. 25, 1968	475.81
Mar. 10, 1966	153.05	Well LW-32-63-301		Well LW-32-64-702		
Sept. 7, 1966	157.41	Owner: C. M. Myers		Owner: Certain - Teed Production Corp.		
Sept. 26, 1966	158.38	Jan.	25, 1962	135	Dec. 11, 1962	232
Oct. 27, 1966	157.61	Dec.	21, 1965	128.24	Apr. 17, 1967	340.17
Nov. 21, 1966	157.89	Mar.	8, 1967	124.07	Mar. 25, 1968	379.50
Feb. 7, 1967	157.87	Mar.	25, 1968	121.61	Mar. 10, 1969	390.6
Mar. 24, 1967	159.10	Mar.	3, 1969	120.90		
May 8, 1967	158.06	Well LW-32-63-403		Well LW-33-57-402		
June 2, 1967	158.38	Owner: Joe Esmond		Owner: Brandon - Irene Water Supply Corp.		
June 27, 1967	158.96	Nov.	15, 1965	230	May 26, 1966	181.4
Sept. 13, 1967	162.81	Oct.	7, 1968	230.50	Mar. 25, 1968	227.60
Nov. 6, 1967	161.21	Well LW-32-63-910		Well LW-33-57-601		
Dec. 7, 1967	161.00	Owner: City of Hillsboro		Owner: City of Mertens		
Jan. 11, 1968	161.05	Nov.	5, 1941	135	Aug. 12, 1930	60
Feb. 12, 1968	162.10	Jan.	26, 1949	221	Mar. 5, 1966	190.00
Mar. 18, 1968	161.32	Oct.	7, 1968	385.30	Apr. 13, 1967	299.75
Mar. 6, 1969	171.30	Mar.	10, 1969	428.7	Mar. 26, 1968	306.20
Well LW-32-62-501		Well LW-32-63-912		Well LW-39-01-602		
Owner: Griffin Rogers		Owner: Hillsboro Cotton Mill		Owner: Malone Water Supply Corp.		
July 13, 1960	3	June 27, 1960	115	Sept. 30, 1964	Flowed	
Mar. 10, 1966	8.57	Apr. 17, 1967	113.68	May 16, 1967	13.96	
Mar. 24, 1967	8.71	Mar. 18, 1968	119.70	Mar. 20, 1968	23.28	
Mar. 18, 1968	8.33	Mar. 10, 1969	114.00	Mar. 3, 1969	29.30	
Mar. 4, 1969	6.50	Well LW-32-64-102		Well LW-39-09-201		
Well LW-32-62-701		Owner: Boyd "Buck" Bailey		Owner: City of Penelope		
Owner: Lonnie Allen		Dec.	15, 1965	221.90	May 24, 1960	18
Mar. 9, 1966	125.10	Apr.	26, 1966	217.05	May 16, 1967	101.84
Mar. 24, 1967	132.21	Sept.	7, 1966	216.07	Mar. 25, 1968	111.00
Mar. 18, 1968	134.50	Sept.	26, 1966	213.43	Mar. 3, 1969	117.60
Mar. 7, 1969	142.75	Oct.	27, 1966	213.2		
Well LW-32-62-901		Well LW-32-64-301				
Owner: W. T. Allison		Owner: D. O. Clinkscapes				
July 14, 1960	14.00	June 14, 1963	435			
Mar. 10, 1966	15.23	Dec. 30, 1965	469.16			

Table 4.—Water Levels in Selected Wells in Hill County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Well LW-39-09-901		Well LW-40-06-104		Well LW-40-14-102	
Owner: City of Mt. Calm		Owner: Lake Whitney Enterprises		Owner: U.S. Army Corps of Engineers	
Dec. 9, 1964	123.30	July 8, 1958	30	Mar. 22, 1949	Flowed
Mar. 2, 1966	129.46	Mar. 8, 1966	84.25	1964	Flowed
Apr. 13, 1967	137.59	Mar. 6, 1969	104.49	Mar. 9, 1966	16.19
Mar. 26, 1968	145.08			Sept. 7, 1966	31.09
Mar. 6, 1969	160.00	Well LW-40-06-501		Sept. 26, 1966	26.85
Well LW-39-10-201		Owner: City of Whitney		Oct. 27, 1966	25.86
Owner: City of Hubbard		Mar. 5, 1942	Flowed	Nov. 21, 1966	26.71
June 28, 1960	200	Mar. 22, 1949	0	Feb. 7, 1967	24.83
Mar. 19, 1965	137.91	June 16, 1960	50	Mar. 13, 1967	24.64
Apr. 9, 1965	139.66	May 15, 1963	87.00	Apr. 17, 1967	27.09
Mar. 2, 1966	146.34	Mar. 8, 1966	120.08	May 8, 1967	26.77
Apr. 13, 1967	152.90	Well LW-40-06-801		June 2, 1967	30.13
Well LW-39-10-202		Owner: Lake Whitney Enterprises		Oct. 9, 1967	34.27
Owner: City of Hubbard		Mar. 8, 1966	58.67	Nov. 6, 1967	33.23
June 28, 1960	200	Mar. 13, 1967	110.2	Dec. 7, 1967	31.00
Apr. 9, 1965	136.26	Mar. 19, 1968	116.2	Jan. 11, 1968	31.74
Sept. 7, 1966	153.05	Mar. 6, 1969	145.7	Feb. 12, 1968	31.29
Sept. 26, 1966	153.19	Well LW-40-07-801		Mar. 18, 1968	30.90
Oct. 27, 1966	154.32	Owner: Cox and McIlroy		Mar. 6, 1969	38.55
Nov. 21, 1966	154.95	July 12, 1960	50	Well LW-40-14-201	
Feb. 7, 1967	157.02	Mar. 7, 1966	213.51	Owner: Prairie Valley Presbyterian Church	
Apr. 13, 1967	158.49	Sept. 7, 1966	204.75	Mar. 8, 1966	83.77
May 8, 1967	159.20	Sept. 26, 1966	207.62	Mar. 13, 1967	81.47
June 2, 1967	160.19	Oct. 27, 1966	207.52	Mar. 4, 1969	93.94
June 27, 1967	160.71	Mar. 13, 1967	205.79	Well LW-40-14-602	
July 31, 1967	161.62	June 27, 1967	205.02	Owner: Baptist Encampment	
Sept. 13, 1967	162.31	Sept. 13, 1967	206.78	May 17, 1960	Flowed
Oct. 9, 1967	163.04	Oct. 9, 1967	206.64	Mar. 9, 1966	42.45
Nov. 6, 1967	164.15	Nov. 6, 1967	207.62	Apr. 14, 1967	59.42
Dec. 7, 1967	164.54	Jan. 11, 1968	206.98	Mar. 18, 1968	57.85
Jan. 11, 1968	165.11	Feb. 12, 1968	206.54	Mar. 4, 1969	63.45
Feb. 12, 1968	166.24	Mar. 18, 1968	206.16		
Mar. 6, 1969	175.90	Mar. 4, 1969	213.50		

Table 4.—Water Levels in Selected Wells in Hill County—Continued

DATE	WATER LEVEL	DATE	WATER LEVEL
Well LW-40-15-102		Well LW-40-15-201	
Owner: Aquilla Water Supply Corp.		Owner: Menlow Water Supply Corp.	
Jan. 1960	62	Nov. 19, 1965	170
Mar. 9, 1966	79.00	Apr. 14, 1967	183.42
May 16, 1967	101.43	Mar. 19, 1968	189.95
Mar. 18, 1968	100.76	Mar. 4, 1969	200.60

HOOD COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
LY-32-41-903	DeSoto Oil Co.	B. W. Wann No. 1	1952	5,083	788	E
42-202	Mid-Continent Petroleum	Squaw Creek Cattle Co. No. 1	1950	5,578	911	E
43-102	B. W. Fitzgerald	Van Morrison No. 1	1951	4,507	866	E

JOHNSON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
PX-32-37-402	Warren Petroleum Corp.	H. D. Hanna No. 1	1955	3,723	931	E
47-603	Shell Oil Co.	B. W. Goodwin No. 1	1965	1,570	685	E

JOHNSON COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well PX-32-46-201			Well PX-32-46-201—Continued		
Owner: Johnson County Water Supply Corp. Driller: C. M. Stoner Drilling Co.			Red bed	45	1,380
Soil	1	1	Sandy red bed	15	1,395
Clay	7	8	Sand	115	1,510
Sand and shale	32	40	Yellow shale	8	1,518
Blue shale	35	75	Well PX-32-54-101		
Sand	25	100	Owner: Wallis Simpson Driller: C. M. Stoner Drilling Co.		
Sandy shale	30	130	White rock	410	410
Sand	15	145	Sandy shale	20	430
White rock	505	650	Sandy	20	450
Sand	40	690	Sandy shale	10	460
Sandy shale	30	720	Sand	45	505
Sand	42	762	Lime rock	425	930
Lime	433	1,195	Sand	20	950
Broken sand and red bed	45	1,240	Shale	20	970
Sand	30	1,270	Sand	60	1,030
Broken sand and red bed	20	1,290	Red bed	60	1,090
Red bed	25	1,315	Broken sand and red bed	15	1,105
Sandy red bed	20	1,335	Sand	90	1,195
			Mixed shales	20	1,215

LAMPASAS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
RW-41-53-105	Sunshine Oil Co.	Mrs. Addie Morgan No. 1	1928	896	1,330	D
201	Western Lampasas Bisbee Oil Co.	Lula Whittenburg No. 1	Before 1918	4,180	1,450	D
55-401	Resser and Pendleton, Inc.	W. H. Bunch No. 1	1927	3,006	1,250	D
63-101	Jones	Jones Oil Test No. 1	—	2,000	1,140	R
64-606	Claud B. Hamill	H. G. Glover No. 1	1949	1,553	900	S
701	Robert L. Guyler	Patterson No. 1	—	335	1,000	R

LAMPASAS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-40-57-401			Well RW-41-45-902—Continued		
Owner: Jackie Hyman			Red rock	2	310
Driller: Gus Barrington Drilling and Pump			No record	7	317
Surface	2	2	Rock	1	318
Hard rock	6	8	Well RW-41-48-503		
Caliche and rock	14	22	Owner: Elmer Chambers		
Hard rock	6	28	Driller: Fowler Drilling Co.		
Lime and shale	27	55	Cavy mud and fine sand	415	415
Blue shale and lime	35	90	Limestone and water sand	35	450
Hard, white rock	7	97	Well RW-41-53-105		
Water sand (10 gpm +)	10	107	Owner: Mrs. Adolie Morgan		
Hard, gray rock	3	110	Driller: Sunshine Oil Co.		
Well RW-41-45-902			Yellow clay	32	32
Owner: T. E. Winters			Gravel	3	35
Driller: Smart Drilling and Supply			Blue shale	82	117
Yellow clay and rock	30	30	Gray lime	3	120
Blue and gray shale	27	57	Blue shale	30	150
Pink and purple, soft	8	65	Sandy shale	20	170
Light pink lime	10	75	Blue shale	20	190
Light gray	5	80	Sandy shale	15	205
Gray lime	45	125	Blue shale	73	278
Green, sandy, gummy	2	127	Gray lime	5	283
Green, sandy, gummy	3	130	Sandy shale	35	318
Soft, gray lime	20	150	Water sand, 2 bph	63	381
Hard rock	15	165	Blue shale	36	417
Brown rock	11	176	White lime	143	560
Soft, brown rock	4	180	Blue lime	40	600
Brown, mix rock	18	198	Black slate	4	604
Rock, soft	3	201	Blue lime	6	610
Softer tan, brown, may cave	9	210	Blue shale	4	614
Rock, tan	20	230	White lime	76	690
Flint and other color rock	15	245	Blue lime	45	735
Rock, softer	5	250	Black slate	3	738
Hard, flint rock	28	278	White lime	57	795
Softer rock, red	12	290	Black slate	93	888
Red rock	13	303	Ellenburger lime, white	8	896
Water gravel, rose 100 ft.	5	308			

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-201			Well RW-41-53-303—Continued		
Owner: Lula Whittenburg Driller: Western Lampasas Bisbee Oil Co. (Partial log)			Blue shale and soft limestone	25	85
			Red rock	125	210
Soil	6	6	Water sand (6 gpm)	8	218
Chalk, lime	54	60	Red rock	52	270
Red sand	25	85	Red bed	10	280
Little water	25	110	Red rock	7	287
Yellow gravel	40	150	Water sand	15	302
Brown shale	30	180			
White shale	20	200	Well RW-41-53-304		
Gravel, water	8	208	Owner: City of Lometa Driller: J. L. Myers Sons		
Blue shale	112	320	Surface soil	2	2
Blue, sandy shale	18	338	Clay and shell	9	11
Blue shale	2	340	Rock and clay	16	27
Blue, sandy shale	30	370	Sand and gravel	6	33
White lime	164	534	Rock	5	38
Well RW-41-53-301			Sandy lime and shale	14	52
Owner: City of Lometa Driller: — Cass			Rock and shale	18	70
			Rock	2	72
Soft, white rock	80	80	Sandy shale	18	90
Gray shale	20	100	Shale	12	102
Austin chalk	100	200	Lime rock	7	109
Red clay	8	208	Shale and rock	71	180
Gray slate	30	238	Lime rock	19	199
Light brown clay	15	253	Sand rock	9	208
Soft, porous, red rock	18	271	Water sand	5	213
Red sand, gravel, hard	26	297	Shale	10	223
Gravel	80	377	Sand rock	14	237
Hard, brown sand rock	40	417	Sandy lime	40	277
Hard sand	80	497	Sandy lime	5	282
No record	64	561	Sandy shale	3	285
No record	39	600	Lime and shale	32	317
Well RW-41-53-303			Gravel and rock	8	325
Owner: City of Lometa Driller: Ross Smart			Rock, gravel, and sand	37	362
			Rock	3	365
Clay	30	30	Sandy shale	14	379
Blue shale and soft limestone	25	55	Sand rock	21	400
Tight, water sand (2 bpd)	5	60	Rock	5	405

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-304—Continued			Well RW-41-53-306—Continued		
Shale	20	425	Gray shale	49	91
Lime and shale	11	436	Red shale	6	97
Rock	4	440	Gray shale	37	134
Sandy lime	2	442	Blue shale	3	137
Shale and rock	37	479	Gray shale	58	195
Rock	16	495	Gray sand and shale	55	250
Sandy shale	50	545	Gray sand	15	265
Sand rock	7	552	Red sand	3	268
Sand	23	575	Red bed	8	276
Sandy lime	5	580			
Shale	15	595	Well RW-41-53-312		
Sandy lime and shale	44	639	Owner: City of Lometa Driller: Ollie Vernon Clary		
Shale	9	648	Surface soil	1	1
Lime and shale	27	675	Clay	6	7
			Sand rock	2	9
Well RW-41-53-305			Caliche and gravel	16	25
Owner: City of Lometa Driller: Ollie Vernon Clary			Blue shale	25	50
Surface soil	1	1	Gray shale	40	90
Clay and caliche	19	20	Brown shale	10	100
Clay and gravel	9	29	Blue and gray shale	120	220
Brown lime rock	5	34	Brown sand rock	20	240
Brown shale	8	42	Sand (10 gpm)	5	245
Gray shale	50	92	Yellow lime rock - hard	10	255
Red shale	9	101	Sand - more water	2	257
Gray shale	31	132	Brown sand rock	83	340
Blue shale	16	148	Sand and gravel - water	5	345
Gray shale	45	193	Brown sand rock	15	360
Gray sand and shale	34	227			
Red shale and sand	30	257	Well RW-41-53-313		
Sand and gravel	13	270	Owner: City of Lometa Driller: Tom Grozier		
Red bed	15	285	Caliche and clay	45	45
			Chalky lime	15	60
Well RW-41-53-306			Blue shale	10	70
Owner: City of Lometa Driller: Ollie Vernon Clary			Sandy shale	5	75
Surface soil	1	1	Red bed	20	95
Yellow clay	20	21	Blue shale	50	145
Clay and gravel	9	30	Gray shale	50	195
Brown shale and lime	12	42	Sand	50	245

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-313—Continued			Well RW-41-53-318—Continued		
Cave	2	247	Brown sand and water (3 gpm)	3	257
Coarse sand	29	276	Brown sand rock	29	286
Well RW-41-53-317			Gray sand - more water	6	292
Owner: City of Lometa			Hard, yellow lime rock	24	316
Driller: Ollie Vernon Clary			Gray lime rock and shale	68	384
Surface soil	1	1	Black shale	2	386
Gray lime rock	17	18	Well RW-41-53-319		
Blue shale	13	31	Owner: City of Lometa		
Gray lime	9	40	Driller: Ollie Vernon Clary		
Gray shale	18	58	Surface soil	2	2
Red bed	25	65	Caliche and clay	15	17
Gray shale and sandy shale	75	140	Lime rock	13	30
Sand (1/2 gpm)	2	142	Gray and blue shale	18	48
Gray, sandy shale	38	180	Gray shale and sand rock	67	115
Sand (1 gpm)	3	183	Brown, sandy shale	15	130
Brown sand rock	68	251	Gray, sandy shale	87	217
Brown clay and gravel	11	262	Brown sand rock and shale	37	254
Sand (14 gpm)	2	264	Brown sand - water	3	257
Gray sand rock	72	336	Brown sand rock	31	288
Yellow lime rock	4	340	Sand - more water	2	290
Sand and sand rock - more water	30	370	Yellow lime	26	316
Blue shale	10	380	Gray lime rock and sandy shale	68	384
Gray lime rock	20	400	Well RW-41-53-320		
Sand - more water	4	404	Owner: City of Lometa		
Blue shale	12	416	Driller: Ollie Vernon Clary		
Gray lime rock	16	432	Surface soil	1	1
Blue shale	3	435	Lime rock	2	3
Well RW-41-53-318			Clay	5	8
Owner: City of Lometa			Caliche	24	32
Driller: Ollie Vernon Clary			Sand rock	28	60
Surface soil	2	2	Gray, sandy shale	17	77
Caliche and clay	15	17	Blue shale	63	140
Gray lime rock	13	30	Gray sand rock	20	160
Blue and gray shale	18	48	Brown sand - water	4	164
Gray shale and sand rock	67	115	Brown sand rock	16	180
Brown sand rock	15	130	Gray sand - water	2	182
Gray, sandy shale	87	217	Gray lime rock - hard	51	233
Brown sand rock and shale	37	254	Red bed	2	235

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-53-320—Continued			Well RW-41-53-322—Continued		
Yellow lime - hard	43	278	Red, sandy rock	25	340
Gray sand - water	4	282	Black shale	10	350
Yellow lime - hard	44	326			
Well RW-41-53-321			Well RW-41-54-601		
Owner: City of Lometa Driller: J. L. Myers Sons			Owner: Don Tombaugh Driller: Smart Drilling and Supply		
No record	273	273	Blue and gray shale	70	70
Sand rock	7	280	Soft blue	20	90
Sandy lime	9	289	Yellow sand rock	20	110
Sand and gravel	2	291	Tan sand rock	16	126
Red mix, shale	5	296	Crisp sand rock, some purple	6	132
Lime, shale, rock	11	307	Crisp lime rock	22	154
Shale	9	316	Brown rock	4	158
Rock and shale	15	331	Gummy, brown, cavey	3	161
Rock	27	358	Rock	.5	161.5
Yellow clay and shale mix	12	370	Water sand, good brown	3.5	165
Shale	7	377	White, soft, lime rock	15	180
Rock	9	386	Soft, brown clay	5	185
Yellow clay	4	390	Rock, little hard	13	198
Sandy shale	16	406	Rock	2	200
Well RW-41-53-322			Well RW-41-54-702		
Owner: City of Lometa Driller: Smart Drilling and Supply			Owner: Robert Guyler Driller: Smart Drilling and Supply		
Black topsoil	3	3	Clay and rock - yellow	30	30
Clay and gravel	9	12	Soft chalk - pink	7	37
Yellow clay and rock	21	33	Shale - light gray - firm	23	60
Gray shale	28	61	Light gray shale - soft	15	85
Pink clay	9	70	Firm, gray shale	2	87
Yellow rock	8	78	Soft, gray shale	20	107
Light gray rock - gummy	25	103	Tan sand and sandstone, firm to soft 146 to 190 ft, lots of flint - some clay	91	198
Gray shale	37	140	Soft, brown clay (some flint)	37	235
Gray shale and fine shale	18	158	Soft, dark gray shale	15	250
Sandy rock	14	172	Soft, dark grayish blue shale	12	262
Tan and orange clay	28	200			
Tan rock	45	245			
Red clay rock	30	275			
Sand rock	40	315			

Table 3.—Drillers' Logs of Selected Wells in Lampasas County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well RW-41-55-401			Well RW-41-61-601		
Owner: W. H. Bunch Driller: Resser and Pendleton, Inc. (Partial log)			Owner: Darby Wright Driller: Smart Drilling and Supply		
Surface	7	7	Silt	20	20
Yellow clay	18	25	Creek gravel	25	45
White shale	50	75	Well RW-41-63-506		
Blue shale	20	95	Owner: Kaston Hodge Driller: Smart Drilling and Supply (Partial log)		
Purple shale	10	105	Clay	12	12
Lime	5	110	Yellow sand rock	19	31
Blue shale	25	135	Red rock	14	45
Lime	5	140	Red bed	10	55
Blue shale, lime	15	155	Red bed and gravel	10	65
Lime	20	175	Red bed, clay, and sand	7	72
Red rock	10	185	Brown rock (hard)	4	76
Sandy lime	40	225	Red bed and gravel	9	85
Gravel (5 boh)	10	235	Well RW-41-64-605		
Lime	20	255	Owner: C. L. Patterson Driller: Fowler Drilling Co.		
Red rock	15	270	Sand	24	24
Lime	15	285	Gray limestone	78	102
Red rock	35	320			
Blue shale	60	380			
Black shale	90	470			

MC LENNAN COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
ST-39-17-201	S. H. Riggs	Grindstaff No. 1	1951	2,030	560	E
401	Simon Korshoj	R. F. Ferguson No. 1	—	3,977	557	E
801	William H. Winn	James L. Morrow No. 1	1955	2,533	449	D,E
25-901	R. J. Caraway	Slaughter No. 1	1954	2,240	580	E
26-402	Gragg Drilling Co.	Jessie M. Thompson No. 1	1961	2,516	508	E
801	Mae Belcher	W. S. Smyth No. 1	1942	3,838	525	E
40-15-902	C. P. Quinlan	Prause No. 1	1950	970	577	E
16-502	Smith and Breyer	C. A. Russell No. 1	1955	704	617	E
503	do.	Alfred Brem No. 1	1955	776	605	E
702	Baylor University Geology Department	J. L. McCain No. 1	1959	630	595	E
24-804	C. R. Porter	E. D. Mazanec No. 1	—	1,591	467	E
28-901	Falcon Oil Corp.	Henry Mattlage Jr. No. 1	1954	7,585	762	E
29-103	E. J. Muth	Freeman No. 1	1950	2,000	733	E
37-902	Delta Drilling Co.	Carl Horstman No. 1	1939	2,258	696	E
38-301	R. C. Smith and Falcon Oil Co.	H. G. McKethan No. 1	1953	1,603	505	D,E
39-401	Beacon Oil and Refining Co.	Myrtle Trice No. 1	1956	1,809	670	E
801	Gray Oil Co.	C. B. and H. C. Warren No. 1	1950	1,700	555	D,E
40-303	Max McCotter	Wardlaw No. 1	1952	1,322	369	E
46-301	Jet Oil Co.	Wills No. 1	1953	1,129	685	E
47-101	Henry C. Paine	H. C. Eubank No. 1	1951	1,160	545	E
402	W. H. Mahon	C. W. Scott No. 1	1963	592	638	E

MC LENNAN COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-17-701			Well ST-39-17-901		
Owner: Axtell Water Supply Corp. Driller: J. L. Myers Sons			Owner: Prairie Hill Water Supply Corp. Driller: J. L. Myers Sons		
Surface soil	3	3	Topsoil	4	4
Clay	57	60	Clay	36	40
Shale	500	560	Shale	560	600
Chalk rock	220	780	Chalk rock	178	778
Shale	327	1,107	Shale	572	1,350
Sandy lime	341	1,448	Lime	288	1,638
Broken lime	512	1,960	Broken lime and shale	369	2,007
Sandy lime	188	2,148	Lime	385	2,392
Lime	212	2,360	Sandy lime	32	2,424
Sandy lime	94	2,454	Broken lime and shale	278	2,702
Broken lime	336	2,790	Lime and shale	119	2,821
Red bed and shale	29	2,819	Sand	232	3,053
Shale	144	2,963	Sand and shale	194	3,247
Sand	127	3,090	Sand	68	3,315
Shale	39	3,129	Shale	70	3,385
Well ST-39-17-801			Well ST-39-25-101		
Owner: James L. Morrow Driller: William H. Winn			Owner: Mt. Carmel Center Driller: J. L. Myers Sons		
Shale	320	320	Surface pipe	48	48
Chalk	260	580	Shale	368	416
Shale	30	610	Chalk rock	102	518
Sandy shale	10	620	Chalk and shale	261	779
Shale	50	670	Shale and lime	257	1,036
Sandy shale	50	720	Lime	1,018	2,054
Shaly lime	280	1,000	Broken sand and lime	253	2,307
Lime	100	1,100	Shale	73	2,380
Shaly lime - hard streaks	90	1,190	Sandy lime	185	2,565
Lime	50	1,240	Sand	70	2,635
Hard lime	130	1,370	Shale and sand	89	2,724
Hard shale	60	1,430	Shaly sand	51	2,775
Hard, sandy lime	35	1,465			
Hard lime	465	1,930	Well ST-39-25-102		
Hard, shaly lime	603	2,533	Owner: Elk-Oaklake Water Supply Corp. Driller: J. L. Myers Sons		
			Clay	47	47
			Shale	345	392

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-25-102—Continued			Well ST-39-25-401—Continued		
Chalk rock	248	640	Hard sand	10	2,351
Shale	380	1,020	Hard shale and lime	218	2,569
Lime	450	1,470	Fine white sand and lignite streaks	18	2,587
Lime and shale	77	1,547	Shale	9	2,596
Lime	48	1,595	Streaks of sand and shale	8	2,604
Lime and shale	237	1,832	Hard sand and streaks of shale	42	2,646
Broken shale	19	1,851	Shale	5	2,651
Lime and shale	221	2,072	Streaks of sand and shale	13	2,664
Sandy lime	40	2,112	Gray shale	66	2,730
Hard lime	25	2,137	Red shale	96	2,826
Sandy lime	19	2,156	Rock and streaks of shale	9	2,835
Lime and shale	379	2,535	Sand and streaks of shale	34	2,869
Broken sand	87	2,622	Shale	7	2,876
Shale with streaks of sand	69	2,691	Sand and streaks of shale	40	2,916
Sandy shale	15	2,706	Shale	119	3,035
Broken sand	102	2,808			
Sand and shale	97	2,905			
			Well ST-39-25-501		
Well ST-39-25-401			Owner: City of Mart Driller: J. L. Myers Sons		
			Surface soil	40	40
Owner: Texas Power and Light Co. Driller: Layne Texas Co.			Shale	500	540
Surface soil	3	3	Rock and shale streaks	65	605
Clay	22	25	Chalk rock	196	800
Shale	183	208	Shale	282	1,082
Shale and streaks of sand	61	269	Lime and shale	154	1,236
Shale	156	425	Lime	314	1,550
Lime	94	519	Shale and lime	41	1,591
Shale and streaks of lime	541	1,060	Broken lime	92	1,683
Hard lime and shale streaks	115	1,175	Lime and shale	43	1,726
Shale and streaks of lime	40	1,215	Lime	44	1,770
Lime	127	1,342	Shale and lime	180	1,950
Lime and streaks of shale	90	1,432	Lime	50	2,000
Shale and streaks of lime	227	1,659	Broken lime and shale	196	2,196
Sand	6	1,665	Lime	244	2,440
Lime and shale	451	2,116	Shale and lime	88	2,528
Sandy shale	16	2,132	Shale	22	2,550
Lime and shale	43	2,175	Lime	105	2,655
Sandy shale (hard)	17	2,192	Shale and lime	120	2,775
Lime and shale	149	2,341			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-25-501—Continued			Well ST-39-33-101—Continued		
Lime	25	2,800	Shale	146	359
Red shale and lime	50	2,850	Shale	66	425
Sandy shale and lime	75	2,925	Shale and chalk	36	461
Red shale and lime	39	2,964	Chalk	4	465
Red, sandy lime	61	3,025	Chalk	26	491
Red, sandy shale	9	3,034	Chalk	50	541
Pea gravel and fine sand	26	3,060	Chalk	11	552
Sand	75	3,135	Chalk and shale streaks	44	596
Sand with shale breaks	18	3,153	Chalk and shale with shale breaks	38	634
Sand	28	3,181	Chalk and shale	30	664
Well ST-39-25-701			Chalk and shale	39	703
Owner: H. and H. Water Supply Corp. Driller: J. L. Myers Sons			Shale and chalk streaks	22	725
			Shale and chalk streaks	54	779
Surface soil	4	4	Shale with hard streaks	57	836
Clay	64	68	Shale, hard streaks	27	863
Shale	363	431	Shale	32	895
Chalk rock	227	658	Shale	35	930
Shale	345	1,003	Shale and chalk	25	955
Lime	330	1,333	Hard shale with chalk	35	990
Broken lime	113	1,446	Shale and chalk streaks	35	1,025
Shale and lime	111	1,557	Hard shale and chalk	21	1,046
Broken lime	108	1,665	Hard shale with chalk	21	1,067
Lime and shale	175	1,840	Shale, chalk, and lime streaks	19	1,086
Broken lime	87	1,927	Shale, chalk, and lime	12	1,098
Lime and shale	116	2,043	Hard shale and lime	38	1,136
Broken lime	517	2,560	Shale, chalk, and lime streaks	63	1,199
Sandy shale	140	2,700	Shale, chalk, and lime	38	1,237
Lime and shale	80	2,780	Chalk, lime, and shale	73	1,310
Sand and shale	110	2,890	Sandy shale streaks, chalk, and lime	75	1,385
Sand	26	2,916	Sandy, shale and chalk	94	1,479
Well ST-39-33-101			Shale and lime	81	1,560
Owner: Texas Power and Light Co. Driller: Layne Texas Co.			Shale and lime	60	1,620
Clay	20	20	Shale and lime	76	1,696
Gravel	7	27	Sandy lime and shale	66	1,762
Shale	16	43	Lime and shale	40	1,802
Shale	10	53	Lime and shale	54	1,856
Shale	160	213			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-39-33-101—Continued			Well ST-40-15-901—Continued		
Shale, lime, and chalk	25	1,881	White rock	500	850
Sandy shale	28	1,909	Lime	610	1,460
Lime and shale	16	1,925	Red and green shale	25	1,485
Lime and shale	14	1,939	Sand	31	1,516
Shale and lime	40	1,979	Shale	14	1,530
Shale and lime	30	2,009	Sand	10	1,540
Lime	13	2,022	Shale	110	1,650
Lime and shale	31	2,053	Sand	200	1,850
Sandy lime and shale	49	2,102	Yellow, red sand and shale	24	1,874
Sandy lime and shale	36	2,138			
Sandy lime and shale	52	2,190	Well ST-40-16-402		
Lime and sandy shale	58	2,248	Owner: City of West Driller: J. L. Myers Sons		
Lime and sandy shale	10	2,258	Fill Dirt	4	4
Shale	42	2,300	Yellow clay	11	15
Shale and lime	36	2,336	Rock	10	25
Hard shale	30	2,366	Lime	55	80
Hard shale	34	2,400	Shale with layers of shale	286	366
Hard shale	26	2,426	Shale	30	396
Hard shale	34	2,460	Lime	72	468
Hard shale and lime	16	2,476	Rock and shale	118	586
Hard shale	42	2,518	Lime	200	786
Sandy lime, shale, and sand	58	2,576	Lime and shale	94	880
Sandy lime and shale	16	2,592	Lime	245	1,125
Sandy lime and shale	6	2,598	Sandy lime	75	1,200
Shale and lime	24	2,622	Lime and shale	30	1,230
Sand and sandy lime	50	2,672	Sandy lime	150	1,380
Sand with shale streaks	90	2,762	Lime	78	1,458
Sand and shale layers	19	2,781	Sandy lime	5	1,463
Hard shale	9	2,790	Sand	5	1,468
Hard shale	30	2,820	Lime	3	1,471
			Sand	9	1,480
Well ST-40-15-901			Hard lime	13	1,493
Owner: Bold Springs Water Supply Corp. Driller: C. M. Stoner Drilling Co.			Lime with shale streaks	51	1,544
Soil	1	1	Lime	76	1,620
Clay	7	8	Soft sandy lime	55	1,675
Sand	12	20	Hard lime and shell rock	60	1,735
Blue shale	330	350	Lime	35	1,770
			Sandy lime	10	1,780

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-16-402—Continued			Well ST-40-16-404—Continued		
Hard lime	99	1,879	Hard lime	131	1,792
Hard sandy lime	14	1,893	Water sand	208	2,000
Sand with shale streaks	68	1,961			
Hard sand with soft streaks	29	1,990	Well ST-40-16-701		
Hard sand	7	1,997	Owner: Hilltop Water Supply Corp. Driller: J. L. Myers Sons		
Coarse, hard sand	7	2,004	Surface soil	5	5
Shale	4	2,008	Clay	19	24
Well ST-40-16-403			Sand and gravel	21	45
Owner: City of West Driller: J. L. Myers Sons			Shale	64	109
			Chalk rock	295	404
Surface clay	2	2	Shale	246	650
Clay and rock	23	25	Lime and shale	156	806
Shale	415	440	Lime	182	988
Rock	88	528	Broken lime	689	1,677
Lime	339	867	Lime and shale	113	1,790
Shale	119	986	Sandy shale	17	1,807
Sand	18	1,004	Broken sand	29	1,836
Lime	392	1,396	Shale	36	1,872
Lime and shale	140	1,536	Sand and shale	9	1,881
Lime	45	1,581	Shale	26	1,907
Sandy lime	45	1,626	Broken sand	80	1,987
Lime	159	1,785	Sand	47	2,034
Broken sand	78	1,863	Sandy shale	22	2,056
Sand	123	1,986	Shale	106	2,162
Sandy lime	59	2,045	Sandy shale	5	2,167
Lime	43	2,088	Broken sand	52	2,219
Well ST-40-16-404			Shale	8	2,227
Owner: City of West Driller: Key Water Well Drilling — Development Co.			Broken sand	107	2,334
			Red bed	15	2,349
Surface soil and lime	25	25	Shale	33	2,382
Lime	1,005	1,030	Sand	43	2,425
Sand	90	1,120	Shale	5	2,430
Lime	40	1,160	Well ST-40-22-307		
Sandy lime	260	1,420	Owner: Gholson Water Supply Corp. Driller: Ward and Ward Drilling Co.		
Hard lime	80	1,500	Topsoil	1	1
Sandy lime	54	1,554	Clay, gravel, and sand	14	15
Lime	107	1,661	Yellow clay	15	30

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-22-307—Continued			Well ST-40-22-807—Continued		
Clay and gravel	34	64	White lime	25	365
Green shale	16	80	Black shale	30	395
Hard shale and gravel	4	84	Glen Rose lime	565	960
Limestone	146	230	Trinity sand	50	1,010
Limestone and shale	12	242			
Limestone	168	410	Well ST-40-22-902		
Shale	29	439	Owner: O. E. Moore Driller: Hervey Meadows and Son Well Driller		
Limestone	100	539	Soil	10	10
Slate and shale	17	556	Clay and gravel	30	40
Sandstone	6	562	Blue rock	40	80
Limestone	565	1,127	White lime	160	240
Sand	33	1,160	White lime	170	410
Slate	20	1,180	Soft, blue lime (shale)	30	440
Well ST-40-22-308			Harder lime and shale	100	540
Owner: Lacy Feed Co. Driller: Hervey Meadows and Son Well Driller			Possible water lime	20	560
Black soil	3	3	Glen Rose lime	560	1,120
Gravel and sand	12	15	Hard, tight sand (no water)	20	1,140
Yellow clay	14	29	Loose sand	60	1,200
Blue shale	43	72			
White rock	33	105	Well ST-40-24-102		
Hard, blue rock	40	145	Owner: Ross Water Supply Corp. Driller: H. B. Glass		
Hard, white lime	165	310	Coarse-grained sandy topsoil	13	13
Blue shale	95	405	Firm, calcareous, white chalk	257	270
White lime	25	430	Dark grayish-black, calcareous shale	270	540
Black shale	75	505	Dark blue-black, non-calcareous shale	92	632
Glen Rose lime	575	1,080	Firm, white, calcareous lime	8	640
Trinity sand	47	1,127	Soft, greenish shale	80	720
Well ST-40-22-807			Hard, white to buff colored, lime with dark shale streaks	148	868
Owner: Behrens Drug Co. Employees' Club Driller: Hervey Meadows and Son Well Driller			Soft, brown, chalky lime	7	875
Soil	1	1	Hard, brownish lime	25	900
White rock	13	14	Hard, white lime with black shale streaks	20	920
Clay	3	17	Hard, brownish limestone	77	997
White rock	5	22	Brown, clayish limestone	58	1,055
Blue rock	94	116	Soft chalk, white lime with dark shale streaks	45	1,100
White rock	211	327			
Blue shale	13	340			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-102—Continued			Well ST-40-24-102—Continued		
Hard, white lime with shaly shale	23	1,123	Hard, red shale with soft, green shale and fine-grained, green sandstone	5	2,109
Hard, dark gray, fossiliferous lime with black shale streaks	15	1,138	Medium to coarse-grained, brown to tan sandstone	95	2,204
Firm, white lime with sandy streaks	122	1,260	Dark brown sandstone with soft shale and white lime	10	2,214
Dark gray, sandy lime	64	1,324	Brown, medium-grained sandstone with red quartz pebbles	15	2,229
Hard, white and pinkish limestone	95	1,419	Pink, medium-grained sandstone with coarse yellow quartz grains	20	2,249
Hard, white lime with red and brown quartz grains	211	1,630	Hard, dark black shale with flint and pyrites	20	2,269
Hard, white lime with soft, gray chalky streaks	60	1,690			
Hard, white lime	115	1,805	Well ST-40-24-301		
Hard, gray, fossiliferous lime	33	1,838	Owner: Leroy-Tours-Gerald Water Supply Corp. Driller: Layne Texas Co.		
Firm, fine grained, sandy calcareous shale	37	1,875	Topsoil	50	50
Dark black shale and sandy lime	10	1,885	Brown shale, lime	108	158
Gray, sandy lime with reddish lime streaks	29	1,914	Shale and lime	102	260
Soft, black shale with sandy lime streaks	8	1,922	Chalk and lime	94	354
Soft, brown shale and soft, gray lime	32	1,954	Hard lime	82	436
Fine, gray sand with sandy, black shale	8	1,962	Lime and shale	114	550
Dark gray lime and gray shale streaks	52	2,014	Shale	446	996
Gray, calcareous shale with sandy lime	10	2,024	Hard lime	447	1,443
Dark brownish-red, fine-grained, sandy shale	10	2,034	Shale and lime	432	1,875
Fine-grained, yellowish sandstone	11	2,045	Shale and sand	291	2,166
Hard, black shale with iron pyrites and white sandstone	24	2,069	Hard lime	459	2,625
Dark red shale with fine-grained, white sandstone	5	2,074	Hard lime	28	2,653
Dark red shale with fine-grained, yellow, brown, red, and white sandstone	20	2,094	Sand	190	2,843
Firm, red shale with light brown, fine-grained sandstone	5	2,099	Hard rock	20	2,863
Light red shale with light brown, fine-grained sandstone	5	2104			
			Well ST-40-24-401		
			Owner: McLennan County WCID No. 2 Driller: J. L. Myers Sons		
			Surface	51	51
			Clay	33	84
			Rock	3	87
			Rock	116	203
			Austin chalk with shale streaks	104	307
			Shale and lime streaks	122	429
			Hard, Eagle Ford shale	140	569

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-401—Continued			Well ST-40-24-701—Continued		
Lime	68	637	Broken shale	310	350
Hard shale	21	658	Shale	300	650
Sticky shale	5	663	Lime	10	660
Lime with streaks hard shale	49	712	Shale	90	750
Shale	8	720	Broken lime and shale	470	1,220
Lime	196	916	Broken sand and lime	755	1,975
Lime with shale streaks	45	961	Lime rock	110	2,085
Lime	135	1,096	Trinity sand	209	2,294
Shale and broken lime	73	1,169	Conglomerate and red bed	29	2,323
Lime with shale streaks	135	1,304			
Lime and sand	5	1,309			
Sand	2	1,311			
Sand with streaks of lime	18	1,329	Surface soil	4	4
Lime	25	1,354	Clay	56	60
Sand	8	1,362	Shale	125	185
Lime	98	1,460	Shale - chalk rock	140	325
Lime - sandy iron - shale streaks	85	1,545	Shale	434	759
Lime	42	1,587	Lime	555	1,314
Lime with streaks of sticky shale	78	1,665	Broken lime	571	1,885
Lime	21	1,686	Sand and shale	210	2,095
Lime - shale - sandy shale breaks	85	1,771	Sand	49	2,144
White shale - lime breaks	22	1,793	Red bed	21	2,165
Lime	1	1,794	Shale	35	2,200
Shale	26	1,820	Sand and shale	46	2,246
Lime and shale	52	1,872	Sand	102	2,348
Shale - streaks sandy shale and lime	117	1,989			
Lime - shale streaks	43	2,032	No record	33	33
Shale - streaks sandy shale and lime	77	2,109	Shale	44	77
Lime and shale	80	2,189	Chalk rock	25	102
Shale	11	2,200	Lime	189	291
Lime and shale	70	2,270	Rock	219	510
			Shale	44	554
			Lime and shale	1,520	2,074
			Sandy shale	21	2,095
			Sand	258	2,353
Surface soil	6	6			
Gravel and sand	34	40			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-801			Well ST-40-24-802—Continued		
			Gravel and sand	4	13
			Yellow clay	22	35
Soil	2	2	Hard, blue shale	108	143
Sandy clay	9	11	Blue shale and chalk	23	166
Sand and gravel	8	19	Chalk	149	315
Hard, blue shale	123	142	Chalk and blue shale	86	401
Chalk	70	212	Blue shale	86	487
Chalk and shale	189	401	Black shale	140	627
Black shale	192	593	Black shale and lime	26	653
Shale and chalk	48	641	Black shale	49	702
Black shale	71	712	Shale and lime	93	795
Hard shale and lime	78	790	Lime	20	815
Gray lime and shale	34	824	Lime and shale	369	1,184
Lime	47	871	Shale and lime	613	1,797
Lime and shale	264	1,135	Lime and layers of shale	62	1,859
Shale and lime	648	1,783	Shale and lime	116	1,975
Lime and layers of shale	76	1,859	Shale, lime, and sand	11	1,986
Lime, shale, anhydrite	114	1,973	Sand and shale (Glen Rose)	40	2,026
Gray sand and layers of shale	48	2,021	Hard shale	8	2,034
Hard shale	4	2,025	Hard, sandy shale and lime	68	2,102
Hard shale and lime	66	2,091	Shale and lime	75	2,177
Hard, sandy shale and lime	14	2,105	Sand and shale	20	2,197
Hard shale and lime	65	2,170	Hard shale with thin layers of fine sand	21	2,218
Hard shale	5	2,175	Sand (few shale breaks)	18	2,236
Hard, fine, red sand	15	2,190	Hard, sticky shale	6	2,242
Brown shale and layers of sand	42	2,232	Hard shale, thin layers sand	19	2,261
Fine, gray sand	6	2,238	Sand	19	2,280
Sand and layers shale	10	2,248	Sand and layers of shale	52	2,332
Good sand	33	2,281	Sand (good)	25	2,357
Sand and thin layers of shale (good)	27	2,308	Sand and shale	9	2,366
Shale and hard sand	16	2,324	Shale	4	2,370
Good sand	30	2,354			
Hard, blue and brown shale	46	2,400	Well ST-40-24-803		
			Owner: State of Texas Driller: Layne Texas Co.		
Well ST-40-24-802			Soil	15	15
			Sand	30	45
			Blue shale and yellow clay	57	102
Soil	3	3	Blue shale	91	193
Sandy clay	6	9			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-24-803—Continued			Well ST-40-28-301—Continued		
Lime and shale	57	250	White rock	30	305
Lime	174	424	Blue shale and soapstone	60	365
Lime and shale	110	534	Paluxy sand (second water)	5	370
Shale	141	675	Black shale	5	375
Hard lime	24	699	White rock and lime	85	460
Shale and lime	179	878	Third strong water	10	470
Lime and shale	402	1,280	White lime rock	30	500
Shale and lime	386	1,666			
Lime and shale	334	2,000	Well ST-40-29-802		
Sandy shale and layers of sand and shale	20	2,020	Owner: City of Crawford Driller: Frank Baker Place		
Sandy shale	17	2,037	Soil	5	5
Sandy shale and layers of lime and shale	61	2,098	Rock and clay	14	19
Shale and sandy shale	71	2,169	Blue rock	39	58
Lime and shale and sand breaks	26	2,195	White lime (water)	34	92
Hard shale and lime and sand breaks	37	2,232	Lime and shale	216	308
Hard shale and lime	31	2,263	White lime	26	334
Blue and red shale	9	2,272	Soapstone	31	365
Layers of sand and shale	40	2,312	White rock sand (water)	3	368
Hard shale and lime	19	2,331	Shale	5	373
Hard sand	27	2,358	White lime	87	460
Sand and shale breaks	27	2,385	Soft lime (water)	10	470
Sand	30	2,415	Lime	436	906
Hard, sandy shale	11	2,426	Green, sandy shale	4	910
Hard, sandy shale and lime	26	2,452	Black shale	2	912
Hard lime and shale	17	2,469	Sand	4	916
Blue and red shale and lime	11	2,480	Hard lime	4	920
Sand	7	2,487	Trinity sand	42	962
Hard shale and sand breaks	7	2,494			
Well ST-40-28-301			Well ST-40-29-805		
Owner: Pete Palasota, Jr. Driller: Frank Baker Place			Owner: City of Crawford Driller: Fulton T. Place		
Soil and yellow clay (hard)	22	22	Chunk rock and dirt	6	6
Blue rock	38	60	Clay and chunk rock	10	16
White lime (first water)	62	122	Blue rock with lime and shale breaks	319	335
Broken, white lime and blue shale	153	275	Paluxy sand	2	337
			Glen Rose lime	572	909
			Trinity sand	32	941

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-30-201			Well ST-40-30-301—Continued		
Owner: Boots Yankie			Sand	10	1,050
Driller: Hervey Meadows and Son Well Driller			Shale	16	1,066
Soil	3	3	Sand	60	1,126
White limestone	9	12			
Yellow clay	8	20	Well ST-40-30-302		
Gray limestone	85	105	Owner: U.S. Army Corps of Engineers		
Gray shale	30	135	Driller: Ward and Ward Drilling Co.		
White limestone	100	235	Topsoil	5	5
Gray shale	80	315	Clay	7	12
Black shale	90	405	Shale	10	22
Gray shale	20	425	Lime and shale	43	65
White limestone (Glen Rose)	565	990	Lime	371	436
Hensell sand	70	1,060	Lime and shale	54	490
			Limestone	32	522
Well ST-40-30-202			Soft limestone	161	683
Owner: Baylor University Recreation Camp			Limestone	253	936
Driller: Hervey Meadows and Son Well Driller			Sandy limestone	15	951
Soil	4	4	Shale	51	1,002
Blue limestone	16	20	Limestone	52	1,054
Gray limestone	100	120	Sand	9	1,063
White limestone	95	215	Trinity water sand	77	1,140
White limestone and black shale	235	450			
White limestone	550	1,000	Well ST-40-30-603		
Trinity sand (Hensell)	75	1,075	Owner: Speegleville School		
			Driller: J. L. Myers Sons		
Well ST-40-30-301			Surface soil	6	6
Owner: U.S. Army Corps of Engineers			Clay	14	20
Driller: Ward and Ward Drilling Co.			Gravel	3	23
Topsoil	3	3	Clay	17	40
Gravel	4	7	Lime	48	88
Limestone	68	75	Broken lime	98	186
Shale	6	81	Lime	114	300
Soft limestone	34	115	Broken lime	760	1,060
Limestone	194	309	Broken lime and sand	38	1,098
Blue shale	49	358	Sand and lime streaks	19	1,117
Limestone	142	500	Broken sand	11	1,128
Shale and limestone	124	624	Hard sand	18	1,146
Limestone	295	919			
Soft limestone	121	1,040			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-30-604			Well ST-40-30-607		
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Owner: E. M. Davis Driller: Hervey Meadows and Son Well Driller		
Topsoil	4	4	Soil	3	3
Gravel	26	30	Yellow clay, little gravel	14	17
Limestone	145	175	White rock	14	31
Soft limestone	87	262	Blue rock	64	95
Hard limestone	141	403	White rock	70	165
Shale and rock	564	967	Hard, blue-brown rock	205	370
Soft limestone	115	1,082	Blue shale	25	395
Sand	89	1,171	White rock	20	415
Well ST-40-30-605			Black shale	55	470
Owner: Bud Curtain Driller: Hervey Meadows and Son Well Driller			Glen Rose lime	600	1,070
Black soil	4	4	Green shale	7	1,077
Yellow clay	13	17	Trinity sand	53	1,130
White rock	13	30	Well ST-40-30-901		
Blue rock	42	72	Owner: M. M. O'Dowd Driller: J. L. Myers Sons		
White rock	59	131	Surface soil	3	3
Hard, white rock	189	320	Clay, gravel	12	15
Blue shale	55	375	Lime	37	52
White rock	20	395	Lime, shale	123	175
Black shale	65	460	Broken lime	97	272
Glen Rose lime	610	1,070	Lime and shale	608	880
Trinity sand	50	1,120	Broken lime	83	963
Well ST-40-30-606			Lime	9	972
Owner: Dr. Paul C. Murphy Driller: Hervey Meadows and Son Well Driller			Sandy lime	12	984
Soil	4	4	Lime	46	1,030
White rock	5	9	Sand	59	1,089
Yellow clay	12	21	Broken lime	96	1,185
White rock	11	32	Red bed	12	1,197
Blue rock	58	90	Broken sand	32	1,229
White rock	215	305	Sandy lime	13	1,242
Hard, blue rock	65	370	Sand	9	1,251
White lime	20	390	Sandy lime	19	1,270
Black shale	80	470	Sand	22	1,292
Glen Rose lime	590	1,060	Clay	20	1,312
Trinity sand	70	1,130	Broken sand	23	1,335
			Black shale	25	1,360

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-101			Well ST-40-31-101—Continued		
Owner: City of Waco Driller: Layne Texas Co.			Sand	21	1,490
Black surface soil	5	5	Hard lime and sand	8	1,498
Yellow clay and sand	16	21	Hard lime and lime streaks	87	1,585
Hard, lime rock	4	25	Hard lime and shale	15	1,600
Hard, gray shale	73	98	Well ST-40-31-102		
Hard, gray lime	64	162	Owner: City of Waco Driller: Layne Texas Co.		
Hard, gray lime streaks and gray shale	97	259	Black surface soil	5	5
Hard sand and shell	3	262	Yellow clay and sand	16	21
Hard, gray lime rock and gray shale	12	274	Hard, lime rock	5	26
Hard, gray lime	159	433	Hard, gray shale	26	52
Hard, gray shale and gray lime	250	683	Lime rock (very hard)	5	57
Hard, gray lime and gray shale	124	807	Sandy clay	5	62
Soft, gray shale and gray shale	3	810	Hard, gray shale	27	89
Hard, gray lime	96	906	Hard, brown lime and gray shale	64	153
Crystalized shale and lime and gray shale	3	909	Hard, gray shale and hard lime	121	274
Hard, gray lime	103	1,012	Lime shell and lime rock	15	289
Hard, gray lime, thin streaks hard sand and shale (very rough)	49	1,061	Hard, gray lime rock	3	292
Hard, gray shale and gray lime	142	1,203	Hard, gray lime and gray shale	465	757
Fine, gray sand - cut good	27	1,230	Shale and sand streaks and gray shale	4	761
Fine, gray sand, streaks	10	1,240	Hard, gray lime	139	900
Hard, gray shale and lime, streaks of fine sand	27	1,267	Hard, gray lime rock	8	908
Hard, gray shale	52	1,319	Shale, sand streaks	6	914
Fine, gray sand	19	1,338	Hard, gray lime and hard, gray shale	80	994
Hard, gray shale and lime, streaks of gray sand	19	1,357	Hard, gray lime rock	17	1,011
Hard, gray lime rock	4	1,361	Hard, gray shale, streaks of lime	67	1,078
Fine, gray sand	5	1,366	Hard, gray lime and hard, gray shale	48	1,126
Hard, pink shale and lime streaks	21	1,387	Sand, streaks of shale	4	1,130
Hard, gray shale and lime	9	1,396	Hard, gray lime rock	39	1,169
Broken sand and shale	37	1,433	Hard, gray lime, layers shale	18	1,187
Hard shale	5	1,438	Sand (cut good)	3	1,190
Broken sand and shale	31	1,469	Hard lime	2	1,192
			Fine, gray sand (cut good)	20	1,212
			Fine, gray sand, lime and shale	10	1,222

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-102—Continued			Well ST-40-31-403—Continued		
Hard, lime rock	2	1,224	Shale	76	416
Hard, gray shale, streaks sand and lime	31	1,255	Limestone	542	958
Hard, gray shale and lime	60	1,315	Soft limestone	135	1,093
Fine, gray sand and streaks sand and lime	15	1,330	Sand	99	1,192
Hard shale and lime	12	1,342	Well ST-40-31-501		
Hard, gray shale and lime	37	1,379	Owner: City of Waco Driller: J. L. Myers Sons		
Sand, shale streaks	10	1,389	Rock	146	146
Hard, gray shale and lime	19	1,408	Rock and shale	466	612
Sand, broken with shale and lime	20	1,428	Lime	520	1,132
Hard shale	10	1,438	No record	110	1,242
Sand (cut good)	18	1,456	Lime and shale	121	1,363
Sand, hard lime and shale	19	1,475	Lime	156	1,519
Hard, gray lime	4	1,479	No record	80	1,599
Hard, gray and pink shale and lime	21	1,500	Lime	65	1,664
Hard, gray lime and shale with streaks of hard, fine sand	40	1,540	Sand	26	1,690
Well ST-40-31-402			Sandy lime	34	1,724
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Lime	51	1,775
			No record	55	1,830
			Lime	4	1,834
			Sandy lime	16	1,850
Topsoil	5	5	Lime	46	1,896
Clay	12	17	Sand	14	1,910
Gravel	7	24	Shale	12	1,922
Gray shale	66	90	Sandy lime	48	1,970
Limestone	462	552	Sand and lime	78	2,048
Soft limestone	422	974	Shale	12	2,060
Shale	21	995	Lime and shale	51	2,111
Limestone	127	1,122	Sandy lime	40	2,151
Trinity water sand	62	1,184	Well ST-40-31-503		
Well ST-40-31-403			Owner: City of Waco Driller: E. B. Case		
Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.			Black soil	5	5
Topsoil	6	6	White shale rock and chalk	20	25
Gravel	14	20	Blue-gray lime rock, solid	80	105
Clay	10	30	Brown lime rock, very hard	10	115
Shale	4	34	Light gray lime rock, solid	70	185
Limestone	306	340	Nearly white rock	40	225

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-503—Continued			Well ST-40-31-504—Continued		
Blue rock	225	450	Sand with red and blue shale layers	59	2,055
Blue soapstone or slate	300	750			
White rock with shale, gray mud	200	950	Hard, sandy shale	5	2,060
Soapstone (slate)	15	965	Sand	11	2,071
White rock	35	1,000	Shale	29	2,100
White rock with shale, gray mud	95	1,095	Hard, sandy shale	16	2,116
White, hard rock	555	1,650	Hard sand	14	2,130
Honeycomb rock, Trinity sand	52.8	1,702.8	Shale	4	2,134
			Sandy shale	16	2,150
Well ST-40-31-504			Well ST-40-31-602		
Owner: City of Waco Driller: Layne Texas Co.			Owner: Concord Laundry Driller: J. L. Myers Sons		
Black soil	4	4	Sand and gravel	2	2
Yellow clay	2	6	White dirt	8	10
Rock	16	22	Gravel and sand	8	18
Blue shale	2	24	Rock and shale	177	195
Chalk	121	145	Sandy shale	31	226
Hard shale	29	174	Shale	264	490
Lime and hard shale	95	269	Lime	61	551
Hard, blue shale	113	382	Rock	77	628
Hard, gray shale	178	560	Lime	118	746
Lime and hard shale	1,051	1,611	No record	236	982
Sandy shale	16	1,627	Sandy lime and shale	278	1,260
Sandy shale and lime	67	1,694	Sandy shale and lime	18	1,278
Lime	6	1,700	Lime	256	1,534
Sandy shale	9	1,709	Sandy lime	70	1,604
Sticky shale	15	1,724	Lime and shale	63	1,667
Fine sand and shale	24	1,748	Lime	57	1,724
Shale and sand layers	38	1,786	Sandy	39	1,763
Sand and lime layers	39	1,825	Sand and lime	52	1,815
Hard, sandy shale	39	1,864	Sandy lime	41	1,856
Sand and shale layers	16	1,880	Lime	63	1,919
Hard shale	22	1,902	Sand	52	1,971
Sand and red shale	7	1,909	Sand	117	2,088
Sand and hard shale	4	1,913	Lime	6	2,094
Sand with red and blue layers	56	1,969			
Sand and shale layers	27	1,996			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-605			Well ST-40-31-705		
Owner: — Gray Driller: — Bell			Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons		
Soil and gravel	23	23	Surface soil	13	13
Austin chalk and lime	137	160	Rock	33	46
Blue marl and shale	460	620	Shale	138	184
Limestone and marl	380	1,000	Lime and shale	1,041	1,225
Soft, blue shale	200	1,200	Sand with streaks of shale	59	1,284
Soft lime with mineral water	75	1,275	Shale	14	1,298
Hard, white lime	425	1,700	Well ST-40-31-706		
Hard lime, water, shale breaks	100	1,800	Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons		
White sand, water-bearing	50	1,850	Surface soil	3	3
Shale and shell	120	1,970	Sandy chalk	28	31
Sand with second water	213	2,183	Lime and shale	149	180
Red, blue shale with hard shell	80	2,263	Lime	232	412
Well ST-40-31-702			Lime and shale	659	1,071
Owner: Midway Water Co. Driller: J. L. Myers Sons			Shale	184	1,255
Surface soil	2	2	Sand with streaks of shale	33	1,288
Chalk ruck	121	123	Sand	14	1,302
Chalk	108	231	Shale	2	1,304
Shale	242	473	Sand	8	1,312
Lime	105	578	Shale	17	1,329
Lime and shale	715	1,293	Well ST-40-31-802		
Lime and shale streaks	84	1,377	Owner: Bryan-Maxwell-Bryan Driller: Layne Texas Co.		
Sandy lime	58	1,435	Soil	3	3
Broken lime and shale	186	1,621	Chalk	183	186
Lime	7	1,628	Shale	347	533
Sand and shale	14	1,642	Lime	55	588
Shale and lime	67	1,709	Lime and shale	44	632
Sand and sand rock	30	1,739	Lime	904	1,536
Shale	30	1,769	Shale	14	1,550
Sand	4	1,773	Shale and lime	14	1,564
Shale	29	1,802	Lime	27	1,591
Sand	32	1,834	Sand, lime and shale	31	1,622
Sandy lime	31	1,865	Soft sand	20	1,642
Sand	55	1,920	Sand and lime	10	1,652
Sandy lime	16	1,936	Sand, soft	17	1,669

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-31-802—Continued			Well ST-40-31-804—Continued		
Sand and lime	25	1,694	Broken shale	47	1,711
Sand and lime	6	1,700	Broken lime	55	1,766
Shale	14	1,714	Broken sand	98	1,864
Shale and layers of sandy shale	20	1,734	Shale	6	1,870
Shale	30	1,764	Well ST-40-31-902		
Shale and sand	6	1,770	Owner: City of Waco Driller: Fowler Construction		
Shale and red bed	17	1,787	No record	1,808	1,808
Sand	18	1,805	Sandstone	54	1,862
Sand, lime and shale	4	1,809	Shale	4	1,866
Sand, shale and red bed	16	1,825	Sandstone	28	1,894
Shale	22	1,847	Limestone	12	1,906
Sandy shale	3	1,850	Gravel	3	1,909
Shale	6	1,856	Sandstone	171	2,080
Sand	16	1,872	Black sand	131	2,211
Sand and shale	34	1,906	Rock	59	2,270
Sand	12	1,918	Red shale	82	2,352
Shale	5	1,923	Shale	8	2,360
Sand	37	1,960	Rock	50	2,410
Shale	4	1,964	Well ST-40-32-102		
Sand and shale breaks	7	1,971	Owner: City of Bellmead Driller: Layne Texas Co.		
Shale (hard)	8	1,979	Soil and clay	15	15
Shale (sandy)	29	2,008	Gravel	5	20
Shale	12	2,020	Shale	10	30
Sandy shale	9	2,029	Blue shale	54	84
Shale (hard)	11	2,040	Shale and lime	220	304
Well ST-40-31-804			Shale	264	568
Owner: Midway Water Co. Driller: J. L. Myers Sons			Shale and lime streaks	123	691
Surface soil	9	9	Lime	25	716
Chalk rock	159	168	Lime and shale	48	764
Shale	292	460	Lime and hard shale	37	801
Broken lime	114	574	Lime and shale	429	1,230
Lime	66	640	Soft lime and shale	198	1,428
Broken lime	35	675	Shale and lime	432	1,860
Lime	142	817	Shale and sandy shale	25	1,885
Broken lime	798	1,615	Sand and sandy shale breaks	40	1,925
Broken sand	49	1,664			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-102—Continued			Well ST-40-32-103—Continued		
Hard shale	51	1,976	Broken lime	45	1,478
Lime and shale	18	1,994	Sand	13	1,491
Hard shale and lime	33	2,027	Broken lime and sand	94	1,585
Hard shale	23	2,050	Lime	211	1,796
Shale and lime	59	2,109	Broken lime	94	1,890
Shale and sand	26	2,135	Sand	70	1,960
Hard shale	4	2,139	Broken sand	41	2,001
Sand and shale layers	9	2,148	Lime and shale	77	2,078
Hard sand	10	2,158	Sand and shale	102	2,180
Sand, thin shale layers	27	2,185	Broken sand	140	2,320
Hard shale	8	2,193	Shale	21	2,341
Sandy shale	24	2,217	Broken sand	29	2,370
Sand and shale breaks	15	2,232	Lime	26	2,396
Hard shale	16	2,248			
Sand	12	2,260	Well ST-40-32-104		
Broken sand	22	2,282	Owner: City of Lacy-Lakeview Driller: J. L. Myers Sons		
Hard, sandy shale	14	2,296	Surface soil and gravel	38	38
Hard shale	7	2,303	Shale	687	725
			Chalk rock	169	894
Well ST-40-32-103			Shale	76	970
Owner: City of Bellmead Driller: J. L. Myers Sons			Shale	10	980
Surface	8	8	Broken lime	70	1,050
Clay	12	20	Shale and lime	780	1,830
Gravel	31	51	Shale	263	2,093
Shale	16	67	Shale and red bed	67	2,160
Shale and lime	58	125	Broken sand	43	2,203
Lime	296	421	Sand and shale	126	2,329
Shale	349	770			
Lime	230	1,000	Well ST-40-32-201		
Broken lime	28	1,028	Owner: Frank B. Tirey Driller: J. L. Myers Sons		
Shale and lime	181	1,209	No record	48	48
Broken lime	85	1,294	Shale	227	275
Shale and lime	50	1,344	Lime	225	500
Lime	36	1,380	Shale	100	600
Lime and sand	35	1,415	No record	152	752
Lime	18	1,433	Shale	188	940
Lime and sand	35	1,415	Lime and shale	168	1,108
Lime	18	1,433	Lime	178	1,286

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-201—Continued			Well ST-40-32-403—Continued		
No record	191	1,477	Layers of shale and fine sand	30	2,114
Lime and shale	123	1,600	Sand, thin layers of shale	26	2,140
Lime	176	1,776	Hard shale	7	2,147
Lime and shale	102	1,878	Sand (good)	21	2,168
Lime	174	2,052	Layers of sand and shale	36	2,204
Lime and shale	58	2,110	Sand and thin shale breaks	40	2,244
Lime	57	2,167	Hard shale	13	2,257
Sandy lime	71	2,238	Sand	8	2,265
Sandy shale	89	2,327	Hard shale	14	2,279
Lime	21	2,348	Sand (hard)	8	2,287
Sand	115	2,463	Hard shale	5	2,292
Broken sand and shale	48	2,511	Sand	4	2,296
			Hard shale	16	2,312
Well ST-40-32-403			Well ST-40-32-404		
Owner: General Tire and Rubber Co. Driller: Layne Texas Co.			Owner: General Tire and Rubber Co. Driller: Layne Texas Co.		
Sandy clay	13	13			
Sand and gravel	5	18	Soil and clay	5	5
Gravel, thin shale breaks	4	22	Gravel and sandy clay	17	22
Shale	101	123	Shale	41	63
Chalk and shale	123	246	Shale and hard layers	27	90
Chalk	39	285	Shale and chalk	34	124
Shale and sandy shale	95	380	Chalk	51	175
Shale	271	651	Chalk and shale	60	235
Shale and lime	40	691	Shale	31	266
Lime	317	1,008	Shale	9	275
Shale and sandy shale	123	1,131	Lime and shale	65	340
Hard lime	15	1,146	Blue shale and lime	75	415
Shale and lime	130	1,276	Hard lime	5	420
Lime	50	1,326	Shale and sandy shale	75	495
Lime and shale	143	1,469	Shale and lime	22	517
Sandy shale and lime	25	1,494	Shale and sand	35	552
Hard shale and lime	95	1,589	Shale and sandy shale	53	605
Lime and shale	290	1,879	Sandy shale and gravel	38	643
Sandy shale and lime	9	1,888	Shale and lime	52	695
Glen Rose sand	37	1,925	Lime	210	905
Hard, sandy shale	16	1,941	Hard lime and shale	154	1,059
Hard shale	104	2,045	Shale and lime	21	1,080
Shale, layers of sand	39	2,084			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-404—Continued			Well ST-40-32-405—Continued		
Sandy shale and shale	60	1,140	Medium hard, light bluish rock	2	1,000
Shale and lime	48	1,188	Blue shale, medium hard	25	1,025
Shale and sandy shale	22	1,210	Hard, white rock	50	1,075
Lime and shale	260	1,470	Medium hard rock and light blue shale	95	1,170
Sandy lime and shale	53	1,523	Medium hard, blue shale	60	1,230
Shale and sandy lime	143	1,666	Hard, white rock	85	1,315
Hard, sandy lime	21	1,687	Hard, white rock, lump without cavings was balled up to the end of the bit	45	1,360
Hard lime and shale	129	1,816	Hard, white rock	105	1,465
Shale and lime	33	1,849	Medium hard, white rock	32	1,497
Shale and sandy shale	54	1,903	Hard, white rock	73	1,570
Sandy shale and sand	77	1,980	Medium hard, white rock, some water	25	1,595
Black shale	33	2,013	Hard, white rock	13	1,608
Sandy lime	15	2,028	Medium hard, white rock	50	1,658
Hard shale and lime	65	2,093	Hard, white rock, balled up on end of drill	6	1,664
Red and blue shale with sand breaks	25	2,118	Medium hard, white rock	26	1,690
Hard shale	10	2,128	Medium hard, white rock, with red particles	24	1,714
Hard shale and sandy shale	36	2,164	Medium hard and some fairly hard, white rock with little water	26	1,740
Sand	5	2,169	Traces of sand at 1,775 ft to 1,783 ft	40	1,780
Shale	9	2,178	Sand rock	5	1,785
Sand and layers of shale	38	2,216	Sand rock, bluish gray and white marl	25	1,810
Sand and hard layers	92	2,308	Shale, close and sticky	84	1,930
Hard shale	16	2,324	Alternate layers lime rock and light blue shale	8	1,938
Hard, sandy shale	17	2,341	Blue marl, sandy, sticky	2	1,940
Sandy shale and sand	18	2,359	Hard, bluish gray sand rock, very hard	8	1,948
Sand and shale layers	15	2,374	Red shale, fine sand, little water	10	1,958
Shale	2	2,376	Gray sand, with red specks, water sand	30	1,840
Well ST-40-32-405			Light gray sand, with layers sand rock, bluish gray	6	1,846
Owner: Texas Power and Light Co. Driller: Hill, Green, Dearing and Son			Shale, close and sticky	84	1,930
Surface	40	40	Alternate layers lime rock and light blue shale	8	1,938
Hard, white rock mixed with layers of blue shale	192	232	Blue marl, sandy, sticky	2	1,940
Bluish shale, medium hard	186	418	Hard, bluish gray sand rock, very hard	8	1,948
Hard, white rock, including lump of extra hard white rock found in layers	217	635	Red shale, fine sand, little water	10	1,958
Hard, white rock	245	880			
Hard, white rock	115	995			
Medium hard, white rock	3	998			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-32-405—Continued			Well ST-40-32-502—Continued		
Red water sand, very fine, mixed with red, green, and blue shale, with hard layers of gray sand or lime rock	76	2,034	Clay	31	55
			Shale	205	260
			Lime	165	425
Water sand, flows 150,000 gallons daily	14	2,048	Shale and shell	163	588
			Shale	287	875
Water sand of better quality, but mixed with red and blue shale and layers of lime rock, flows 450,000 gallons daily	52	2,100	Lime with shale	299	1,174
			Lime and shale	366	1,540
			Lime	98	1,638
Layers of dirty white lime and red shale	8	2,108	Lime and shale	83	1,721
			Lime	196	1,917
Coarse, water sand, well flowed 800,000 gallons daily	30	2,138	Lime and shale	71	1,988
			Lime	56	2,044
Fine water sand, mixed with gray shale	9	2,147	Sandy lime and shale	155	2,199
			Sandy lime	49	2,248
			Lime	32	2,280
			Sand	57	2,337
Surface soil and gravel	40	40	Broken lime	63	2,400
Shale	160	200	Sand	18	2,418
Rock	160	360	Lime	50	2,468
Chalk	100	460	Sand	32	2,500
Shale	317	777			
Lime	388	1,165	Well ST-40-37-501		
Shale	147	1,312	Owner: City of McGregor Driller: Hervey Meadows and Son Well Driller		
Lime	56	1,368	Soil	3	3
Broken lime	151	1,519	Clay and rock	22	25
Lime	404	1,923	Blue rock	15	40
Sandy shale	101	2,024	Blue shale	60	100
Shale	66	2,090	White lime	40	140
Lime	94	2,184	White lime	260	400
Broken lime	46	2,230	Glen Rose	580	980
Broken sand	170	2,400	Loose sand	70	1,050
Sand	50	2,450	Sand, shale, lime, red bed, pyrite, and sediments	290	1,340
Broken shale	43	2,493			
Well ST-40-32-502			Well ST-40-37-602		
Owner: City of Waco Driller: J. L. Myers Sons			Owner: City of McGregor Driller: Layne Texas Co.		
Gravel and clay	10	10	Black soil	3	3
Sand	14	24	Sandy chalk	17	20

Table 3.—Drillers’ Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-602—Continued			Well ST-40-37-603—Continued		
Broken lime	98	118	Clay	4	13
Hard lime	37	155	White rock	9	22
Shale and lime	26	181	Blue rock	33	55
Hard lime rock	1	182	White lime	60	115
Broken lime	7	189	Hard sand (little water)	11	126
Lime	25	214	Edwards lime	54	180
Broken lime	21	235	Gray shale	20	200
Blue shale	13	248	White lime	60	260
Shale and hard layers	19	267	Blue shale	54	314
Broken layers rock	4	271	Shale	2	316
Shale and lime	99	370	Lime shale	34	350
Lime and shale	79	449	White lime	82	432
Sandy lime	66	515	Water sand	5	437
Lime and shale	18	533	Glen Rose lime	453	890
Sandy lime	117	650	Gray shale	10	900
Lime and shale	10	660	Lime rock	68	968
Lime	33	693	Sand	50	1,018
Lime and shale	102	795	Black shale	10	1,028
Lime	103	898			
Sandy lime	46	944	Well ST-40-37-604		
Sandy lime and shale	13	957	Owner: North American Rockwell Corp., Rocketdyne Div.		
Sandy shale	25	982	Driller: Layne Texas Co.		
Sand	32	1,014	Black soil	4	4
Shale and layers of sand	38	1,052	Rock	11	15
Red bed	11	1,063	Hard and soft gray lime	125	140
Fine, white sand	9	1,072	White lime	60	200
Hard, blue shale	18	1,090	Shale and lime	18	218
Hard shale	15	1,105	Gray lime	52	270
Shale, lime, and red bed	31	1,136	Shale	15	285
Shale and sandy shale	14	1,150	Lime and shale	85	370
Lime	10	1,160	Sandy lime	16	386
Sandy shale	20	1,180	Blue shale and lime	32	418
Shale	23	1,203	Gray lime	14	432
Blue shale	47	1,250	Blue shale	13	445
Well ST-40-37-603			Lime	23	468
Owner: City of McGregor			Water sand	12	480
Driller: Hervey Meadows and Son Well Driller			White lime	56	536
Soil	1	1			
Rock	8	9			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-604—Continued			Well ST-40-37-801—Continued		
Lime and breaks of shale	42	578	Hard, gray lime	38	248
Shale	3	581	White lime and shale	9	257
Hard lime	35	616	Dark gray shale and lime	28	285
Shale	9	625	Blue shale and breaks of lime	36	321
Lime and shale	53	678	Hard, gray lime	14	335
Sandy lime	12	690	Blue shale and lime	9	344
Lime	12	702	Hard, gray lime	27	371
Shale	8	710	Blue shale and lime shells	22	393
Lime	6	716	Hard lime and shells	47	440
Shale	8	724	Gray, sandy lime	28	468
Lime	16	740	White shale and gray lime	35	503
Shale	23	763	Blue shale and lime	7	510
Lime (Glen Rose)	12	775	Gray, sandy lime	51	561
Hard, sandy lime, water	30	805	Dark gray shale and lime	8	569
Lime	14	819	Gray lime and shale	33	602
Shale	4	823	Light gray, sandy lime	33	635
Hard lime and shale	28	851	Broken sand	16	651
Gray lime and shale	11	862	Gray, sandy lime	49	700
Hard lime	52	914	Soft, shell lime	18	718
Soft lime	4	918	Light, sandy lime - soft shell	34	752
Lime and shale	5	923	Hard, sandy lime	46	798
Shells and shale	7	930	Hard lime and shale	14	812
Lime	19	949	Gray, sandy lime	18	830
Hard shells and shale	12	961	Gray shale and lime	80	910
Water - sand	54	1,015	Gray, sandy shale	11	921
Shale	29	1,044	Hard, gray lime	6	927
Well ST-40-37-801			Gray shale and lime	19	946
Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.			Hard gray lime	20	966
Rock and white lime	7	7	Green shale	5	971
Lime, shell, and clay	13	20	First Trinity water sand	51	1,022
Blue-gray lime	12	32	Sandy shale	25	1,047
Gray lime and shale	88	120	Gray, sandy lime	18	1,065
Dark and white lime	5	125	Fine, sandy lime	13	1,078
Hard, white lime	17	142	Gray lime	11	1,089
Dark white lime	6	148	Dark, sandy lime	24	1,113
Hard, gray lime	39	187	Dark, cave shale and lime	77	1,190
Gray lime and shale	23	210			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-802			Well ST-40-37-803		
Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.			Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.		
Black dirt	1	1	Black dirt	4	4
Hard, white lime	22	23	Lime shales and clay	21	25
Blue-white lime	12	35	Gray lime	18	43
Gray lime and shale	77	112	Gray lime and shale	24	67
Light gray lime	38	150	Hard, gray lime	55	122
Hard, white lime	18	168	White lime	28	150
Hard, gray lime	32	200	Hard, gray lime	23	173
Gray lime and shale	15	215	Gray lime and shale	22	195
Hard, gray lime	30	245	Gray shale	20	215
White lime	12	257	Gray lime and shale	30	245
Gray lime and shale	33	290	Light lime and shale	22	267
Blue shale and lime	101	391	Dark lime and shale	30	297
Hard, gray lime and shale	51	442	Blue shale	33	330
Sandy lime and shale	28	470	Lime and flintrock	5	335
Hard, gray lime and shale	35	505	Hard, blue lime	33	368
White shale and gray lime	28	533	Gray lime and shale	107	475
Gray, sandy lime	24	557	Gray, sandy lime	26	501
Dark gray shale and lime	23	580	Gray lime and shale	99	600
Gray lime and shale	15	595	Gray, sandy lime and shale	65	665
Gray, sandy lime	37	632	Gray lime and shale	135	800
Gray, sandy lime and shale	68	700	Dark lime and shale	75	875
Soft shale and lime	45	745	Gray lime and shale	17	892
Gray, sandy lime	35	780	Hard, gray lime	23	915
Gray, sandy lime and shale	80	860	Gray, sandy lime and shale	15	930
Gray shale and lime	49	909	Hard, gray lime	25	955
Gray, sandy lime	10	919	Dark lime and shale	7	962
Hard, gray lime and shale	15	934	Trinity sand	30	992
Green shale and lime	15	949	Sand and breaks of shale	21	1,013
Gray, sandy lime and green shale	11	960	Went out of sand at 1,010 ft marking 48 ft of sand	—	—
First Trinity sand	56	1,006	Dark shale and lime	47	1,060
Trinity sand and blue shale	13	1,019	Red shale	5	1,065
Sandy, blue shale	25	1,044	Gray lime and shale	16	1,081
Gray, sandy lime and shale	2	1,046	Hard, gray lime	19	1,100
			Hard, dark lime	101	1,201

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-37-804			Well ST-40-38-301		
Owner: North American Rockwell Corp., Rocketdyne Div. Driller: Layne Texas Co.			Owner: H. G. McKethan Driller: R. C. Smith and Falcon Oil Corp.		
Black soil	3	3	Soil	3	3
Yellow clay	4	7	Clay	7	10
Hard lime	23	30	Lime	20	30
Hard lime (gray) and shale	97	127	Lime and sand	100	130
Hard limestone	5	132	Lime	283	413
Edwards lime	6	138	Lime and shale	277	690
White lime	12	150	Lime	50	740
Hard, gray lime and shale	55	205	Shale	20	760
Gray shale	5	210	Lime	25	785
Dark lime and shale	80	290	Shale and lime	20	805
Blue shale and lime	15	305	Shale	30	835
Lime and flint rock	10	315	Lime	65	900
Dark shale	5	320	Shale	35	935
Lime and shale	45	365	Lime and shale	60	995
Gray shale and lime	10	375	Lime	46	1,041
Sandy lime and shale	10	385	Sand and shale	81	1,122
Lime and shale	53	438	Shale	83	1,205
Gray shale and lime	32	470	Sandy shale	130	1,335
Gray, sandy lime and shale breaks	63	533	Shale	148	1,483
Dark lime and shale	7	540	Bent shale	19	1,502
Light lime and shale	15	555	Shale	101	1,603
Dark shale and lime	10	565			
Sandy lime and shale	135	700	Well ST-40-38-303		
Dark shale and lime	5	705	Owner: Brazos Concrete Products, Inc. Driller: C. M. Stoner Drilling Co.		
Gray shale and lime	25	730	Soil	1	1
Gray, sandy lime and blue shale	90	820	Yellow clay and rock	14	15
Soft, light, sandy shale	15	835	Blue shale	55	70
Dark lime and shale	10	845	White rock	1,090	1,160
Hard, gray lime and shale	31	876	Sand	75	1,235
Hard, gray lime	14	890	Shale and broken sand	65	1,300
Gray, sandy lime and shale	30	920	Red bed	10	1,310
Dark lime and shale	37	957	Sandy shale	10	1,320
Trinity sand (good)	100	1,057	Sand	120	1,440
Dark shale and lime	5	1,062			

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-38-801			Well ST-40-39-104—Continued		
Owner: Spring Valley Water Supply Corp. Driller: C. M. Stoner Drilling Co.			Lime and broken shale	260	1,220
			Sand and lime (Glen Rose)	180	1,400
Soil	1	1	Sand	170	1,570
Clay and rock	14	15	Sand	302	1,872
Blue rock	55	70			
Blue shale	60	130	Well ST-40-39-107		
White rock	970	1,100	Owner: Universal Atlas Cement Co. Driller: Texas Water Wells		
Shale	23	1,123	Chalk rock	25	25
Rock	32	1,155	Lime and shale streaks	70	95
Sand	165	1,320	Shale	83	178
Sandy shale	40	1,360	Sandy shale	38	216
Red bed	26	1,386	Shale and lime	32	248
Sand	34	1,420	Shale and broken lime	86	334
Red bed	8	1,428	Shale and lime	80	414
Sand	22	1,450	Lime	51	465
Yellow shale	10	1,460	Broken lime	82	547
			Lime and shale streaks	26	573
Well ST-40-39-103			Lime	241	814
Owner: Luther Herring Driller: Hervey Meadows and Son Well Driller			Sand	66	880
Soil	3	3	Lime	338	1,218
White rock	22	25	Lime and shale streaks	208	1,426
Blue rock	15	40	Shale	74	1,500
White, hard lime	150	190	Lime	35	1,535
Blue-black shale	420	610	Sandy lime	8	1,543
White rock	60	670	Sand	130	1,673
Blue, hard rock	150	820	Red bed	15	1,688
Blue, soft shale	90	910	Sand	80	1,768
Glen Rose shale	600	1,510			
Trinity sand	60	1,570	Well ST-40-39-203		
			Owner: Dr. Barnes Driller: J. L. Myers Sons		
Well ST-40-39-104			Clay	23	23
Owner: Midway School Driller: J. L. Myers Sons			Limestone	7	30
Austin chalk	150	150	Limestone and shale	54	84
Shale	350	500	Chalk rock	135	219
Lime	70	570	Shale	76	295
Sand	50	620	Shale and limestone	180	475
Broken sand and lime	150	770	Shale	85	560
Shale	190	960	Limestone	343	903

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-39-203—Continued			Well ST-40-39-302—Continued		
Limestone and shale	117	1,020	No record	262	1,265
Limestone	85	1,105	Broken lime	65	1,330
Limestone and shale	98	1,203	Lime	20	1,350
Limestone	265	1,468	Sand	30	1,380
No record	139	1,607	No record	13	1,393
Limestone and shale	112	1,719	Lime and sandy lime	126	1,519
Limestone	45	1,764	Broken lime and shale	7	1,526
Sandy shale and limestone	67	1,831	Sandy lime	152	1,678
Shale	19	1,850	Lime	7	1,685
Sandy shale and sand	90	1,940	Sand	85	1,770
Sand	100	2,040	Shale	17	1,787
Sandy limestone	42	2,082	Sand	69	1,856
			Sand and lime	11	1,867
Well ST-40-39-204				198	2,065
Owner: C. H. McLemore Driller: C. M. Stoner Drilling Co.			Sand	20	2,085
			Sand with shale	11	2,096
Soil	3	3	Red bed		
White rock	77	80			
Blue shale	205	285	Well ST-40-39-503		
Brown shale	55	340	Owner: Poweram Oil Co. Driller: C. M. Stoner Drilling Co.		
Sandy shale	80	420	Soil	1	1
Blue shale	65	485	Chunk rock	3	4
White rock	1,103	1,588	White rock	211	215
Sand	62	1,650	Blue shale	245	460
Gray shale	88	1,738	White rock	1,120	1,580
Sand	176	1,914	Sand	130	1,710
			Red bed	10	1,720
Well ST-40-39-302			Broken sand and sandy shale	75	1,795
Owner: Waco Memorial Park Driller: J. L. Myers Sons			Sand	85	1,880
Clay	15	15	Red bed	15	1,895
Clay and shale	25	40	Sand	65	1,960
Shale and rock	15	55			
No record	70	125	Well ST-40-39-702		
Chalk rock	95	220	Owner: Lorena Water Supply Corp. Driller: J. L. Myers Sons		
Rock and shale	17	237	Surface soil (clay)	27	27
Shale and lime	119	356	Shale	9	36
Shale	223	579	Chalk rock	39	75
Lime	386	965	Shale	275	350
Lime and shale	38	1,003	Lime	935	1,285

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-39-702—Continued			Well ST-40-39-801—Continued		
Broken lime	125	1,410	Broken lime and shale	106	1,636
Sand	60	1,470	Lime	18	1,654
Sand and shale	185	1,655	Sand no show	6	1,660
Sand	85	1,740	Shale and lime streaks	12	1,672
Sand and shale	74	1,814	Sandy lime and sand streaks	14	1,686
Lime	74	1,888	Lime	14	1,700
Well ST-40-39-801			Well ST-40-40-103		
Owner: C. B. Warren and H. C. Warren Driller: Gray Oil Co.			Owner: Weldon Youngblood Driller: J. L. Myers Sons		
Caliche	157	157	Sand	2	2
Shale	243	400	Clay and gravel	13	15
Shale	12	412	Sand and gravel	17	32
Shale	55	467	Shale	268	300
Lime, broken	147	614	Lime	86	386
Lime	61	675	Lime and shale	588	974
Shale	20	695	Lime	156	1,130
Lime	11	706	Broken lime	132	1,262
Shale and shells	37	743	Lime	313	1,575
Lime	21	764	Broken lime	126	1,701
Shale	21	785	No record	34	1,735
Lime and shale streaks	57	842	Lime	2	1,737
Lime, broken	196	1,038	Sand and lime	74	1,811
Shale and lime streaks	60	1,098	Lime	109	1,920
Broken lime	26	1,124	Broken lime and shale	35	1,955
Shale and shells	29	1,153	Lime	37	1,992
Broken lime and shale	85	1,238	Sandy	21	2,013
Shale and shells	32	1,270	Lime	22	2,035
Shale and lime	17	1,287	Sand	78	2,113
Shale, lime streaks	29	1,316	Lime	99	2,212
Lime, hard	14	1,330	Broken sand and lime	73	2,285
Shale and lime	60	1,390	Broken sand	55	2,340
Lime	10	1,400	Lime and shale	43	2,383
Lime and shale	28	1,428	No record	45	2,428
Broken lime	13	1,441	Broken shale	52	2,480
Shale and lime	27	1,468			
Shale	10	1,478	Well ST-40-40-401		
Lime	37	1,515	Owner: Robinson Water Co. Driller: J. L. Myers Sons		
Shale and lime	15	1,530	Surface soil	40	40
			Shale	291	331

Table 3.—Drillers’ Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-40-401—Continued			Well ST-40-46-402—Continued		
Chalk rock	89	420	Lime	38	357
Shale	430	850	Lime with streaks of shale	83	440
Lime	487	1,337	Lime and shale	99	539
Broken lime	125	1,462	Lime	23	562
Lime	135	1,597	Lime	18	580
Broken lime	341	1,938	Lime	75	655
Shale and sand	247	2,185	Lime	74	729
Sand	30	2,215	Lime and shale	102	831
Broken sand	200	2,415	Lime	63	894
Red bed	10	2,425	Lime	60	954
Sand	45	2,470	Lime and shale	64	1,018
Red bed	30	2,500	Lime and shale	67	1,085
Well ST-40-46-101			Sand	33	1,118
Owner: Rolling Hills Country Club			Lime	67	1,185
Driller: Key Water Well Drilling — Development Co.			Lime	12	1,197
Lime	249	249	Sand	54	1,251
Sandy lime	51	300	Lime	28	1,279
Sand	35	335	Broken shale and lime	77	1,356
Sandy lime	47	382	Shale and lime	29	1,385
Lime	251	633	Sand	46	1,431
Sandy lime	344	977	Broken sand and lime	50	1,481
Sand	288	1,265	Lime	13	1,494
Lime	155	1,420			
Sand	80	1,500			
Well ST-40-46-402			Well ST-40-46-403		
Owner: City of Moody			Owner: City of Moody		
Driller: J. L. Myers Sons			Driller: J. L. Myers Sons		
			Surface soil	6	6
			Clay	14	20
Surface soil	8	8	Shale	160	180
Gravel	7	15	Chalk	151	331
Sand and gravel	10	25	Broken rock and shale	283	614
Rock	45	70	Shale	16	630
Hard lime	13	83	Sandy lime	283	913
Hard lime	67	150	Lime	126	1,039
Shale	13	163	Sandy lime	61	1,100
Lime	80	243	Lime	115	1,215
Lime	45	288	Sand and shale	219	1,434
Lime	15	303	Lime	61	1,495
Sandy shale	16	319	Sand	55	1,550
			Lime	11	1,561

Table 3.—Drillers' Logs of Selected Wells in McLennan County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ST-40-46-801			Well ST-40-46-801—Continued		
Owner: Elm Creek Water Supply Corp. Driller: C. M. Stoner Drilling Co.			White rock	1,025	1,355
Soil	1	1	Sand	70	1,425
Rock	59	60	Sandy and red bed	165	1,590
Shale	270	330	Sand	75	1,665
			Yellow shale	15	1,680

MILAM COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
 Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
TK-58-15-801	Buescher and Clarkeson	H. H. Coffield No. 1	1942	6,180	490	E
23-401	Dan J. Harrison	Anna Belle Smith, et al. No. 1	1959	4,562	470	E
602	do.	Gus P. Schran No. 1	1959	5,223	433	E
31-901	Danciger Oil and Refining Co.	Campbell No. 1	1948	3,603	470	E
32-201	Phillips Petroleum Co.	F. Fitzgerald No. 1	1944	4,880	496	E
202	D. H. Bolin	R. L. King No. 1	1952	4,063	474	E
701	Hamman Oil and Refining Co.	E. H. McWilliams No. 1	1962	3,748	567	E
59-01-301	Rimrock Tidelands Inc.	W. F. Crawford No. 1	1956	7,003	342	E
10-901	D. H. Byrd	Green No. 1	1953	8,210	410	E
19-402	Shell Oil Co.	Adque Estate No. 1	1964	13,319	398	E
26-101	General Crude Oil Co.	P. H. Perry No. 1	1958	9,648	525	E

MILAM COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)			
Well TK-58-07-901			Well TK-58-07-901—Continued		
Owner: City of Buckholts Driller: Layne Texas Co.			Lime rock	8	1,854
			Lime and shale	94	1,948
Surface soil	4	4	Shale and sandy lime	12	1,960
Sticky clay	33	37	Lime	11	1,971
Blue shale	299	336	Shale and lime	25	1,996
Gray, brittle shale	78	414	Blue-gray shale and few streaks of sandy lime	104	1,996
Chalk	36	450	Sandy lime	30	2,130
Sticky shale	25	475	Shale and sandy lime	60	2,190
Soft shale	30	505	Lime	22	2,212
Sticky shale	112	617	Lime and shale	41	2,263
Soft shale	41	658	Shale and lime streaks	14	2,277
Sticky shale	143	801	Hard shale and lime	65	2,342
Hard shale and chalk	15	816	Lime and shale	64	2,406
Soft shale and chalk	30	846	Sandy lime	19	2,425
Chalk and hard shale	180	1,026	Lime and shale streaks	43	2,468
Chalk and gray shale	100	1,126	Sandy lime	5	2,473
Chalk	53	1,179	Lime and shale streaks	93	2,566
Gray, blue, and yellow shale	59	1,238	Sandy lime and shale	10	2,576
Gray shale and chalk	102	1,340	Lime and shale streaks	79	2,655
Shale and chalk	28	1,368	Sandy lime	20	2,675
Gray shale	21	1,389	Hard lime	17	2,692
Black shale and chalk streaks	69	1,458	Sandy lime and shale streaks	15	2,707
Black shale	50	1,508	Sandy rock, lime, and shale	15	2,722
Shale and lime streaks	54	1,562	Hard, sandy lime	10	2,732
Blue shale	70	1,632	Lime	16	2,748
Lime and shale	10	1,642	Hard, sandy lime	12	2,760
Shale	19	1,661	Lime and shale	15	2,775
Shale and lime	19	1,680	Sandy lime	8	2,783
Lime and shale streaks	50	1,730	Lime and shale	56	2,839
Shale and lime streaks	29	1,759	Sandy shale	6	2,845
Sandy lime and shale streaks	31	1,790	Hard, sandy shale	24	2,869
Shale	4	1,794	Sandy lime	23	2,892
Sandy lime and shale (loose)	10	1,804	Sandy lime and sand	9	2,901
Shale	5	1,809	Shale with sandy streaks	20	2,921
Sandy lime and broken shale	27	1,836	Shale and sand breaks	120	3,041
Hard shale	10	1,846	Shale and hard streaks of sand	33	3,074

Table 3.—Drillers' Logs of Selected Wells in Milam County—Continued

Well TK-58-07-901—Continued			Well TK-58-07-901—Continued		
Shale and lime	61	3,135	Shale	7	3,314
Shale and few sandy shale breaks	35	3,170	Shale and sand	28	3,342
Shale and sandy, shale streaks	45	3,215	Shale	17	3,359
Shale and lime	35	3,250	Shale and sand	8	3,367
Shale and sandy streaks	23	3,273	Shale and lime	27	3,394
Hard shale	4	3,277	Sand and shale breaks	17	3,411
Shale and broken sand	30	3,307	Sand	14	3,425
			Shale	23	3,448

MILLS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
TL-41-19-506	United North and South Development Co.	Fred Johnson No. 1	1950	3,249	1,670	E
20-501	Blumberg and Coleman	J. H. Priddy No. 1	1958	3,520	1,584	E
29-501	R. K. Stoker	Grelle No. 1	1958	3,827	1,511	E
601	Beard and Tullous	J. B. Pflugger No. 1	1949	4,577	1,550	E
36-502	Robert McCulloch	Rahl No. 1	1954	1,883	1,510	E
601	R. K. Stoker	Fletcher No. 1	1958	3,340	1,570	E
37-301	Byron Hoffman, et al.	J. S. Ownes No. 1	1957	3,100	1,415	E
38-401	Daubert, Dolch and Ehman	Jim Soules No. 1	1957	3,009	1,398	E

MILLS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well TL-41-27-602			Well TL-41-36-201		
Owner: Mrs. Ora B. Wilson Driller: Cooks Water Well Service			Owner: City of Goldthwaite Driller: E. E. Thate		
Black soil	3	3	Soil	2	2
Broken rock, red	7	10	Broken lime	8	10
Red rock	40	50	Lime	4	14
Red clay	18	68	Caliche, white	4	18
Yellow rock	2	70	Caliche	7	25
Broken rock, water	2	72	Lime	10	35
Rock, red	5	87	Lime and shale	30	65
Broken, red rock and clay	19	106	Shale, blue and shell	20	85
			Blue shale	16	101
Well TL-41-28-401			Lime shale	3	104
Owner: W. R. Lindsey Driller: Watson Drilling			White lime	11	115
Black soil and fine rock	5	5	White lime	11	126
White lime rock	25	30	Lime	4	130
Blue shale	50	80	Shale	20	150
Sand (white sugar), water (Paluxy)	5	85	Sand shale	15	165
Blue shale and blue rock	80	165	Blue shale	20	185
			Sand, water (2 b)	7	192
Well TL-41-29-702			Shale, gray	33	225
Owner: Raymond H. Williams Driller: Leon Drilling Co.			Lime, broken	10	235
Soil, boulders	5	5	Caliche, lime	55	290
Lime, shells, shale	90	95	Shale	10	300
Blue shale	15	110	Lime, caliche	8	308
Sand, shale, trace of water	20	130	Red rock	7	315
Shale, shells, yellow	40	170	Red shale	5	320
Gray lime	40	210	Lime	5	325
Lime, shale, white	60	270	Red lime, mixed	15	340
Shale, shells	40	310	Red, sandy shale	10	350
Sandy lime	18	328	Red lime, mixed	25	375
Red shale, sand, gravel, water	22	350	Broken lime	12	387
Sandy lime	5	355	Lime, hard	10	397
Sand, gravel, water	15	370	White caliche	3	400
Sandy lime	4	374	Sandy	4	404
			Lime	14	418
			Sandy lime	39	457
			Yellow clay	5	462
			No record	16	478

Table 3.—Drillers' Logs of Selected Wells in Mills County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well TL-41-36-202			Well TL-41-36-203		
Owner: City of Goldthwaite Driller: Layne Texas Co.			Owner: City of Goldthwaite Driller: Layne Texas Co.		
Surface soil	3	3	Sand and gravel	5	5
Yellow clay and sand	6	9	Yellow sand rock	17	22
Gravel and yellow clay, caliche	4	13	Gray lime and shale	6	28
Gray lime	11	24	Lime and shale	22	50
Hard, blue shale	9	33	Water sand	28	78
Gray shale	24	57	Lime and sand	2	80
White lime	24	81	Sand	10	90
Blue, sandy shale	6	87	Lime	7	97
Sand (dry, hard)	17	104	Sandy lime and shale	5	102
Sand (water, soft)	14	118	Lime and shale	5	107
White lime (soft)	23	141	Sandy lime	7	114
Blue shale	56	197	Lime	6	120
White lime (hard)	12	209	Sand (dry)	5	125
Blue shale (soft)	7	216	Lime and shale	75	200
White lime (soft)	11	227	Sandy lime	8	208
White lime (hard)	14	241	Lime and red rock	12	220
Green shale (soft and gummy)	11	252	Sand (dry)	15	235
Soft green shale	2	254	Lime and red rock	55	290
Sand and sandy lime	13	267	Sand and rock	4	294
Red rock (hard)	4	271	Lime	4	298
Red shale and sandy lime (red, hard)	31	302	Sandy lime	11	309
Red shale and red lime shale	20	322	Top of Trinity	3	312
Red shale and red lime sand (hard)	18	340	Sand (water)	8	320
Red shale and sandy lime (hard)	4	344	Lime and shale	6	326
White lime (extra hard)	12	356	Sand and lime - red rock and fine gravel	6	332
Sandy lime (hard)	4	360	Lime and sandy shale	3	335
White, sandy lime (hard)	4	364	Very limy sand and gravel	8	343
Water sand and gravel	32	396	Shaly, limy sand	4	347
White, sandy lime (hard)	6	402	Lime and shale	3	350
Brown shale	3	405	Shale and yellow clay	3	353

Table 3.—Drillers' Logs of Selected Wells in Mills County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well TL-41-36-204			Well TL-41-44-302—Continued		
Owner: City of Goldthwaite Driller: Layne Texas Co.			Soft clay, yellow	7	32
			Soft clay, pink	9	41
Black soil	5	5	Tan, OK, good drilling, little hard	17	58
Gravel and sand rock	11	16	Brown with green tint, soft	4	62
Yellow sand rock	6	22	Gray with green tint, soft	6	68
Gray lime and shale	19	41	Gray shale, soft, little gummy	16	84
Sand, water (6 gpm)	39	80	Gray shale, firm (OK)	6	90
Shale	15	95	Gray shale	39	129
Lime and shale	65	160	Sandy, sand rock (1/4 gpm)	3	132
Sand, lime, and shale	25	185	Brown lime, firm, cuttings look water, but no water	6	138
White, sandy lime	35	220	Soft, brown limestone, very coarse, no water	3	141
Red rock	30	250	Firm, brown limestone, no water	7	148
Sand and red rock	5	255	Hard limestone with pink rock mixed in, makes tan mud	7	155
Sand and shale	5	260	Firm, brown limestone with other rock	3	158
Sand, coarse, no water	5	265	Hard, tan, white rock, makes pink mud	1	159
Sand	5	270	Firm, tan and white rock, makes pink mud	4	163
Red rock	10	280	Gray shale and clay	10	173
Sandy, red rock	18	298	Gray shale and limestone combined, makes pink or tan mud	32	205
Lime and red rock	22	320	Hard limestone, some pink rock mixed in (1/2 gpm)	10	215
Sand and lime	27	347	Firm lime and red rock	11	226
Sand, hard	15	362	Soft, red clay with white rock mixed in	34	260
Sand, real coarse	5	367	Sand, and sand rock, some red rock	5	265
Red bed	3	370	Clay, red, yellow, and green	4	269
Well TL-41-37-801			Lime and red rock	16	285
Owner: W. L. Berry Driller: Watson Drilling			Hard, white limestone	13	298
Dirt	30	30	Soft, yellowish green rock	4	302
Blue shale	210	240	Hard, sandy rock	4	306
Soapstone and gravel	14	254	Soft clay and conglomerate gravel	12	318
Red bed, bad	101	355	Brown mud	22	340
Water gravel, white	5	360			
Sand rock	5	365			
Well TL-41-44-302					
Owner: Layton Black Driller: Smart Drilling and Supply					
Yellow clay, soft	19	19			
Firm, yellow clay rock	1.5	20.5			
Yellow clay, soft	3.5	24			
Soft, pink clay, cavey	1	25			

SOMERVELL COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
XJ-32-43-807	K-B Oil Co.	M. M. Bunt No. 1	1950	4,213	719	E
50-502	Whitaker and Whitaker	Winston No. 1	1950	2,421	860	E
901	Benedum Trees Oil Co.	William Rodgers No. 1	1919	3,625	940	D
51-102	M. E. Davis	T. H. Cousins No. 1	1941	6,505	810	S

SOMERVELL COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well XJ-32-41-902			Well XJ-32-50-303—Continued		
Owner: J. B. Sanderson Driller: Wallen Pluckett			Lime	2	147
No record	8	8	Red, sandy shale	8	155
Gravel	29	37	Blue shale	5	160
No record	88	125	Water sand	20	180
Lime, blue shale	5	130	Blue shale	15	195
Red bed	35	165	Red rock	10	205
Water sand	20	185	Blue shale	7	212
Blue shale	5	190	Red bed	4	216
Water sand	25	215	Gray shale	39	255
Blue shale and water sand	33	248	Blue shale	16	271
Brown shale	30	278	Red rock	13	284
Sandy lime	10	288	Water sand	41	325
Well XJ-32-43-807			Well XJ-32-50-701		
Owner: M. M. Bunt Driller: K-B Oil Co. (Partial log)			Owner: Cedar Valley Ranch Driller: C. M. Stoner Drilling Co.		
			Soil	1	1
Surface	19	19	Clay and small rock	2	3
Lime	16	35	Shell rock	62	65
Lime and shale streaks	193	228	Sand	55	120
Sandy shale	7	235	Broken sand and rock	35	155
Lime and shale streaks	39	274	Lime rock	205	360
Sand	114	388	Mixed, sandy shale and lime	45	405
Red bed	18	406	Sand	25	430
Sand	50	456	Red and green shale	35	465
Red bed (bottom Travis Peak)	174	630	Sand	35	500
Lime and shale (Pennsylvania)	194	824	Red and green shale	10	510
Well XJ-32-50-303			Well XJ-32-50-901		
Owner: City of Glen Rose Driller: Layne Texas Co.			Owner: William Rodgers Driller: Benedum Trees Oil Co. (Partial log)		
Sandy shale	25	25	Cellar	8	8
Lime	2	27	Lime, shale	372	380
Gravel	3	30	Red, cave, bad (409)	29	409
Lime	15	45	Broken sand	61	470
Broken lime	45	90	Red, cave, bad	10	480
Broken lime and shale	30	120	Broken sand	20	500
White shale	10	130	Red, cave, bad	105	605
Water sand	15	145	Sand	35	640

Table 3.—Drillers' Logs of Selected Wells in Somervell County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well XJ-32-50-901—Continued			Well XJ-32-51-102—Continued		
Slate, sand	25	665	Lime and shale, hard	47	274
Red, cave, bad	25	690	Lime, shale, sand streaks	56	330
Yellow mud, soft	35	725	Broken lime, shale	10	340
			Broken sand	35	375
			Lime and shale	75	450
			Broken lime	22	472
			Soft sand, fresh water	46	518
Surface sand	30	30	Hard, broken sand	42	560
Hard, lime rock	2	32	Sandy lime, broken sand	37	597
Hard lime	18	50	Lime hard	18	615
Broken lime, shale	55	105	Lime and shale, broken	32	647
Lime sand, shale breaks	122	227			

Owner: T. H. Cousins
 Driller: M. E. Davis
 (Partial log)

TRAVIS COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: D, Drillers'; E, Electric.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
YD-58-25-402	P. F. Griffin	G. H. Rodgers No. 1	1919	789	1,024	D
33-201	Powers Production Co.	E. A. Jones No. 1	1953	3,000	855	D,E
701	—	Bureau of Reclamation— U.S. Dept. of the Interior	1936	100	573	D
903	—	do.	1936	344	538	D
35-709	Texas Water Supply Co.	The University of Texas	1942	1,833	785	D

TRAVIS COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-57-40-302			Well YD-58-25-402		
Owner: J. W. Bridgewater Driller: Farrer Well Drilling Co.			Owner: G. H. Rodgers Driller: P. F. Griffin (Partial log)		
Sand, gravel	30	30	Lime and sandstone	49	49
Hard, gray lime	23	53	Limestone, gray	35	84
White lime	12	65	Limestone, gray, shelly	46	130
Blue clay	8	73	Limestone, shelly	85	215
Light red clay	12	85	Lime and sandstone	36	251
Red clay with dark gravel	22	107	Gumbo, blue	7	258
Tan, sand rock, hard	6	113	Limestone	107	365
Dark red clay	12	125	Limestone, and shale	14	379
Red clay, sand, and gravel (water)	12	137	Gravel, coarse-grained, water-bearing	66	445
Hard, tan sand rock	6	143	Gravel, coarse-grained, water-bearing, lime	35	480
Red clay, gravel	24	167	Limestone boulders, hard, blue gumbo in layers	11	491
Coarse gravel	7	174	Lime, gypsum, blue gumbo in layers	17	508
Fine white sand, second Trinity, lots of water	6	180	Limestone	6	514
Well YD-57-48-901			Limestone, hard	15	529
Owner: Fred W. Shields Driller: Sterzing Drilling Co. (Log from Texas Board of Water Engineers Bulletin 5708)			Shell, hard layers of limestone	7	536
Boulders and gravel	20	20	Shale, shelly, shell, and hard limestone, shale in layers	5	541
Rock	100	120	Gumbo, brown and blue in layers	17	558
Limestone	450	570	Sand rock	6	564
Clay, blue	33	603	Gumbo, chocolate-colored	17	581
Rock	22	625	Limestone, hard	1	582
Rock, sandy	15	640	Shale, brown and blue	4	586
Clay, brown	62	702	Shale, brown and blue, boulders	26	612
Clay, pink	41	743	Gravel, red, and gumbo	12	624
Shale, blue	3	746	Limestone	15	639
Clay, light-brown	4	750	Gumbo, red	15	654
Shale, blue	5	755	Gumbo, blue, lime layers	3	657
Gravel	3	758	Lime and blue gumbo in layers	8	665
Shale	3	761	Gumbo, blue, and lime layers	7	672
Rock, hard	29	790	Lime and gypsum in layers	4	676
Shale, green	100	890	Gypsum and lime	3	679
Sand	70	960			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-25-402—Continued			Well YD-58-33-103—Continued		
Lime rock	20	699	Trinity sand	13	813
Lime, gray, shelly	29	728	Hard, shop lime	5	818
Shale and gumbo in thin layers	15	743	Sandy	37	855
Shale, blue and brown, gumbo with sand and sulfur	30	773	Streaks of red shale	5	860
Gumbo, blue with sand	5	778	Sand	7	867
Shale, blue, and sand	3	781	Hard, green shale	6	873
Corrected depth	—	653	Sand	11	884
Shale, gumbo, boulders	15	668	Soft sand	21	905
Gumbo, blue and shale	88	756	Brown, hard cap	7	912
Shale, blue and brown gumbo	10	766	Green shale	14	926
Shale, gumbo, and lime	5	771	Well YD-58-33-201		
Gumbo, blue	3	774	Owner: E. A. Jones		
Sand and lime	2	776	Driller: Powers Production Co.		
Lime, sand, and gumbo	12	788	(Log from Texas Board of Water Engineers Bulletin 5708)		
Lime and sand	5	793	Limestone, gray, with much gypsum	325	325
Sand, dark gray	2	795	Sand	30	355
Lime, and sand rock	8	803	Limestone, grayish-white	30	385
Shale, black	12	815	Limestone, grayish-white, and gypsum	11	396
Corrected depth	—	764	Limestone, grayish-white	41	437
Lime, and sand rock	4	768	Limestone, grayish-white, and pyrite	9	446
Iron, rock	6	774	Sandstone, soft, fine	6	452
Slate	11	785	Sandy limestone	23	475
Slate, iron, rock	3	788	Sand	32	507
Gumbo, blue white, and gravel	4	792	Sand, red	4	511
Slate	12	804	Sand and gravel	16	527
Corrected depth	—	789	Sand	12	539
Well YD-58-33-103			Sand, red	21	560
Owner: J. Syd Wheless			Sand and rock fragments, red	25	585
Driller: Sterzing Drilling Co.			Sand, with some chert	45	630
Ream old well	628	628	Gravel, cherty, red and yellow	16	646
Water, rock	25	653	Clay, blue, and rock fragments	34	680
Brown rock	17	670	Gravel	6	686
Gray lime	60	730	No record	9	695
Travis Peak shale	57	787	Sandstone and shale, dark gray, very hard	2,305	3,000
Blue shale	3	790			
Hard cap	.5	790.5			
Hard Trinity sand	9.5	800			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-33-303			Well YD-58-33-615—Continued		
Owner: Weldon S. Horton Driller: Sterzing Drilling Co.			Sand	2	477
Surface	5	5	Red bed	3	480
Gravel and hard cap	45	50	Red bed	14	494
Gray lime	60	110	Shale and sandy lime (from 500 ft on driller had heaving shale problem)	181	675
Blue lime	15	125			
Gray lime	115	240			
Blue clay	10	250			
Gray lime	70	320			
Blue clay	30	350			
Gray lime	15	365			
Travis Peak	135	500			
Trinity sand	30	530			
Well YD-58-33-401					
Owner: Frank DeGroot Driller: S. W. Glass Drilling (Log from Texas Board of Water Engineers Bulletin 5708)			Owner: Bureau of Reclamation, U.S. Department of the Interior Driller: Unknown (Log from Texas Board of Water Engineers Bulletin 5708)		
Limestone, white and yellow	14	14	River sand and gravel	16	16
Limestone, gummy, blue	326	340	Clay, red, and pebbles	5	21
Limestone, blue, with grit	50	390	Clay, soft, red	4	25
Limestone, white, and sand	16	406	Sand, fine-grained, unconsolidated	1.5	26.5
Sand	16	422	Clay, soft, red, with occasional seams and patches of very fine poorly consolidated quartz sand	18.5	45
Well YD-58-33-615			Conglomerate, loosely cemented, rounded pebbles, flowed 1/2 gpm	2	47
Owner: Lula Lung Powell Driller: Wright Drilling Co.			Clay, red, marly spots	3	50
Lime and shale	275	275	Clay, soft, red, sandy at bottom	10	60
Sandstone	9	284	Sand, quartz, very fine	5	65
Shale	3	287	Quartz grains, rounded, in marly cement	1	66
Sandstone	26	313	Sand, fine	5	72
Lime	27	340	Pebble conglomerate, loosely cemented, some clay	9	81
Shale and limestone	5	345	Clay, red, sandy	4	85
Lime and shale	30	375	Limestone pebbles conglomerate	1	86
Shale	48	423	Marl, fine-grained, sandy, and clay	3	89
Lime	7	430	Marl, fine-grained, dense, with small pebbles	3	92
Sand (tight)	5	435	Marl, fine-grained, dense, multi-colored, and pebbles conglomerate in lime matrix	8	100
Sand and lime shells	10	445			
Sand and shale	17	462			
Water sand	3	465			
Conglomerate	10	475			
			Well YD-58-33-803		
			Owner: B. A. Steinhagen Driller: J. R. -Bob- Johnson Drilling and Supply (Log from Texas Board of Water Engineers Bulletin 5708)		
			Soil	1	1
			Adobe	3	4

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-33-803—Continued			Well YD-48-33-903—Continued		
Lime, yellow	8	12	Limestone, dark-gray, argillaceous, some small fossils	10.33	107.25
Lime, blue	8	20			
Lime, broken	60	80	Limestone, patchy	2.75	110
Lime, blue	92	172	Limestone, dark-gray, full of small shells	9.08	119.08
Shale, blue	13	185	Limestone, patchy	4.5	123.58
Lime, blue	115	300			
Shale, blue	9	309	Limestone, soft, dark-gray, fine, dense	9.68	133.26
Lime, blue	31	340	Limestone, white, granular	1	134.26
Lime, gray	32	372	Marl	.5	134.76
Cap rock	8	380	Limestone, white, granular, extremely porous zones last 3 ft	8.08	142.84
Sand	4	384	Limestone, fine, dense	5.17	148.01
Shale	2	386	Limestone, fine, arenaceous	5.75	153.76
Sand	2	388			
Shale	3	391	Limestone, dark, fine grain, very fossiliferous, porous	10.75	164.51
Sand	11	402	Shell limestone	3.5	168.01
Lime, blue, porous	121	523	Limestone, patchy	2	170.01
Shale, blue, sticky	29	552	Limestone, fine, dense, few small shells	6.83	176.84
Shale, red, sticky	12	564	Limestone, very fossiliferous	9.25	186.09
Trinity sand	56	620	Limestone, fine, dense, fossil	3.5	189.59
Well YD-58-33-903			Limestone, fine, dense	3	192.59
Owner: Bureau of Reclamation, U.S. Department of the Interior Driller: Unknown			Limestone, fossil	.83	193.42
(Log from Texas Board of Water Engineers Bulletin 5708)			Limestone, dark, argillaceous	.92	194.34
River silt and sand	43.5	43.5	Fossil limestone	4.25	198.59
Boulders, sand, and gravel	6.5	50	Limestone, fine, dense sandy, few fossils last 3 ft	15.25	213.84
Limestone, soft, weathered	3	53	Limestone, fine, dense fossiliferous	3	216.84
Limestone, hard, fine, dense, small shells	1.17	54.17	Full of small shells	2.08	218.92
Limestone, fossil	6.5	60.67	Fossil limestone	1.08	220
Full of small shells	8	68.67	Limestone, argillaceous, fossil	1	221
Fossil limestone, argillaceous seams	1.17	69.84	Limestone, porous, shell	4.68	225.68
Limestone, fine, dense	1.08	70.92	Shell reef - <i>Ostrea</i>	4.58	230.26
Full of small shells	5.33	76.25	Limestone, fine, dense, dark-gray, slightly sandy	4.25	234.51
Fossil limestone, last 2 feet granular	5.25	81.5	Limestone, very fossiliferous	1.5	236.01
Limestone, argillaceous	2	83.5	Limestone, dark, fine, dense	.68	236.69
Limestone, fine, white, granular	2	85.5	Limestone, very fossiliferous	4	240.69
Full of small shells	1.25	86.75			
Fossil limestone	5.25	92	Limestone, fine, dense, dark-gray, and alternating beds of fossil limestone	4	244.69
Full of small shells	4.92	96.92	Limestone, very fossiliferous	1.5	246.19

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-33-903—Continued			Well YD-58-34-401—Continued		
Shale, soft, dark-gray, calcareous	3.83	250.02	Lime, blue	111	238
Limestone, thin, shaly, dark-gray, friable, and broken	4.75	254.77	Lime, white	40	278
Limestone, fossil, soft limestone layer 257 ft, 7 in. to 258 ft	4.17	258.94	Sand, water-bearing	4	282
Limestone, shaly, friable	2.58	261.52	Lime, blue	81	363
Shale, soft, dark-gray, calcareous	2.5	264.02	Lime, brown	60	423
Clay, soft, dark, broken, shale	2.33	266.35	Sand, water-bearing	6	429
Clay, soft, dark-gray, shale and marl	6	272.35	Lime, white	98	527
Shale, sandy, calcareous, friable	2.25	274.60	Lime, blue	13	540
Shale, sandy, and sand, very soft	8.33	282.93	Shale, blue	70	610
Limestone, sandy, full of small shells	.58	283.57	Lime, white	25	635
Sandstone, calcareous, calcite crystals, few small shells	4.92	288.43	Sand, water-bearing	18	653
Limestone, sandy shell, very porous, artesian water	5	293.43	Red beds	43	696
Sandstone, dark, calcareous, small shell fragments	5.25	298.68	Sand, brown	28	724
Limestone, sandy, few dense shell fragments	6.58	305.26	Red beds	12	736
Shale, fine, calcareous, sandy	3.68	308.94	Sand, brown	27	763
Sandstone, calcareous binder	2	310.94	Red beds	44	807
Clay, red and white, calcareous cement	7	317.94	Sand, white	8	815
Sandstone, fine, white	3.5	321.44	Red beds	6	821
Clay, sandy, and sand	5.83	327.27	Well YD-58-34-603		
Sandstone, fine, white	2	329.27	Owner: Balcones Country Club Driller: Sterzing Drilling Co.		
Clay, red and white, sandy	3.68	332.95	Topsoil	3	3
Clay, soft, red	2.75	335.70	Gray lime	67	70
Clay, red and white, sandy, clayey sand	3	338.70	Water	5	75
Sandstone, fine argillaceous	5.58	344.28	Gray lime	200	275
			Water	5	280
			White lime	165	445
			Water	5	450
			Gray lime	225	675
			Water	10	685
			White lime	105	790
			Blue clay	5	795
			Gray lime	20	815
			Water	60	880
			Travis Peak	100	980
			Hard cap	10	990
			Blue, sandy shale	10	1,000
			Trinity sand	118	1,118

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-34-603—Continued			Well YD-58-34-801—Continued		
Gray, sandy lime	27	1,145	No record	22	640
Red shale	20	1,165	Sand, lime, water-bearing	5	645
Streaks of red shale and sandy lime	10	1,175	No record	45	690
Gray, sandy lime	37	1,212	Shale, blue, and gumbo	30	720
Green shale	3	1,215	Gumbo, blue	70	790
Lime	1	1,216	Sand, quartz	10	800
Green shale	9	1,225	No record	20	820
Gray, sandy lime	20	1,245	Clay, red, and rock	5	825
Hard, black shale and lime	8	1,253	No record	25	850
Well YD-58-34-703			Sand, red, and clay	5	855
Owner: Earl Blackmore Driller: Sterzing Drilling Co.			No record, water at 880 ft	35	890
Surface	5	5	Limestone, gray	5	895
Ledge stone	7	12	No record, water at 915 ft and 930 ft	45	940
Flint rock	6	18	Clay, red	—	940
Ledge stone	7	25	Well YD-58-35-408		
Gray lime and shale	100	125	Owner: Austin White Lime Co. Driller: Virdell Brothers Drilling Co.		
Blue lime	27	152	Fault, honey-comb	65	65
Brown lime	13	165	White limestone	15	80
Blue lime	200	365	Blue limestone	5	85
Gray lime (water)	10	375	White limestone (some water)	30	115
Glen Rose with shale	230	605	Gray limestone	5	120
Glen Rose (water)	25	630	White limestone	15	135
Glen Rose and blue shale	20	650	Gray limestone	20	155
Well YD-58-34-801			White limestone	10	165
Owner: W. L. Richards Driller: A. J. Bartuge (Partial log from Texas Board of Water Engineers Bulletin 5708)			Gray limestone	30	195
Limestone	210	210	White limestone	17	212
Sand, lime, water-bearing	6	216	Water rock (10 gpm)	8	220
Limestone	254	470	White limestone	30	250
Sand, lime, water-bearing	8	478	Gumbo rock, shale	20	270
No record	12	490	Gray limestone	5	275
Sand, lime, water-bearing	8	498	White limestone	45	320
Limestone	92	590	Water rock	30	350
Sand, lime, water-bearing	7	597	White limestone	20	370
No record	15	612			
Sand, lime, water-bearing	6	618			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-35-709			Well YD-58-41-301		
Owner: The University of Texas Driller: Texas Water Supply Co. (Log from Texas Board of Water Engineers Bulletin 5708)			Owner: George Fulford Driller: W. H. Glass and Son		
Limestone	100	100	Yellow shale	8	8
Clay, blue and black, and some lignite	20	120	Yellow lime	18	26
Clay, blue, hard blue and black shale, and some gray limestone	10	130	Gray lime	126	152
Shale, blue	10	140	Blue lime	28	180
Shale, blue and black	10	150	Water sand	10	190
Shale and limestone	10	160	Gray lime	138	328
Shale, blue and black	10	170	Gray shale	66	394
Shale, dark bluish-gray, soft	30	200	Gray lime	59	453
Limestone, light gray, chalky, subcrystalline	10	210	Travis Peak shale and red clay	23	476
Limestone, light gray, hard with some marl	60	270	Trinity sand	8	484
Shale, blue and grayish-white limestone	20	290	Red clay	5	489
Shale, black, soft and chalky limestone	10	300	Well YD-58-42-103		
Limestone, light gray, soft, chalky	10	310	Owner: Devereux School Driller: A. C. Clements (Log from Texas Board of Water Engineers Bulletin 5708)		
Limestone, gray, hard	20	330	Clay, yellow, and limestone, tan	20	20
Limestone, dark brownish-gray with chert	30	360	Limestone, gray and buff	20	40
Limestone, dark gray, porous	30	390	Marl, much pyrite	20	60
No record	1,210	1,600	Limestone, gray and tan	40	100
Sand and silt, greenish-gray	14	1,614	Marl, gray, many shells	12	112
Shale, dark gray to fine	26	1,640	Limestone, gray and tan	13	125
Sand, greenish-gray	20	1,660	Marl, gray	11	136
Sand and sandy marl	20	1,680	Limestone, tan	24	160
No record	20	1,700	Marl, many shells	40	200
Sand, marl, and silt, reddish-brown	15	1,715	Marly limestone, cream colored	22	222
Clay and marl, pink, with green streaks	20	1,735	Limestone, hard	40	262
No record	40	1,775	Limestone, cream colored, dense	23	285
Clay, sandy, and sand	25	1,800	Limestone, tan	19	304
Sand, light greenish-gray	15	1,815	Limestone, dense, small amount of sand	16	320
Sand, pinkish-white	14	1,829	Shale, gray, soft	54	374
Sand, light gray	2	1,831	No record	46	420
Shale, sticky, hard	2	1,833	Limestone, white with coarse sand inclusions	20	440
			Sand	26	466

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-202			Well YD-58-42-202—Continued		
Owner: Marion Fowler Driller: S. W. Glass Drilling (Description of samples by R. L. Bluntzer)			Same limestone (70%); anhydrite and gypsum (15%) as above; light to dark gray, slightly fissil to gummy shale (15%)		
Soil and white to creamy caliche	12	12		61	511
Light to dark gray, finely crystalline to silty, hard to soft, carboniferous, fossiliferous, limestone (80%); white to buff finely crystalline limestone (20%); some anhydrite	53	65	Dark gray, silty, calcareous shale (100%)	49	560
Finely crystalline, sandy to silty, fossiliferous (shell fragments), carboniferous, limestone (90%); light to dark gray limestone above (5%); and white anhydrite (5%)	38	103	Dark gray, silty to slightly sandy shale (90%); light gray to buff, finely crystalline, silty limestone (10%); some anhydrite and gypsum	39	599
Light gray, slightly carboniferous, gummy shale (falls apart when moistened) (100%)	3	106	Dark gray, silty to medium, slightly coarse, calcareous, shaly, sandstone (90%); limestone above (10%)	12	611
Light to dark gray, silty to sandy, calcareous, slightly carboniferous shale (95%); and silty to sandy, carboniferous limestone (5%)	43	149	Fine to coarse, mostly medium, well sorted, angular to subrounded (subrounded-frosted and angular-clear), slightly arkosic, quartz sand (feldspar grains make up less than 5% of sample)	34	645
Same shale as above (100%)	53	202	Fine to very coarse, mostly medium, poorly sorted, angular to well-rounded (angular-clear and well rounded-frosted), arkosic, quartz sand (feldspar and other grains make up 30% of the sample)	6	651
Finely crystalline, silty to sandy, carboniferous, fossiliferous, pyritic limestone (70%); same shale as above (20%); and light gray finely crystalline limestone (10%); Fossils— <i>Corbula</i> (pelecypods) and gastropods	28	230	YD-58-42-203 Owner: Dewitt Langford Driller: Texas Water Wells (Log from Texas Board of Water Engineers Bulletin 5708)		
Same limestone as above (60%); white anhydrite (40%)	72	302	Lime rock, hard	22	22
White to gray anhydrite (75%); clear crystals of gypsum (20%); same limestone as above (5%)	21	323	Limestone, gray	219	241
Light gray to white anhydrite (70%); clear crystals of gypsum (10%); tanish gray, finely crystalline limestone (15%); and light gray, gummy, shale (5%)	10	333	Sand and hard layers	62	303
Anhydrite (50%); gypsum (25%); limestone (25%) as described above	27	360	Lime, small streaks of sand	52	355
Light to dark gray, finely crystalline, silty to sandy, slightly carboniferous limestone (90%); white to light gray anhydrite and gypsum (10%)	27	387	Limestone, hard, and sand layers	131	486
Same limestone (60%) and anhydrite and gypsum (10%) as above	63	450	Shale, sandy, layers of sand and rock	47	533
			Sand, shale streaks, lime rock, sandy shale	75	608
			Shale, sandy	37	645
			Sand, shale, and limestone layers	125	770
			Limestone, shale and sand streaks	90	860
			Sand and limestone	48	908
			Limestone and chert	12	920
			Chert and black shale which is very hard in spots and turns gray when dry	207	1,127

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)	
YD-58-42-302			YD-58-42-401—Continued			
Owner: M. E. Hart Driller: J. R. -Bob- Johnson Drilling and Supply (Log from Texas Board of Water Engineers Bulletin 5708)			Limestone, grayish-tan, crumbly	10	590	
No record	550	550	Clay, gray, massive	30	620	
Limestone	34	584	Limestone, hard, sugary	70	690	
Sandstone, gray, broken, much water	61	645	Well YD-58-42-502			
Limestone, gray, sandy	4	649	Owner: St. Stephens Episcopal School Driller: Layne Texas Co. (Complete log not shown; all descriptions are from cuttings unless indicated otherwise. Description of samples by Helen Jeanne Plummer.)			
Limestone	25	674	Glen Rose limestone			
Limestone, very hard	8	682	Buff (oxidized) and gray limestone fragments. The weathered fragments show the abundance of included fossils in bold relief. The gray limestone comprises a white matrix in which are set numerous rotund dark bodies, which are so characteristic of the Glen Rose. "Whether the Comanche Peak and Walnut limestones can be so characterized has not been ascertained." Hard, white limestone and many loose rotund dark bodies, as well as many rotund white bodies, many of which are in reality miliolids, others may be oolites.			
Limestone	37	719				
Limestone, lost circulation from 750 to 760 ft	87	806				
Limestone, some loss of circulation	95	901				
Limestone, hard streaks from 942 to 958 ft	77	978				
Limestone	56	1,034				
Limestone, very broken	23	1,057		30	30	
Limestone, hard, broken	38	1,095				
Limestone	28	1,123				
Limestone, very hard	7	1,130		20	50	
Limestone, soft	8	1,138		3	53	
YD-58-42-401				Some hard limestone fragments with dark rotund inclusions; abundance of loose free dark bodies and similar white bodies that vary from subspherical through ellipsoidal to lenticular. Many of these light-colored bodies are miliolids.		
Owner: Clifton S. Winstead Driller: S. W. Glass Drilling (Log from Texas Board of Water Engineers Bulletin 5708)				White, dense, hard limestone with many dark inclusions and some miliolids. Abundance of loose dark and white rotund bodies representing many miliolids.		
Topsoil	10	10				
Limestone, hard, white	40	50		75		
Limestone, pale tan, compact, fairly hard, sugary	90	140				
Limestone, white, soft	40	180				
Marl, soft	10	190	23	98		
Limestone, white, many shells	20	210				
Limestone, soft, nodular, marly	100	310				
Limestone, pale tan, sugary	30	340	22	120		
Limestone, white	10	350	1	121		
Limestone, hard, white, nodular	20	370	No record.			
Limestone, hard, white	150	520	22	143		
No record	35	555				
Limestone, hard	10	565	White limestone and "lime sand" or "miliolid sand." Dark inclusions common both in the hard limestone fragments as free bodies knocked free by the action of the bit.			
Limestone, hard, grayish-tan, sugary	15	580	21	164		

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-502—Continued			Well YD-58-42-502—Continued		
Same as above.	23	187	Sample consists about half of the same white limestone and calcite as above, but also many free, dark, rounded bodies popped out of a cream-colored matrix by the drill.	20	393
Tan, finely saccharoidal, dolomitic limestone, together with a richly miliolid hard dense, white limestone as well as a white limestone carrying numerous dark inclusions.	22	209	Same.	48	431
Similar to above.	20	229	No record.	2	433
Sample about 3/4 cream-colored, dense, to somewhat porous, very finely saccharoidal and dolomitic limestone rich in miliolids. Remainder a dense, gray limestone comprising a white matrix enclosing dark-gray rotund bodies, or psuedo-oolites, as they are called by some.	21	250	About 1/4 of the sample is a yellowish-cream dense limestone, many fragments being a coquina, others with a generous scattering of miliolids, still others rich in calcite. Most of the material consists of dark and cream-colored rotund bodies beaten out of the original matrix by the drill.	20	453
About 80% fine, gray limestone fragments and the free white and dark rotund bodies of the original rock consisting of these bodies in a cream-colored matrix. Remainder of sample a dense to somewhat porous, finely saccharoidal and miliolid limestone.	23	273	No record.	10	463
			Much very pale cream to almost white small fragments of calcitic limestone; many free, dark, rotund bodies and clear calcite.	10	473
Entire sample composed of gray limestone fragments (many dark rotund bodies in a cream-colored matrix) and abundance of dark and cream-colored rounded bodies knocked from the matrix by the action of the drill. <i>Orbitolina</i> rare, few casts of gastropods, trace of echnoid spines, trace oyster shells.	22	295	Similar to above. Rare <i>Orbitolina</i> .	25	498
			Largely minute fragments of cream-colored limestone, some quite porous and very finely saccharoidal; much calcite; scattering of free light to dark rotund bodies.	16	514
Dense, gray, very finely saccharoidal limestone. In the larger fragments distinct dark bodies are not commonly present, but the finer portion consists of very fine fragments of the matrix from which the dark and light rotund bodies have been freed. <i>Orbitolina</i> rare.	23	318	Much almost white, dense limestone fragments, some distinctly saccharoidal, others of a smooth texture. Few porous fragments. Calcite abundant. Generous scattering of free dark, rotund bodies.	29	543
			Same.	24	567
Sample composed of beat-up gray limestone that was originally a light cream-colored to tan matrix enclosing an abundance of dark and light rotund bodies, of which the finer portion of the sample consists. Few shells, <i>Orbitolina</i> rare.	20	338	Cream-colored limestone fragments and numerous free gray to cream-colored rotund bodies that represent an original limestone matrix enclosing these distinct bodies. Little tan saccharoidal limestone.	22	589
			Same.	23	612
Same.	15	353	Same.	21	633
			No record.	22	655
Brilliant white limestone with crystals of accicular clear calcite that may represent veins or small geodal cavities. Considerable crystalline calcite.	20	373	Same as above, but with a little yellowish, dense, coquinoid limestone. About 9/10 of the sample comprises very small fragments of gray limestone (dark bodies in a cream-colored matrix), and an abundance of free, gray and cream-colored bodies. Shell fragments frequent.		

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-502—Continued			Well YD-58-42-502—Continued		
<i>Orbitolina</i> rare. Considerable calcite.	22	677	Largely loose, coarse sand with some calcareous matter in small fragments and dark bodies.	15	878
Sample largely as above, but with a new feature - some quartz sand. Wholly clear quartz sand rather coarse.	23	700	No Record.	27	905
Core:			Sand; much calcareous matter as limestone, sandy or silty limestone, and little greenish-gray shale and silty shale	24	929
Hard, almost white, calcareous sandstone of fine texture.	1	701	Similar to above, but somewhat larger proportion of sand.	16	945
Core:			No Record.	24	969
Very tight, hard, mottled pink and tan calcareous siltstone with scattered larger quartz grains.	2	703	Largely sand, very little reddish silty shale.	21	990
Core:			Paleozoic		
Mottled pink, gray, and greenish-gray, calcareous sandstone or very sandy limestone composed of very poorly sorted quartz grains in a limestone matrix.	3	709	Besides the loose sand, limestone fragments, frequent chips of brown chert, black carbonaceous matter, and fossils are a coarse-textured hard, gray sandstone and some schistose shale that are undoubtedly Paleozoic.	14	1,004
Abundance of sand grains and some very sandy limestone.	11	720			
Finely broken-up limestone, such as was out above 700 ft.	20	740			
Core:			Well YD-58-42-503		
Hard, brown, porous siltstone.	10	750	Owner: Fred Morris Driller: Charles Calhoun (Log from Texas Board of Water Engineers Bulletin 5708)		
No Record.	3	753	Edwards Limestone, water at 198 ft	198	198
Largely coarse sand; small limestone fragments and dark bodies, probably from above.	10	763	No record	142	340
Very small limestone fragments and dark bodies; considerable fairly coarse sand.	23	786	Limestone, bluish-gray, soft, water at 340 ft	10	350
Very largely poorly sorted sand, little calcareous material as above.	23	809	No record	40	390
Core:			Limestone, white	30	420
Reddish-brown, argillaceous and calcareous silt or silty clay, carrying many scattered sand grains.	6	815	No record	130	550
Loose, poorly sorted sand up to coarse rounded grains. Some limestone fragments; one test of <i>Orbitolina texana</i> , possibly from a higher level.	20	835	Sand	20	570
Similar to above	20	855	No record	15	585
No Record.	8	863	Clay	50	635
			Limestone, sandy	82	717
			Sandstone, fine	53	770
			Sand, water-bearing	20	790
			Limestone, blue	25	815
			Limestone, white	42	857
			Sand, blue, soft	57	914
			Sand, gray, water-bearing	26	940

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-503—Continued			Well YD-58-42-701—Continued		
Sand, coarse, getting finer and harder with depth	37	977	Sand	20	510
Red beds	10	987	Lime shells	10	520
			Shale, blue	30	550
Well YD-58-42-701			Lime, hard, white	3	553
Owner: Marshall and Troupe			Shale	7	560
Driller: Shell Oil Co.			Shale, sandy	15	575
(Log from Texas Board of Water Engineers Bulletin 5708)			Gumbo	15	590
Lime, white	5	5	Sand, gray	12	602
Clay, yellow	7	12	Lime, hard	4	606
Lime, white	21	33	Shale	14	620
Gumbo	4	37	Sand, hole full of water	20	640
Lime, broken	28	65	Shale, blue	30	670
Gumbo	15	80	Sand, red beds (water at 700 ft, hole full of water)	150	820
Lime, sandy, broken	15	95	Lime	2	822
Shale, gray	50	145	Sand, coarse-grained (water at 900 ft)	113	935
Lime, sand	15	160	Clay, yellow	35	970
Sand, white, water-bearing	10	170	Sand	10	980
Shale, sandy	20	190	Shale, black, little flakes of white at 1,070 ft	90	1,070
Lime, sand, broken	20	210	Shale, black, no water	765	1,835
Lime, hard, gray	15	225			
Sand, lime shells	10	235	Well YD-58-42-803		
Shale	30	265	Owner: R. D. Johnson		
Sea shells	10	275	Driller: Farrer Well Drilling Co.		
Shale	15	290	(Log from Texas Board of Water Engineers Bulletin 5708)		
Lime hard	5	295	Fault	230	230
Shale, sandy	5	300	Lime, gray	40	270
Sand, dry	15	315	Lime, white	25	295
Shale, sandy	5	320	Lime, gray	23	318
Gravel	12	332	Sand and lime, water-bearing (3 gpm)	67	385
Sand, white, water-bearing	28	360	Lime, gray	39	424
Lime, sandy, broken	5	365	Lime, white	23	447
Shale	20	385	Lime, gray	18	465
Sand, fine-grained, white	40	425	Lime, white	81	546
Sand and shells	5	430	Lime, light-brown	20	566
Shale, gray	15	445	Lime, white	11	577
Lime shells	2	447	Lime, gray	27	604
Lime, hard, white (water)	3	450	Shell	8	612
Shale, sandy	15	465			
Shale	25	490			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-42-803—Continued			Well YD-58-43-704—Continued		
Lime, white	13	625	Limestone	600	1,190
Lime, gray	96	721	Sand rock (water)	25	1,215
Lime, blue	5	726	Limestone	300	1,515
Lime, gray	54	780	Shale, blue	60	1,575
Lime, white and sand	35	815	Limestone	100	1,675
Lime, white	30	845	Sand rock, main flow	200	1,875
Lime, hard, white	17	862	Shale, blue	40	1,915
Sand	45	907	Sand rock	50	1,965
Corrected depth	—	897	Shale	60	2,025
Well YD-58-43-401			Well YD-58-44-202		
Owner: State of Texas Driller: H. McGillvray (Log from Texas Board of Water Engineers Bulletin 5708)			Owner: City of Manor Driller: Eppright and H. McGillvray (Log from Texas Board of Water Engineers Bulletin 5708)		
Shale, dark	80	80	Black soil (Navarro Group)	6	6
Limestone, very hard (Buda Limestone)	25	105	Yellow clay (Navarro Group)	11	17
Marl, blue (Grayson Shale) (Del Rio Clay)	90	195	Flint rock and gravel (Navarro Group)	3	20
Limestone and alternations of limestone, marl, and sand	1,105	1,300	Yellow and joint clay (Navarro Group)	30	50
Sand, water-bearing	15	1,315	Blue clay; at 400 ft blue clay gets lighter color; from 435 to 480 ft very dark and caves from (Talor Marl)	540	590
Limestone	60	1,375	Rock; at about 800 ft deep soft strata in rock (Austin Chalk)	410	1,000
Shale, rotten	50	1,425	Shale; caves badly (Eagle Ford Shale)	25	1,025
Limestone	60	1,485	Hard rock (Buda Limestone)	50	1,075
Sand, water-bearing	315	1,800	Blue clay (Grayson shale) (Del Rio Clay)	60	1,135
Shale or marl, blue; no limestone	175	1,975	Lime rock; water at 1,250 ft - no good (Georgetown Limestone)	115	1,250
Well YD-58-43-704					
Owner: F. B. Perry Driller: H. McGillvray (Log from Texas Board of Water Engineers Bulletin 5708)					
Surface dirt	20	20	Rock; at 1,300 ft pyrite boulder (Edwards Limestone)	50	1,300
Gravel bed (water)	5	25	Rock; hard and soft in places (Edwards Limestone)	70	1,370
Limestone	100	125	Sandy and soft rock (Edwards Limestone)	8	1,378
Shale	70	195	Limestone (Edwards Limestone)	42	1,420
Limestone	25	220	Solid limestone	480	1,900
Marl, blue	40	260	Blue marl	10	1,910
Limestone	100	360	Solid limestone	440	2,350
Sand rock	10	370	Not given	210	2,560
Limestone	70	440			
Sand rock and limestone (sulfur water)	150	590			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-51-102			Well YD-58-51-102—Continued		
Owner: City of Austin Driller: Layne Texas Co. (Log from Texas Board of Water Engineers Bulletin 5708)			Lime rock	13	2,084
			Rock	12	2,096
Soil	6	6	Shale	18	2,114
Lime rock	189	195	Rock	12	2,126
Sand and shale	15	210	Sand rock, fine, lime and cement	25	2,151
Lime rock	30	240	Rock, hard	9	2,160
Shale, black	35	275	Sand and rock	11	2,171
Lime rock, blue	35	310	Rock	7	2,178
Mud, blue	35	345	Sand	3	2,181
Shale, black	39	384	Rock, porous	8	2,189
Rock	399	783	Sand and rock	24	2,213
Rock, flint	16	799	Shale	20	2,233
Rock, hard	29	828	Rock and shale	13	2,246
Rock	142	970			
Rock, hard	47	1,017	Well YD-58-51-901		
Rock	104	1,121	Owner: Clause Philquist Driller: Allen and Stolley (Log from Texas Board of Water Engineers Bulletin 5708)		
Lime, soft	34	1,155	Clay	35	35
Rock and black shale	22	1,177	Sand rock	3	38
Rock	62	1,239	Shale, sticky	362	400
Rock, hard	21	1,260	Shale, sandy	18	418
Rock	374	1,634	Shale, sticky	32	450
Limestone and conglomerate	40	1,674	Shale, sandy	15	465
Sand rock	17	1,691	Shale, sticky	38	503
Sand	18	1,709	Shale, sandy	25	528
Sand rock	15	1,724	Shale, hard	127	655
Sand	121	1,845	Shale, sticky	10	665
Shale	5	1,850	Shale, hard	15	680
Sand	43	1,893	Shale, sticky	60	740
Shale	14	1,907	Shale and gravel	7	747
Sand, sharp	18	1,925	Shale, sticky	25	772
Sand, fine	12	1,937	Shale, sandy	23	795
Sand, hard	7	1,944	Shale, hard	45	840
Shale	23	1,967	Shale, sticky	54	894
Sand rock and lime	33	2,000	Shale	66	960
Shale	28	2,028	Shale, sticky	16	976
Shale, sticky	7	2,035	Chalk and shale	4	980
Rock, hard	8	2,043	Chalk	103	1,083
Shale and lime	28	2,071			

Table 3.—Drillers' Logs of Selected Wells in Travis County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well YD-58-51-901—Continued			Well YD-58-51-901—Continued		
Shale, chalky	34	1,117	Lime, sandy	11	2,413
Chalk, broken	143	1,260	Lime, sandy (streaks of shale)	52	2,465
Shale, chalky	11	1,271	Lime, sandy	25	2,490
Chalk	10	1,281	Sand, hard	11	2,501
Shale, sticky	15	1,296	Lime, sandy	15	2,516
Lime	91	1,387	Lime, broken, and shells	12	2,528
Shale, sticky	14	1,401	Lime and shells (cored)	2	2,530
Lime	47	1,448	Lime, porous, and shells	45	2,575
Shale, sticky	2	1,450	Lime and shells	40	2,615
Lime	60	1,510	Lime	137	2,752
Edwards Limestone	529	2,039	Lime, sandy	135	2,887
Lime, sandy (cavities)	133	2,172	Shale, sandy, blue	2	2,889
Lime, sandy	49	2,221	Shale, sandy, hard, and lime	19	2,908
Lime	42	2,263	Lime, hard, sandy (streaks of shale)	11	2,919
Lime, hard	32	2,295	Lime, hard, sandy	6	2,925
Lime	10	2,305	Lime, hard, sandy, and shale	9	2,934
Shale, hard, sandy	7	2,312	Lime, hard, sandy	9	2,943
Lime (cored)	11	2,323	Lime and shells	22	2,965
Lime, sandy (streaks of shale)	49	2,372	Shale, sandy with streaks of lime	20	2,985
Lime	13	2,385	Lime and shale	6	2,991
Lime, sandy (streaks of shale)	17	2,402	Sand and shale (cored)	17	3,008

WILLIAMSON COUNTY

Table 2.—Selected Oil, Gas, and Stratigraphic Tests

Type Log: E, Electric; R, Radioactive; S, Sample.
Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
ZK-58-09-501	Atlantic-Richfield	Harry B. Lewis No. 1	1967	8,462	981	E,S
601	Shell Oil Co.	Purcell No. 1	1954	9,470	1,069	E,S
901	Hewit and Dougherty	J. W. Pearson No. 1	1952	9,104	1,080	E
12-406	S. L. Carpenter	S. J. Seward No. 1	1948	2,023	893	E
19-809	Layne Texas Co.	City of Georgetown No. ?	1946	1,698	750	E
22-401	Puma Oil and Gas Co.	Rosie Simcik No. 1	1948	2,145	490	E
27-701	Louis Henna, et al.	Alsa Brook No. 2	1948	2,333	759	E
28-301	M. N. Stafford	Tubbs No. 1	1964	2,919	610	E
29-901	Grubb and Fertitta	Marjorie Rhoades No. 1	1966	1,445	500	E
34-302	I. C. Pearson	Pearson-D-H-A Well	1953	1,400	900	R
35-101	do.	O. H. Parker	1956	6,000	925	R
37-201	W. M. Jarrell	L. V. Coupland No. 1	1950	3,572	545	E
601	Anderson-Pritchard Oil Co.	Theo Schwenke No. 2	—	1,326	522	E

WILLIAMSON COUNTY

Table 3.—Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-10-204			Well ZK-58-13-502—Continued		
Owner: City of Florence Driller: Wright Drilling Co.			Lime	38	1,041
Topsoil	2	2	Lime rock	10	1,051
Caliche	13	15	Lime	31	1,082
Firm, blue limestone	100	115	Lime rock	31	1,113
Blue shale	25	140	Lime	24	1,137
Blue limestone	552	692	Lime rock	10	1,147
Sand and water	33	725	Lime and shale	17	1,164
Hard limestone	7	732	Lime	18	1,182
Shale	4	736	Rock	67	1,249
Hard, gray limestone	40	776	Rock and layers of shale	36	1,285
Hard, sandy limestone	4	780	Lime rock	46	1,331
Sand	67	847	Rock with layers of shale	19	1,350
Red bed	9	856	Lime	36	1,386
Dark shale	1	857	Rock	38	1,424
			Lime	62	1,486
			Shale and rock	109	1,595
Well ZK-58-13-502			Well ZK-58-13-503		
Owner: City of Bartlett Driller: Layne Texas Co.			Owner: City of Bartlett Driller: J. L. Myers Sons		
Soil	3	3			
Clay and gravel	53	56	Clay and gravel	40	40
Green shale	153	209	Sand and clay	25	65
Hard shale with pyrites of iron	75	284	Shale	100	165
Hard shale or chalk	15	299	Rock	113	278
Rock	29	328	Shale	166	444
Lime rock	107	435	Lime rock	326	770
Rock	72	507	Shale	80	850
Lime rock	81	588	Lime shale	100	950
Rock	52	640	Lime	22	972
Lime with hard layers	125	765	Lime rock	57	1,029
Brown shale	78	843	Shale	46	1,075
Rock	37	880	Lime rock	54	1,129
Shale	65	945	Lime	124	1,253
Rock	26	971	Lime shale	56	1,309
Hard lime	9	980	Lime	331	1,640
Rock	12	992	Broken lime	294	1,934
Lime	6	998	Broken shale	137	2,071
Rock	5	1,003	Shale	29	2,100

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-13-503—Continued			Well ZK-58-17-803		
Sand	30	2,130	Owner: Liberty Hill Water Supply Corp. Driller: Wright Drilling Co.		
Broken lime	96	2,226			
Shale	69	2,295	Black topsoil	1.5	1.5
Sand	80	2,375	Red clay and gravel	4.5	6
Broken sand	93	2,468	Caliche	22	28
Sand	149	2,617	Blue, sandy clay and gravel	9	37
			Soft, blue limestone	103	140
			Firm, gray limestone	180	320
			Dry sand of the Trinity formation	8	328
Well ZK-58-17-301					
Owner: W. B. Collins Driller: Powell Drilling					
Soil and rock	12	12	Fine, gray sand - Trinity - dry	8	336
Yellow rock and gravel	2	14	Dark gray sand rock	37	373
Lime rock	10	24	Hard lime shelf	2	375
Blue lime rock	14	38	Sand rock	6	381
White lime rock	64	102	Trinity sand and thin rock ledges with water	61	442
Lime (water - 1 gpm)	6	108	Hard, white limestone	58	500
White, lime rock	12	120			
Dark gray formation	6	126			
White, lime rock	82	208			
White, sandy lime	12	225	Well ZK-58-18-401		
White and yellowish lime	55	280	Owner: Walter Carrington Driller: Sterzing Drilling Co.		
Hard, cap lime	1	281	(Description of samples by R. L. Bluntzer)		
Black shale	4	285	Not sampled	35	35
Shale layers	7	292	Light brownish gray, coarsely crystalline, dolomitic limestone (40%); dark gray to black, finely crystalline, shaly, asphaltic oolitic limestone (15%); buff, finely to coarsely crystalline, fossiliferous (fragments) limestone (5%); white anhydrite (10%); and shale (30%)	5	40
Dove-color, sharp lime and some sand	31	323		15	55
Coarse, dry sand	5	328	Not sampled		
Lime layer	2	330	White to light gray, finely crystalline, fossiliferous, asphaltic, oolitic, limestone (35%); brownish gray to dark gray, fine crystalline, silty limestone (10%); White anhydrite (5%); trace of buff limestone as above; and shale (50%)		
Fine sand (water slowly rising 10 to 15 gpm)	4	334			
Layers of coarse sand (no change in water)	7	341			
Coarse sand	5	346			
White, coarse sand	18	364			
Buttermilk lime and sand	14	378			
Loose, medium sand	6	384		5	60
Green shale	1	385	Not sampled	15	75
Medium sand	11	396	White to dark gray to black, oolitic, finely crystalline, asphaltic, fossiliferous, limestone (30%); dark gray, finely crystalline, silty limestone (10%); white anhydrite (20%); and shale (40%)		
Coarse sand (main water sand)	14	410			
Hard, white, limy sand, running out	10	420		5	80

Table 3.—Drillers' logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-17-301—Continued			Well ZK-58-17-301—Continued		
Not sampled	15	95	White to light tannish gray, hard, highly fossiliferous, pyritic, calcitic (in seams, crystals and fossils) slightly oolitic, limestone (100%)		
White to purple to brownish gray anhydrite (40%); same limestone as above (25%); and shale (35%)	5	100		5	260
Not sampled	15	115	Not sampled	15	275
White to gray anhydrite (30%); limestone above (10%); and shale (60%)	5	120	Light tannish gray, finely crystalline, very fossiliferous, slightly oolitic, pyritic, very sandy to silty, slightly shaly carboniferous limestone (100%)		
Not sampled	15	135		5	280
Light gray, finely crystalline, hard fossiliferous, silty to sandy limestone (75%); anhydrite (10%); and shale (15%)	5	140	Not sampled	15	295
Not sampled	15	155	Same limestone as above but very very shaly (80%); and dark brownish gray to light gray, silty to sandy, calcareous shale (20%)	5	300
Light gray to dark gray, very sandy to very silty, shaly, fossiliferous, asphaltic finely to coarsely crystalline, limestone (95%); and shale (5%)	5	160	Very fine to very coarse, poorly sorted, silty to shaly, angular, loose sand with grains of clear to brown quartz and very fine to coarse, poorly sorted, silty, well carbonate cemented calcareous, slightly shaly, hard, white to dark gray sandstone (65%); and light gray, hard, very calcareous, silty to slightly sandy, slightly fossiliferous shale (35%)		
Not sampled	15	175		5	305
Cream to dark gray, sandy to silty, fossiliferous, asphaltic, finely to coarsely crystalline, shaly limestone (40%); light brownish gray, coarsely crystalline, shaly limestone (20%); and dark gray, slightly sandy to silty, shale (40%)	5	180	Same sand and sandstone as above except very fine to very coarse and pebbly quartz (50%); and same shale as above (50%)		
Not sampled	15	195		5	310
Same cream to dark gray limestone as above but with calcite seams and highly fossiliferous (85%); and shale above (15%)	5	200	Light gray silty to slightly sandy, soft, very gummy, shale (100%)	5	315
Not sampled	15	215	Light gray, hard, silty to slightly sandy, fossiliferous, slightly pyritic, slightly carboniferous limestone (85%); and same sand and sandstone as from 300 to 305 ft (15%)	5	320
Same cream to dark gray limestone as above (30%); and very fine to fine, very very shaly to silty, light gray, bentonitic, lignitic pyritic, calcareous sandstone (70%); first water (as seep) reported by driller; water samples taken	5	220	Dark gray, hard to gummy, silty to sandy, calcareous, shale (60%); same limestone as above (40%); and some same sand as above		
Not sampled	15	235		5	325
Light gray, very limy, very shaly to silty very fine to fine, fossiliferous slightly pyritic sandstone (80%); and same cream to dark gray limestone as above (20%)	5	240	Hard, brownish gray, very sandy, fossiliferous (fragments), calcareous shale—actually siltstone (90%); and same limestone as above from 315 to 320 ft (10%)	5	330
Not sampled	15	255			

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-17-301—Continued			Well ZK-58-17-301—Continued		
Hard, light gray, sandy to silty, fossiliferous, very calcareous, slightly pyritic shale (90%); and same shale (siltstone) as above (10%)	5	335	Same sandstone as above from 370 to 375 ft (90%); and same limestone as above from 370 to 375 ft (10%)	5	380
Very fine, well-sorted, very very shaly, silty, calcareous sandstone (100%)	5	340	Same sandstone as above from 370 to 375 ft (20%); very fine to coarse, mostly very fine, well sorted, subangular (large grains) to rounded (small grains), very silty to slightly shaly calcareous, calcitic, quartz sandstone (60%); and dark gray, fissil, laminated shale (20%)	5	385
Very fine to very coarse, mostly fine (well-sorted), subrounded to rounded, slightly pebbly, silty to shaly, calcareous, calcitic (possibly in seams as crystals), light to dark brownish gray, quartz sandstone (95%); white to light gray, finely crystalline, limestone (5%); and some white anhydrite	5	345	Same sandstone as above from 380 to 385 ft (55%); same sandstone as above from 370 to 375 ft (40%); and same laminated shale as above from 380 to 385 ft (5%)	5	390
Same sandstone as above from 340 to 345 ft but has pebbles and sand grains of black chert (20%); and light gray, hard to gummy, silty to sandy, fossiliferous, calcareous shale (80%)	5	350	Very fine to pebbly, poorly sorted, subangular to rounded, very very shaly, silty sand and sandstone (80%); and same sandstone (listed 2nd-from 380 to 385 ft as above (20%))	5	395
Same shale as above but very gummy (100%)	5	355	Same sandstones as above from 390 to 395 ft and 380 to 385 ft (100%)	5	400
Same shale as above (90%); and same sandstone as above from 340 to 345 ft (10%)	5	360	Same sandstones as above from 395 to 400 ft (100%)	5	405
Dark to light gray, hard to slightly gummy, silty to sandy shale (40%); light gray to white, finely crystalline, brown stained, fossiliferous, limestone (40%); same sandstone as above from 340 to 345 ft (20%)	5	365	Very fine to very coarse, very pebbly, very silty, poorly sorted, rounded (frosted) to angular (unfrosted), very loose to slightly cemented, slightly asphaltic, pyritic, mostly clear quartz sand with some grains of brown, black, and white chert and some limestone (60%); very hard, very fine to coarse, carbonate cemented sandstone with same grain of quartz etc. as above (10%); and gray, laminated, slightly silty shale (30%)	5	410
Same shale as above from 360 to 365 ft (60%); same limestone as above from 360 to 365 ft (10%); and same sandstone as above from 360 to 365 ft (30%)	5	370	Tannish gray, finely crystalline, very pyritic, hard, silty to sandy limestone (35%); and very fine to coarse, silty, pebbly, carbonate cemented, pyritic, light tannish to dark gray, slightly ferruginous sandstone with grains of clear quartz and brown and black chert (65%)	5	415
Very hard, very fine to pebbly, poorly sorted, subangular to rounded, carbonate cemented, very silty, fossiliferous (fragments) calcareous, light to dark gray sandstone with grains of gray, brown, and clear quartz, white to buff to gray limestone, black siltstone and shale that is mostly quartz (60%); and light tannish gray, hard, very silty to very sandy fossiliferous, calcitic (in seams), slightly oolitic, limestone (40%)	5	375	Fine to coarse, reasonably sorted, subangular to well rounded, pyritic, mostly clear quartz, loose sand with some grains of limestone (?) and chert (100%); and some carbonate cemented sandstone; first good water sand	5	420

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-17-301—Continued			Well ZK-58-17-301—Continued		
Same sand as above from 415 to 420 ft (100%)	5	425	Same limestone as above from 470 to 475 ft (50%); and same sand as above from 470 to 475 ft (50%)	5	480
Medium to coarse, pebbly, angular to subrounded, frosted, pyritic, loose sand with grains of clear quartz, dark gray limestone and white, gray and black chert (80%); and very fine to medium, carbonate cemented, light gray to white, pyritic sandstone (20%)	5	430	White to light gray, very fine to fine, medium sorted, hard, carbonaceous, calcareous, slightly silty sandstone (40%); same sand as above from 470 to 475 ft (40%); and white to tannish gray to light gray, slightly oolitic, finely crystalline, slightly silty to sandy, hard limestone (20%)	10	490
Same sand as above from 425 to 430 ft (30%); same sandstone as above from 425 to 430 ft (40%); white to light gray, finely crystalline, pyritic, silty to sand, hard limestone (25%); and light gray, laminated, silty, calcareous, shale (5%)	5	435	Same sandstone as above at 480 to 490 ft (75%); same sand as above at 470 to 475 ft (20%); same limestone as above at 480 to 490 ft (5%)	10	500
Light tannish to dark gray finely crystalline, pyritic, silty to sand, hard limestone (100%)	5	440	Light gray, very fine to medium, slightly pebbly, poorly sorted, hard, calcareous, silty sandstone (80%); same sand as above at 470 to 475 ft (15%); and same limestone as above at 480 to 490 ft (5%)	5	505
Same limestone as above from 435 to 440 ft (60%); same sand and sandstone as above from 425 to 430 ft (40%)	5	445	Medium to pebbly, angular to rounded (frosted) poorly sorted, pyritic, slightly ferruginous, silty, arkosic (gray, feldspar?), clear to white to greenish gray and tan, loose, mainly quartz sand with other grains of feldspar (?), limestone, dolomite, chert, and chlorite (90%); same sandstone as above at 500 to 505 ft (5%); and same limestone as above at 480 to 490 ft (5%); second good water sand - but bad odor from oil	5	510
Not sampled	5	450			
White to dark gray, finely crystalline, pyritic, slightly silty to sandy, hard limestone (90%); and same sand and sandstone as above from 440 to 445 ft (10%)	5	455			
Same limestone as above from 450 to 455 ft (80%); and same loose sand as above from 440 to 445 ft (20%)	5	460			
Same limestone as above from 450 to 455 ft (90%); same sand and sandstone as above from 440 to 445 ft (10%)	5	465			
Same limestone as above from 450 to 455 ft (50%); and same sand as above from 440 to 445 ft (50%)	5	470			
White to buff to brown, finely crystalline, silty to sandy, hard limestone (30%); and fine to pebbly, rounded (frosted) to angular (slightly frosted), poorly sorted, carboniferous, pyritic, ferruginous, very shaly to silty, loose, clear to gray to brown quartz sand with other grains of limestone and chert (70%)	5	475			
			Well ZK-58-19-803		
			Owner: City of Georgetown Driller: Layne Texas Co.		
			Topsoil	5	5
			Clay and limestone	7	12
			Blue shale and limestone	36	48
			Limestone and shale breaks	23	71
			Limestone	13	84
			Limestone, lost returns	16	100
			Hard, no returns	3	103
			Porous - limestone	1.5	104.5

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-19-803—Continued			Well ZK-58-19-809		
No returns	3	107.5	Owner: City of Georgetown Driller: Layne Texas Co.		
Porous limestone	1.5	109	(Description of samples by F. W. Rolshausen)		
No returns	2	111	No record	37	37
Porous limestone	1	112	Light gray, faintly glauconitic, chalky limestone <i>Oolina</i> sp. Ostracods Oysters <i>Globigerina wasitaensis</i> <i>Anomalina plummerae</i> <i>Lenticulina qualitina</i> Echinoid spines <i>Cyroidina</i> sp. <i>Textularia rioensis</i> <i>Lagina sulcata</i> <i>Globigerina cretacea</i>		
Hard	1.5	113.5			
Porous limestone	1.5	115			
Hard	4	119			
Porous limestone	3	122			
Hard	2	124			
Porous limestone	3	127			
Hard	2	129		33	70
Porous limestone	10	139	No record	31	101
Hard	10	149	Like above, some chert	30	131
Porous limestone	6	155	No record	93	224
Hard	4	159	Granular, cavernous, cherty limestone and some anhydrite	31	255
Porous limestone	27	186	<i>Orbitolina walnutensis</i> Round form Small, thin pelecypod Gastropod Miliolidae Ostracod Echinoid spines		
Well ZK-58-19-804					
Owner: City of Georgetown Driller: Layne Texas Co.					
Topsoil	3	3	Tan, granular limestone and hard, light gray, chalky limestone	31	286
Clay	6	9			
Limestone	61	70	Hard light tannish gray, chalky limestone with thin partings of brownish gray, marly shale	31	317
Limestone, lost circulation	57	127	No record	30	347
Porous limestone	12.67	139.67			
Crack	.33	140	Pale gray, fossiliferous marl and chalk <i>Eponides</i> sp. Echinoid spines Ostracods Oysters	30	377
Limestone	18	158			
Porous limestone	7	165			
Hard limestone	10	175	Hard, light tannish gray, chalky limestone and some gray, fossiliferous, chalky marl	31	408
Soft limestone	35	210	Like above, more fossils, trace of anhydrite <i>Lituola</i> sp.	31	439
Well ZK-58-19-805					
Owner: City of Georgetown Driller: Layne Texas Co.					
Surface soil and gravel	12	12	Gray marl and slightly glauconitic marl; light gray slightly oolitic chalk; light tannish gray limestone; and a trace of anhydrite	32	471
Clay and lime	11	23			
Hard lime	107	130	Like above, also tan, granular, porous limestone	31	502
Lime and hard flint	45	175			

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-19-809—Continued			Well ZK-58-19-809—Continued		
Tan, porous, oolitic, miliolid chalk; and tan, granular, chalky limestone <i>Haplophragmoides</i> sp. <i>Lituola</i> sp. <i>Haplosteche</i> sp. Miliolidae Gastropods Oysters Ostracods	29	531	No record	30	930
Pale gray and tan, granular, porous limestone	31	562	Pale tannish gray, granular limestone with anhydrite included	30	960
No record	31	593	Pale gray and tan, chalky to slightly granular, highly oolitic limestone and a trace of anhydrite <i>Rephax</i> sp. <i>Haplophragmoides</i> sp. <i>Orbitolina texana</i> (several) Gastropods Crinoids Echinoids Miliolidae Oysters	31	991
Light tannish gray and some pale gray, highly oolitic, fossiliferous chalk in places slightly recrystallized and trace of anhydrite <i>Orbitolina texana</i> (very scarce) <i>Haplootiche</i> sp. <i>Lituola</i> sp. Miliolidae Crinoid stems Echinoid spines Gastropods	30	623	Like above, trace of chert as well as anhydrite <i>Orbitolina texana</i> (abundant)	32	1,023
No records	31	654	No record	31	1,054
Like above No <i>orbitolina texana</i> observed	31	685	Tan, granular, faintly oolitic limestone; tan and light gray, chalky, oolitic limestone; and a trace of anhydrite <i>Orbitolina texana</i> (scarce) Echinoid spines Miliolidae Crinoid stems Ostracods Oysters	31	1,085
No record	31	716	Tan and brown, granular, faintly oolitic limestone and some light gray, oolitic limestone and oolitic, chalky marl <i>Orbitolina texana</i> (several)	31	1,116
Tan and pale brown, chalky to granular, oolitic limestone and trace of anhydrite <i>Miliolidae</i>	31	747	Tan, granular limestone; light gray, finely granular to chalky limestone; light gray, oolitic limestone; tan, porous, miliolid limestone; light gray, porous to cavernous limestone stained with dead oil; several fragments of anhydrite and an occasional fragment of sandy limestone; and gray, soft sandstone and gray shale <i>Orbitolina texana</i> (very scarce)	30	1,146
Tan brown and brownish gray, lightly chalky to granular, oolitic limestone and quite a few fragments of anhydrite <i>Orbitolina texana</i> (very scarce) Miliolidae Gastropods (casts) Pelecypods (casts) Oysters	30	777	No record	31	808
No record	31	808	Like above <i>Orbitolina texana</i> (several)	31	839
Like above <i>Orbitolina texana</i> (several)	31	839	Tan and pale gray, highly oolitic, chalky to granular limestone and trace of anhydrite <i>Rephax</i> sp. <i>Haplophragmoides</i> sp. Miliolidae <i>Orbitolina texana</i> (very scarce) Gastropods Pelecypods Oysters	30	869
Tan and pale gray, slightly chalky to granular, oolitic limestone	31	900	Tan and pale gray, slightly chalky to granular, oolitic limestone	31	900
			Oysters	31	1,177

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-19-809—Continued			Well ZK-58-19-809—Continued		
Gray shale; gray, coarse to fine-grained sand; tan, granular limestone; tan, oolitic limestone; gray, fine-grained, sandy shale; gray, oolitic, sandy limestone; and sandy marl and some anhydrite	31	1,208	Dark gray, slightly carbonaceous shale, shale, and sandy shale; a few green, buff, and pink shale fragments; limestone nodules and boulders; chert; granite; schist; and limestone pebbles; chalky limestone; and some sand	31	1,576
Gray and tan, oolitic, finely granular, slightly sandy, and faintly glauconitic limestone; a few gray, limy, sandstone fragments; and a few fragments of shale and anhydrite <i>Orbitolina texana</i>	31	1,239	No record	90	1,666
No record	31	1,270	Dark gray, faintly carbonaceous and micaceous, indurated shale; and thin horizontal seams of siltstone; this core is dipping at about 78 degrees	4	1,670
Light tan, sandy, slightly glauconitic limestone; gray, slightly oolitic, slightly sandy limestone; light gray, medium to fine-grained sandstone; light gray, finely granular, slightly sandy limestone; and some anhydrite as included areas in the sandy limestone <i>Orbitolina texana</i>	31	1,301	Dark gray, slightly carbonaceous and slightly micaceous shale; gray, slightly carbonaceous, quartzitic sandstone; gravel pebbles; and lime boulders and nodules; some of the dark gray shale and sandstones show vertical quartz veining	28	1,698
			Well ZK-58-21-202		
			Owner: City of Granger Driller: J. L. Myers Sons		
Hard, tannish white, chalky limestone; a few pale greenish gray and light gray, finely granular, slightly sandy limestone; and a trace of shale, sandstone, and anhydrite	31	1,332	Surface soil	7	7
			Sand and gravel	8	15
			Clay	87	102
			Gumbo	38	140
			Rock	418	558
Light tannish gray sand; light tannish gray, slightly sandy limestone; hard, tannish white, faintly sandy limestone; a few oolitic limestone fragments; and a few fragments of gray and green shale and anhydrite	31	1,363	Rock with shale breaks	113	671
			Rock	62	733
Like above, more light gray and white, finely granular limestone	30	1,393	Shale	57	790
			Rock	30	820
Red, lavender, green, and gray shale and sandy shale; tan, pink, and light gray sandstone; white and pink limestone; and sandy limestone and a few gravel pebbles	31	1,424	Shale	60	880
			Lime	110	990
No record	30	1,454	Shale	10	1,000
			Broken, sandy shale	24	1,024
Light tannish gray sandstone; green, gray, and pink clay; light tannish gray and pink limestone and sandy limestone nodules and boulders, gravel; and gray, sandy clay	30	1,484	Broken sand	15	1,039
			Rock	5	1,044
			Sand	12	1,056
Conglomerate as above with more chert gravel; much of this lime and chert gravel is reworked from the Ellenberger section	31	1,515	Hard rock	4	1,060
			Sandy shale	19	1,079
			Hard lime	2	1,081
Like above, less chert, gravel, and a few fragments of brown, green, buff, red, and gray, hard shale; a few of the gravel pebbles are made up of packsaddle schist	30	1,545	Lime	38	1,119
			Rock	27	1,146
			Lime	283	1,429

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-21-202—Continued			Well ZK-58-21-201—Continued		
Lime with shale breaks	176	1,603	Sand	96	2,515
Hard lime	19	1,624	Sand, broken with lime streaks	75	2,590
Rock with shale breaks	79	1,703	Hard lime	16	2,606
Hard lime	14	1,717			
Rock	90	1,807			
Shale	25	1,832			
Rock	160	1,992	Del Rio clay	20	20
Sand	20	2,012	Georgetown lime	125	145
Sandy shale	39	2,051	Edwards lime	77	222
Shale	10	2,061			
Lime and shale	41	2,102			
Sandy shale	21	2,123			
Rock	43	2,166	Black surface	4	4
Lime	6	2,172	Hard white caliche	38	42
Shale	40	2,212	Blue, Taylor chalk	28	70
Lime	38	2,250	Austin Chalk	345	415
Sandstone	81	2,331	Eagle Ford clay	65	480
Sand	78	2,409	Buda lime	25	505
Lime	10	2,419	Del Rio Clay	80	585
Rock	81	2,500	Georgetown lime	98	683
Sand	22	2,522	Edwards lime	104	787
Hard rock	16	2,538			
Soft rock	28	2,566			
Hard rock	12	2,578			
Hard sand	29	2,607	Surface	10	10
			Taylor Marl	188	198
			Pecan Gap lime	32	230
			Chalky lime	290	520
			Chalk	380	900
			Eagle Ford Shale	60	960
			Buda lime	50	1,010
			Del Rio Clay	50	1,060
			Georgetown lime	176	1,236
			Edwards lime, sulfur water	314	1,550
			Comanche Peak lime	60	1,610
			Walnut blue clay	10	1,620
			Alternate lime with layers of shale, Glen Rose	830	2,450
Well ZK-58-21-203					
Owner: City of Granger Driller: J. L. Myers Sons					
Surface soil	4	4			
Clay and sand	56	60			
Shale	165	225			
Lime and shale	166	391			
Broken lime	369	760			
Lime	256	1,016			
Sand and shale	79	1,095			
Lime	795	1,890			
Broken shale	185	2,075			
Broken lime	344	2,419			

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-602—Continued			Well ZK-58-29-603—Continued		
Travis Peak	250	2,700	Shale and lime	10	2,310
Hard sand rock	15	2,715	Lime	1	2,311
Trinity sand and water, flows water	593	3,308	Hard lime	10	2,321
			Soft lime	31	2,352
			Lime	93	2,445
			Lime	22	2,467
			Shale and lime	103	2,570
Fill	15	15	Sand, soft lime	15	2,585
Yellow clay	25	40	Sandy shale	26	2,611
Blue shale	135	175	Sand and shale	10	2,621
Shale	63	238	Sandy lime	62	2,683
Shale	91	329	Lime and soft lime	37	2,720
Shale	147	476	Lime and shale	7	2,727
Chalky shale	49	525	Lime and shale	12	2,739
Chalk	377	902	Sand, sandy shale	26	2,765
Shale	5	907	Shale	15	2,780
Chalk and shale	101	1,008	Green shale	17	2,797
Chalk and shale	22	1,030	Sand and shale	15	2,812
Shale and lime shells	30	1,060	Sand and shale	5	2,817
Shale and lime	32	1,092	Shale	4	2,821
Shale and lime	51	1,143	Sand	44	2,865
Hard lime	131	1,274	Shale	25	2,890
Lime	68	1,342	Soft shale	60	2,950
Soft lime	14	1,356	Shale	10	2,960
Lime	12	1,368	Sand, layers shale	12	2,972
Soft lime	20	1,388	Shale	15	2,987
Lime	20	1,408	Sand and shale	46	3,033
Hard lime	62	1,470	Sand, shale and lime	15	3,048
Lime	32	1,502	Shale	7	3,055
Lime, layers shale	24	1,526	Sand	10	3,065
Lime	88	1,614	Shale	8	3,073
Lime and shale	11	1,625	Shale	29	3,102
Lime	28	1,653	Shale	5	3,107
Lime and shale	31	1,684	Sand	12	3,119
Lime	420	2,104	Shale	8	3,127
Shale and lime	8	2,112	Sand	20	3,147
Shale and lime	21	2,133	Sand, shale and lime	25	3,172
Lime	167	2,300			

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-603—Continued			Well ZK-58-29-604—Continued		
Shale	5	3,177	Sandy lime	17	2,739
Soft shale and lime	10	3,187	Sandy lime and shale	157	2,896
Shale and lime	8	3,195	Sand and shale streaks	14	2,910
Sandy shale	5	3,200	Sandy lime	9	2,919
Shale	9	3,209	Lime	7	2,926
Shale	1	3,210	Sandy lime	27	2,953
Shale and lime	3	3,213	Sandy lime and shale	113	3,066
Sandy lime	29	3,242	Sandy lime (hard)	32	3,098
Shale	12	3,254	Sandy lime	9	3,107
Sand	4	3,258	Sand and shale streaks	23	3,130
Sand	15	3,273	Sandy lime	31	3,161
Sand	17	3,290	Sandy lime and shale	107	3,268
Shale, sandy	8	3,298	Sandy lime	20	3,288
Sand, shale, soft lime	7	3,305	Sandy shale	12	3,300
Soft lime	16	3,321	Lime	6	3,306
Shale and lime	8	3,329	Sandy lime	39	3,345
Shale	6	3,335	Red shale	11	3,356
Well ZK-58-29-604			Well ZK-58-29-605		
Owner: City of Taylor Driller: Layne Texas Co.			Owner: Taylor Bedding Co. Driller: Layne Texas Co.		
Surface	3	3	Surface soil	5	5
Clay and gravel	5	8	Yellow clay	40	45
Clay	26	34	Blue shale	12	57
Gray shale	195	229	Light and blue-gray marl	338	395
Gray shale and gravel	101	330	Gray marl	160	555
Gray shale	204	534	Gray shale and chalk	108	663
Chalk	66	600	Shale and chalk	46	709
Lime and chalk	23	623	Lime and shale	63	772
Chalk	375	998	Chalk and shale	241	1,013
Shale	14	1,012	Shale (black)	51	1,064
Lime and shale	153	1,165	Lime	61	1,125
Lime	721	1,886	Hard lime	4	1,129
Lime and shale	24	1,910	Blue shale	41	1,170
Lime	291	2,201	Lime and shale	37	1,207
Sandy lime	75	2,276	Lime	95	1,302
Lime	267	2,543	Soft, brown lime	69	1,371
Lime and shale	159	2,702	Brown and white lime	44	1,415
Sandy shale	20	2,722	Hard lime	73	1,488

Table 3.—Drillers' Logs of Selected Wells in Williamson County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well ZK-58-29-605—Continued			Well ZK-58-29-605—Continued		
Lime	775	2,263	Sand, layers shale	15	3,265
Sandy lime	53	2,316	Sand	25	3,290
Lime	14	2,330	Shale	8	3,298
Sandy lime and lime	85	2,415	Layers shale and sand	31	3,329
Lime	89	2,504	Sand, layers red, blue, and green shale	13	3,342
Blue shale and lime	42	2,546	Hard, red, blue, and black shale	11	3,353
Hard lime	30	2,576			
Blue shale and lime	54	2,630			
Fine lime and sand	30	2,660			
Blue shale and lime	60	2,720	Well ZK-58-35-103		
Blue shale	48	2,768	Owner: Austin White Lime Co. Driller: Sterzing Drilling Co.		
Sand, layers shale	23	2,791	Topsoil	12	12
Sand	67	2,858	Fault	42	54
Sand, layers shale	121	2,979	White lime	26	80
Sand, hard layers shale and lime	72	3,051	Well ZK-58-35-204		
Hard shale and lime	30	3,081	Owner: City of Round Rock Driller: Smith and Bradshaw		
Sand	32	3,113	Surface formation	25	25
Hard shale and lime	12	3,125	Del Rio formation	75	100
Sand, hard layers shale	88	3,213	Georgetown formation	140	240
Sand	22	3,235	Edwards formation	100	340
Hard shale and lime	15	3,250	Glen Rose formation	30	370