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VOLUME II

PART II

GROUND-WATER RESOURCES OF THE SAN ANTONIO AREA, TEXAS

RECORDS OF DRILLERS' LOGS

By

B. M. Petitt, Jr., Hydraulic Engineer

and

W. O. George, Geologist

United States Geological Survey

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C O N T E N T S

VOLUME II

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RECORDS OF DRILLERS' LOGS

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ILLUSTRATION

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GROUND-WATER RESOURCES OF THE SAN ANTONIO AREA, TEXAS

VOLUME II

PART II

RECORDS OF DRILLERS' LOGS

INTRODUCTION

This publication constitutes Part 2 of the second volume of a report on the ground-water resources of the San Antonio area in Texas, prepared by the Ground Water Branch of the United States Geological Survey in cooperation with the Texas Board of Water Engineers and the city of San Antonio. The San Antonio area, as used in this report, includes the parts of Kinney, Uvalde, Medina, Bexar, Comal, and Hays Counties that lie within and adjacent to the Balcones fault zone. The boundaries of the area coincide with the boundaries of the underground reservoir that supplies ground water to the city of San Antonio.

The other parts of the report contain the text discussing the geology and ground-water resources of the area (Volume I), records of wells and springs (Volume II, part 1), and data on water levels in wells, chemical analyses of water, records of stream flow and reservoir contents, discharge measurements, and precipitation (Volume II, part 3).

Locations of the wells for which drillers' logs are given in the following tables are shown on the map enclosed in the pocket of Volume II, part 1.



The lithologic and geologic terms used in the well logs are those of drillers and may not correspond to Geological Survey usage.

Drillers' logs of wells in Kinney County, Texas

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 87, partial log					
Owner: Prosser & Walker. Driller: Havoline Oil Co.					
Del Rio clay:			Glen Rose limestone, Travis Peak		
Lime -----	10	10	formation, and Paleozoic rocks:		
Clay, yellow -----	10	20	Slate, soft gray -----	7	967
Georgetown and Edwards			Lime, hard gray -----	93	1,060
limestones:			Slate, soft gray -----	15	1,075
Lime, hard gray -----	5	25	Lime, hard gray -----	10	1,085
Lime, yellow -----	15	40	Slate, soft blue -----	45	1,130
Lime, white -----	25	65	Lime, hard brown -----	24	1,154
Lime, gray -----	45	110	Slate, gray -----	6	1,160
Lime, hard gray -----	110	220	Lime, very hard gray -	3	1,163
Lime, soft gray -----	80	300	Slate, soft gray, alter-		
Lime, white grayish ----	50	350	nating with seams of		
Lime, soft sandy gray,			white gypsum -----	35	1,198
show of gas -----	35	385	Lime, brown -----	30	1,228
Lime, medium sandy -----	30	415	Slate, soft gray -----	2	1,230
Lime, hard sandy gray --	5	420	Lime, hard brown -----	8	1,238
Lime, sandy gray, show			Lime, hard gray -----	10	1,248
of oil -----	30	450	Slate, soft blue -----	3	1,251
Lime, white -----	25	475	Lime, gray -----	133	1,384
Sand, gray, hole full			Lime, hard gray -----	3	1,397
of water -----	10	485	Slate, dark gray -----	26	1,413
Lime, hard gray -----	5	490	Lime, gray -----	12	1,425
Lime, hard black,			Slate, gray -----	9	1,434
saturated with oil --	10	500	Gypsum, white -----	4	1,438
Lime, hard dark-colored-	15	515	Lime, hard brown -----	7	1,445
Lime, hard blue -----	5	520	Slate, hard brown ----	3	1,448
Lime, dark-colored and			Lime, brown -----	16	1,464
slate -----	10	530	Lime, hard blue -----	4	1,468
Lime, hard dark-brown --	45	575	Lime, hard dark gray,		
Lime, dark gray, shells-	7	582	show of gas -----	26	1,494
Lime, hard cherty gray -	3	585	Lime, hard gray -----	24	1,518
Lime, gray -----	10	595	Slate, dark -----	3	1,521
Lime, gray, sea shells -	15	610	Lime, soft gray and		
Lime, hard gray -----	20	630	sand conglomeratic -	10	1,531
Lime, sandy gray, con-			Lime, brown, sand,		
tains sea shells -----	18	648	yellow water, show		
Lime, gray -----	57	705	of gas -----	17	1,548
Lime, hard brown -----	25	730	Slate, dark gray ---	3	1,551
Lime, gray -----	80	810	Lime, hard brown ---	14	1,565
Slate, soft white -----	5	815	Lime, hard dark gray	22	1,587
Lime, gray -----	125	940	Lime, hard sandy gray	57	1,644
Lime, hard brown -----	20	960	Lime, hard sandy,		
			conglomeratic ----	8	1,652

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Drillers' logs of wells in Kinney County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 87--Continued					
Glen Rose limestone, Travis Peak formation, and Paleozoic rocks-- Continued:			Lime, pink crystalline, few crystals of pyrite--	11	2,163
Lime, gray to dark gray -----	90	1,742	Lime, light gray crys- talline -----	19	2,182
Sand, soft white to gray conglomeratic hole full of water ----	20	1,762	Lime, fine crystalline stained red-brown from iron, full of fine iron shavings, small percent quartz sand -----	38	2,220
Lime, hard gray -----	28	1,790	Lime, dark gray crys- talline -----	27	2,247
Sand, hard dark gray, show of oil -----	8	1,798	No record -----	13	2,260
Lime, hard gray -----	14	1,812	Lime, crystalline -----	27	2,287
Sand, gray -----	20	1,832	Limestone, black crystalline, slightly sandy with about 5 percent cream colored crystal lime -----	71	2,358
Sand, hard sharp gray, good show of oil -----	20	1,852	Lime, dark gray crystalline -----	50	2,408
Lime, sandy gray -----	19	1,871	Sandstone, brown -----	47	2,455
Slate, gray -----	1	1,872	Sand, light tan colored- Calcite and some silica, black or gray material with calcite form of pyrite -----	27	2,490
Lime, hard sharp sandy gray -----	35	1,907	Calcite, black -----	10	2,500
Slate, gray -----	2	1,909	Sand, highly iron stained a red-brown ---	140	2,640
Lime, hard sandy gray --	6	1,915	Sand -----	25	2,665
Slate, soft gray -----	5	1,920	Sand, about 50 percent, calcite, black streaked, about 50 percent -----	10	2,675
Sand, gray with 18 inch rock asphalt -----	13	1,933	Quartzite, dolomitic, similarly splotched ---	155	2,830
Lime, hard gray -----	14	1,947	TOTAL DEPTH		4,381
Shale, blue -----	2	1,949			
Sand, brown -----	3	1,952			
Lime, gray -----	12	1,964			
Lime, hard sandy gray --	11	1,975			
Lime, hard white -----	12	1,987			
Lime, hard gray -----	12	1,999			
Lime, light gray crystalline -----	51	2,050			
Lime, cream colored and opaque pinkish gray crystalline -----	53	2,103			
Shale, gray -----	38	2,141			
Lime, pinkish colored --	11	2,152			

Drillers' logs of wells in Kinney County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 96					
Owner: J. F. Beidler. Driller: Magnolia Oil Co.					
Uvalde gravel:			(Hole full of salt water at 2,440 to 2450 feet)		
Gravel, brown -----	25	25	Lime, gray -----	90	2,540
Eagle Ford shale:			Sand, water, hard -----	62	2,602
Shale, soft blue -----	56	81	Lime, hard gray -----	93	2,695
Shell, hard lime -----	7	88	Lime, sandy -----	115	2,810
Shale, soft blue -----	57	145	Shale, soft white -----	5	2,815
Shale, hard gray -----	45	190	Lime, hard sandy -----	15	2,830
Buda limestone:			Shells, hard sandy, sharp -----	25	2,855
Lime, soft white -----	100	290	Lime, hard sandy -----	15	2,870
Del Rio clay:			Shale, soft sandy -----	30	2,900
Shale, soft blue -----	60	350	Lime, hard sandy -----	20	2,920
Shale, hard gray -----	93	443	Shale, soft sandy -----	15	2,935
Georgetown, Edwards, Comanche Peak, and Glen Rose limestones:			Lime, sandy hard -----	15	2,950
Lime shells -----	22	465	Shale and gypsum, soft -	13	2,963
Lime, hard white -----	34	500	Travis Peak formation:		
Lime, very hard black -	455	955	Sand, hard sharp gray --	15	2,978
Lime, shells, hard ----	31	986	Shale, soft sandy -----	8	2,986
Granite, hard -----	9	995	Lime, hard sandy -----	24	3,010
Lime, hard black -----	22	1,017	Shale, soft sandy -----	10	3,020
Lime, soft gray -----	13	1,030	Lime, hard sandy -----	15	3,035
Lime shells -----	40	1,070	Sand, soft brown -----	18	3,053
Shale, hard black ----	10	1,080	Lime, hard sandy -----	7	3,060
(1 barrel sulphur water an hour at 1,095 feet)			Paleozoic rocks:		
Lime, hard sandy -----	30	1,110	Shale, soft -----	40	3,100
Lime, black -----	98	1,208	Shale, soft sandy -----	68	3,168
(10 barrels sulphur water an hour at 1,250 to 1,260 feet)			Shale, soft -----	32	3,200
Lime shells -----	52	1,260	Lime, hard dark-colored-	10	3,210
(2 barrels sulphur water an hour at 1,330 to 1,332 feet)			Lime shells, hard -----	98	3,308
Lime, hard gray -----	170	1,430	Redbeds, soft -----	17	3,325
Shale, soft gray -----	20	1,450	Sand, hard red -----	5	3,330
Lime, hard white -----	18	1,468	Redbeds, soft -----	60	3,390
Shale, hard gray -----	22	1,490	Lime, hard sandy -----	88	3,478
Lime, gray -----	20	1,510	Shale, soft black -----	9	3,487
Lime shells -----	725	2,235	Lime, hard sandy -----	38	3,525
Lime, black -----	85	2,320	Lime, hard red -----	20	3,545
Lime, gray -----	120	2,440	Lime, hard sharp sandy -	18	3,563
Lime, black -----	10	2,450	Shells, soft sandy -----	1,440	5,003
			Redbeds, hard -----	2	5,005
			($\frac{1}{2}$ barrel salt water an hour at 5,260 to 5,253 feet)		
			Sand, gray -----	275	5,280

Drillers' logs of wells in Kinney County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 104					
Owner: Gaebler Bros. Driller: Bob Rose.					
Uvalde gravel:					
Caliche, soft light gray	30	30	Limestone, gray to dark gray -----	5	180
Limestone, pebbles ----	10	40	No record -----	55	235
No record -----	5	45	Limestone, gray and a small amount of dark gray limestone -----	25	260
Limestone pebbles ----	5	50	Limestone, gray to dark gray --- -----	5	265
Austin chalk and Eagle Ford shale:					
Limestone, soft chalky light bluff-colored---	10	60	Limestone, gray to very dark gray -----	10	275
No record -----	5	65	Limestone, gray to dark gray -----	5	280
Limestone, hard gray --	25	90	Limestone, light gray -	5	285
No record -----	10	100	Limestone, light gray and a small amount of dark-gray limestone --	5	290
Limestone, hard gray --	20	120	Limestone, light gray -	10	300
No record -----	10	130			
Limestone, gray to dark gray -----	20	150			
Limestone, gray -----	10	160			
No record -----	5	165			
Limestone, gray -----	10	175			
Well 182					
Owner: Geo. Crystall. Driller: Geo. Crystall.					
Eagle Ford shale:					
No record -----	55	55	Buda limestone:		
Shale, bluish gray ---	5	60	Limestone, light gray-	15	165
Shale, gray with small light gray spots, contains some bentonite --	5	65	No record -----	10	175
Shale, gray with small light gray spots -----	6	71	Limestone, light gray-	35	210
Shale, gray with small light gray spots, also some arenaceous limestone -----	19	90	Limestone, light gray fragments of calcite-	25	235
Shale, gray with small light gray spots, contains some bentonite	20	110	No record -----	30	265
Shale, gray with small light gray spots -----	20	130	Del Rio clay:		
Shale, gray with small light gray spots, some arenaceous limestone, pyrite, and a small amount of light gray fine-textured limestone -	20	150	Shale, bluish-gray, contains pyrite and shell fragments -----	5	270
			Clay -----	103	373
			Georgetown and Edwards limestones:		
			Limestone, white -----	27	400
			Limestone, light gray fine-textured -----	10	410
			Limestone, light gray fine-textured, some light blue shale, and some with small black specks and pyrite ---	50	460
			Limestone reported ---	54	514

Drillers' logs of wells in Kinney County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 211							
Owner: Judge Brice. Driller: T. J. Hiney.							
Anacacho limestone, Austin chalk, and Eagle Ford shale:				Shale, dark gray to black, small amount of light gray limestone -----	68	480	
Clay, gray, calcareous contains small specks of black material, some bentonite and shell fragments -----	122	122		Limestone, light gray fine-textured -----	35	515	
Limestone, light gray fine-textured, contains small specks of black materials, some gray calcareous clay and shell fragments -----	88	210		Limestone, gray to dark gray, argillaceous limestone, shell --	195	710	
Limestone, light gray fine textured, contains small specks of black material, some gray calcareous clay, shell fragments and bentonite	30	240		Shale, gray to dark gray, calcareous, shell fragments -----	30	740	
Limestone, light gray fine- textured, contains rela- tively large specks of black materials, pyrite shell fragments and gray calcareous clay -----	15	255		Limestone, light gray fine-textured -----	35	775	
Limestone, light gray, fine textured -----	140	395		Shale, dark gray, very calcareous -----	8	783	
Limestone, light gray to gray, fine-textured ---	5	400		Shale, calcareous gray, with dark gray spots	179	962	
Limestone, light gray to gray, fine-textured, also some dark gray to black calcareous shale	12	412		Buda limestone:			
				Limestone, light gray fine-textured -----	28	990	
				Limestone, light gray fine-textured, chalky	50	1,040	
				Del Rio clay, Georgetown and Edwards limestones:			
				Clay, dark gray, slightly calcareous, and pyrite -----	65	1,105	
				No record -----	315	1,420	

Drillers' logs of wells in Kinney County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well 216							
Owner: E. H. Schmidt. Driller: -- Strippling.							
Tertiary rocks:				Shale, blue sandy --- 15 110			
Soil, surface, red sandy loam -----	2	2	Sand, blue and sandstone showing slight traces of dead asphalt.				
Subsoil, sandy clay, light red -----	3	5	(Bailed water at 12½ gallons a minute)---		20	130	
No record -----	5	10	Sand, gray shaley ----		8	138	
Shale, white sandy ----	15	25	Shale, blue -----		22	160	
Sand, white shaley ----	10	35	Sand, blue shaley ----		18	178	
Sand, yellow shaley	5	40	Tertiary and Navarro rocks:				
Sand, light yellow or gray, shaley -----	15	55	Shale, sandy blue ----		72	250	
Sand, fine blue, shaley	25	80					
Shale, dark colored ---	15	95					
Well 227							
Owner: Louis L. Farr.							
Anacacho limestone:				Shale, blue ----- 40 180.			
Limestone, yellow -----	40	40	Limestone, broken gray (water) -----		26	206	
Clay, yellow (water seep at bottom) -----	60	100					
Limestone, gray (water at base) -----	40	140					
Well 234, partial log							
Owner: R. W. Morrison							
Austin chalk:				Eagle Ford shale:			
No record -----	80	80	Shale, dark gray ----		20	600	
Chalk -----	350	430	Shale, chalky -----		20	620	
Limestone, dark-colored shaley -----	10	440	Shale, black -----		285	905	
Chalk -----	140	580	Buda limestone:				
			Limestone -----		90	995	
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Drillers' logs of wells in Kinney County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 234--Continued					
Del Rio clay:			Shale -----	20	1,230
Mud -----	5	1,000	Limestone, gray ----	190	1,420
Clay -----	150	1,150	No record -----	80	1,500
Georgetown and Edwards			Limestone, buff		
limestones:			colored -----	30	1,530
Limestone, white -----	10	1,160	TOTAL DEPTH		3,600
Limestone, white chalky	50	1,210			
Well 265					
Owner: J. E. White. Driller: Lloyd Oil Co.					
Cenozoic gravel:			Shale, soft light brown	50	460
Soil -----	3	3	Shale, hard blue -----	15	475
Clay, light colored --	6	9	Shale, soft light brown	35	510
Gravel (little fresh			Shale, dark brown -----	40	550
water) -----	10	19	Shale, dark brown sandy	71	621
Clay, yellow -----	5	24	Lime, hard white -----	2	623
Austin chalk:			Shale, light brown ----	6	629
Lime, gray (2 barrels			Shale, hard brown, pyrite	5	634
of water an hour.) ---	79	103	Buda limestone:		
Lime, gray -----	2	105	Lime, hard white -----	119	753
Shale, blue -----	2	107	Del Rio clay:		
Lime, gray -----	25	132	Shale, soft blue -----	42	795
Shale, light brown ---	3	135	Shale, soft blue		
Lime, gray (hole caving			(hole dry) -----	125	920
a little) -----	38	173	Shale, blue -----	10	930
Lime, gray -----	66	239	Shale, gray -----	15	945
Eagle Ford shale:			Georgetown, Edwards,		
Shale, light brown ---	16	255	Comanche Peak, and		
Lime, hard -----	1	256	Glen Rose limestones:		
Shale, light brown ---	14	270	Lime, gray -----	195	1,140
Lime, hard gray -----	1	271	Lime -----	2	1,142
Shale, soft light brown	29	300	Lime, hard gray -----	252	1,394
Lime, hard gray -----	15	315	Lime, soft -----	2	1,396
Shale, hard white ----	19	334	Lime, hard gray -----	43	1,439
(Little show of water;			Lime, soft gray -----	4	1,443
about 2 bailers an			Lime, hard gray -----	85	1,528
hour at 338 feet.) ---	16	360	Lime, black, quartz --	70	1,598
Shale, soft light brown	25	375	Lime, hard black ----	77	1,675
Shale, hard blue ----	35	410	Lime, sandy -----	36	1,711
(Continued on next page)					

Drillers' logs of wells in Kinney County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 265--Continued					
Georgetown, Edwards, Comanche Peak, and Glen Rose limestones:			Lime and shale -----	28	2,146
Lime, black -----	16	1,727	Lime, hard gray -----	6	2,152
Lime, brown -----	16	1,743	Lime, hard brown -----	22	2,174
Lime, black -----	49	1,792	Lime, hard gray -----	11	2,185
Lime, gray -----	15	1,807	Lime, hard blue -----	24	2,209
(4 barrels of water an hour)			Lime, hard brown -----	32	2,241
Lime, gray (hole full of water) -----	20	1,827	Lime, hard gray -----	8	2,249
Lime -----	38	1,865	Lime, hard brown -----	4	2,253
Sand, water (flow 200 gallons an hour) -----	10	1,875	Lime, hard gray -----	31	2,284
Sand, hard gray -----	32	1,907	Lime, hard brown -----	26	2,310
Lime, hard gray -----	81	1,988	Lime, hard blue -----	291	2,601
Lime, hard blue -----	5	1,993	Lime, hard gray -----	18	2,619
Lime, hard brown -----	56	2,049	Shale, hard blue -----	15	2,634
Lime, hard gray -----	69	2,118	Lime, hard brown -----	42	2,676
			Lime and shale -----	10	2,686
			Lime, hard brown -----	83	2,769
			Lime, hard gray -----	147	2,916
			Lime, hard brown -----	105	3,021

Drillers' logs of wells in Uvalde County, Texas

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well A-9-1							
Owner: -- Cloudt. Driller: Phantom Oil Co.							
Edwards and Comanche Peak limestone:				Slate -----	10	1,195	
Lime -----	70	70	Lime -----	3	1,198		
Lime, hard -----	70	140	Travis Peak formation:				
Glen Rose limestone:			Slate; bailing hole dry, hole full of water,				
Shale -----	90	230	caving -----	32	1,230		
Lime, shelly -----	26	256	Shale, gray -----	7	1,237		
Sand, water -----	4	260	Rock, red -----	4	1,241		
Lime, hard -----	10	270	Sand, hard -----	6	1,247		
Sand, water; hole full of water -----	5	275	Shale, sandy -----	23	1,270		
Shale, blue -----	30	305	Rock, red -----	7	1,277		
Lime, hard -----	48	353	Slate -----	1	1,278		
Shale, blue -----	17	370	Lime -----	3	1,281		
Lime, hard -----	110	480	Shale, sandy -----	7	1,288		
Shale, blue and gray --	45	525	Sand, hard -----	12	1,300		
Shale, sandy -----	10	535	Sand, water; hole full of water -----	13	1,313		
Shale, gray -----	30	565	Sand, hard -----	24	1,337		
Lime -----	15	580	Sand, water, hole full of water -----	8	1,345		
Shale, white -----	65	645	Sand, hard -----	15	1,360		
Lime shells -----	50	695	Sand, soft -----	9	1,369		
Lime, sandy -----	10	705	Sand, water; hole full of water -----	8	1,377		
Lime, white -----	75	780	Sand -----	8	1,385		
Lime, broken -----	45	825	Sand, water -----	7	1,392		
Sand, water -----	20	845	Rock, red -----	7	1,399		
Lime shells -----	30	875	Sand -----	19	1,418		
Lime, hard -----	60	935	Sand, water; hole full of water -----	7	1,425		
Lime, hard gray sandy -	30	965	Sand -----	5	1,430		
Sand -----	35	1,000	Sand, water -----	18	1,448		
Lime, broken -----	20	1,020	Lime, white -----	1	1,449		
Sand -----	5	1,025	Shale, red sandy -----	8	1,457		
Lime, hard sandy -----	5	1,030	Sand -----	28	1,485		
Lime -----	13	1,043	Sand, water; hole full of water -----	20	1,505		
Sand, water; hole full of water -----	13	1,056	Gravel, fine -----	20	1,525		
Lime, white hard -----	19	1,075	Sand, hard red -----	10	1,535		
Sand, water -----	15	1,090	Lime, white -----	2	1,537		
Lime, hard -----	5	1,095	Sand, pink water -----	12	1,549		
Sand, medium -----	25	1,120					
Lime -----	17	1,165					
Slate and lime shells; hole full of water ---	20	1,185					

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Drillers' logs of wells in Uvalde County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well A-9-1--Continued							
Travis Peak formation-				Gravel, coarse -----	12	1,585	
Continued				Sand, very hard -----	15	1,600	
Sand, fine and fine				Sand, hard -----	3	1,603	
gravel -----	7	1,556		Sand, water -----	7	1,610	
Sand, water -----	13	1,569		Sand and gravel -----	20	1,630	
Sand, hard -----	4	1,573		Sand, hard gray -----	5	1,635	
Well B-8-1							
Owner: Patterson Bros. Driller: Transcontinental Oil Co.							
Edwards limestone:				Sand, pink -----	45	1,425	
Gravel -----	11	11		Rock, red -----	5	1,430	
Lime, hard; water ---	84	95		Sand, pink -----	22	1,452	
Lime, hard -----	155	250		Clay, blue -----	12	1,464	
Glen Rose limestone:				Sand, pink -----	46	1,510	
Clay, blue -----	5	255		Lime and shale -----	10	1,520	
Lime, hard -----	195	450		Lime shells, hard --	10	1,530	
Clay, blue -----	10	460		Sand, pink -----	22	1,552	
Lime, hard -----	60	520		Lime shells -----	8	1,560	
Clay, blue -----	8	528		Sand, water -----	10	1,570	
Lime, hard -----	242	770		Lime shells -----	5	1,575	
Lime, loose brown ---	5	775		Sand, gray(pebbles)-	52	1,627	
Lime, loose brown, water	5	780		Sand, fine water ----	7	1,634	
Lime, hard and soft -	272	1,052		Sand, coarse -----	23	1,657	
Clay, blue -----	8	1,060		Rock, red -----	3	1,660	
Sand, soft pink, gypsum				Sand, coarse -----	18	1,678	
crystal -----	12	1,072		Clay, brown -----	38	1,716	
Lime, hard -----	118	1,190		Sand -----	7	1,723	
Clay, blue -----	20	1,210		Paleozoic rocks:			
Sand, soft -----	6	1,216		Slate -----	1,077	2,800	
Clay, blue -----	8	1,224		Lime, black; salt			
Lime, soft -----	7	1,231		water at 2,827 feet	45	2,845	
Mud, blue -----	39	1,270		Slate -----	95	2,940	
Lime, soft -----	5	1,275		Lime, black -----	7	2,947	
Slate and shale -----	15	1,290		Lime, gray, gritty -	5	2,952	
Travis Peak formation:				Slate and shells ---	83	3,035	
Rock, red -----	10	1,300		Lime, black -----	8	3,043	
Shale and sand -----	30	1,330		Sand, brown -----	4	3,047	
Sand, soft; water ---	5	1,335		Slate and shells ---	23	3,070	
Boulders, red -----	10	1,345		Lime, black, gritty	48	3,118	
Lime -----	10	1,355		Slate and shells ----	87	3,205	
Shale, blue -----	25	1,380					
(Continued on next page)							

Drillers' logs of wells in Uvalde County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well B-8-1--Continued					
Paleozoic rocks--			Lime, black -----	6	3,743
Continued:			Lime, white -----	13	3,756
Lime, black-----	47	3,252	Sand, gray -----	12	3,768
Slate and shells ----	18	3,270	Slate and shells ---	138	3,906
Lime, black, sandy --	30	3,300	Lime -----	9	3,915
Sand, gray -----	15	3,315	Slate and shells ---	15	3,930
Slate and shells ----	422	3,737			
Well G-6-1					
Owner: J. B. Smythe. Driller: Gulf Production Co.					
Anacacho formation and			Lime -----	16	508
Austin chalk:			Slate -----	8	516
Soil and gravel ----	20	20	Lime, white -----	29	545
Clay, yellow -----	40	60	Slate -----	15	560
Lime shell; fresh water	3	63	Lime, white -----	300	860
Slate, blue -----	5	68	Slate, black -----	10	870
Sand, sharp -----	20	88	Lime, white -----	5	875
Slate, blue -----	4	92	Sand, brown -----	5	880
Lime -----	68	160	Shale, brown -----	20	900
Shell, pyrites and			Shale, black -----	140	1,040
shale -----	5	165	Lime -----	8	1,048
Lime, hard -----	5	170	Eagle Ford shale:		
Lime -----	75	245	Shale, black -----	77	1,125
Slate, blue -----	8	253	Buda limestone:		
Lime, hard -----	11	264	Lime, white -----	5	1,130
Lime, white -----	10	274	Lime, pink -----	30	1,160
Slate, blue -----	6	280	Lime, white -----	45	1,205
Lime -----	40	320	Grayson shale(Del Rio clay):		
Slate -----	5	325	Slate, blue -----	120	1,325
Lime -----	35	360	Georgetown limestone:		
Slate, blue -----	5	365	Lime sandy -----	61	1,386
Lime -----	20	385	Edwards limestone:		
Slate, blue -----	6	391	Sand, black; sulphur		
Lime, white -----	40	431	water -----	40	1,426
Slate -----	4	435	Sand, white water -	69	1,495
Lime -----	30	465	Lime, white -----	8	1,503
Slate -----	2	467	Lime, sandy -----	172	1,675
Lime -----	20	487	Iron pyrites and slate	13	1,688
Slate -----	5	492	(Continued on next page)		

Drillers' logs of wells in Uvalde County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well G-6-1--Continued							
Edwards limestone:				Shale, light -----	70	2,078	
Lime -----	22	1,710		Walnut clay and Glen Rose			
Slate -----	8	1,718		limestone:			
Sand, black and iron	12	1,730		Lime, white -----	424	2,502	
Lime, black sandy -	82	1,812		Shale, brown -----	4	2,506	
Lime, gray; water -	182	1,994		Lime -----	14	2,520	
Comanche Peak limestone:				Shale -----	90	2,610	
Lime, white -----	14	2,008		Lime -----	15	2,625	
Well G-9-1							
Owner: J.B. & W. A. Smythe. Driller: Pure Oil Co.							
Anacacho limestone, Austin				Lime, hard gray ----	5	590	
chalk, and Eagle Ford shale:				Shale, gray -----	20	610	
Rock, hard -----	3	3		Lime, hard -----	2	612	
Lime, hard sandy ---	48	51		Shale, gray -----	23	635	
Rock, crystallized --	31	82		Shale, gray and lime,			
Lime, blue sandy ---	3	85		broken -----	3	638	
Shale, blue putty and				Lime, gray broken ---	15	653	
asphalt -----	13	98		Shale, gray -----	77	730	
Rock asphalt -----	10	108		Lime -----	60	790	
Gumbo, blue -----	47	155		Lime and blue shale -	80	870	
Lime, gray -----	17	172		Lime and shale -----	70	940	
Gumbo, blue -----	3	175		Lime, broken -----	45	985	
Lime, gray -----	40	215		Lime, broken and shale	35	1,020	
Sandy, blue -----	10	225		Shale and asphalt ---	20	1,040	
Lime, gray -----	10	235		Shale -----	5	1,045	
Shale, blue and lime				Lime, broken and shale	60	1,105	
shells -----	3	238		Shale, cement-colored	65	1,170	
Shale, blue and gray	22	260		Shale, white hard ---	4	1,174	
Shale, gray and gumbo	110	370		Shale, cement colored	56	1,230	
Shale, gray -----	70	440		Lime -----	3	1,233	
Lime, gray, broken -	12	452		Lime, gray hard ----	105	1,338	
Shale, blue -----	48	500		Shale, gray -----	42	1,380	
Shale, blue sandy				Shale and slate ----	31	1,411	
and gumbo -----	28	528		Lime, gray -----	79	1,490	
Shale, gray -----	7	535		Shale -----	8	1,498	
Lime, sandy -----	15	550		Lime, gray -----	12	1,510	
Shells, hard lime --	30	580		Lime -----	7	1,517	
Lime, gray sandy ---	5	585		Lime and sandy shale-	33	1,550	
(Continued on next page)							

Drillers' logs of wells in Uvalde County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well G-9-1--Continued							
Anacacho limestone, Austin chalk and Eagle Ford shale-				No record -----	29	2,415	
Continued:				Lime, gray sandy ----	33	2,448	
Sandy shale; showing of				Lime, black and white shell -----	17	2,465	
oil -----	17	1,567		Lime, black; 2,470 to 2,474 feet half full of water -----	9	2,474	
Lime, black and gray sandy	5	1,572		Lime, black -----	32	2,506	
No record -----	3	1,575		Lime, black sandy and gravel -----	8	2,514	
Lime, black and gray sandy -----	15	1,590		Lime, black and gravel	16	2,530	
Lime, gray and white --	15	1,605		Lime, gray sandy ----	14	2,544	
Buda limestone:				Lime, gray -----	461	3,005	
Lime, gray and white ---	5	1,610		Lime and shale -----	15	3,020	
Lime, white -----	100	1,710		Lime, broken and shale	43	3,063	
Grayson shale (Del Rio clay)				Lime, broken -----	24	3,087	
Shale, blue -----	5	1,715		Lime, broken gray ----	58	3,145	
Shale, soft blue -----	55	1,770		Glen Rose limestone and Travis Peak formation:			
Caving -----	30	1,800		Lime, broken gray ----	11	3,155	
Shale, soft blue -----	15	1,815		Lime, hard gray -----	14	3,170	
Shale, blue -----	20	1,835		Lime, broken -----	64	3,234	
Lime, broken and shale	12	1,847		Shale, blue and gray lime -----	2	3,236	
Georgetown limestone:				Lime, gray -----	24	3,260	
Lime, white, caving ---	12	1,859		Shale, blue and gray lime -----	12	3,272	
Lime, white -----	50	1,910		Lime, gray -----	298	3,570	
Edwards limestone:				Sand, brown water ---	22	3,592	
Lime, soft brown -----	10	1,920		Lime, brown sandy ---	118	3,710	
Lime, white -----	127	2,047		Lime, hard gray -----	12	3,722	
Sand, hard white and lime -----	28	2,075		Lime, gray -----	16	3,738	
Sand, brown -----	5	2,080		Sand, gray water ----	22	3,760	
Lime, dark sandy -----	20	2,100		Lime, soft gray shale	27	3,787	
Sand, gray; hole full of water at 2,107 feet ---	33	2,155		Lime, broken gray ---	18	3,805	
Sand, white -----	2	2,157		Sand, water -----	22	3,827	
Lime, white -----	58	2,215		No record -----	7	3,834	
Sand, soft gray -----	12	2,227		Lime, gray sandy ----	23	3,857	
Lime, white; show of soft coal at 2,260 to 2,265 feet -----	63	2,290		Lime, gray -----	18	3,875	
Lime, hard white, caving	15	2,305		Lime, hard gray -----	5	3,880	
Lime, white -----	10	2,315		Sand, brown water ---	3	3,883	
Lime, hard black -----	19	2,334		Lime, broken -----	10	3,893	
Lime, black -----	36	2,370		Lime, gray -----	13	3,906	
Lime, black, show of oil	8	2,378					

(Continued on next page)

Drillers' logs of wells in Uvalde County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well G-9-1--Continued							
Glen Rose limestone and Travis Peak formation- Continued:				Shale, blue -----	10	4,224	
Lime -----	19	3,925	Lime, gray sandy -----	15	4,239		
Lime, hard and shale ---	11	3,936	Lime, shells, black -----	2	4,241		
Lime, soft -----	11	3,947	Lime, gray -----	13	4,254		
Lime, gray and shale ---	24	3,971	Shale and lime shells ----	16	4,270		
Shale, light and lime shell -----	45	4,016	Shell, blue-----	6	4,276		
Lime, broken -----	4	4,020	Shale, blue and lime ----	3	4,279		
Lime and shale -----	6	4,026	Lime, dark gray -----	14	4,293		
Lime, hard gray -----	2	4,028	Lime, gray -----	15	4,308		
Lime, gray sandy -----	26	4,054	Lime, gray sandy -----	25	4,333		
Lime, gray sandy, hard--	2	4,056	Lime, gray -----	27	4,360		
Lime, brown sandy -----	2	4,058	Lime, gray and shale ----	240	4,600		
Lime, hard -----	2	4,060	Lime, hard gray -----	26	4,626		
Lime -----	8	4,068	Lime, gray -----	76	4,702		
Lime, shells and shale -	9	4,077	Lime, hard gray -----	11	4,713		
Lime, hard gray -----	62	4,139	Lime, gray -----	45	4,758		
Lime, sandy gray -----	11	4,150	Lime, gray and blue shale	45	4,803		
Shale, gray -----	3	4,153	Lime, gray sandy -----	7	4,810		
Lime, hard gray sandy --	4	4,157	Paleontologic determinations:				
Lime, hard gray -----	7	4,164	Eagle Ford -----		1,560		
Shale, light-blue -----	11	4,175	Top of Buda -----		1,605		
Shale, blue -----	12	4,187	Top of Grayson shale				
Lime, gray -----	27	4,214	(Del Rio clay) -----		1,710		
			Top of Georgetown -----		1,847		
			Top of Edwards -----		1,910		
			Top of Glen Rose -----		3,145		

Well G-9-2

Owner: J. B. & W. A. Smythe. Driller: Pure Oil Co.

Anacacho limestone and Austin chalk:			Shale and lime -----	23	155
Lime, hard sandy ----	20	20	Mud, white -----	10	165
Lime -----	7	27	Gumbo, blue -----	5	170
Asphalt -----	28	55	Lime, hard gray; water -	20	190
Lime -----	20	75	Shale and lime -----	15	205
Lime, gray; water ----	25	100	Mud, white -----	12	217
Shale, blue -----	20	120	Gumbo mud, blue -----	13	230
Lime, hard gray -----	6	126	Lime shells, gray -----	3	233
Lime, gray and shale -	6	132	Gumbo mud, blue -----	11	244
			Shale and lime shells --	30	274

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Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-9-2--Continued							
Anacacho limestone and Austin chalk-Continued:				Lime, hard gray -----	16	1,466	
Shale, gray -----	26	300		Lime, gray -----	29	1,495	
Shale, blue and lime shells -----	89	389		Shale, black -----	20	1,515	
Shale, blue -----	36	425		Buda limestone:			
Shale, blue and lime -	10	435		Lime, white -----	100	1,615	
Shale, white -----	84	519		Grayson shale (Del Rio clay):			
Lime, white -----	42	561		Shale, gray -----	70	1,685	
Lime, light sandy ----	19	580		Slate -----	22	1,707	
Lime, sandy -----	5	585		Shale, gray -----	58	1,765	
Lime, white sandy ----	43	628		Georgetown limestone:			
Lime, gray -----	10	638		Shale, gray -----	8	1,773	
Shale, white and lime shells -----	35	673		Lime, white -----	42	1,815	
Lime, gray -----	235	908		Edwards limestone; water at 1,820 to 1,830 feet	200	2,015	
Lime, soft gray; water at 995 feet -----	285	1,193		Lime, brown -----	10	2,025	
Shale, asphalt, and lime shells -----	42	1,235		Lime, white; more sulphur water at 2,203 feet -	238	2,263	
Eagle Ford shale:				Lime, black -----	4	2,267	
Asphalt and lime shells	115	1,350		Sand, white gray -----	28	2,295	
Shale, asphalt, and lime shells -----	43	1,393		Lime, black -----	45	2,340	
Shale, black and lime shells -----	43	1,436		Lime, black sandy; very small show of oil at 2,355 feet -----	44	2,384	
Shale, black -----	14	1,450		Lime, hard black -----	36	2,420	
				Lime, black -----	25	2,445	
Well H-4-37							
Owner: Wood Sights. Driller: Newell & Meyers.							
Gravel, clay and caliche	73	73		Clay, loose -----	22	112	
Del Rio clay -----	17	90		Edwards limestone ---	201	313	

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-4-38							
Owner: Calvin Gray. Driller: Walter Haine.							
Eagle Ford gravel -----	58	58	Edwards limestone -----	21	427		
Buda limestone -----	38	96	Gumbo lime, white -----	5	432		
Trap rock -----	100	196	Water -----	7	439		
Buda limestone -----	101	297	Gumbo lime, white -----	21	460		
Del Rio clay -----	109	406					
Well H-4-41							
Owner: A. P. Ingraham. Driller: Walter Haine.							
Clay and gravel -----	38	38	Lime and gumbo(Del Rio)-	99	650		
Chalk, white, little water			No record -----	54	704		
at 100 feet -----	290	328	Lime and flint -----	59	763		
Chalk, blue -----	38	366	Gumbo -----	118	881		
Eagle Ford shale -----	109	475	Water -----	3	884		
Buda limestone -----	76	551	Lime -----	9	893		
Well H-4-42							
Owner: A. P. Ingraham. Driller: Walter Haine.							
Clay and boulders -----	90	90	Lime, white -----	37	738		
Chalk, white, little water			Lime, black and				
at 146 feet -----	103	193	chocolate colored,				
Chalk, blue -----	109	302	little oil -----	318	1,056		
Eagle Ford shale -----	213	515	Lime with little flint-	22	1,078		
Buda limestone -----	90	605	Water -----	5	1,083		
Del Rio clay -----	96	701					
Well H-4-43							
Owner: A. P. Ingraham. Driller: Walter Haine.							
Surface soil and white			Del Rio clay, water in				
chalk, water at 126 ft.	147	147	top of Edwards at				
Chalk, blue -----	116	263	634 feet -----	90	634		
Eagle Ford shale -----	206	469	Edwards limestone -----	19	653		
Buda limestone -----	75	544					

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-4-44							
Owner: Julian Joplin. Driller: -- Virdell.							
Surface soil -----	3	3	Eagle Ford shale -----	280	495		
Clay -----	27	30	Buda limestone -----	90	585		
Clay and gravel -----	75	105	Del Rio clay -----	110	695		
Trap rock -----	95	200	Edwards limestone -----	160	855		
Austin chalk -----	15	215					
Well H-4-45							
Owner: Taylor & Janes. Driller: Carlos Meyers.							
Austin chalk -----	200	200	Del Rio clay -----	101	605		
Eagle Ford shale -----	220	420	Edwards limestone -----	204	809		
Buda limestone -----	84	504					
Well H-4-47							
Owner: Otto Strubbe. Driller: R. F. Gorman.							
Surface soil -----	10	10	Buda limestone -----	82	415		
Trap rock -----	55	65	Del Rio clay -----	96	511		
Austin chalk -----	65	130	Edwards limestone -----	205	716		
Eagle Ford shale -----	203	333					
Well H-4-48							
Owner: Otto Strubbe. Driller: R. F. Gorman.							
Surface soil -----	10	10	Eagle Ford shale -----	188	292		
Trap rock and gravel ---	43	53	Buda limestone -----	50	342		
Austin chalk -----	51	104					
Well H-4-51							
Owner: Carlos Meyers. Driller: Carlos Meyers.							
Surface gravel and chalk -	168	168	Del Rio clay -----	18	363		
Eagle Ford shale -----	7	175	Edwards limestone -----	17	380		
Buda limestone -----	170	345					

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-4-52							
Owner: Oscar Vickery. Driller: E. H. Cannon.							
Soil, gravel and Austin chalk -----	25	25	Rock, gray hard(Georgetown)	15	635		
Buff and yellow sandy chalk -----	75	100	Limestone, yellow porous streaks, water -----	33	668		
Shale, blue and serpentine	200	300	Clay, dark gray to black with hard streaks -----	62	730		
Shale, blue -----	5	305	Limestone, hard (Edwards)	6	736		
Rock, black, very hard, basalt (?) -----	35	340	Limestone, gray with brown streaks, water -----	66	802		
Rock, black, softer than above -----	106	446	Edwards limestone water at 850-860 -----	93	895		
Lime, hard gray (Buda) -	78	524	Shale, black, hard, limey	15	910		
Clay, dark gray (Del Rio)	96	620	No record -----	50	960		
Well H-4-54							
Owner: Taylor & Janes. Driller: Lynn Spurgeon.							
Surface soil -----	4	4	Buda limestone -----	85	545		
Caliche -----	41	45	Del Rio clay -----	105	650		
Gravel -----	10	55	Edwards limestone, yellow light -----	150	800		
Caliche and clay, yellow	75	130	Lime, cracked, water ---	106	906		
Eagle Ford shale, soft -	34	164	Lime, cracked, lots of water -----	20	926		
Eagle Ford shale, hard -	91	255					
Eagle Ford shale, dark gray and black, hard --	205	460					
Well H-4-55							
Owner: Carlos Meyers. Driller: Carlos Meyers.							
Austin chalk -----	215	215	Del Rio clay -----	95	805		
Eagle Ford shale -----	395	610	Georgetown limestone -	40	845		
Buda limestone -----	100	710	Edwards limestone ----	50	895		

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-4-56							
Owner: Joe F. Brown. Driller: Lynn Spurgeon.							
Surface soil -----	4	4	Del Rio clay -----	64	825		
Caliche yellow -----	39	43	Edwards limestone, hard -	26	851		
Chalk -----	139	182	Edwards limestone, soft -	70	921		
Eagle Ford shale -----	530	712	Edwards limestone,				
Buda limestone -----	49	761	white -----	109	1,030		
Well H-5-13, partial log							
Owner: John Monigan. Driller: Munroe Fenley.							
Austin chalk and Eagle Ford shale:			Lime nearly blue -----	5	173		
Soil, black -----	2	2	Del Rio clay -----	90	263		
Clay, red -----	10	12	Georgetown limestone:				
Clay, yellow rotten -----	6	18	Limestone, yellow water	22	285		
Gravel, loose -----	24	42	Edwards limestone:				
Clay, yellow and boulders -----	48	90	Limestone, hard white --	15	300		
Buda limestone:			Limestone, white with yellow streaks -----	65	365		
Lime; water -----	40	130	Limestone, hard white with layers of flint --	25	390		
Lime, broken -----	25	155	Flint ledges; water ----	10	400		
Lime, softer white -----	10	165	TOTAL DEPTH		475		
Lime with blue specks ---	3	168					
Well H-5-15							
Owner: C.S. Bowman. Driller: Munroe Fenley.							
Austin chalk and Eagle Ford shale:			Shale, brown -----	7	190		
Soil -----	3	3	Clay, rotten yellow and boulders -----	30	220		
Clay, white -----	22	25	Buda limestone:				
Gravel, loose -----	20	45	Lime -----	65	285		
Limestone, hard -----	15	60	Lime, with blue specks --	23	308		
Basalt, rotten yellow ---	10	70	Del Rio clay -----	99	407		
Basalt, hard blue -----	10	80	Georgetown and Edwards limestone; water at				
Basalt, rotten yellow ---	10	90	446-515 feet -----	133	540		
Basalt, blue rotten -----	75	165					
Lime, hard yellow -----	7	172					
Lime, soft yellow and clay -----	11	183					

Drillers' logs of wells in Uvalde County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well H-5-40					
Owner: -- Walcott. Driller: Bell Oil & Gas Co.					
Soil, gravel -----	2	2	Sands, slightly coarser, stained pink and reddish brown -----	22	2,820
Eagle Ford shale:					
Shale, yellow gritty-	70	72	Sands, minutely fine-		
Shale, light-gray			grained, slightly		
calcareous -----	8	80	argillaceous,		
Shale, dark-brown			light-brown or tan-		
petroliferous;			colored -----	16	2,836
considerable oil showing			Sandstone, white to		
around 90 feet -----	40	120	slightly stained fine-		
Buda limestone:			grained. One bed here		
Limestone, hard milk-			does not separate		
white -----	45	165	to individual grains in		
Del Rio clay:			cuttings but comes out		
Clay, blue sticky ----	45	210	in sandstone fragments-	9	2,845
Georgetown and Edwards			Shale, dark-blue and		
limestone:			clay -----	30	2,875
Limestone, hard and softer			Sands, gray, minutely		
gray; much water ----	465	675	fine grained, poorly		
Glen Rose limestone:			consolidated -----	25	2,900
Limestone, alternating			Sands, coarser-grained		
gray and blue shale--	905	1,580	white. Sampled from		
Travis Peak formation:			last 10 feet is half		
Limestone, alternating			shale, evidently cavings	52	2,952
gray and sandstone--	200	1,780	Sands, fine-grained		
Paleozoic rocks:			white poorly		
Shales and clays, blue,			consolidated -----	78	3,030
brown and black ----	960	2,740			
Shale, pink sandy ---	28	2,768			
Sand, white fine grained					
siliceous; last 15 ft.					
a "pack sand".Cuttings					
entirely separated;					
grains almost "powder"					
fine, all white and					
perfectly transparent--	30	2,798			

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-5-52							
Owner: D. H. Hancock. Driller: Monroe Fenley.							
Leona formation, yellow clay -----	60	60	Lime, hard white, flint beds and layers -----	20	495		
Austin chalk, chalky lime	7	67	Lime, broken yellow; lots of water -----	10	505		
Eagle Ford shale -----	65	132	Flint, hard and flint beds -----	60	565		
Buda limestone -----	90	222	Lime, pinkish -----	10	575		
Del Rio clay -----	73	295	Lime, yellow rotten ----	10	585		
Georgetown limestone----	50	345	Lime, yellow sandy (?)	15	600		
Edwards limestone: Rock, broken yellow, water	10	355	No record -----	263	863		
Lime, hard white -----	120	475					
Well H-5-118							
Owner: Seth Davenport. Driller: Walter Heine.							
Buda limestone, clay and boulders -----	72	72	Gumbo, break -----	3	200		
Del Rio clay -----	84	156	Limestone, soft, light creamy -----	27	227		
Edwards limestone -----	14	170	Chert -----	169	396		
Edwards limestone, white	12	182	Water -----	13	409		
Edwards limestone, cream	15	197					
Well H-5-120							
Owner: Clyde Watkins. Driller: Newell & Meyers.							
Del Rio clay, blue turned yellow at 95 feet ----	129	129	Edwards limestone ----	96	225		
Well H-5-135							
Owner: Conner Produce Co. Driller: Walter Heine.							
Surface soil -----	100	100	Del Rio clay -----	110	290		
Buda limestone -----	80	180	Edwards limestone ----	33	323		

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-5-146							
Owner: John Monigan. Driller: H. Spurgeon.							
Surface soil -----	4	4	Caliche, hard -----	20	90		
Caliche, white -----	26	30	Edwards limestone,				
Caliche, yellow -----	40	70	water at 170 feet --	100	190		
Well H-5-159							
Owner: Ross Lane. Driller: Carlos Meyers.							
Surface soil and chalk --	80	80	Del Rio clay -----	90	450		
Eagle Ford shale -----	190	270	Edwards limestone ----	120	570		
Buda limestone -----	90	360					
Well H-5-160							
Owner: E. A. Owens. Driller: Carlos Meyers.							
Surface clay -----	65	65	Del Rio clay -----	95	470		
Eagle Ford shale -----	220	285	Edwards limestone ----	375	845		
Buda limestone -----	90	375					
Well H-5-163							
Owner: U. S. Fish & Wild Life Service. Driller: Walter Heine.							
Surface soil and caliche	10	10	Austin chalk(little water)	10	70		
Caliche and clay -----	10	20	Austin chalk, solid ---	86	156		
Clay -----	10	30	Eagle Ford shale -----	152	308		
Clay and marl -----	10	40	Buda limestone -----	125	433		
Marl, blue -----	10	50	Del Rio clay -----	102	535		
Gravel(strong flow) ----	10	60	Edwards limestone -----	65	600		

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-5-164							
Owner: Huie H. Butler. Driller: Spurgeon & Son.							
Surface soil -----	32	32	Austin chalk, hard ----	12	140		
Austin chalk, some water	42	74	Austin chalk, broken,				
Austin chalk, hard -----	26	100	good water -----	20	160		
Austin chalk, broken			Austin chalk, tight ---	18	178		
good water show at 115			Rock,hard -----	2	180		
feet -----	28	128	Eagle Ford shale -----	6	186		
Well H-5-165							
Owner: Huie H. Butler. Driller: Harvey Sprugeon.							
No record -----	512	512	Georgetown limestone -	20	572		
Trap rock -----	21	533	Edwards limestone ----	10	582		
Del Rio clay -----	19	552	No record -----	270	852		
Well H-5-166							
Owner: City of Uvalde well 1. Driller: Lynn Spurgeon.							
Top soil -----	4	4	Buda limestone -----	98	174		
Caliche -----	34	38	Del Rio clay -----	87	261		
Gravel -----	18	56	Edwards limestone ----	139	400		
Clay -----	20	76					
Well H-5-168							
Owner: City of Uvalde well 2. Driller: Crawford & Roberts.							
Clay and soil -----	30	30	Del Rio clay -----	93	258		
Gravel -----	28	58	Georgetown limestone --	3	261		
Clay -----	18	76	Edwards limestone ----	217	478		
Buda limestone -----	89	165					

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-5-169							
Owner: City of Uvalde well 7. Driller: Lynn Spurgeon.							
Surface soil -----	4	4	Del Rio clay -----	90	212		
Caliche and clay -----	36	40	Edwards limestone ----	18	230		
Gravel -----	25	65	Edwards limestone, white	72	302		
Clay, yellow -----	15	80	Lime, white -----	223	525		
Buda limestone -----	42	122	Lime, and flint -----	77	602		
Well H-5-170							
Owner: City of Uvalde well 5. Driller: Meyers & Spurgeon.							
Surface soil and gravel -	56	56	Edwards limestone ----	34	140		
Del Rio clay -----	39	95	No record -----	21	161		
Edwards limestone, hard -	11	106					
Well H-5-171							
Owner: City of Uvalde well 4. Driller: Harvey Spurgeon.							
Surface soil and gravel -	66	66	Del Rio clay -----	90	221		
Buda limestone -----	65	131	Edwards limestone ---	44	265		
Well H-5-172							
Owner: City of Uvalde well 6. Driller: Lynn Spurgeon.							
Surface soil -----	4	4	Edwards limestone,				
Clay and caliche -----	26	30	cracked, water -----	6	211		
Gravel -----	15	45	Edwards limestone,				
Buda limestone -----	53	98	white -----	185	396		
Del Rio clay -----	93	191	Edwards limestone and				
Edwards limestone, hard	14	205	flint -----	129	525		

Drillers' logs of wells in Uvalde County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well H-6-2					
Owner: Texas Trap Rock Co.					
Leona formation+-----	46	46	Georgetown limestone:		
Austin chalk and Eagle			Clay, blue and limestone		
Ford shale:			becoming whittier -----	2	567
First limestone -----	132	178	Limestone -----	32	599
Soft salty material ---	29	207	Lime, thin veins of water		
Limestone -----	68	275	deposited -----	10	609
Rock, soft black; trace			Limestone -----	3	612
of water -----	23	298	Edwards limestone:		
Mud, blue -----	27	325	Limestone -----	13	625
Mud, blue and hard layers	34	359	Clay, whitish, water ----	5	630
Mud, blue harder -----	14	373	Potter's clay -----	135	765
Clay, whitish -----	20	393	Limestone, soft white ---	20	785
Slate and blue mud ----	9	402	Limestone, light colored	14	799
Buda limestone:			Limestone, very hard,		
Limestone, solid white	8	410	water at about 810 ft.	8	807
Limestone, solid white,			Limestone, very hard ---	20	827
thin, hard -----	6	416	Lime, white sandy -----	5	832
Limestone, solid white,			Limestone, brownish		
thicker, soft layer -	27	443	milky -----	48	880
Limestone -----	33	476	Limestone, whiter, harder		
Del Rio clay:			gritty -----	55	935
Clay, blue with oyster			Limestone, whiter, harder		
and iron pyrites ----	9	485	gritty, becoming darker	11	946
Clay, blue -----	80	565			
Well H-7-3					
Owner: -Anderson. Driller: Union Oil Co.					
Escondido formation:			Rock, blue with iron		
Sand, coarse -----	21	21	pyrite -----	21	179
Rock, blue -----	9	30	Anacacho limestone:		
Shell, hard -----	22	52	Sand, saturated -----	5	184
Rock, blue and hard			Rock, blue -----	5	189
shells -----	50	102	Rock, blue and iron pyrites	123	312
Sandrock, saturated;			Rock, hard blue -----	18	330
oil 11 feet -----	56	158	Rock, saturated -----	40	370
(Continued on next page)					

Drillers' logs of wells in Uvalde County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well H-7-3--Continued							
Anacacho limestone--Continued:				Edwards limestone:			
Limestone, white -----	56	426	Lime, white -----	50	1,550		
Gas -----	10	436	Lime, gray -----	75	1,625		
Sand, saturated -----	38	474	"Oil sand" -----	75	1,700		
Lime, gray -----	43	517	Lime, white -----	50	1,750		
Shale, white sandy ---	158	675	Lime, blue -----	100	1,850		
Austin chalk:				Lime, white -----	140	1,990	
Shale, blue sandy ----	415	1,090	Lime, sandy -----	12	2,002		
Shale, black -----	10	1,100	Comanche Peak limestone:				
Pyrites, some iron ---	70	1,170	Lime, sandy blue ----	28	2,039		
Eagle Ford shale, white				Glen Rose limestone:			
shale -----	130	1,300	Sand, white 5 feet --	15	2,045		
Buda limestone, white lime	30	1,330	Sand, gas -----	105	2,150		
Del Rio clay:				Oil 10 feet -----	50	2,200	
Sands, oil 15 feet --	5	1,335	Lime, blue sandy ----	70	2,270		
Shale, blue -----	75	1,410	Gas 2 feet -----	10	2,280		
Georgetown limestone, white				Lime, pink 3 feet ---	686	2,966	
shale -----	90	1,500	Shale, black 11 feet	181	3,147		
Well H-8-68							
Owner: P. C. Montgomery. Driller: - Spurgeon.							
Surface soil -----	5	5	Buda limestone -----	92	275		
Chalk(water at 46 feet)	78	83	Del Rio clay -----	87	362		
Eagle Ford shale -----	100	183	Edwards limestone -----	170	532		
Well H-8-69							
Owner: Jim Farr. Driller: - Spurgeon.							
Surface soil -----	8	8	Buda limestone -----	87	467		
Chalk -----	82	90	Del Rio clay -----	91	558		
Eagle Ford shale -----	290	380	Edwards limestone -----	42	602		

Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-9-9							
Owner: Kincaid Estate. Driller: Humble Oil & Refining Co.							
Escondido formation:				Shale, blue ----- 120 870			
Sand, loose -----	25	25		Austin chalk, Eagle Ford shale,			
Gravel -----	25	50		and Buda limestone:			
Clay, yellow -----	11	61		Shale, blue sandy; water	3	873	
Shale, blue -----	119	180		Shale, blue -----	87	960	
Shale, blue sandy, water	5	185		Lime, white -----	10	970	
Shale, blue -----	30	215		Shale, blue sandy; more			
Lime, blue -----	20	235		water at 1,000 feet --	60	1,030	
Lime, white -----	25	260		Shale, blue -----	260	1,290	
Lime, gray gritty -----	10	270		Shale, blue sandy -----	60	1,350	
Shale, white -----	7	277		Shale, blue -----	228	1,578	
Shale, gray -----	8	285		Shale, blue sandy -----	22	1,600	
Anacacho limestone:				Shale, blue and lime			
Sand, gray, hole full				shells -----	30	1,630	
of water -----	10	295		Del Rio clay:			
Sand, brown fine;				Shale, blue and lime			
considerable gas and				shells -----			
dead oil-asphalt ----	25	320		Lime, gray broken and			
Shale, blue -----	10	330		shale; run casing and			
Shale, gray -----	10	340		corrected depth -----			
Lime, white -----	30	370		16	1,680		
Lime, white broken ---	15	385		Georgetown and Edwards			
Shale, sandy -----	8	393		limestone:			
Shale, blue -----	32	425		Lime, gray sandy and			
Lime, white -----	30	455		sulphur water at			
Shale, blue -----	20	475		1,680 feet rose nearly			
Shale, gray -----	70	545		to top -----			
Shale, blue -----	40	585		26	1,706		
Shale, gray -----	10	595		Lime, gray hard; flowed			
Shale, gray sandy ----	10	605		while bailing -----			
Lime, gray -----	25	630		Lime, hard gray -----			
Shale, blue sandy ----	10	640		Lime, gray and sand ---			
Shale, blue -----	30	670		Lime, white -----			
Lime, gray -----	25	695		Sand, gray -----			
Shale, blue -----	50	745		Lime, white pure -----			
Shale, blue sandy ----	5	750		Lime, gray and sand ---			
				Lime, white -----			
				Lime, sandy white -----			

Drillers' logs of wells in Uvalde County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well I-4-4					
Owner: City of Sabinal.					
Anacacho limestone:			Georgetown limestone;		
Soil -----	3	3	sand water at 915 feet	25	940
Clay, yellow -----	32	35	Edwards limestone:		
Gravel -----	5	40	Lime, white -----	110	1,050
Clay, yellow -----	25	65	Lime, gray -----	10	1,060
Gravel -----	5	70	Lime, white -----	110	1,170
Clay, yellow -----	12	82	Lime, gray and sand --	10	1,180
Lime -----	8	90	Lime, hard-----	140	1,320
Shale, blue -----	30	120	Limestone -----	150	1,470
Lime -----	5	125	Sandrock -----	8	1,478
Shale, black -----	5	130	Limestone, crystalline	12	1,490
Lime -----	55	185	Limestone, crystalline		
Shale, black -----	5	190	grayish-brown -----	35	1,525
Lime -----	20	210	Limestone, grayish-		
Shale, blue -----	10	220	brown and white ----	20	1,545
Lime -----	5	225	Limestone, gray -----	30	1,575
Shale, blue -----	40	265	Limestone, light-gray		
Shale, green -----	15	280	chalky -----	42	1,617
Shell -----	2	282	Limestone, gray -----	11	1,628
Shale, blue -----	18	300	Limestone, gray and marl	19	1,647
Austin chalk:			Comanche Peak limestone,		
Shale, white -----	10	310	Walnut clay and Glen		
Shale, blue -----	25	335	Rose limestone:		
Shale, white -----	30	365	Limestone, light bluish		
Shale, blue -----	10	375	gray -----	23	1,670
Shale, white -----	31	406	Limestone, white and		
Lime -----	24	430	light-blue marl ----	17	1,695
Slate, white -----	15	445	Limestone, gray and		
Lime; water at 515 feet	70	515	light-blue soft marl	5	1,700
Slate and lime -----	75	590	Limestone, gray -----	10	1,710
Shale, brown -----	20	610	Limestone, light-gray		
Lime -----	20	630	and blue marl containing		
Slate, white -----	20	650	some gypsum -----	18	1,728
Lime -----	35	685	Limestone, white and		
Eagle Ford shale:			blue marl -----	36	1,764
Slate, black -----	15	700	Limestone, gray and		
Shale, brown -----	65	765	bluish and blue marl	56	1,820
Buda limestone:			Limestone, light-gray		
Lime, hard -----	10	775	and light-blue marl	92	1,912
Lime, chalky -----	13	788	Limestone, dark bluish		
Lime, hard -----	54	842	gray and some white		
Del Rio clay; shale ----	73	915	limestone -----	56	1,968

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Drillers' logs of wells in Uvalde County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-4-4--Continued							
Comanche Peak limestone, Walnut clay, and Glen Rose limestone- Continued:				Limestone, gray -----	25	2,285	
Marl, gray and light gray limestone -----	4	1,972		Limestone, light-gray and some gray marly shale -----	35	2,320	
Marl, grayish-blue -----	8	1,980		Limestone, light-gray porous and some gray shale -----	15	2,335	
Limestone, gray and gray marl -----	20	2,000		Limestone, light-gray and dark-gray marly shale -----	20	2,355	
Limestone, gray organic fragmental -----	80	2,080		Limestone, light-gray -	98	2,453	
Limestone, gray and bluish-gray shale -----	18	2,098		Limestone, light-buff -	50	2,503	
Limestone, gray organic fragmental -----	9	2,107		Limestone, light-buff crystalline -----	25	2,528	
Shale, dark bluish-gray marly and light-gray limestone -----	13	2,120		Limestone, grayish-buff crystalline -----	50	2,578	
Limestone, light-gray and bluish-gray marly shale	15	2,135		Fragmental, gray organic and partly crystalline limestone -----	27	2,605	
Shale, bluish-gray marly and light-gray limestone -----	25	2,160		Limestone, gray -----	28	2,633	
Limestone, light-gray --	15	2,175		Limestone, gray organic fragmental -----	22	2,655	
Shale, gray marly -----	10	2,185		Limestone, gray -----	25	2,680	
Shale, soft bluish gray marly -----	25	2,210		Limestone, gray organic fragmental -----	20	2,700	
Limestone, light-gray --	20	2,230					
Limestone, light-gray and bluish gray marly shale -----	30	2,260					
Well I-4-34							
Owner: City of Sabin. Driller: J. W. Roberts							
Surface soil -----	3	3		Austin chalk with streaks of blue shale water at 800 ft.	490	840	
Caliche -----	15	18		Eagle Ford shale -----	73	913	
Gravel and clay -----	52	70		Buda limestone water at 923-935 feet -----	72	985	
Clay, yellow -----	10	80		Del Rio clay -----	35	1,020	
Lime, black (Anacacho) water at 120 feet ----	40	120		Georgetown limestone ----	28	1,048	
Taylor marl, hard with chalk streaks -----	230	350		Edwards limestone -----	163	1,211	

Drillers' logs of wells in Medina County, Tex.

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well C-9-29					
Owner: W. DeGrodtt. Driller: Austin Smith.					
Lime, gray-----	40	40	Lime, white-----	10	130
Lime, yellow, arenaceous-	20	60	Lime, pink and clay-----	60	190
Lime, white-----	20	80	Lime, white-----	25	215
Lime, pink-----	40	120	Lime, white; water-----	60	275
Well C-9-55					
Owner: E. J. Leinweber. Driller: Austin Smith.					
Lime, white-----	115	115	Lime and shale-----	70	305
Sand; water-----	5	120	Shale, gray-----	75	380
Lime, blue-----	30	150	Lime and shale-----	40	420
Shale and lime-----	45	195	Lime blue; water-----	10	430
Lime, blue-----	40	235			
Well D-7-18					
Owner: Sunny Blevins. Driller: J. R. Johnson.					
Soil-----	1	1	Lime, gray-----	121	197
Limestone, pink (Edwards)	29	30	Marl, blue-----	44	241
Lime, white, hard-----	46	76	Limestone (Glen Rose)----	93	334
Well D-8-8					
Owner: O. W. Schuehart. Driller: Austin Smith.					
Gravel, broken limestone-	20	20	Limestone, blue with		
Limestone, yellow, dense			alternating layers of		
with some flint			blue clay, yellow lime,		
(Edwards), no water----	102	122	and sand (Glen Rose)---	498	620
			Limestone (Glen Rose),		
			blue gray, contains		
			water-----	51	671

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-1-15, partial log							
Owner: Tena Rothe. Driller: California-Medina Oil Co.							
Shale, blue-----	156	156	Lime, hard with flint----	11	688		
Lime, gray-----	48	204	Lime, white, hard-----	13	701		
Lime, gray, sandy-----	20	224	Lime, white-brown, soft--	25	726		
Shale, blue-----	27	251	Lime, brown-----	4	730		
Lime, gray, hard sandy---	5	256	Lime, white, hard-----	13	743		
Lime, dark with blue clay			Lime, brown, hard-----	3	746		
and sandy shale-----	22	278	Lime, white-----	32	778		
Shale, sandy-----	22	300	Lime with flint-----	5	783		
Shale, slate and white			Lime, hard with flint----	5	788		
lime-----	18	318	Lime, white-----	5	793		
Lime, white-----	18	336	Lime, hard-----	12	805		
Lime, white and dark gray			Lime, white-----	7	812		
shale-----	12	348	Lime, white, crystalline-	8	820		
Shale, brown, sandy; water			Lime, white-----	13	833		
sand-----	72	420	Lime, crystalline with				
Sand; water and white lime	5	425	calcite, sand and lime-	21	854		
Lime, gray, hard-----	8	433	Lime, sandy-----	15	869		
Lime, white and sand;water	7	440	Lime, white, sandy-----	14	883		
Lime, white and sand, very			Lime, white, hard-----	6	889		
hard-----	12	452	Lime, white-----	10	899		
Shale, lime, sand-----	10	462	Lime, hard-----	13	912		
Lime, hard and sand, gray	16	478	Lime, white-----	18	930		
Lime, gray, sandy-----	20	498	Lime-----	13	943		
Lime, gray-----	7	505	Sand, white, hard-----	12	955		
Lime, gray, hard-----	12	517	Lime, white-----	13	968		
Lime, very hard, flint---	19	536	Lime, white to dark gray-	25	993		
Lime, gray, hard-----	4	540	Lime, gray-----	12	1,005		
Lime, very hard, flint---	14	554	Lime, gray; gas show----	18	1,023		
Lime, white, flint-----	7	561	Lime, gray-----	10	1,033		
Lime, white, flint-----	10	571	Lime, gray, with flint---	8	1,041		
Sand, white, hard-----	23	594	Lime, gray, hard-----	10	1,051		
Sand, white and lime,			Lime, white to gray-----	10	1,061		
white-----	10	604	Lime, white-----	4	1,065		
Sand; gas show (good) and			Lime and shale, lime white				
lime, white-----	6	610	crystalline; shale gray	14	1,079		
Lime, very hard-----	10	620	Lime and shale, lime gray,				
Lime, with flint-----	15	635	hard; shale black-----	27	1,106		
Lime, white-----	9	644	Lime, gray-----	14	1,120		
Lime, white, coarse-----	10	654	Sand, dark-gray; gas show	7	1,127		
Lime, brown-----	23	677					

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Drillers' logs of wells in Medina County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well I-1-15--Continued							
Lime, dark, sandy and shale; water -----	12	1,139	Lime, gray, hard -----	13	1,683		
Shale and lime breaks ---	14	1,153	Lime, brown, hard -----	14	1,697		
Lime gray and shale, brown -----	4	1,157	Lime, hard, shale -----	14	1,711		
Lime, dark-gray -----	16	1,173	Lime, gray -----	19	1,730		
Lime, gray, hard -----	9	1,182	Lime, gray, hard, caving-	20	1,750		
Lime, gray, hard, sticky and shale, dark-gray --	12	1,194	Lime, brown rotten -----	13	1,763		
Sand, water, lime, gray very hard -----	7	1,201	Lime, brown caving -----	30	1,793		
Lime, gray, very flint --	8	1,209	Lime, white, caving -----	7	1,800		
Lime, gray, very hard ---	6	1,215	Lime, caving; water -----	5	1,805		
Lime, white, hard -----	3	1,218	Lime, gray -----	7	1,812		
Lime, gray, with soft lime, breaks -----	18	1,236	Lime, gray, hard -----	7	1,819		
Lime with shale breaks --	11	1,247	Lime, gray; gas show ----	9	1,828		
Lime, gray and shale, brown -----	9	1,256	Lime, gray, soft -----	13	1,841		
Lime, gray, hard and shale	7	1,263	Lime, soft, gas show ----	12	1,853		
Lime, gray -----	11	1,274	Lime, white, hard -----	6	1,859		
Lime, black, hard -----	3	1,277	Lime, white-gray, caving	13	1,872		
Lime, black -----	3	1,280	Lime, white; gas show ---	7	1,879		
Lime, gray, hard -----	4	1,284	Lime, white -----	3	1,882		
Lime and shale brown, lime, soft and shale -----	14	1,298	Lime, gray -----	12	1,894		
Lime, soft sandy -----	19	1,317	Lime, gray; gas show ----	6	1,900		
Lime, sandy and shale, brown; gas show -----	36	1,353	Lime, dark-gray -----	8	1,908		
Lime and shale, brown, blue and gypsum -----	36	1,389	Lime, white, hard -----	5	1,913		
Lime, shaley -----	34	1,423	Lime, gray, hard; gas show	10	1,923		
Lime, gray -----	11	1,434	Lime, gray -----	9	1,932		
Shale, light-gray -----	17	1,451	Lime, light-gray -----	6	1,938		
Sand and lime -----	26	1,477	Sand, gray -----	24	1,962		
Shale and lime, brown ---	34	1,511	Sand, light-gray -----	7	1,969		
Lime, shale -----	28	1,539	Lime, gray -----	6	1,975		
Lime, gray and shale ----	25	1,564	Sand, gray -----	5	1,980		
Shale and lime, gray ----	26	1,590	Lime, grey-sandy -----	5	1,985		
Lime, gray -----	17	1,607	Lime, sandy -----	8	1,993		
Lime, gray, soft and hard	27	1,634	Lime, gray -----	6	1,999		
Lime, white -----	7	1,641	Lime, gray, gas show ----	6	2,005		
Lime, hard, sandy -----	12	1,653	Lime, gray, oil show ----	6	2,011		
Lime, gray and shale sandy -----	17	1,670	Lime, gray -----	24	2,035		
			Lime, gray, oil show ----	10	2,045		
			Lime, gray, hard, gas show	3	2,048		
			Lime, gray, gas show ----	29	2,077		
			Lime, with gray flint ---	5	2,082		
			Lime with flint, gas show	5	2,087		
			Lime, light gray, gas show	4	2,091		
			Lime, brown, sandy -----	4	2,095		
			Lime, gray -----	6	2,101		
			Lime, light gray with pyrite -----	5	2,106		

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Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-1-15--Continued							
Lime, white and shale, white -----	6	2,112	Sand -----	2	2,534		
Lime, white with flint --	6	2,118	Shale -----	2	2,536		
Lime, white sandy -----	7	2,125	Shale, gray -----	6	2,542		
Lime, gray -----	17	2,142	Shale, brown -----	15	2,557		
Lime, gray and shale light -----	7	2,149	Shale, gray -----	4	2,561		
Lime, white -----	10	2,159	Gumbo -----	10	2,571		
Slate and shale sticky --	2	2,161	Shale, blue -----	8	2,579		
Shale, light-blue -----	5	2,166	Shale, red -----	2	2,581		
Shale, light -----	2	2,168	Shale, blue -----	3	2,584		
Pyrite -----	6	2,174	Shale, dark -----	4	2,588		
Lime, white, sandy water	19	2,193	Shale, sandy -----	2	2,590		
Lime, gray; gas show ----	10	2,203	Sand, brown -----	2	2,592		
Lime, brown, sandy oil show -----	9	2,212	Sand and lime -----	3	2,595		
Lime, gray, hard -----	10	2,222	Sand, brown, chalk -----	2	2,597		
Lime, white; gas show ---	7	2,229	Sand, white and shale; oil -----	1	2,598		
Lime, brown-gray sandy --	17	2,246	Chalk, gumbo -----	2	2,600		
Shale, white -----	8	2,254	Gumbo -----	2	2,602		
Shale and lime, gray ----	6	2,260	Shale; brown; oil show --	13	2,615		
Shale and lime -----	183	2,443	Lime; oil show -----	1	2,616		
Shale, gray -----	7	2,450	Shale, blue sandy; oil show -----	5	2,621		
Shale, blue -----	4	2,454	Shale, white, sandy, caving -----	2	2,623		
Shale, blue-gray -----	15	2,469	Shale, red -----	5	2,628		
Lime, blue-gray, and shale sandy -----	5	2,474	Sand, red -----	2	2,630		
Lime, gray, sandy and shale; oil -----	3	2,477	Asphalt -----	1	2,631		
Lime, gray, hard and blue shale -----	3	2,480	Shale, light red-gray ---	7	2,638		
Lime, white hard -----	2	2,482	Lime, sandy -----	2	2,640		
Shale, blue, sandy; oil show -----	3	2,485	Lime, black -----	2	2,642		
Lime, blue; sand, gray; shale, blue -----	6	2,491	Unknown -----	6	2,648		
Shale, blue, with lime --	9	2,500	Shale, brown -----	4	2,652		
Lime, gray, sandy; oil show -----	4	2,504	Shale, gray -----	16	2,668		
Sand -----	24	2,528	Shale, gray and sand ----	10	2,678		
Sand and shale, red ----	2	2,530	Sand with lime -----	19	2,697		
Sand, caving bad -----	2	2,532	Lime, white -----	7	2,704		
			Sand, brown -----	1	2,705		
			Shale, gray -----	5	2,710		
			Gumbo -----	3	2,713		
			Lime, hard -----	2	2,715		
			Sand, brown -----	2	2,717		
			Shale, sandy -----	23	2,740		

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Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-1-15--Continued							
Shale, sandy and sand ---	11	2,751	Lime -----	3	3,066		
Sand -----	11	2,762	Shale, sandy; gas show --	2	3,068		
Shale, sandy -----	62	2,824	Lime, hard, crystalline -	7	3,075		
Shale, sandy and sand ---	8	2,832	Shale, gray, friable ----	4	3,079		
Lime, sandy -----	20	2,852	Shale, gray, sandy,				
Sand -----	51	2,903	friable -----	2	3,081		
Shale, sandy -----	10	2,913	Shale, sandy -----	4	3,085		
Shale, sandy and lime ---	26	2,939	Shale, gray -----	2	3,087		
Lime -----	7	2,946	Shale, gray and hard				
Lime and sand -----	10	2,956	brown -----	23	3,110		
Lime and shale caving ---	6	2,962	Lime, white and shale,				
Shale, sandy -----	8	2,970	gray -----	2	3,112		
Shale, sand and limestone	7	2,977	Shale, brown and dark				
Shale, grayish-brown ----	8	2,985	blue -----	21	3,133		
Shale, brown -----	6	2,991	Shale, dark -----	11	3,144		
Sand, brown with shale			Shale -----	2	3,146		
and lime -----	16	3,007	Shale, brown -----	6	3,152		
Shale, brown -----	11	3,018	Shale, light brown; oil				
Shale, brown and gray ---	9	3,027	show -----	15	3,167		
Shale, fine sandy -----	2	3,029	Sand; oil show -----	7	3,174		
Shale, brownish-gray ----	6	3,035	Sand, with oil -----	11	3,185		
Shale, gray -----	7	3,042	Sand, black -----	3	3,188		
Sand -----	10	3,052	Shale and sand, black ---	4	3,192		
Sand and shale -----	4	3,056	Sand and shale -----	5	3,197		
Shale, gray -----	5	3,061	Shale and sand, black ---	1	3,198		
Sand and lime -----	1	3,062	Gumbo and shale -----	7	3,205		
Lime, sandy -----	1	3,063	Gumbo shale -----	8	3,213		
			Total Depth -----		3,705		
Well I-2-85							
Owner: Howard Nessley. Driller: Precision Drilling Co.							
Soil -----	4	4	Shale, gray, sandy -----	52	157		
Caliche, gravel and			Shale and lime (top				
boulders -----	21	25	Anacacho) -----	22	179		
Clay, yellow -----	14	39	Shale, blue, sandy -----	5	184		
Shale, gray -----	31	70	Lime, hard; oil show ----	21	205		
Shale, blue; lime streaks	35	105	Lime, hard and shale ----	141	346		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-2-85--Continued					
Chalk with shale streak -	290	636	Shale, gray, sticky -----	67	805
Shale, dark sandy hard			Lime, gray, hard -----	24	829
streaks -----	38	674	Crevice, lost circulation	2	831
Limestone, white hard,			Limestone, (Edwards) no		
(Buda) -----	64	738	circulation -----	20	851
Well I-3-5					
Owner: J. G. Brucks. Driller: R. Schwartz.					
Grayson shale, (Del Rio			Lime, crevice; water ----	135	300
clay) -----	35	35	Lime, gray -----	25	325
Sand, calcareous -----	55	90			
Limestone, (Edwards);					
water	75	165			
Well I-3-34					
Owner: Walter Brucks. Driller: Cravens Drilling Co.					
Soil -----	2	2	Lime, gray soft -----	47	165
Limestone, (Buda) -----	62	64	Limestone, (Edwards)		
Grayson shale, (Del Rio			water in crevice -----	93	258
clay) -----	54	118			
Well I-3-36					
Owner: Melvin Balzen. Driller: Abe Tschirhart.					
Soil, yellow -----	3	3	Lime, gray, flint -----	54	184
Clay, blue, Grayson shale			Lime, pink -----	77	261
(Del Rio clay) -----	57	60	Lime, white; water -----	39	300
Limestone, gray -----	48	108	Lime, blue -----	2	302
Limestone, (Edwards) ----	22	130			

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-3-49							
Owner: O. Wiemers. Driller: Otto Wiemers.							
Soil and gravel -----	15	15	Limestone, (Georgetown) -	54	221		
Shale, gray -----	33	48	Limestone, (Edwards) ----	35	256		
Limestone, (Buda) -----	61	109					
Clay, blue, Grayson shale (Del Rio clay) -----	58	167					
Well I-3-66							
Owner: Atlantic Pipeline Co. Driller: J. R. Johnson.							
Soil -----	2	2	Chalk, (Austin) -----	183	905		
Caliche -----	10	12	Shale, (Eagle Ford) ----	19	924		
Caliche and gravel -----	33	45	Limestone (Buda) -----	64	988		
Clay and gravel -----	21	66	Clay, Grayson shale, (Del Rio clay) -----	48	1,036		
Shale (Navarro) -----	259	325	Limestone, (Georgetown) -	36	1,072		
Sand, green and shale streaks -----	22	347	Limestone, (Edwards) with shale streaks -----	269	1,341		
Shale, (Navarro) -----	13	360					
Marl, (Taylor) -----	362	722					
Well I-3-80							
Owner: R. L. Mumme. Driller: J. Harper.							
Gravel and clay -----	9	9	Chalk -----	75	378		
Lime, light gray -----	76	85	Shale, (Eagle Ford) ----	37	415		
Lime, soft -----	35	120	Limestone, (Buda) -----	60	475		
Clay, blue -----	40	160	Clay, Grayson shale, (Del Rio clay) -----	40	515		
Lime, hard -----	33	193	Limestone (Georgetown and Edwards) -----	10	525		
Chalk -----	92	285					
Shale, gray -----	18	303					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-3-98							
Owner: E. Boehle. Driller: O. R. Frome.							
Soil -----	3	3	Shale, grey, hard -----	45	785		
Clay, yellow -----	7	10	Shale, brown, lignite ---	27	812		
Gravel -----	5	15	Lime, green -----	26	838		
Clay, yellow -----	40	55	Shale, blue, pyrite -----	7	845		
Sand, rock -----	1	56	Chalk -----	50	895		
Gumbo, rock -----	9	65	Lime, hard -----	15	910		
Lime, shell -----	1	66	Chalk -----	80	990		
Shale, grey -----	164	230	Shale, dark, pyrite -----	15	1,005		
Shale, shell -----	15	245	Chalk -----	70	1,075		
Shale, grey -----	165	410	Shale, (Eagle Ford) -----	37	1,112		
Shale, shell -----	17	427	Limestone (Buda) -----	61	1,173		
Lime, grey, soft -----	38	465	Clay, Grayson shale, (Del				
Shale, grey, soft -----	140	605	Rio clay) -----	59	1,232		
Lime, white chalky -----	70	675	Limestone, (Georgetown) -	51	1,283		
Lime, white, hard -----	65	740					
Well I-3-118							
Owner: U. S. Government. Driller: Wiegand Bros.							
Gravel and shale -----	63	63	Chalk -----	66	848		
Clay and boulders -----	15	78	Chalk and shale -----	65	913		
Shale -----	186	264	Shale -----	116	1,029		
Shale and boulders -----	85	349	Limestone -----	69	1,098		
Shale -----	302	651	Shale -----	67	1,165		
Limestone -----	131	782	Limestone -----	253	1,418		
Well I-3-127							
Owner: J. D. Dodson. Driller: Humble Oil & Refining Co.							
Clay and sand -----	24	24	Shale, sandy, boulders --	286	432		
Sand, boulders -----	50	74	Shale, lime -----	146	578		
Sand, hard -----	66	140	Sand, hard -----	56	634		
Rock -----	2	142	Rock -----	10	644		
Shale -----	4	146	Shale -----	14	658		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-3-127--Continued							
Rock -----	4	662	Sand, tested dry -----	76	1,466		
Shale, boulders -----	64	726	Shale, sandy -----	5	1,471		
Rock -----	2	728	Sand -----	12	1,483		
Shale, boulders -----	30	758	Shale, sandy -----	61	1,544		
Rock -----	1	759	Shale, sticky -----	160	1,704		
Shale, boulders -----	13	772	Shale, lime -----	116	1,820		
Shale, boulders -----	253	1,025	Marl, (Taylor) -----	246	2,066		
Rock -----	3	1,028	Chalk, (Austin) -----	303	2,369		
Shale, boulders -----	12	1,040	Shale, (Eagle Ford) -----	64	2,433		
Rock -----	5	1,045	Limestone (Buda) -----	154	2,587		
Shale, boulders -----	200	1,245	Limestone, (Georgetown) -	60	2,647		
Shale -----	145	1,390	Limestone, (Edwards) ----	25	2,672		
Well I-3-134							
Owner: City of Hondo. Driller: P. Lindholm							
Clay, boulders -----	28	28	Shale, hard -----	75	830		
Clay, sand -----	10	38	Rock -----	55	885		
Rock and sand -----	4	42	Gypsum -----	165	1,050		
Clay -----	48	90	Asphalt; oil show -----	7	1,057		
Gumbo -----	250	340	Rock, hard -----	93	1,150		
Rock -----	3	343	Limestone, with pyrite --	25	1,175		
Shale -----	17	360	Limestone, hard -----	47	1,222		
Shale, hard -----	20	380	Limestone, with pyrite --	22	1,244		
Shale, hard and soft ----	200	580	Shale and limestone -----	52	1,296		
Gumbo, tough -----	13	593	Rock, hard -----	44	1,340		
Rock -----	39	632	Rock, soft and shale ----	25	1,365		
Gypsum and rock -----	21	653	Rock, with pyrite -----	3	1,368		
Limestone, hard -----	21	674	Shale with pyrite -----	97	1,465		
Limestone, soft -----	38	712	Sand, stratified; water -	20	1,485		
Rock, hard -----	13	725	Limestone -----	15	1,500		
Gumbo -----	30	755	Shale, hard and soft ----	100	1,600		
Well I-3-135							
Owner: Walter Meyer. Driller: C. Gilliam.							
Soil -----	30	30	Clay, yellow -----	11.5	73		
Gravel -----	31	61	Clay, blue -----	25	98		
Lime, hard, laminated ---	0.5	61.5					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-3-139					
Owner: Louis Heyen. Driller: Austin Smith.					
Lime, white -----	15	15	Lime, yellow -----	30	245
Lime, yellow -----	20	35	Lime, white -----	60	305
Shale, blue -----	60	95	Lime, gray -----	45	350
Limestone (Edwards) -----	70	165	Lime, white; water -----	45	395
Lime, gray -----	50	215	Lime, yellow -----	5	400
Well I-4-7					
Owner: G. A. Kennedy. Driller: Stover and May.					
Soil -----	6	6	Rock -----	4	439
Gravel -----	9	15	Limestone -----	21	460
Rock -----	9	24	Lime, broken; oil show --	14	474
Rock, broken -----	12	36	Lime, broken -----	58	532
Rock -----	4	40	Lime, shale -----	9	541
Sand, gravel -----	44	84	Lime with pyrite -----	19	560
Rock, broken -----	23	107	Lime, hard -----	9	569
Rock -----	2	109	Lime, sandy -----	13	582
Shale -----	11	120	Lime, hard -----	62	644
Rock -----	6	126	Shale and lime, hard ----	17	661
Shale -----	6	132	Shale and lime, broken --	11	672
Rock -----	4	136	Chalk -----	118	790
Sand -----	6	142	Chalk with pyrite -----	27	817
Rock -----	4	146	Sand and chalk -----	10	827
Shale -----	21	167	Chalk, hard and shale ---	5	832
Rock -----	3	170	Chalk -----	115	947
Shale, boulders -----	89	259	Chalk, shale, chalky ----	34	981
Rock -----	2	261	Limestone, hard -----	56	1,037
Shale -----	19	280	Chalk and clay, streaks -	34	1,071
Rock -----	2	282	Chalk, hard -----	69	1,140
Shale, sandy -----	8	290	Shale, (Eagle Ford) -----	30	1,170
Rock -----	2	292	Limestone, (Buda) -----	125	1,295
Shale, sticky, rock -----	23	315	Clay, Grayson shale, (Del Rio clay) -----	75	1,370
Shale -----	15	330	Limestone, (Georgetown) -	28	1,398
Shale, sandy -----	15	345	Gumbo -----	3	1,401
Shale, sticky -----	65	410	Limestone (Edwards) -----	55	1,456
Rock -----	2	412			
Shale, boulders -----	23	435			

Drillers' logs of wells in Medina County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well I-4-11							
Owner: W. C. Scott. Driller: Sun Oil Co.							
Caliche, gravel and clay	28	28	Lime-dolomite, hard -----	17	395		
Lime, hard or chalk -----	20	48	Igneous rock -----	12	407		
Marl, firm -----	14	62	Ash agglomerate, green,				
No recovery -----	14	76	slate color, with calcite and ash veins ----	11	418		
Chalk, hard, porous -----	3	79	Ash, green crumbly with calcite veins -----	9	427		
No recovery -----	9	88	Lime, white hard; pyrites vertical split filled with calcite and trace of asphalt -----	3	430		
Marl, firm, hard with shale at base -----	10	98	Lime, white hard, with vertical faults-trace of asphalt -----	10	440		
Sand, blue, tight, shaley or ashy -----	11	109	Lime, white, hard fossiliferous -----	10	450		
Shale, blue sandy or ash	6	115	Conglomerate, white hard fossiliferous; Lime gray hard fine texture; Ash, slate colored, hard, fine texture ----	10	460		
No recovery -----	5	120	Chalk, gray, hard, fossiliferous -----	16	476		
Chalk, hard, fossil, asphaltic -----	8	128	Chalk, white, hard fossiliferous with spots of glauconite -----	10	486		
Chalk, very hard, fossil	8	136	Chalk, light gray, hard sandy, calcareous -----	10	496		
Chalk, very hard, fossil with ash pebbles and ash, greenish-blue sandy -----	12	148	Chalk, light gray hard, ash blue, sandy, compact chalk very hard, sandy fossiliferous with spots of green serpentine ---	22	518		
Ash, greenish blue and gray friable and breccia with calcity seams ----	80	228	Chalk, white hard, fossil calcareous, with grains of green serpentine ---	12	530		
Ash, sandy -----	2	230	Chalk, white hard limey with spots of green serpentine, hard sandy limey chalk with green serpentine specks and large fossil shells -----	15	545		
Ash, coarse crumbly -----	9	239					
Sand, limey -----	2	241					
Lime, breccia, very hard fossiliferous -----	4	245					
Lime, very hard -----	2	247					
Conglomerate, lime, very hard -----	2	249					
Ash, green, friable, with calcite -----	4	253					
Ash, bluish-gray firm brittle -----	27	280					
Rock, dark; hard -----	33	313					
Rock, dark, hard with calcite and quartz seams of varying texture	60	373					
Vein material vertical rather than the usual horizontal -----	5	378					

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Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well I-4-11--Continued			
Chalk, hard sandy limey with serpentine and large fossil shells; chalk white hard, fos- siliferous -----	10	555	Limestone, white, hard; oil trace; shale, black -----
Chalk, gray, soft, friable and white, hard -----	12	567	Shale, black, firm -----
Chalk, white, hard with a few dark bands -----	87	654	Shale, black, firm fossil with pyrite and lime- stone, light, gray hard dense, 3 feet thick with pyrite -----
No recovery -----	30	684	Limestone, white hard dense, fossiliferous --
Chalk, white, hard with a few dark bands -----	87	771	Serpentine, green; gumbo Limestone (Georgetown)
Chalk, white, hard -----	42	813	Limestone, white hard dense, Ash, blue firm; Limestone dark buff; dense (Edwards) -----
Chalk, light hard -----	39	852	Limestone, buff, very hard asphaltic and contains dark, nederal flint -----
Chalk, dark, hard, lami- nated; gas odor slight	10	862	No recovery -----
Shale, brown, very hard, laminated; gas odor slight -----	33	895	Limestone, buff, hard slightly less dense than Edwards -----
Shale, dark, very hard laminated; gas odor good -----	39	934	Flint, black very hard --
Shale, dark, very hard laminated; gas odor good Limestone, white very hard massive ----	11	945	Limestone, tan, very hard -----
Ash, blue, firm, lime- stone white, very hard massive -----	12	957	Limestone, buff, hard por- ous, fossiliferous, with calcite, sulphur odor; water -----
No recovery -----	14	971	
Limestone, white, very hard, massive -----	15	986	
Limestone, white, hard; oil trace -----	27	1,013	

Well I-4-17

Owner: George Rehm. Driller: -- Stegner.

Shale, yellow, slightly sandy -----	20	20	Shale, yellow, slightly sandy -----	10	40
Shale and gravel, yellow	10	30			

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-4-17--Continued							
Shale and gravel, yellow calcareous -----	40	80	Limestone, gray-white hard and, shale gray hard with pyrite -----	75	500		
Slate and gravel, orange, calcareous -----	10	90	Shale, bluish-gray, hard	10	510		
Shale, brown, sandy, streaks	20	110	Limestone, earthy white and shale, blue -----	20	530		
Shale, dark blue, calcareous -----	10	120	Limestone, white hard and shale, blue with pyrite	30	560		
Limestone, dark gray and shale-----	10	130	Limestone, earthy white with glauconite -----	80	640		
Serpentine, bright green-	10	140	Limestone, white mud hard with pyrite -----	310	950		
Limestone, white gray, hard	20	160	Limestone, brown, hard laminated, crystalline, dark-gray brown calcareous; oil-odor lignite -----	70	1,020		
Shale, dark gray -----	10	170	Lignite hard brownish black -----	30	1,050		
Shale, bluish-green with pyrite	10	180	Limestone, with hard ----	90	1,140		
Shale, green, hard limestone, with massive ---	50	230	Shale, grayish-blue, sticky, with pyrite ---	80	1,220		
Shale, bluish-green and limestone, white -----	30	260					
Limestone, gray and white	20	280					
Shale, dark gray and limestone -----	80	360					
Limestone, white and gray with pyrite -----	10	370					
Shale, dark gray, gumbo, hard and limestone, hard	55	425					

Well I-5-2							
Owner: Southern Pacific Lines. Driller: P. Lindholm.							
Clay -----	31	31	Chalk, hard -----	20	790		
Sand or clay -----	100	131	Clay, stone -----	16	806		
Limestone -----	60	191	Clay, sand -----	34	840		
Sand, cement -----	30	221	Soapstone, blue; oil show	114	954		
Sand; water -----	5	226	Sand, brown -----	118	1,072		
Sand, tight -----	20	246	Rock, white and sand ----	13	1,085		
Sandstone -----	28	274	Sand, packed; water ----	79	1,164		
Clay, blue, slate-----	35	309	Limestone -----	7	1,171		
Limestone -----	429	738					
Slate -----	32	770					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-5-8, partial log							
Owner: C. Steurnthaler. Driller: Pegg Bros.							
No record -----	380	380	Shale, (Eagle Ford) -----	60	1,050		
Marl, (Taylor) -----	150	530	Limestone, (Buda) -----	70	1,120		
Limestone, (Anacacho) -----	200	730	Total Depth -----		1,462		
Chalk, (Austin) -----	260	990					
Well I-5-11							
Owner: R. J. Taylor. Driller: A. Hunt.							
Clay, yellow -----	15	15	Clay, blue -----	38	100		
Gravel and clay, yellow -	37	52	Shale, lime streaks -----	165	265		
Sand, white; water -----	2	54	Shale, blue -----	103	368		
Clay, yellow -----	8	62	Shale, blue and lime ----	27	395		
Well I-5-26							
Owner: A. E. Saathoff. Driller: P. Lindholm.							
Soil -----	2.5	2.5	Limestone, (Anacacho) ---	5	405		
Gravel, (Leona) -----	17.5	20	Limestone, and asphalt;				
Clay, yellow -----	64	84	oil -----	35	440		
Clay, blue -----	106	190	Limestone and shale -----	48	488		
Sand -----	18	208	Limestone; water -----	20	508		
Shale, gray -----	192	400					
Well I-5-30							
Owner: M. J. Finger. Driller: Joe Anderle.							
Gravel and sand -----	5	5	Sand and clay -----	15	350		
Clay, yellow -----	50	55	Sandstone, red -----	12	362		
Clay, blue -----	36	91	Marl, gray -----	43	405		
Lime, blue -----	2	93	Marl, white -----	25	430		
Clay, blue -----	112	205	Sand; water -----	6	436		
Shale, gray -----	95	300	Sandstone -----	17	453		
Sand with asphalt -----	35	335	Sand; oil show -----	1	454		

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-5-34							
Owner: John N. Fohn. Driller: Finnell & Williams.							
Gravel -----	3	3	Shale, gummy -----	20	695		
Clay -----	37	40	Sand, hard -----	9	704		
Sand -----	4	44	Shale, sticky -----	76	780		
Shale with sand -----	216	260	Lime, hard -----	5	785		
Shale, light colored ----	10	270	Gumbo -----	50	835		
Sand, gray; water -----	5	275	Lime, hard; good oil show	23	858		
Shale, sandy; oil show --	190	465	Gumbo, sticky -----	20	878		
Shale, light with sand			Shale, sandy; oil show --	12	890		
lenses; oil show -----	55	520	Shale, hard, limey -----	15	905		
Lime, gray, soft -----	5	525	Lime, hard, sandy -----	12	917		
Shale, sandy -----	50	575	Lime, very hard -----	13	930		
Shale, hard -----	15	590	Lime -----	35	965		
Sand, hard; oil show ----	21	611	Lime, yellow; oil show --	12	977		
Shale, soft -----	19	630	Lime, dark gray -----	24	1,001		
Shale, sandy -----	32	662	Lime, light -----	7	1,008		
Shale and sand with lenses;							
oil show -----	13	675					
Well I-5-35							
Owner: J. A. Mott. Driller: Medina Oil Co.							
Flint, boulders -----	2	2	Gumbo -----	25	240		
Clay, yellow -----	28	30	Lime, hard -----	5	245		
Clay, gray -----	5	35	Gumbo -----	25	270		
Shale, light -----	35	70	Lime -----	5	275		
Sand, white -----	10	80	Gumbo -----	10	285		
Clay, brown -----	35	115	Lime, dark, shells -----	5	290		
Sand; water -----	15	130	Oil show -----	5	295		
Clay, gray -----	5	135	Sandstone, white -----	15	310		
Gumbo, blue -----	15	150	Shale, blue -----	130	440		
Lime, hard -----	15	165	Lime, gray -----	2	442		
Sand; water -----	15	180	Sand; water -----	3	445		
Gumbo -----	30	210	Lime, gray -----	3	448		
Lime -----	5	215	Shale, blue -----	390	838		

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-5-36					
Owner: Otto Mainz. Driller: United North & South Development Co.					
Soil -----	20	20	Boulders, sand -----	9	550
Sand -----	10	30	Sandstone -----	37	587
Gravel rock -----	10	40	Shale -----	3	590
Rock -----	29	69	Sandstone -----	19	609
Boulders and sand, hard	36	105	Limestone with pyrite ---	6	615
Rocks, hard, sandy -----	44	149	Lime, hard -----	59	674
Shale, hard -----	61	210	Lime, hard and shale broken -----	13	687
Sand; oil show -----	7	217	Lime and shale, broken --	33	720
Shale, sandy -----	26	243	Lime and shale, hard ----	37	757
Shale, hard -----	2	245	Sandstone and lime -----	8	765
Shale, hard, dry -----	13	258	Chalk -----	6	771
Shale, hard -----	14	272	Chalk with pyrite -----	55	826
Shale -----	18	290	Chalk -----	235	1,061
Shale, hard -----	11	301	Shale (Eagle Ford) -----	38	1,099
Sand, hard; water -----	3	304	Limestone (Buda) -----	73	1,172
Lime, hard, sand -----	11	315	Clay, Grayson shale, (Del Rio clay) -----	76	1,248
Rock -----	1	316	Limestone (Georgetown) --	71	1,319
Sand, hard; water -----	7	323	Limestone -----	38	1,357
Lime, hard, sandy -----	10	333	Limestone (Edwards) ----	3	1,360
Shale -----	2	335	Cap rock -----	1	1,261
Shale, hard and boulders	40	375	Lime -----	16	1,377
Shale -----	108	483	Limestone (Edwards) ----	16	1,393
Sand -----	1	484	Lime, broken -----	27	1,420
Shale -----	5	489	Limestone, broken -----	5	1,425
Sand, hard -----	15	504			
Shale, hard -----	27	531			
Boulders, hard, sand ---	10	541			

Well I-5-37					
Owner: R. J. Taylor. Driller: N. C. Johnson.					
Soil -----	3	3	Shale, hard, sandy -----	72	692
Clay, gray, sandy. -----	32	35	Shale, white, sandy -----	58	750
Gravel -----	9	44	Clay, blue -----	3	753
Clay, yellow -----	3	47	Chalk -----	252	1,005
Gravel, water -----	5	52	Shale, (Eagle Ford) -----	41	1,046
Clay, yellow -----	18	70	Limestone, (Buda) -----	76	1,122
Shale, gray and boulders	255	325	Clay, Grayson shale, (Del Rio clay) -----	70	1,192
Lime, rock -----	10	335	Limestone, (Georgetown) -	56	1,248
Shale, gray, sandy -----	185	520	Limestone -----	1	1,249
Sandstone, hard -----	78	598			
Lime and sand, hard ----	22	620			

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-5-41							
Owner: A. L. Haegelin. Driller: Sun Oil Co.							
Alluvium and shale -----	80	80	Lime, gray, sandy,				
Sand, green, shaley -----	24	104	fossils -----	3	318		
Lime, sandy, glauconic --	34	138	Shale, green fossiliferous	33	351		
Sand, calcareous -----	12	150	Sandy, clay and sandstone;				
Sand and shale, green			oil spots -----	28	379		
fossil -----	30	180	Sand, green -----	12	391		
Clay, green, fossil -----	14	194	Lime, green fossiliferous	2	393		
Lime, fossils -----	4	198	Clay, green sandy -----	36	429		
Sand, dark green -----	14	212	Clay, green, sandy, oil				
Lime -----	1	213	streaks -----	106	535		
Sand, green and clay ----	16	229	Shale, green, sandy -----	69	604		
Lime, green, sandy fossil	7	236	Shale, green and sand				
Sand, greenish gray -----	22	258	streaks -----	19	623		
Lime, green fossils -----	2	260	Shale, green and sand,				
Clay, sand, grayish-green	20	280	thin streaks -----	87	710		
Marl, green fossils -----	4	284	Shale, green and sand ---	50	760		
Sand, grayish-green -----	31	315	Clay and shale green ----	13	773		
Well I-5-43							
Owner: A. L. Haegelin. Driller: Ben Banner,							
Soil -----	10	10	Shale, blue sticky -----	8	378		
Gravel -----	10	20	Shale, blue, hard, broken	87	465		
Clay, yellow -----	10	30	Shale, blue, sandy -----	110	575		
Sand, gravel -----	14	44	Sandy, green, hard -----	6	581		
Rock, hard -----	12	56	Shale, hard, sandy -----	49	630		
Shale, green -----	63	119	Shale, blue, medium hard	50	680		
Rock, hard -----	27	146	Shale, blue, hard -----	53	733		
Shale, green -----	5	151	Shale, sticky -----	145	878		
Rock, hard -----	3	154	Sand, shale streaks; good				
Shale, blue -----	39	193	oil show -----	7	885		
Lime, green hard -----	1	194	Shale, sandy; oil show --	12	897		
Shale, blue -----	48	242	Shale, sticky -----	4	901		
Sand, green, hard -----	4	246	Shale, blue, soft -----	28	929		
Shale, blue, medium -----	19	265	Lime, hard, sandy -----	34	963		
Shale, blue, hard, broken	48	313	Lime, green, hard -----	3	966		
Shale, hard, sandy; oil			Marl, (Taylor) hard -----	79	1,045		
show -----	57	370	Sand, hard -----	7	1,052		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-5-43--continued					
Gumbo, blue -----	13	1,065	Lime, broken and shale --	76	1,390
Shale, hard, sandy -----	20	1,085	Shale (Eagle Ford) -----	60	1,450
Shale, sandy and lime ---	30	1,115	Limestone (Buda) -----	45	1,495
Lime, hard and sandstone	15	1,130	Clay, Grayson shale (Del		
Chalk -----	85	1,215	Rio clay) -----	75	1,570
Shale and lime -----	17	1,232	Limestone, (Georgetown) -	80	1,650
Lime, sandy -----	12	1,244	Limestone (Edwards) -----	70	1,720
Lime, hard and soft -----	41	1,285			
Lime, arenaceous; oil					
show -----	29	1,314			
Well 1-5-44					
Owner: A. L. Haegelin. Driller: Medina Oil Co.					
Clay -----	10	10	Gumbo -----	38	1,200
Rock -----	28	38	Limestone (Anacacho) ----	18	1,218
Gravel; water -----	4	42	Lime, sandy -----	12	1,230
Boulders and gumbo -----	20	62	Clay, blue, hard -----	40	1,270
Gumbo and sand -----	174	236	Sand and gravel -----	3	1,273
Gumbo and shale -----	173	409	Limestone (Anacacho) ----	19	1,292
Gumbo, sandy -----	251	660	Shale, blue -----	5	1,297
Shale, sandy -----	30	690	Unknown formation -----	297	1,594
Gumbo -----	15	705	Shale, (Eagle Ford), gray	16	1,610
Shale, blue -----	255	960	Shale -----	35	1,645
Gumbo -----	13	973	Limestone (Buda) -----	78	1,723
Limestone (Anacacho) ----	66	1,039	Clay, Grayson shale, (Del		
Salt water and salt -----	53	1,092	Rio clay) -----	77	1,800
Water and gas show -----	5	1,097	Limestone, (Georgetown)		
Shale and azurite, blue -	6	1,103	sulphur water -----	37	1,837
Limestone (Anacacho) ----	59	1,162	Limestone and sand; water	24	1,861
			Limestone (Edwards) fresh		
			water; oil show -----	45	1,906
			Limestone -----	44	1,950

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-5-51							
Owner: T. J. Bendele. Driller: W. H. Wycott.							
Soil -----	5	5	Shale, gray, boulders ---	21	195		
Lime, hard -----	19	24	Shale, gray, sticky -----	10	205		
Clay, yellow -----	31	55	Shale, gray, sandy -----	45	250		
Shale, blue, gummy -----	12	67	Limestone -----	5	255		
Shale, hard, sandy, flint	23	90	Sand; water -----	5	260		
Shale, blue and limestone	20	110	Shale, gray, gummy -----	50	310		
Lime, white -----	10	120	Lime, gray, sandy -----	65	375		
Shale, blue, sandy -----	54	174					
Well I-5-56							
Owner: Carle and Nester. Driller: W. Glasscock.							
Soil -----	119	119	Shale -----	54	1,266		
Boulders, hard, sandy ---	139	258	Limestone and shale -----	159	1,425		
Sand, hard -----	60	318	Limestone, sandy -----	87	1,512		
Sand and shale -----	124	442	Limestone -----	188	1,700		
Shale and sand -----	153	595	Shale and limestone -----	7	1,707		
Shale -----	460	1,055	Shale -----	24	1,731		
Shale, hard, sandy -----	20	1,075	Shale and limestone -----	206	1,937		
Sand -----	7	1,082	Limestone -----	57	1,994		
Shale, calcareous -----	20	1,102	Shale -----	6	2,000		
Shale, hard, sticky -----	19	1,121	Limestone -----	2	2,002		
Lime, sandy -----	22	1,143	Shale and limestone -----	293	2,295		
Lime, hard, sandy -----	46	1,189	Limestone -----	21	2,316		
Shale and limestone -----	9	1,198	Limestone, broken -----	72	2,388		
Limestone -----	14	1,212	Limestone and shale -----	24	2,412		
Well I-5-59							
Owner: Paul Rienhardt. Driller: W. W. Woodworth.							
Soil -----	3	3	Sandstone -----	4	40		
Rock -----	25	28	Rock, red -----	8	48		
Sandstone -----	2	30	Rock, sand -----	3	51		
Sand, white; water -----	6	36	Shale -----	55	106		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-5-59--continued					
Sandstone -----	12	118	Sandstone -----	2	930
Sand; water -----	3	121	Shale -----	6	936
Sandstone -----	4	125	Sand -----	18	954
Sand, shale -----	75	200	Shale -----	86	1,040
Sandstone -----	5	205	Sand -----	15	1,055
Rock and shale -----	75	280	Shale, sandy -----	15	1,070
Rock -----	3	283	Limestone -----	65	1,135
Shale, sticky -----	92	375	Sand and shale -----	55	1,190
Lime, sandy -----	4	379	Limestone, sandy and shale	125	1,315
Shale -----	26	405	Chalk (Austin) -----	270	1,585
Rock -----	3	408	Shale (Eagle Ford) -----	109	1,694
Shale, boulders -----	174	582	Limestone, (Buda) -----	80	1,774
Limestone -----	4	586	Clay, Grayson shale, (Del		
Shale and boulders,			Rio clay) -----	66	1,840
sticky -----	161	747	Limestone (Georgetown) --	67	1,907
Limestone -----	1	748	Limestone (Edwards) water	57	1,964
Shale, sticky -----	112	860			
Sand, white -----	68	928			
Well I-5-60					
Owner: Oscar W. Tunder. Driller: Mid-Kansas Oil Co.					
Soil -----	3	3	Sand; oil trace -----	5	367
Clay -----	11	14	Shale -----	53	420
Gravel -----	4	18	Rock, hard -----	38	458
Sand -----	22	40	Shale, sticky -----	112	570
Sand, yellow -----	25	65	Rock, hard -----	2	572
Sand, black; water -----	20	85	Shale, boulders -----	419	991
Shale, sandy -----	16	101	Limestone, hard -----	164	1,155
Rock -----	5	106	Shale -----	93	1,248
Shale, blue -----	34	140	Chalk, (Austin)-----	364	1,612
Limestone, black -----	37	177	Shale, (Eagle Ford) -----	60	1,672
Limestone -----	40	217	Limestone (Buda) -----	85	1,757
Shale, sandy -----	45	262	Clay, Grayson shale (Del		
Rock, hard -----	1	263	Rio clay) -----	67	1,824
Shale -----	89	352	Limestone, (Georgetown)	70	1,894
Rock, hard -----	6	358	Limestone -----	46	1,940
Shale -----	4	362	Limestone; water -----	50	1,990

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-5-71							
Owner: Lucian Ward. Driller: Grayburg Oil Co.							
Sand rock -----	22	22	Sand, rock -----	2	1,224		
Clay, surface -----	8	30	Lime -----	48	1,272		
Sand, packed -----	23	53	Clay -----	2	1,274		
Sand, packed, boulders --	36	89	Marl, (Taylor), lime ----	101	1,375		
Sand, packed -----	95	184	Shale, sandy -----	6	1,381		
Shale -----	60	244	Lime -----	12	1,393		
Shale, boulders -----	148	392	Shale -----	32	1,425		
Rock -----	3	395	Shale and lime -----	31	1,456		
Shale, boulders -----	44	439	Lime -----	78	1,534		
Shale -----	36	475	Chalk -----	2	1,536		
Rock -----	4	479	Lime, soft -----	49	1,585		
Shale -----	6	485	Chalk -----	155	1,740		
Shale, boulders -----	105	590	Lime, broken -----	36	1,776		
Marl, green -----	5	595	Limestone -----	54	1,830		
Sand, broken and shale, light; oil show -----	65	660	Lime and shale -----	33	1,863		
Shale, hard, boulders ---	60	720	Shale -----	15	1,878		
Shale -----	30	750	Shale (Eagle Ford) -----	15	1,893		
Clay -----	20	770	Lime -----	46	1,939		
Shale -----	23	793	Clay, Grayson shale, (Del Rio clay) -----	100	2,039		
Clay -----	25	818	Clay and lime -----	8	2,047		
Shale and sand, light, oil show -----	5	823	Limestone (Georgetown) --	63	2,110		
Shale, boulders -----	173	996	Lime, brown -----	20	2,130		
Clay -----	139	1,135	Lime, broken -----	11	2,141		
Shale -----	15	1,150	Lime, brown -----	16	2,157		
Clay -----	59	1,209	Lime, cap rock -----	10	2,167		
Sand, broken, shale -----	13	1,222	Lime -----	29	2,196		
Well I-6-4							
Owner: F. W. Bohmfalk, Driller: Pegg Bros.							
Surface dirt -----	3	3	Shale with soft lime streaks -----	600	641		
Caliche and sandy clay --	23	26	Lime, hard -----	61	702		
Rock -----	6	32	Shale -----	72	774		
Clay -----	6	38					
Rock -----	3	41					
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-4--continued							
Shale with lime streaks and serpentine -----	54	828	Lime (Buda) -----	70	1,253		
Serpentine -----	12	840	Clay, Grayson shale, (Del Rio clay) -----	69	1,322		
Marl, (Taylor) -----	81	921	Lime, (Georgetown) -----	21	1,343		
Chalk (Austin) -----	220	1,141	Lime, (Edwards) -----	187	1,530		
Shale, (Eagle Ford) -----	42	1,183					

Well I-6-9

Owner: Emil G. Ruff. Driller: M. L. Walker

Clay -----	65	65	Lime, hard and shale ----	59	604		
Shale, blue, hard -----	115	180	Lime, hard, sandy -----	71	675		
Shale, sandy -----	90	270	Shale, hard -----	75	750		
Rock, hard -----	2	272	Lime, hard -----	4	754		
Shale, blue -----	23	295	Shale, green, sandy ----	11	765		
Shale, blue, sticky ----	10	305	Shale with pyrite -----	10	775		
Shale, blue -----	43	348	Shale, green, sandy ----	4	779		
Lime and shale, hard ----	8	356	Lime, shale, sandy -----	5	784		
Shale, blue, sticky ----	20	376	Rock, hard -----	1	785		
Shale, blue -----	7	383	Shale, sandy -----	50	835		
Shale, blue, sticky ----	11	394	Shale, lime -----	48	883		
Shale, hard fossils ----	42	436	Lime with pyrite -----	32	915		
Shale, sandy -----	24	460	Lime -----	135	1,050		
Shale -----	12	472	Lime with pyrite -----	26	1,076		
Shale, blue, sandy -----	73	545					

Well I-6-10

Owner: J. M. Saathoff. Driller: R. M. Yantis.

Soil -----	5	5	Shale, hard -----	5	390		
Sand, clay -----	28	33	Shale, sticky -----	110	500		
Gravel -----	6	39	Shale -----	84	584		
Shale, sticky -----	196	235	Limestone -----	52	636		
Shale, sandy; oil odor --	5	240	Shale and lime -----	14	650		
Shale -----	60	300	Shale, sticky -----	8	658		
Shale, sticky -----	85	385	Shale, sandy -----	12	670		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well I-6-10--continued			
Shale -----	20 690	Lime, hard and soft ----	16 766
Limestone -----	46 736	Clay (Upson) -----	2 768
Lime and serpentine, sandy -----	14 750	Chalk (Austin) -----	34 802
Well I-6-12			
Owner: C. Neuman. Driller: Maxwell & Turner.			
Chalk, (Austin) -----	1,103 1,103	Limestone, (Georgetown) -	49 1,330
Shale (Eagle Ford) -----	24 1,127	Limestone, (Edwards) ----	138 1,468
Limestone (Buda) -----	87 1,214		
Clay, Grayson shale (Del Rio clay) -----	67 1,281		
Well I-6-14			
Owner: L. A. Haby. Driller: H. A. Pagenkoff.			
Caliche and gravel -----	8 8	Shale and sandy shale ---	200 800
Rock -----	20 28	Lime, hard -----	5 805
Clay and sand -----	52 80	Serpentine; dead oil in spot -----	169 974
Shale -----	70 150	Chalk and serpentine ----	227 1,201
Shale; oil show -----	10 160	Lime, very hard -----	10 1,211
Shale, limey -----	160 320	Chalk and serpentine mix- ed; chalk soft mushy --	58 1,269
Sand; oil & shale -----	3 323	Shale, brown -----	1 1,270
Shale -----	247 570		
Lime, sandy, good -----	30 600		
Well I-6-27			
Owner: D. W. Wiemers. Drillers: H. M. Roark, et al.			
Soil -----	15 15	Shale, blue -----	189 272
Gravel; water -----	26 41	Shale, brown, sandy; gas odor -----	20 292
Clay, yellow -----	42 83		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-27--continued							
Shale, brown and gray sandy oil lenses-very thin sections, sand, light gray -----	58	350	Serpentine, segment -----	22	498		
Sand; water -----	14	364	Serpentine, dark green alternating hard and soft streaks; oil show	151	649		
Shale, hard, sandy -----	9	373	Serpentine, dark-green hard -----	11	660		
Shale, gray -----	37	410	Serpentine, oil in thin section -----	16	676		
Shale, gray, sandy -----	20	430	Serpentine, green, hard -	14	690		
Shale, blue, sticky -----	35	465					
Shale, gray, hard, sandy	11	476					
Well I-6-30							
Owner: J. E. Ulbrich. Driller: Whitfield & Draper.							
Soil -----	2	2	Shale, light, sandy -----	6	375		
Sand, yellow and clay ---	57	59	Shale, green, hard, sandy fossils -----	12	387		
Gravel and sand -----	11	70	Shale, dark-green, hard sandy, fossiliferous --	23	410		
Sand, packed -----	6	76	Shale, hard, sandy -----	52	462		
Shale, blue -----	156	232	Limestone -----	1	463		
Shale, blue, hard -----	5	237	Limestone and shale, hard	15	478		
Shale, sandy; oil show --	6	243	Limestone and shale (Taylor) -----	20	498		
Shale, dark -----	13	256	Limestone, soft -----	1	499		
Shale, dark and sand, lenses -----	10	266	Limestone, hard -----	8	507		
Shale, dark -----	2	268	Limestone, broken -----	2	509		
Shale and sand lenses with fossils; oil show ----	6	274	Rock -----	2	511		
Shale -----	6	280	Lime, hard -----	33	544		
Shale, sand, lime; oil show -----	7	287	Shale, hard, broken -----	11	555		
Shale -----	7	294	Shale, green -----	50	605		
Shale; dark, sticky, sand lenses; oil show -----	7	301	Rock -----	1	606		
Shale, dark gumbo -----	22	323	Shale, brown -----	7	613		
Shale, dark, sandy -----	13	336	Shale, brown, hard -----	3	616		
Shale, dark-green, sandy	19	355	Serpentine -----	1	617		
Shale, light-green sandy	9	364	Serpentine and calcite --	18	635		
Shale, dark-green, sandy	5	369	Serpentine hard and cal- cite -----	578	1,213		

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-33							
Owner: W. B. Odem. Driller: R. P. Whitfield.							
Soil -----	29	29	Shale, hard -----	1	560		
Gravel -----	60	89	Shale, sandy; gas show --	4	565		
Clay, yellow -----	11	100	Shale, blue, sandy -----	27	592		
Shale, blue -----	32	132	Rock, brown, hard, sandy	6	598		
Shale, blue, boulders ---	208	340	Shale, green, hard -----	6	604		
Shale, sandy, lime, black oil show -----	10	350	Shale, green and boulders	26	630		
Shale and sand -----	5	355	Sandstone, green, hard --	15	645		
Shale, hard, dry -----	1	356	Rock, hard, broken -----	40	685		
Shale, sandy -----	6	362	Shale, dry, sandy -----	22	707		
Shale, hard and rock ----	3	365	Shale, sticky -----	43	750		
Sand -----	2	367	Shale, brown, hard -----	50	800		
Shale -----	1	368	Chalk (Austin), fossils, oil show -----	317	1,117		
Shale, gumbo -----	8	376	Shale, (Eagle Ford) shale, hard -----	70	1,187		
Shale, gumbo and sandy --	5	381	Limestone (Buda) -----	71	1,258		
Rock -----	2	383	Clay, Grayson shale, (Del Rio clay) -----	76	1,334		
Shale, sandy -----	9	392	Limestone (Georgetown) --	36	1,370		
Shale, sandy -----	8	400	Limestone (Edwards) hard broken -----	13	1,383		
Shale, soft sticky -----	75	475	Limestone -----	2	1,385		
Shale, blue, hard -----	15	490	Limestone, hard; sulphur water -----	49	1,434		
Shale, hard, sticky -----	10	500					
Shale, blue, sandy -----	60	560					
Well I-6-35							
Owner: W. B. Odem. Driller: Gates & Hill.							
Surface, gravel -----	5	5	Lime, black -----	3	105		
Lime -----	5	10	Gumbo, black -----	9	114		
Sand -----	8	18	Shale, brown -----	26	140		
Shale, gray -----	5	23	No description -----	7	147		
Clay, yellow -----	9	32	Shale, gray -----	9	156		
Clay, white -----	17	49	Shale, black, sandy -----	24	180		
Clay, brown, sandy -----	26	75	Lime, dark-gray -----	3	183		
Sand; water -----	15	90	Shale, black, sandy -----	7	190		
Shale, black -----	12	102	Clay, gray, sandy -----	3	193		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-35--continued							
Shale, green, sticky ----	12	205	Shale, gray, soft, sandy	8	393		
Clay, yellow sandy -----	30	235	Lime, gray -----	3	396		
Clay and shale -----	13	248	Sand; water -----	14	410		
Shale, black and lignite	10	258	Shale, blue -----	11	421		
Gumbo, white -----	12	270	Shale, blue, sandy ----	7	428		
Shale, green -----	18	288	Shale, blue -----	2	430		
Rock, sandy -----	2	290	Lime, dark-gray -----	2	432		
Shale, sandy -----	4	294	Shale, sandy -----	8	440		
Lime, glauconite -----	8	302	Shale, black -----	15	455		
Shale, sandy -----	47	349	Lime gray -----	2	457		
Marl, sandy -----	20	369	Gumbo -----	8	465		
Lime, white -----	16	385					
Well I-6-36							
Owner: A. L. Haegelin. Driller: Medina Oil Co.							
Surface soil -----	10	10	Sand and gravel -----	3	1,273		
Clay -----	28	38	Limestone (Anacacho) ----	19	1,292		
Rock -----	4	42	Shale, blue -----	5	1,297		
Gravel; water -----	10	52	Unknown formation -----	297	1,594		
Gumbo, boulders -----	184	236	Shale, gray -----	16	1,610		
Gumbo with sand -----	173	409	Shale, (Eagle Ford) ----	35	1,645		
Gumbo with shale -----	251	660	Lime, (Buda) -----	78	1,723		
Gumbo, sandy -----	30	690	Clay, Grayson shale (Del				
Shale, sandy -----	15	705	Rio clay) -----	77	1,800		
Gumbo -----	255	960	Limestone, (Georgetown)				
Shale, blue -----	13	973	with sulphur water ----	37	1,837		
Gumbo -----	66	1,039	Lime, sandy (Georgetown)				
Limestone (Anacacho) ----	53	1,092	with possible water ---	24	1,861		
Salt water; gas show ----	5	1,097	Limestone (Edwards);				
Shale and azurite blue --	6	1,103	flows fresh water -----	12	1,873		
Limestone, (Anacacho) ---	59	1,162	Limestone (Edwards);				
Gumbo -----	38	1,200	water, oil and gas show	33	1,906		
Limestone (Anacacho) ----	18	1,218	Limestone (Edwards) ----	44	1,950		
Lime, sandy -----	12	1,230					
Clay, hard blue sandy							
streaks -----	40	1,270					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-6-44					
Owner: J. M. Fusselman. Driller: Kirby Petroleum Co.					
Clay, sticky -----	35	35	Shale, hard, gumbo -----	20	1,320
Clay and gravel -----	25	60	Chalk -----	10	1,330
Shale and rock, hard streaks -----	40	100	Lime conglomerate with multi-colored rocks in 8 feet core -----	15	1,345
Flint boulders, dark ----	10	110	Chalk, gumbo shale-blue	20	1,365
Sandstone, hard flint, pyrite -----	8	118	Chalk, dark -----	35	1,400
Shale -----	2	120	Chalk, rock -----	120	1,520
Flint hard -----	1	121	Chalk, and shale, streaks	75	1,595
Shale, gravel, sandy streaks -----	39	160	Chalk, hard -----	65	1,660
Sand -----	2	162	Chalk -----	5	1,665
Sandstone, hard -----	39	201	Shale, (Eagle Ford), streaks of limestone	9	1,674
Sand, hard -----	3	204	Shale, (Eagle Ford) -----	16	1,690
Sand, green, boulders ---	26	230	Limestone, (Buda) -----	70	1,760
Sandy rock, green, streaks	50	280	Clay, Grayson shale (Del Rio clay) -----	50	1,810
Shale, sandy, streaks rock, oil show -----	55	335	Limestone, (Georgetown) -	20	1,830
Sand, hard, streaks ----	32	367	Limestone, hard -----	24	1,854
Sandstone; rock, hard ---	5	372	Lime, with gumbo streaks	8	1,862
Gumbo, shale -----	50	422	Limestone, (Dobey) -----	8	1,870
Sandstone -----	16	438	Lime, hard, broken, streaks	14	1,884
Shale, gumbo -----	618	1,056	Chert, very hard -----	1	1,885
Shale, sandy, fossils, gumbo -----	44	1,100	Lime, hard and soft streaks	15	1,900
Shale, hard, gumbo -----	5	1,105	Chert, hard -----	1	1,901
Shale, hard, streaks (Anacacho) -----	45	1,150	Lime, broken, chert, streaks -----	15	1,916
Limestone, (Anacacho), hard -----	30	1,180	Lime, soft and hard, broken streaks -----	24	1,940
Lime and limestone -----	120	1,300	Lime, hard, broken -----	10	1,950
Well I-6-48					
Owner: J. M. Fusselman. Driller: V. F. Neuhaus.					
Clay -----	20	20	Rock, broken -----	45	100
Clay and gravel -----	20	40	Shale, rock -----	35	135
Clay, sandy -----	15	55	Shale, sandy -----	22	157
(Continued on next page)					

Drillers; logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well I-6-48--continued			
Rock -----	1	158	Shale, sandy, tough
Shale -----	4	162	fossiliferous -----
Shale, hard, sandy -----	8	170	65
Gumbo -----	10	180	965
Shale -----	75	255	Shale, hard streaks -----
Sandstone, hard -----	5	260	37
Shale, sandy; oil show --	10	270	1,002
Sandstone, hard -----	11	281	Limestone (Anacacho) -----
Gumbo, shale -----	69	350	18
Shale -----	10	360	1,020
Rock -----	2	362	Lime, shaly gumbo -----
Sand and shale streaks			32
oil show -----	18	380	1,052
Gumbo shale -----	132	512	Limestone (Anacacho) -----
Rock -----	1	513	28
Gumbo, shale -----	100	613	1,080
Rock -----	2	615	Lime, soft, sandy, gas
Shale, gumbo and sand			show -----
streaks; oil -----	88	703	8
Shale, sandy, oil show --	50	753	1,088
Rock, hard stick -----	3	756	Lime, hard-soft, streaks
Shale, sandy, oil show --	2	758	12
Gumbo shale -----	27	785	1,100
Gumbo, hard, tough -----	20	805	Lime, hard-soft streaks -
Sand; oil show -----	4	809	15
Shale, sandy; oil show --	41	850	1,115
Gumbo, hard tough -----	15	865	Lime, hard, shaley, gumbo
Shale, sandy -----	25	890	27
Gumbo, hard tough -----	10	900	1,142
			Shale, gumbo -----
			48
			1,190
			Shale, hard, chalky -----
			20
			1,210
			Conglomerate, fine -----
			10
			1,220
			Chalk, flinty -----
			27
			1,247
			Chalk, rock -----
			143
			1,390
			Chalk, shaley -----
			20
			1,410
			Chalk, rock -----
			100
			1,510
			Shale, (Eagle Ford) hard
			lime streaks -----
			50
			1,560
			Limestone (Buda) -----
			70
			1,630
			Clay, Grayson shale (Del
			Rio clay) sand streaks
			57
			1,687
			Limestone (Georgetown)
			oil show -----
			67
			1,754
			Lime, broken (Dobey) -----
			2
			1,756
			Limestone (Edwards) soft,
			streaks; water -----
			58
			1,814

Well I-6-51

Owner: A. A. Murrell. Driller: L. V. Doss.

Loam, sandy and clay,			Sand, dry -----	5	80
brown -----	20	20	Shale, blue -----	14	94
Marl, yellow -----	10	30	Sand, hard and dry -----	6	100
Caliche and gravel; water	24	54	Shale, blue -----	1	101
Shale, blue -----	11	65			
Shale, blue, sandy -----	10	75			

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-53							
Owner: William Mann. Driller: Elstone Oil Co.							
Caliche -----	30	30	Rock, gray lime -----	128	1,031		
Gravel; water -----	17	47	Shale, gray -----	10	1,041		
Shale -----	3	50	Marl, green -----	9	1,050		
Rock -----	6	56	Shale, gray -----	74	1,124		
Sand; water -----	14	70	Lime -----	271	1,395		
Shale, blue -----	255	325	Shale, (Eagle Ford) -----	45	1,440		
Shale gray -----	140	465	Limestone (Buda) -----	85	1,525		
Sand, gray -----	105	570	Clay, Grayson shale (Del				
Shale, blue, hard -----	195	765	Rio clay) -----	60	1,585		
Shale, gray, sandy -----	111	876	Limestone (Georgetown) --	90	1,675		
Clay, hard -----	27	903	Limestone (Edwards) -----	7	1,682		
Well I-6-59							
Owner: J. O. Redus. Driller: Witherspoon Oil Co.							
Sand and gravel -----	66	66	Shale and boulders -----	42	497		
Rock -----	3	69	Rock -----	1	498		
Sand and boulders -----	35	104	Shale and boulders -----	59	557		
Sand, packed -----	2	106	Sand rock -----	5	562		
Shale and boulders -----	22	128	Shale, boulders -----	23	585		
Rock -----	3	131	Rock -----	1	586		
Sand, hard, boulders ----	24	155	Shale, boulders -----	20	606		
Rock -----	17	172	Gumbo -----	25	631		
Sand; water -----	35	207	Shale, boulders -----	129	760		
Shale -----	3	210	Gumbo -----	20	780		
Rock -----	4	214	Shale, boulders -----	15	795		
Sand and boulders -----	19	233	Gumbo -----	18	813		
Rock -----	5	238	Rock -----	1	814		
Gumbo -----	20	258	Shale, boulders -----	11	825		
Rock -----	9	267	Gumbo -----	85	910		
Shale and boulders -----	45	312	Shale -----	54	964		
Rock -----	1	313	Rock -----	1	965		
Sand, soft -----	42	355	Gumbo -----	19	984		
Gumbo -----	40	395	Shale, boulders -----	60	1,044		
Rock -----	1	396	Gumbo -----	15	1,059		
Shale -----	8	404	Shale, sandy -----	25	1,084		
Gumbo -----	22	426	Rock -----	1	1,085		
Rock -----	7	433	Sand -----	10	1,095		
Shale -----	21	454	Shale, sandy -----	40	1,135		
Rock -----	1	455	Rock -----	3	1,138		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-59--continued							
Shale, rock -----	32	1,170	Gumbo, shale -----	20	1,980		
Rock -----	2	1,172	Limestone, hard -----	8	1,988		
Shale, sandy -----	28	1,200	Lime, broken -----	2	1,990		
Gumbo -----	90	1,290	Limestone, hard -----	39	2,029		
Gumbo, shale -----	12	1,302	Lime, broken -----	40	2,069		
Gumbo -----	60	1,362	Lime -----	46	2,115		
Shale, gumbo with sand streaks -----	8	1,370	Clay, Grayson shale (Del Rio clay) -----	65	2,180		
Gumbo -----	56	1,426	Limestone, (Georgetown) -	55	2,235		
Lime (Anacacho) with shale and sand -----	12	1,438	Lime -----	14	2,249		
Gumbo, chalk -----	22	1,460	Lime, soft -----	1	2,250		
Chalk rock -----	5	1,465	Lime -----	8	2,258		
Chalk, rock, hard -----	17	1,482	Limestone with flint ----	4	2,262		
Chalk rock -----	4	1,486	Sand, soft with limestone streaks; gas show -----	15	2,277		
Chalk rock, hard -----	28	1,514	Sandstone and lime, hard	5	2,282		
Lime rock, hard -----	7	1,521	Lime, hard, porous and sand; oil show -----	2	2,284		
Limestone -----	8	1,529	Shell, hard, porous and sand -----	2	2,286		
Chalk rock, hard -----	3	1,532	Lime hard -----	2	2,288		
Limestone, hard -----	8	1,540	Sand, broken with lime hard, streaks -----	21	2,309		
Chalk, rock hard -----	10	1,550	Limestone (Edwards) hard and dry -----	34	2,343		
Limestone, hard -----	15	1,565					
Chalk, rock -----	2	1,567					
Chalk rock, hard -----	14	1,581					
Shale, hard -----	11	1,592					
Gumbo and shale -----	3	1,595					
Shale, gumbo chalky -----	95	1,690					
Shale rock -----	270	1,960					

Well I-6-66

Owner: F. B. Forrest. Driller: Letro Oil Corp.

Soil -----	5	5	Shale, green, sandy -----	4	192
Shale, yellow -----	14	19	Sandstone -----	3	195
Shale, blue -----	46	65	Shale, sandy -----	147	342
Sand; water -----	3	68	Sand, streak -----	1	343
Shale, sandy -----	117	185	Shale, sandy -----	46	389
Sandstone -----	1	186	Sandstone -----	2	391
Sand; water -----	2	188	Shale, sandy -----	37	428

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Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-6-66--continued					
Sandstone -----	2	430	Shale, sandy -----	44	572
Sand; water -----	2	432	Sandstone -----	1	573
Shale, sandy -----	6	438	Shale, sandy -----	27	600
Sandstone -----	2	440	Sandstone -----	2	602
Shale, sandy -----	30	470	Shale, sandy -----	149	751
Rock -----	1	471	Limestone -----	1	752
Sand; water -----	1	472	Shale, hard, sandy -----	203	955
Shale, sandy -----	26	498	Limestone and shale -----	35	990
Sandstone -----	2	500	Sand; oil show -----	25	1,015
Shale, sandy -----	26	526	Shale -----	5	1,020
Sand; oil and gas show --	2	528			
Well I-6-89					
Owner: Fritz Senne. Driller: A. D. Gaston.					
Soil -----	7	7	Shale; sandy; oil show --	51	851
Sand, hard -----	33	40	Sandstone -----	6	857
Shale -----	35	75	Sand; good oil show -----	2	859
Sandstone -----	30	105	Shale, sandy; oil show --	10	869
Shale -----	40	145	Sand, tight; oil show ---	5	874
Sandstone -----	22	167	Shale, sandy; oil show --	9	883
Shale -----	30	197	Shale, hard -----	18	901
Sandstone -----	118	315	Shale, sandy; oil show --	9	910
Shale, sticky -----	35	350	Sand streaks with shale -	12	922
Sand; oil show -----	17	367	Shale, sandy, oil show --	14	936
Shale, sandy -----	8	375	Sandstone -----	14	950
Shale, sticky -----	225	600	Shale, sticky -----	25	975
Shale and boulders -----	180	780			
Shale with limestone stringers -----	20	800			
Well I-6-92					
Owner: Albert Hoffman. Driller: Ina Oil Co.					
Surface -----	4	4	Sand, hard and tight ----	10	40
Soil -----	11	15	Shale, sandy -----	20	60
Clay -----	15	30	Sandstone -----	1	61

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well I-6-92--continued			
Shale, brown -----	33 94	Gumbo -----	16 600
Sandstone -----	2 96	Shale -----	100 700
Shale, blue -----	44 140	Shale, limey -----	128 828
Rock -----	2 142	Sand, gray -----	27 855
Shale, sandy -----	18 160	Shale, hard, sandy -----	12 867
Sand; gas -----	5 165	Shale, gray, sticky -----	33 900
Shale -----	15 180	Gumbo, tough -----	50 950
Sandstone -----	5 185	Shale, gray sandy -----	55 1,005
Shale and boulders -----	75 260	Shale, hard, sandy -----	57 1,062
Sandstone -----	10 270	Shale, gray, with lime	
Shale, hard -----	30 300	streaks -----	161 1,223
Rock -----	7 307	Limestone, (Anacacho)	
Shale, limey -----	11 318	gray -----	105 1,328
Rock, hard -----	2 320	Chalk, white soft -----	260 1,588
Shale, sandy -----	24 344	Chalk (Austin) -----	50 1,638
Sand; oil show -----	6 350	Shale, (Eagle Ford) -----	55 1,693
Sandstone -----	1 351	Limestone (Buda) -----	77 1,770
Salt water -----	9 360	Clay, Grayson shale (Del	
Shale, hard, sandy -----	22 382	Rio clay) -----	60 1,830
Rock, hard -----	1 383	Limestone, (Georgetown) -	82 1,912
Shale -----	201 584	Limestone, (Edwards) -----	114 2,026

Well I-6-105

Owner: J. McAnelley. Driller: R. E. Fair, Inc.

Soil, clay and silt -----	81 81	Sand -----	18 810
Gravel and sand -----	39 120	Shale with hard layers of	
Sandstone -----	62 182	sandstone -----	85 895
Sandstone with pyrite ---	7 189	Sand -----	2 897
Sandstone, hard -----	42 231	Shale, sandy, hard -----	13 910
Shale with sand layers --	118 349	Sand -----	14 924
Sand, hard -----	26 375	Shale -----	241 1,165
Limestone -----	5 380	Shale, sandy -----	49 1,214
Sand, gas show -----	31 411	Limestone and shale -----	10 1,224
Sand with shale streaks -	16 427	Shale, sandy, hard -----	30 1,254
Sand and shale -----	180 607	Lime, sandy -----	8 1,262
Sand, with shale, hard --	113 720	Sand and lime -----	40 1,302
Shale, sandy -----	72 792		

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Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-105--continued							
Shale, sandy, hard lime streaks -----	89	1,391	Limestone, shaley -----	9	3,010		
Shale, sandy -----	69	1,460	Siltstone, hard, fine-grained -----	15	3,025		
Limestone -----	35	1,495	Limestone, porous -----	10	3,035		
Shale -----	45	1,540	Limestone, hard, sandy --	15	3,050		
Shale and limestone -----	51	1,591	Shale and limestone -----	21	3,071		
Chalk -----	111	1,702	Siltstone, hard -----	10	3,081		
Shale -----	50	1,752	Limestone, shale -----	27	3,108		
Chalk and shale -----	38	1,790	Siltstone, hard, shaley -	15	2,123		
Shale -----	5	1,795	Limestone, hard, sandy --	33	3,156		
Limestone (Buda) -----	99	1,894	Shale and limestone -----	41	3,197		
Clay, Grayson shale, (Del Rio clay) -----	53	1,947	Siltstone, hard and limestone -----	10	3,207		
Limestone (Georgetown) --	61	2,008	Limestone, shaley -----	33	3,240		
Lime and clay (Dobie) ---	3	2,011	Limestone and shale -----	70	3,310		
Limestone, (Edwards) ----	14	2,025	Limestone, white, porous	25	3,335		
Lime and clay -----	3	2,028	Limestone, soft -----	78	3,413		
Limestone, very hard, flint -----	31	2,059	Limestone, gray, hard ---	150	3,563		
Limestone, shaley -----	8	2,067	Limestone, hard and black shale -----	22	3,585		
Limestone, hard, gray to black flint -----	24	2,091	Limestone, shaley -----	18	3,603		
Limestone, brown, shaley	10	2,101	Limestone, alternating with shaley limestone -	278	3,881		
Clay -----	12	2,113	Shale, black, very hard -	10	3,891		
Limestone, gray, hard porous -----	14	2,127	Limestone, gray, hard slightly porous -----	114	4,005		
Limestone, hard, gray ---	32	2,159	Sandstone, dark, fine-grained, hard, slight sulphur odor -----	6	4,011		
Limestone with clay -----	10	2,169	Limestone, sandy hard ---	23	4,034		
Limestone, gray, hard ---	22	2,191	Limestone, shaley -----	62	4,096		
Limestone, hard -----	107	2,298	Shale, black, thin layers of limestone -----	48	4,144		
Limestone, dark, hard porous streaks -----	58	2,356	Limestone, hard, sandy --	42	4,186		
Limestone, gray, hard ---	253	2,609	Shale, sandy -----	15	4,201		
Limestone, sandy, hard, dark -----	182	2,791	Limestone, sandy -----	53	4,254		
Shale, hard, sandy -----	5	2,796	Sandstone, fine-grained -	10	4,264		
Limestone, gray, sandy, hard -----	73	2,869	Limestone, sandy -----	22	4,286		
Limestone, (Glen Rose) alternating layers of limestone and shale ---	127	2,996	Shale, sandy -----	22	4,308		
Shale -----	5	3,001	Anhydrite and sandy limestone -----	32	4,340		
			Limestone, sandy -----	90	4,430		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-6-105--continued					
Limestone, shaley -----	22	4,452	Shale -----	22	5,139
Limestone, sandy and anhydrite -----	96	4,548	Sandstone, red and gravel	2	5,142
Limestone and shale -----	61	4,609	Sandstone and shale -----	12	5,153
Sandstone, white, fine- grained -----	1	4,610	Gravel and sand -----	12	5,165
Shale, brown, sandy -----	80	4,690	Shale, sandy -----	12	5,177
Shale, red, hard, sandy -	30	4,720	Gravel and sand -----	51	5,228
Conglomerate and shale --	3	4,723	Shale, red -----	6	5,234
Shale, red, hard -----	15	4,738	Sandstone, red -----	2	5,236
Sandstone, gray to red fine-grained -----	15	4,753	Shale, sandy -----	31	5,267
Shale, sandy -----	39	4,792	Sandstone, red -----	18	5,285
Sandstone, brown, hard --	46	4,838	Shale, sandy -----	10	5,295
Shale, sandy -----	22	4,860	Gravel and red sand -----	38	5,333
Limestone, sandy -----	23	4,883	Shale, sandy -----	11	5,344
Shale, sandy, red -----	17	4,900	Sand, red, quartz -----	9	5,353
Sandstone, red, thin streaks of shale -----	65	4,965	Shale, sandy -----	9	5,362
Sandstone, red some gravel	76	5,041	Gravel and sandy shale --	8	5,370
Shale, sandy -----	11	5,052	Sandstone, red -----	25	5,395
Sandstone, red -----	63	5,115	Conglomerate, hard and red and black shale (Pennsylvanian)-----	32	5,427
Sandstone and gravel ----	2	5,117	Shale, black, hard lignite with streaks of anhydrite -----	88	5,515
Well I-6-106					
Owner: Hartley Howard. Driller: Pegg Bros.					
Sand and clay -----	18	18	Shale and sand, green ---	110	380
Caliche and gravel -----	12	30	Shale -----	85	465
Shale and lignite -----	125	155	Shale and lime streaks --	81	546
Sandstone -----	3	158	Shale; oil trace -----	2	548
Shale -----	22	180	Shale -----	472	1,020
Sand; water -----	10	190	Shale, hard -----	20	1,040
Lignite -----	10	200	Shale -----	10	1,050
Shale -----	40	240	Sand, oil stained -----	2	1,052
Rock -----	4	244	Sand, hard -----	3	1,055
Sand; water -----	26	270	Sand, white -----	11	1,066

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-107							
Owner: C. Adams. Driller: Carl and Flinders.							
Soil -----	5	5	Shale, green sandy -----	14	190		
Clay, brown -----	25	30	Shale, blue -----	30	220		
Clay, yellow -----	5	35	Shale, hard -----	2	222		
Sand, river -----	10	45	Shale, blue, sandy -----	15	237		
Gravel -----	5	50	Shale, green -----	1	238		
Shale, brown -----	18	68	Shale, gray -----	4	242		
Shale, gray, sandy -----	27	95	Shale, hard -----	5	247		
Rock -----	1	96	Shale, black -----	3	250		
Shale, sandy -----	1	97	Shale, hard -----	5	255		
Sand -----	3	100	Shale, blue sandy -----	15	270		
Rock -----	1	101	Shale with hard streaks -	23	293		
Sand -----	5	106	Sand, green -----	2	295		
Limestone -----	3	109	Shale, gray, sandy -----	5	300		
Sand; water -----	22	131	Sand, gray -----	8	308		
Sandstone -----	32	163	Shale, gray, sandy -----	14	322		
Shale, blue -----	7	170	Shale, sandy; oil show --	13	335		
Rock -----	1	171	Sand; water -----	5	340		
Shale, blue sandy -----	3	174	Shale, gray, sandy -----	25	365		
Shale, rock -----	2	176					
Well I-6-109							
Owner: Carlton Adams, Jr. Driller: L. V. Doss.							
Surface -----	2	2	Sand, gray -----	38	56		
Rock, Schist -----	1	3	Rock, Schist -----	2	58		
Clay, red -----	2	5	Sand, red heaving -----	45	103		
Rock, Schist -----	3	8	Rock, hard, Schist -----	11	114		
Clay, red and gray -----	7	15	Gravel, rock -----	6	120		
Rock, Schist -----	1	16	Sand, gray; water -----	18	138		
Clay, gray -----	2	18					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-110							
Owner: - Schmidt. Driller: E. H. Keater.							
Soil -----	6	6	Shale, sandy; oil odor --	72	1,422		
Clay and sand -----	29	35	Lime, hard with sand				
Gravel -----	6	41	streaks -----	8	1,430		
Shale -----	72	113	Lime, hard with sand				
Clay, shale and sand,			brown streaks -----	77	1,507		
hard -----	157	270	Shale with lime, streaks	109	1,616		
Shale -----	15	285	Lime and sand -----	5	1,621		
Sand and shale -----	4	289	Lime and shale, sandy ---	9	1,630		
Sand -----	11	300	Lime -----	9	1,639		
Shale, sandy -----	24	324	Lime and shale, sandy ---	7	1,646		
Shale, sandy with hard			Chalk -----	9	1,655		
streaks -----	151	475	Lime, streaks -----	14	1,669		
Shale with hard sandy ---	81	556	Lime with lime and shale				
Shale -----	10	566	streaks -----	8	1,677		
Shale, rock, hard -----	4	570	Shale with lime streaks	10	1,687		
Shale, sandy -----	2	572	Lime -----	14	1,701		
Sand -----	5	577	Chalk and shale streaks -	79	1,780		
Shale, sandy -----	1	578	Chalk -----	40	1,820		
Shale, hard streaks,			Shale, hard with lime				
sandy -----	87	665	streaks -----	78	1,898		
Shale, hard streaks	225	890	Lime -----	58	1,956		
Shale, sandy -----	130	1,020	Shale -----	9	1,965		
Shale with hard sand			Lime -----	19	1,984		
streaks -----	330	1,350	Lime, hard -----	32	2,016		
Well I-6-111							
Owner: Carlton Adams, Jr. Driller: L. V. Doss.							
Gravel; water -----	59	59	Sand, gray; water -----	148	256		
Sand; water -----	49	108					
Well I-6-112							
Owner: Mame M. Adams. Driller: Mirando Gas Co.							
Surface soil -----	2	2	Sand, yellow -----	5	15		
Clay with gravel and			Clay, yellow, sandy -----	10	25		
flint -----	5	7	Sand, yellow, hard -----	33	58		
Rock, hard -----	3	10	Clay, yellow, sandy -----	7	65		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-112--continued							
Sand, gray -----	24	89	Sand -----	4	220		
Shale and lignite, brown	1	90	Sand and clay -----	60	280		
Rock, hard -----	1	91	Rock -----	5	285		
Shale and lignite, brown	3	94	Sand and clay -----	65	350		
Rock -----	1	95	Rock -----	10	360		
Shale; lignite, brown ---	10	105	Clay -----	10	370		
Rock -----	1	106	Shale -----	30	400		
Shale and lignite brown -	3	109	Rock -----	6	406		
Rock -----	2	111	Shale, hard -----	44	450		
Lignite, brown -----	3	114	Rock -----	3	453		
Rock -----	1	115	Shale -----	35	488		
Lignite, brown, tough ---	4	119	Rock -----	14	502		
Rock, hard -----	2	121	Shale and boulders -----	228	730		
Shale and lignite, tough	9	130	Shale, hard -----	50	780		
Rock -----	5	135	Gumbo -----	20	800		
Lignite, tough -----	7	142	Shale and boulders -----	50	850		
Rock -----	2	144	Shale, sticky -----	57	907		
Shale; lignite, tough ---	6	150	Shale, hard sticky -----	21	928		
Rock -----	2	152	Shale, sticky -----	10	938		
Sand and clay -----	60	212	Shale -----	62	1,000		
Rock -----	4	216	Sand; gas -----	14	1,014		
Well I-6-116							
Owner: Mame M. Adams. Driller: Southern Gas Utility, Inc.							
Clay and gravel -----	17	17	Shale -----	37	430		
Sandstone -----	3	20	Rock -----	3	433		
Clay and gravel -----	10	30	Rock and sand, hard -----	17	450		
Rock -----	4	34	Shale, hard -----	50	500		
Clay and gravel -----	6	40	Rock -----	3	503		
Sand, white -----	110	150	Gumbo -----	12	515		
Rock -----	3	153	Shale, sandy; gas show --	55	570		
Shale -----	22	175	Shale, hard -----	30	600		
Gumbo -----	5	180	Gumbo -----	18	618		
Shale -----	10	190	Rock -----	5	623		
Rock -----	6	196	Shale, hard -----	57	680		
Shale -----	84	280	Shale; gas show -----	10	690		
Rock -----	4	284	Shale -----	20	710		
Sandstone and sandy, packed -----	8	292	Gumbo -----	10	720		
Shale, hard -----	36	328	Shale -----	140	860		
Shale -----	12	340	Gumbo -----	10	870		
Rock -----	4	344	Shale, hard -----	35	905		
Shale -----	36	380	Shale -----	31	936		
Rock -----	13	393	Sand; gas show -----	8	944		

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well I-6-117			
Owner: Mame M. Adams. Driller: Southern Gas Utility, Inc.			
Clay -----	15	15	Shale and sandstone -----
Gravel -----	2	17	Shale, soft -----
Sand -----	72	89	Limestone -----
Shells -----	12	101	Shale, sticky -----
Sand, black -----	58	159	Limestone -----
Sandstone with pyrite ---	3	162	Shale -----
Shells -----	2	164	Limestone -----
Sandstone -----	1	165	Shale -----
Sand, blue -----	45	210	Limestone -----
Shale, blue -----	20	230	Shale, sandy -----
Sand -----	54	284	Shale, hard -----
Sandstone -----	1	285	Shale, blue -----
Shale, blue -----	3	288	Limestone, hard -----
Sandstone, hard -----	6	294	Shale -----
Shale -----	16	310	Shale, hard -----
Limestone and gypsum, hard	3	313	Shale, sandy -----
Shale -----	17	330	Shale, hard -----
Shale, hard -----	2	332	Sand, hard -----
Rock -----	1	333	Shale, hard -----
Limestone -----	14	347	Sandstone -----
Shale -----	13	360	Shale, hard -----
Shale and lime -----	12	372	Lime -----
Shale, hard -----	6	378	Shale, gummy -----
Limestone -----	1	379	Shale, hard -----
Shale, sandy -----	11	390	Lime -----
Limestone -----	1	391	Shale -----
Shale; gas show -----	4	395	Lime -----
Limestone -----	2	397	Shale, hard -----
Shale, hard -----	13	410	Shale -----
Limestone -----	2	412	Sand; gas -----
Shale -----	8	420	

Well I-6-118			
Owner: Mame M. Adams. Driller: Southern Gas Utility, Inc.			
Soil -----	6	6	Sand, yellow -----
Sand -----	8	14	Sandstone -----
Gravel -----	5	19	Sand, yellow -----
Clay, yellow -----	11	30	Sandstone -----

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-6-118--continued							
Sand, blue; water -----	30	134	Shale and boulders -----	36	406		
Sandstone -----	1	135	Rock -----	2	408		
Shale, dark-green-----	5	140	Shale -----	10	418		
Sand; water -----	43	183	Shale and boulders -----	54	472		
Sandstone -----	3	186	Shale, sticky -----	33	505		
Sandstone, hard -----	14	200	Shale, sandy -----	19	524		
Sandstone -----	3	203	Sandstone -----	2	526		
Sand, pack -----	10	213	Shale, sticky -----	32	558		
Shale, sandy -----	40	253	Shale, hard -----	22	580		
Sandstone -----	3	256	Shale, sandy -----	15	595		
Shale -----	5	261	Shale, hard -----	23	618		
Sandstone -----	3	264	Shale, gummy -----	30	648		
Shale, loose -----	8	272	Shale and boulders -----	41	689		
Shale, hard -----	26	298	Shale, hard -----	14	703		
Sandstone -----	1	299	Shale and boulders -----	20	723		
Shale and boulders -----	15	314	Sandstone -----	2	725		
Sandstone -----	2	316	Shale -----	18	743		
Shale and boulders -----	16	332	Rock -----	2	745		
Rock -----	2	334	Shale and boulders -----	15	760		
Shale and boulders -----	10	344	Sand; gas -----	3	763		
Sand, hard; gas show ----	5	349	Shale, gummy -----	65	828		
Shale -----	13	362	Gas show good -----	2	830		
Rock -----	2	364	Shale, streaks -----	76	906		
Shale and boulders -----	5	369	Cap rock -----	1	907		
Rock -----	1	370	Sand; gas -----	3	910		
Well I-6-123							
Owner: Gilbert Falbo. Driller: L. V. Doss							
Clay, brown, sandy -----	6	6	Sand, gray; water -----	20	155		
Clay, yellow, gray, sandy with sandstone breaks -	12	18	Sandstone, gray -----	3	158		
Clay, less sandy with multicolored breaks ---	42	60	Sand, gray; water -----	49	207		
Gumbo, black with pyrite	10	70	Sandstone -----	2	209		
Clay, brown, sandy with sandstone breaks -----	25	95	Sand, gray; water -----	32	241		
Shale, gray, sandy with lignite -----	40	135	Shale, black, with lignite and limestone -	8	249		
			Sandstone -----	2	251		

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-8-3							
Owner: L. O. Carle. Driller: Plateau Oil Co.							
Sand and surface clay ---	25	25	Gumbo and shale -----	22	1,033		
Gravel -----	45	70	Gumbo -----	44	1,077		
Lignite -----	15	85	Limestone, (Anacacho) ---	229	1,306		
Shale and gumbo -----	50	135	Clay (Upson) -----	57	1,363		
Shale, blue -----	9	144	Rock -----	4	1,367		
Shale with flint -----	21	165	Gumbo and rock -----	8	1,375		
Shale and sand, tight ---	13	178	Gypsum -----	14	1,389		
Rock -----	5	183	Gypsum and gumbo -----	15	1,404		
Shale -----	6	189	Chalk and shale -----	40	1,444		
Gumbo -----	31	220	Soapstone -----	4	1,448		
Gumbo and shale -----	8	228	Chalk -----	15	1,463		
Rock, brown -----	7	235	Chalk, hard -----	44	1,507		
Gumbo -----	9	244	Chalk, hard and shale ---	51	1,558		
Sand; water -----	34	278	Chalk, hard -----	62	1,620		
Sand and gumbo -----	11	289	Shale, (Eagle Ford), hard	67	1,687		
Shale and gumbo -----	14	303	Limestone, (Buda) -----	30	1,717		
Shale and gum -----	19	322	Lime and shale -----	41	1,758		
Gumbo and shale -----	21	343	Shale -----	7	1,765		
Gumbo, shale and boulders	42	385	Lime and shale, streaks -	4	1,769		
Sandstone -----	5	390	Shale -----	13	1,782		
Gumbo, shale and boulders	30	420	Lime; oil trace -----	8	1,790		
Gumbo and boulders -----	22	442	Shale -----	9	1,799		
Gumbo, shale and boulders	151	593	Lime and shale -----	40	1,839		
Gumbo, shale; oil show --	110	703	Limestone, (Buda) -----	26	1,865		
Gumbo and shale -----	22	725	Lime -----	48	1,913		
Gumbo -----	66	791	Lime and shale -----	40	1,953		
Gumbo, shale and boulders	44	835	Clay -----	48	2,001		
Gumbo -----	66	901	Limestone (Georgetown) --	5	2,006		
Gumbo and shale -----	65	966	Lime (Georgetown) -----	44	2,050		
Gumbo -----	45	1,011	Limestone (Edwards) -----	114	2,164		

Well I-8-27							
Owner: E. E. Wilson. Driller: Robertson Drilling Co.							
Sand, (Wilcox), shale and boulders -----	500	500	Sand, shale; gas show ---	230	1,605		
Shale, boulders -----	325	825	Marl, (Taylor); gas show	545	2,150		
Sand, shale and lime sandy -----	550	1,375	Shale -----	82	2,232		
			Chalk, (Austin); oil and gas show, shale, blue -	522	2,754		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-8-27--continued							
Shale, (Eagle Ford) -----	48	2,802	Limestone, (Georgetown) -	80	3,082		
Shale, black -----	38	2,840	Doby, white soft -----	13	3,095		
Limestone, (Buda) -----	94	2,934	Limestone (Edwards); sul-				
Clay, Grayson shale, (Del			phur water -----	5	3,100		
Rio clay) -----	68	3,002	Limestone (Edwards) -----	26	3,126		
Well I-8-30							
Owner: Sallie B. Little. Driller: United North & South Development Co.							
Sand and gravel -----	255	255	Limey, shale -----	480	1,780		
Sand, rock -----	5	260	Shale, sandy; oil show --	4	1,784		
Sand -----	47	307	Shale, sandy -----	86	1,870		
Shale -----	9	316	Shale, gummy -----	20	1,890		
Sand -----	35	351	Shale -----	130	2,020		
Rock -----	7	358	Marl, (Taylor) -----	80	2,100		
Shale -----	49	407	Limestone, (Anacacho) ---	114	2,214		
Shale, sandy and boulders	150	557	Shale, limey -----	97	2,311		
Rock -----	19	576	Limestone, (Anacacho) ---	6	2,317		
Shale, boulders -----	91	667	Shale, lime -----	52	2,369		
Rock -----	9	676	Chalk, (Austin) -----	7	2,376		
Shale, boulders -----	27	703	Chalk -----	129	2,505		
Rock -----	4	707	Chalk with shale streaks	26	2,531		
Shale, boulders -----	124	831	Chalk (Eagle Ford) shale	100	2,631		
Shale -----	8	839	Shale, (Eagle Ford) ----	6	2,637		
Rock -----	2	841	Shale, calcareous -----	28	2,665		
Shale, boulders -----	24	865	Lime and shale (Eagle				
Rock -----	8	873	Ford) -----	78	2,743		
Shale, boulders -----	62	935	Shale, (Eagle Ford) ----	40	2,783		
Rock -----	4	939	Lime with shale lenses -	40	2,823		
Shale, boulders -----	30	969	Lime, (Buda) -----	55	2,878		
Rock -----	6	975	Clay, Grayson shale (Del				
Shale, calcareous,			Rio clay) -----	74	2,952		
boulders -----	82	1,057	Lime (Georgetown) -----	79	3,031		
Shale, boulders -----	8	1,065	Limestone (Edwards) ----	39	3,070		
Rock -----	5	1,070	Cap rock -----	1	3,071		
Shale, boulders -----	26	1,096	Limestone, (Edwards) ---	813	3,884		
Rock -----	6	1,102	Limestone -----	20	3,904		
Shale, boulders -----	198	1,300	Limestone, (Edwards) ---	26	3,930		
			Limestone (Glen Rose) --	307	4,237		

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well I-8-33			
Owner: G. A. Blackaller. Driller: Med-Frio Oil Co.			
Sand (Wilcox) -----	2	2	
Clay and rock -----	3	5	
Adobe, gray -----	7	12	
Adobe, yellow -----	18	30	
Adobe, red -----	8	38	
Mud, blue -----	30	68	
Rock, blue, hard -----	2	70	
Rock, blue, sandy -----	11	81	
Rock, blue, hard; water -	3	84	
Lignite -----	36	120	
Sandstone, gray -----	80	200	
Sand and rock, hard -----	20	220	
Sandstone -----	25	245	
Sandstone, gray; water --	25	270	
Sandstone, blue -----	15	285	
Gumbo -----	83	368	
Rock, gray -----	4	372	
Gumbo -----	23	395	
Asphalt -----	17	412	
Rock, blue -----	16	428	
Gumbo -----	17	445	
Rock, blue -----	2	447	
Gumbo -----	4	451	
Rock, blue -----	5	456	
Gumbo -----	4	460	
Rock, flint -----	3	463	
Gumbo -----	17	480	
Rock, bluish-gray -----	25	505	
Sand and rock, blue -----	2	507	
Clay, blue -----	48	555	
Rock, blue with flint ---	15	570	
Mud, blue -----	18	588	
Rock, blue -----	2	590	
Mud, blue -----	39	629	
Limestone and calcite, brown -----	49	678	
Mud, blue -----	8	686	
Limestone and calcite, brown -----	10	696	
Mud, blue -----	10	706	
Limestone and calcite, brown -----	7	713	
Mud, blue -----	4	717	
Limestone and calcite, brown -----	11	728	
Mud, blue and limestone -	21	749	
Limestone and calcite, brown -----	5	754	
Gumbo, very hard -----	3	757	
Gumbo -----	12	769	
Gumbo, hard -----	3	772	
Limestone, hard -----	3	775	
Gumbo -----	19	794	
Rock, blue -----	1	795	
Gumbo -----	19	814	
Rock, blue -----	2	816	
Gumbo -----	2	818	
Rock, blue, hard -----	2	820	
Sand; sulphur water and salt -----	2	822	
Rock, blue -----	1	823	
Sand, gray -----	3	826	
Rock, hard, blue -----	3	829	
Sand, gray -----	4	833	
Gumbo -----	4	837	
Rock -----	3	840	
Gumbo -----	30	870	
Limestone, hard -----	2	872	
Limestone, soft -----	5	877	
Gumbo -----	3	880	
Rock -----	4	884	
Gumbo -----	16	900	
Shale, white -----	12	912	
Gumbo -----	19	931	
Limestone -----	3	934	
Gumbo -----	17	951	
Limestone -----	2	953	
Gumbo -----	21	974	
Limestone -----	2	976	
Gumbo -----	16	992	

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Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-8-33--continued							
Limestone -----	4	996	Rock -----	3	1,281		
Gumbo -----	6	1,002	Shale, brown; oil show --	64	1,345		
Limestone, hard -----	2	1,004	Sandstone, gray -----	5	1,350		
Shale, gray -----	8	1,012	Shale, black, sandy clay	54	1,404		
Limestone -----	3	1,015	Soapstone, white -----	3	1,407		
Shale, gray -----	5	1,020	Shale, dark, sandy; oil				
Limestone -----	13	1,033	show -----	29	1,436		
Shale, gray -----	28	1,061	Shale, light sandy -----	46	1,482		
Rock -----	3	1,064	Sandstone, gray -----	12	1,494		
Shale, gray -----	28	1,092	Shale, dark gray, sandy				
Rock -----	3	1,095	slight oil show -----	48	1,542		
Shale -----	24	1,119	Sandstone, gray -----	4	1,546		
Rock -----	9	1,128	Shale, gray with gumbo				
Shale, gray -----	25	1,153	and clay; oil show ----	55	1,601		
Rock -----	1	1,154	Sandstone, dark gray ----	8	1,609		
Shale, gray -----	11	1,165	Soapstone -----	6	1,615		
Rock -----	3	1,168	Shale, dark-gray; oil				
Shale, gray -----	46	1,214	show -----	7	1,622		
Rock -----	1	1,215	Shale, light gray -----	16	1,638		
Shale -----	28	1,243	Sandstone, dark gray ----	4	1,642		
Rock -----	1	1,244	Shale, light gray -----	27	1,669		
Shale, gray -----	26	1,270	Sandstone, dark gray ----	7	1,676		
Rock -----	1	1,271	Shale, light gray -----	44	1,720		
Shale, gray; slight oil			Total depth -----		3,500		
show -----	7	1,278					
Well I-9-3							
Owner: John P. Nixon. Driller: James F. Greenlee.							
Soil clay -----	6	6	Sand and clay -----	90	226		
Clay, sand, gravel -----	44	50	Rock -----	4	230		
Sand -----	8	58	Sand -----	4	234		
Clay -----	12	70	Rock -----	3	237		
Sand, hard, green -----	10	80	Sand -----	2	239		
Rock -----	4	84	Rock -----	6	245		
Sand and lignite -----	4	88	Shale -----	12	257		
Rock -----	3	91	Sand, dark boulders ----	38	295		
Sand and clay -----	39	130	Rock -----	5	300		
Sand, soft -----	6	136	Shale, boulders -----	54	354		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-9-3--continued							
Rock -----	1	355	Shale, rock -----	2	974		
Shale, boulders -----	15	370	Sand -----	7	981		
Rock -----	1	371	Shale, sticky -----	11	992		
Shale, sandy -----	7	378	Shale, rock -----	2	994		
Rock -----	1	379	Sand and shale -----	9	1,003		
Sand, shale streaks, boulders; gas show ----	33	412	Shale and boulders -----	94	1,097		
Rock -----	1	413	Shale, sand stringers ---	3	1,100		
Shale, sandy -----	8	421	Shale, sticky; oil show -	6	1,106		
Rock -----	4	425	Shale rock -----	1	1,107		
Shale, boulders, sandy --	60	485	Shale and sand -----	8	1,115		
Rock -----	3	488	Shale, sticky -----	8	1,123		
Sand -----	14	502	Shale, sticky, sandy ----	3	1,126		
Rock -----	1	503	Shale, hard, sticky oil show -----	81	1,207		
Shale and boulders; sandy -----	47	550	Shale and sand; oil ----	7	1,214		
Shale and boulders -----	264	814	Sand, streaks and shale; oil -----	18	1,232		
Rock -----	1	815	Shale -----	47	1,279		
Shale, sticky -----	110	925	Lime, sandy -----	16	1,295		
Rock -----	1	926	Lime, sandy and shale stringers -----	45	1,340		
Shale, sandy -----	16	942					
Shale, sticky -----	30	972					

Well I-9-6							
Owner: E. Bohmfalk. Driller: Fritz Fuchs.							
Surface sand -----	5	5	Shale -----	149	653		
Clay -----	15	20	Rock -----	56	709		
Shale and gumbo -----	120	140	Gumbo and shale -----	72	781		
Sand; water -----	10	150	Rock -----	2	783		
Shale -----	50	200	Gumbo and shale -----	142	925		
Rock -----	5	205	Rock -----	2	927		
Shale, sandy -----	35	240	Gumbo -----	19	946		
Gumbo -----	22	262	Shale -----	170	1,116		
Rock -----	9	271	Slate; salt water -----	25	1,141		
Gumbo and shale -----	152	423	Sand; salt water -----	9	1,150		
Rock -----	7	430	Shale, hard -----	9	1,159		
Shale, sandy -----	72	502	Sand; salt water -----	17	1,176		
Rock -----	2	504	Rock -----	2	1,178		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-9-6--continued							
Shale, sandy -----	6	1,184	Rock -----	2	1,292		
Gumbo and shale -----	29	1,213	Shale -----	33	1,325		
Rock -----	1	1,214	Gumbo -----	20	1,345		
Shale -----	5	1,219	Rock, white -----	59	1,404		
Gumbo, shale and boulders	71	1,290	Shale, sandy -----	152	1,556		
Well I-9-13							
Owner: E. B. Chandler. Driller: C. P. Cortter,							
Soil -----	3	3	Limestone and shale -----	45	500		
Clay, red -----	7	10	Limestone -----	5	505		
Clay, white -----	28	38	Shale -----	14	519		
Gravels -----	11	49	Lime, soft and shale hard	23	542		
Boulders -----	1	50	Limestone and shale -----	45	587		
Shale -----	25	75	Rock, hard -----	1	588		
Rock, hard -----	5	80	Shale and limestone, black	21.11	609.11		
Shale, sandy -----	35	115	Shale and limestone, gray	23.89	633		
Rock, hard -----	5	120	Shale, gray, sticky -----	10	643		
Shale, boulders -----	14	134	Shale, black, hard brittle -----	26	669		
Rock -----	1	135	Shale, hard, streaks lime, gray -----	8	677		
Sand and coal -----	22	157	Rock -----	.6	677.6		
Shale, sandy and coal ---	51	208	Shale, gray -----	22.4	700		
Shale, sandy and lime ---	35	243	Shale -----	35	735		
Shale boulders -----	2	245	Rock, white -----	.6	735.6		
Shale, black, boulders --	83	328	Shale, gray -----	12.4	748		
Shale, blue sandy and lime stringers -----	8	336	Rock -----	1.5	749.5		
Sandstone, blue -----	7	343	Shale and limestone streaks -----	26.5	776		
Sand -----	5	348	Shale, gray and limestone	22	798		
Rock -----	1	349	Rock -----	1	799		
Shale, boulders -----	33	382	Shale -----	7	806		
Rock, hard -----	2.6	384.6	Rock -----	1	807		
Lime, gray and shale ----	16.4	401	Shale and limestone, gray -----	22	829		
Rock, hard -----	1	402	Shale and limestone ----	3	832		
Shale, gray, boulders ---	29	431	Shale, sticky -----	8	840		
Rock -----	2	433	Shale, sandy -----	2	842		
Shale and limestone -----	5	438					
Shale -----	14	452					
Limestone -----	3	455					

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Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-9-13--continued					
Shale and limestone -----	13.3	855.3	Shale, sandy; oil trace -	32	1,016
Rock -----	.6	855.9	Shale, sandy, dry -----	20	1,036
Shale -----	11.1	867	Shale, sandy -----	9	1,045
Rock -----	3	870	Sand -----	9	1,054
Shale -----	2	872	Limestone and sand, crystallized -----	4	1,058
Shale, sticky -----	23	895	Rock -----	1	1,059
Shale and limestone -----	78	973	Sand, fresh water -----	51	1,110
Sand and shale; oil stain	11	984			
Well I-9-14					
Owner: E. B. Chandler. Driller: B. C. Calvin.					
Clay -----	10	10	Rock, hard -----	2	527
Shale -----	10	20	Rock and lime -----	13	540
Gravel -----	30	50	Shale, black, hard brittle -----	53	593
Shale -----	20	70	Rock -----	1	594
Shale, black -----	50	120	Shale, sandy -----	5	599
Sand; fresh water -----	40	160	Shale, gray soft -----	31	630
Shale, black -----	80	240	Shale, sticky -----	3	633
Shale, sticky -----	4	244	Shale -----	116	749
Rock, red -----	5	249	Rock -----	1	750
Gumbo, black -----	1	250	Shale, soft and sticky --	50	800
Shale, blue soft -----	22	272	Lime and shale, black ---	10	810
Sand and shale, blue ----	16	288	Lime and shale, hard ----	25	835
Rock -----	1	289	Rock -----	1	836
Sand and shale, blue ----	11	300	Shale, sandy -----	13	849
Shale, blue -----	33	333	Shale, sandy, calcareous	21	870
Rock -----	3	336	Rock -----	6	876
Sand and shale, blue ----	24	360	Shale, sticky -----	14	890
Shale -----	5	365	Shale, sandy; oil show --	53	943
Shale, gray -----	30	395	Shale, sandy -----	9	952
Rock -----	4	399	Sand -----	1	953
Shale, brown -----	9	408	Shale -----	4	957
Rock, shale hard sandy --	1	409	Rock -----	1	958
Shale, gray -----	17	426	Shale, sandy -----	2	960
Rock, chalk -----	4	430	Shale, soft -----	58	1,018
Shale, gray -----	20	450	Shale and limestone ----	36.5	1,054.5
Chalk, rock, white -----	12	462	Rock and lime, hard ----	1	1,055.5
Shale, gray -----	6	468	Sand, oil odor -----	5.5	1,061
Rock, very hard -----	2	470			
Lime, soft to hard -----	55	525			

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-9-26							
Owner: Amelia Zadich. Driller: J. E. Thomas & B. Rife.							
Sand and clay -----	37	37	Shale and shells -----	101	1,822		
Sand -----	226	263	Shale -----	73	1,895		
Shale -----	17	280	Lime -----	2	1,897		
Sand -----	26	306	Shale and shells -----	15	1,912		
Rock -----	1	307	Shale -----	15	1,927		
Shale -----	58	365	Sandstone -----	1	1,928		
Sand -----	47	412	Sand; oil show -----	38	1,966		
Shale -----	39	451	Sand and shale -----	9	1,975		
Rock -----	2	453	Sand -----	30	2,005		
Shale -----	410	863	Sandstone -----	3	2,008		
Rock -----	2	865	Sand -----	30	2,038		
Shale -----	20	885	Sandstone -----	2	2,040		
Rock -----	6	891	Sand -----	23	2,063		
Shale -----	17	908	Shale -----	37	2,100		
Rock -----	3	911	Shale, sandy -----	16	2,116		
Shale -----	3	914	Shale -----	59	2,175		
Rock -----	2	916	Shale, sandy -----	84	2,259		
Shale -----	26	942	Sand and shale -----	8	2,267		
Rock -----	3	945	Shale -----	14	2,281		
Shale and lime -----	105	1,050	Shale, sandy -----	87	2,368		
Lime -----	16	1,066	Lime, sticky -----	11	2,379		
Shale -----	75	1,141	Lime, sandy -----	6	2,385		
Shale and lime -----	87	1,228	Lime -----	25	2,410		
Lime -----	8	1,236	Lime, sticky -----	13	2,423		
Shale and lime -----	4	1,240	Lime, hard, sandy -----	57	2,480		
Lime -----	8	1,248	Lime -----	32	2,512		
Shale -----	12	1,260	Shale, sandy -----	12	2,524		
Lime -----	4	1,264	Shale and lime -----	22	2,546		
Shale and lime -----	34	1,298	Chalk; gas odor strong --	121	2,667		
Lime -----	6	1,304	Chalk, very hard -----	103	2,770		
Shale and lime -----	10	1,314	Chalk, hard -----	13	2,783		
Shale -----	14	1,328	Chalk, gas odor -----	25	2,808		
Lime -----	6	1,334	Chalk -----	52	2,860		
Shale -----	51	1,385	Sand and shale,				
Shale, fossiliferous ----	10	1,395	glauconitic gas odor --	3.5	2,863.5		
Lime and shale -----	17	1,412	Chalk -----	65.5	2,929		
Shale -----	104	1,516	Shale -----	66	2,995		
Lime -----	3	1,519	Lime, white hard -----	88	3,083		
Shale and lime -----	7	1,526	Shale -----	69	3,152		
Shale -----	126	1,652	Limestone (Georgetown) --	79	3,231		
Lime and shale -----	23	1,675	Limestone (Edwards) -----	101	3,332		
Shale -----	46	1,721					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-9-27							
Owner: Mrs. T. A. Wilson. Driller: Clopton & Mitchell.							
Soil -----	3	3	Sand rock -----	2	731		
Sand -----	32	35	Sandstone, soft -----	30	761		
Gravel -----	10	45	Shale -----	1	762		
Sand -----	84	129	Sand and boulders -----	11	773		
Shale, blue -----	15	144	Shale -----	17	790		
Sand, hard -----	36	180	Lime -----	3	793		
Shale, sandy -----	40	220	Sand -----	6	799		
Shale, blue -----	6	226	Shale -----	4	803		
Sand -----	51	277	Sand, green -----	38	841		
Lime -----	2	279	Shale -----	40	881		
Shale, blue -----	4	283	Shale, sandy -----	54	935		
Sand, hard -----	38	321	Sand -----	5	940		
Boulders -----	2	323	Shale, sandy -----	13	953		
Sand -----	47	370	Sand -----	10	963		
Sand and shale -----	20	390	Shale -----	10	973		
Sand, hard -----	6	396	Shale, hard -----	7	980		
Rock -----	5	401	Lime -----	2	982		
Shale, hard, sandy -----	15	416	Shale -----	98	1,080		
Sand, rock -----	15	431	Lime -----	1	1,081		
Shale -----	8	439	Shale and limestone -----	33	1,114		
Boulders -----	2	441	Limestone -----	2	1,116		
Shale, boulders, sandy --	67	508	Shale -----	23	1,139		
Lignite -----	6	514	Shale, sticky -----	21	1,160		
Sand -----	38	552	Shale -----	21	1,181		
Rock -----	1	553	Shale, sticky -----	23	1,204		
Sand, hard -----	26	579	Shale -----	40	1,244		
Sandstone -----	2	581	Lime -----	8	1,252		
Sand -----	38	619	Shale and boulders -----	13	1,265		
Sandstone, hard -----	31	650	Sand -----	3	1,268		
Sand rock -----	3	653	Shale and lime, gray				
Sand -----	6	659	streaks hard -----	232	1,500		
Shale -----	10	669	Shale, gray, sticky -----	32	1,532		
Sand rock -----	1	670	Rock -----	.5	1,532.5		
Sand -----	5	675	Shale, sandy -----	5	1,537.5		
Sand rock -----	1	676	Shale, boulders -----	29.5	1,567		
Sand -----	24	700	Lime -----	1	1,568		
Sand rock -----	2	702	Shale, sandy -----	20	1,588		
Sandstone -----	21	723	Shale with lime streak --	17	1,605		
Sand rock -----	1	724	Shale -----	15	1,620		
Sand -----	5	729	Lime, hard, sandy -----	7	1,627		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-9-27--continued							
Shale -----	96	1,723	Sand -----	37	1,839		
Shale, sandy -----	1	1,724	Shale, sandy -----	4	1,843		
Sand -----	3	1,727	Sand -----	7	1,850		
Sand, hard -----	5	1,732	Sandstone -----	3	1,853		
Sand -----	4	1,736	Sand -----	21	1,874		
Sand -----	30	1,766	Shale -----	11	1,885		
Shale, sandy -----	9	1,775	Sand -----	4	1,889		
Shale, sticky -----	25	1,800	Shale -----	116	2,005		
Shale, sandy; gas -----	2	1,802					
Well I-9-50							
Owner: B. D. Bomba. Driller: A. F. Mann.							
Clay -----	31	31	Sandstone -----	6	68		
Sandstone -----	8	39	Sand; water -----	28	96		
Shale -----	23	62	Shale, gray -----	3	99		
Well J-1-41							
Owner: F. C. Stinson. Driller: J. Rogers.							
Soil -----	3	3	Lime, gray -----	48	458		
Gravel -----	26	29	Shale, blue -----	2	460		
Shale, blue -----	36	65	Lime -----	25	485		
Shale, gray -----	50	115	Lime, gray with mud -----	10	495		
Lime, bluish-gray -----	20	135	Mud, dark gray -----	20	515		
Lime, brown -----	13	148	Lime, white -----	25	540		
Lime, brownish-gray with shale -----	17	165	Lime, white and gray -----	28	568		
Shale, gray; little water	39	204	Lime, gray, white and light blue with flint very hard -----	4	572		
Shale, blue -----	3	207	Shale, blue -----	12	584		
Shale, gray and limestone	13	220	Shale, blue with lime- stone and pyrite -----	11	595		
Shale, blue -----	58	278	Shale, fossiliferous -----	20	615		
Lime, white; flint gray; dolomite and tuff -----	32	310	Lime, hard, white water -	26	641		
Lime, gray with pyrite --	10	320					
Lime, white and gray -----	70	390					
Lime, gray, with pyrite -	20	410					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-1-44							
Owner: Fritz Fuos. Driller: Pegg Bros.							
Soil -----	4	4	Limestone (Buda) -----	57	1,035		
Gravel -----	12	16	Clay, Grayson shale (Del				
Clay -----	25	41	Rio clay) -----	63	1,098		
Shale -----	474	515	Limestone (Georgetown) --	22	1,120		
Limestone (Anacacho) ---	85	600	Limestone (Edwards) -----	12	1,132		
Marl (Taylor) -----	89	689	Limestone; water -----	3	1,135		
Chalk, (Austin) -----	246	935	Limestone -----	81	1,216		
Shale, (Eagle Ford) ----	43	978					
Well J-1-45							
Owner: Anton Burger. Driller: W. Peters.							
Escondido, Navarro, Taylor and Anacacho, formations and Austin chalk:				Escondido, Navarro, Taylor and Anacacho formations and Austin chalk-- continued			
Black earth -----	3	3	Dark shale -----	6	828		
Gravel -----	41	44	Austin chalk -----	267	1,095		
Yellow clay -----	190	234	Eagle Ford shale:				
Blue shale -----	2	236	Lignite shale -----	41	1,136		
Blue lime -----	9	245	Buda limestone: Hard				
Blue shale -----	19	264	creamy white limestone	62	1,198		
Blue shale and thin			Grayson shale (Del Rio				
sand lenses -----	1	265	clay): Blue mud -----	60	1,285		
Blue lime -----	5	270	Georgetown limestone,				
Blue shale and thin			Gray limestone -----	32	1,290		
sand lenses -----	2	272	Hard yellowish-white				
Blue shale -----	118	390	limestone -----	10	1,300		
Blue lime -----	3	393	Edwards limestone: Porous				
Blue shale -----	59	452	sandy limestone; sulphur				
Blue lime -----	202	654	water -----	15	1,315		
White limestone:							
some marly lime-							
stone -----	168	822					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-1-53							
Owner: J. Jagge. Driller: J. Jagge.							
Soil and gravel -----	7	7	Limestone, (Buda) -----	61	462		
Limestone (Anacacho) ---	38	45	Clay, Grayson shale (Del				
Lime, soft -----	182	227	Rio clay) -----	67	529		
Chalk, (Austin) -----	138	365	Limestone, (Georgetown				
Shale, (Eagle Ford) ----	36	401	and Edwards) -----	38	567		
Well J-1-62							
Owner: John Nietenhoefer. Driller: G. P. Oakes.							
Gravel -----	50	50	Shale, blue -----	55	915		
Clay, yellow -----	7	57	Shale, green -----	25	940		
Rock, yellow -----	1	58	Rock and sand, green ---	7	947		
Shale, blue -----	72	130	Sand, white, brachish ---	13	960		
Sandstone; water seep --	2	132	Shale, green -----	10	970		
Shale, blue -----	278	410	Unkown -----	5	975		
Rock -----	3	413	Shale, blue -----	5	980		
Shale, green -----	87	500	Rock, green and lime ----	225	1,205		
Shale, green, sandy ----	35	535	Shale, green -----	40	1,245		
Shale, green -----	40	575	Shale, light-green -----	5	1,250		
Sand, green -----	10	585	Lime, green -----	20	1,270		
Sand, dark-green -----	10	595	Shale, green -----	5	1,275		
Shale, sandy -----	26	621	Lime, green -----	35	1,310		
Shale, green -----	109	730	Shale, blue -----	60	1,370		
Serpentine streaks ----	5	735	Lime, green; sulphur				
Shale, green -----	125	860	water -----	42	1,412		
Well J-1-64							
Owner: O. A. Schmidt. Driller: C. A. Schweers.							
Soil -----	2	2	Clay, dark-gray -----	59	91		
Gravel -----	2	4	Clay, bluish-gray -----	2	93		
Clay, yellow -----	28	32	Clay, blue -----	57	150		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well J-1-64--continued					
Rock, gray -----	5	155	Shale, gray, soft, friable -----	29	674
Shale, blue -----	15	170	Shale, dark-gray -----	30	704
Rock, gray -----	5	175	Shale, gray -----	8	712
Shale, gray -----	13	188	Sand, green -----	20	732
Rock, gray -----	3	191	Shale, light gray -----	18	750
Shale, gray -----	11	202	Lime, gray -----	52	802
Rock, gray -----	2	204	Shale, gray -----	4	806
Shale, gray -----	78	282	Lime, gray -----	36	842
Rock, gray -----	1	283	Shale, dark -----	68	910
Shale, gray -----	169	452	Lime, white; salt water -	30	940
Rock, gray -----	2	454			
Shale -----	191	645			
Well J-1-83					
Owner: City of Castroville. Driller: Cravens Drilling Co.					
Soil -----	26	26	Limestone (Buda) -----	75	600
Gravel -----	2	28	Clay, Grayson shale (Del Rio clay) -----	98	698
Marl, (Taylor) -----	100	128	Limestone (Edwards), cavernous -----	17	715
Limestone, (Anacacho) --	82	210			
Chalk, (Austin) -----	282	492			
Shale, (Eagle Ford) ----	33	525			
Well J-1-86					
Owner: J. Courand. Driller: Golden West Oil Co.					
Gravel -----	10	10	Sand -----	17	920
Shale -----	200	210	Shale -----	12	932
Lime; gas show 200 feet	15	225	Lime -----	71	1,003
Shale; slight oil show -	172	397	Clay -----	19	1,022
Sand -----	35	432	Sand; oil trace -----	10	1,032
Shale -----	35	467	Shale -----	20	1,052
Lime; oil trace -----	113	580	Sand; water -----	15	1,067
Shale -----	80	660	Lime; water -----	32	1,099
Lime; water -----	140	800	Sand; water -----	23	1,122
Shale -----	5	805	Lime and sand -----	5	1,127
Sand -----	15	820	Lime, hard; water -----	20	1,147
Lime -----	83	903			

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-2-15							
Owner: A. J. Wurzbach. Driller: J. I. Moore.							
Caliche and shale -----	93	93	Shale, blue -----	10	1,395		
Clay, brown -----	17	110	Lime, gray, hard -----	25	1,420		
Shale, black -----	148	258	Lime, gray -----	11	1,431		
Lime, white -----	42	300	Shale, gray, sticky -----	9	1,440		
Lime, gray -----	21	321	Shale, sticky -----	29	1,469		
Shale, gray -----	57	378	Shale and limestone -----	26	1,495		
Lime, gray -----	20	398	Lime, brown -----	12	1,507		
Sand and gravel, contain water -----	17	415	Lime, broken -----	8	1,515		
Lime -----	18	433	Lime, brown -----	10	1,525		
Shale, blue -----	5	438	Lime, brown hard -----	10	1,535		
Lime -----	2	440	Lime, brown -----	63	1,598		
Gravel; water -----	20	460	Lime, white -----	7	1,605		
Lime, broken -----	17	477	Shale, gray -----	40	1,645		
Shale, blue -----	53	530	Lime, shale, broken -----	15	1,660		
Lime -----	70	600	Lime and shale; lime broken -----	57	1,717		
Lime, broken -----	14	614	Lime, brown -----	23	1,740		
Sand; water -----	8	622	Lime, gray-brown, broken	10	1,750		
Lime -----	39	661	Lime, brown -----	70	1,820		
Sand, hard, fine -----	14	675	Lime, gray-brown broken -	15	1,835		
Lime -----	34	709	Lime, gray -----	50	1,885		
Gravel -----	5	714	Lime, brown -----	15	1,900		
Lime -----	11	725	Lime -----	6	1,906		
Lime, honeycomb; water -	4	729	Lime, sandy -----	14	1,920		
Lime, gray -----	16	745	Lime, gray-brown, brown -	15	1,935		
Lime -----	60	805	Lime, shale -----	45	1,980		
Lime, gray -----	155	960	Shale -----	5	1,985		
Lime, shale -----	35	995	Lime, dark -----	13	1,998		
Lime -----	5	1,000	Shale, blue -----	20	2,018		
Lime, gray -----	25	1,025	Lime -----	14	2,032		
Lime, brown -----	5	1,030	Lime, brown -----	7	2,039		
Lime, brown, porous ----	10	1,040	Lime, brown, hard -----	16	2,055		
Lime, gray; water -----	25	1,065	Lime and sand; sulphur water -----	2	2,057		
Lime, porous -----	35	1,100	Shale -----	28	2,085		
Lime, broken -----	30	1,130	Shale, blue -----	15	2,100		
Lime, gray -----	100	1,230	Lime -----	5	2,105		
Lime, broken chalk -----	12	1,242	Lime and shale -----	6	2,111		
Shale, gray, broken ----	8	1,250	Shale, blue -----	44	2,155		
Shale, broken -----	25	1,275	Lime, gray -----	25	2,180		
Lime, gray -----	110	1,385					

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-2-15--continued							
Lime, gray, broken -----	30	2,210	Lime, hard -----	10	2,660		
Lime, gray -----	30	2,240	Lime -----	30	2,690		
Shale, blue -----	13	2,253	Shale, red -----	2	2,692		
Lime, broken -----	12	2,265	Sand; water -----	28	2,720		
Lime, broken -----	5	2,270	Sand, hard -----	15	2,735		
Lime, gray -----	30	2,300	Sand -----	16	2,751		
Lime, gray, hole full of water -----	25	2,325	Lime, hard -----	4	2,755		
Lime, gray -----	12	2,337	Lime -----	4	2,759		
Sand, hard -----	8	2,345	Sand; water -----	11	2,770		
Shale and lime, blue limestone -----	10	2,355	Sand -----	15	2,785		
Lime -----	70	2,425	Sand and gravel -----	30	2,815		
Lime, gray -----	30	2,455	Sand -----	1	2,816		
Lime, broken sandy -----	35	2,490	Lime, gray -----	9	2,825		
Lime -----	6	2,496	Lime, sandy -----	13	2,838		
Lime, broken -----	26	2,522	Lime, brown -----	3	2,841		
Shale, red -----	3	2,525	Shale, brown -----	4	2,846		
Shale, blue -----	6	2,531	Lime, sandy -----	19	2,864		
Lime, gray -----	19	2,550	Lime, black -----	6	2,870		
Shale, broken -----	20	2,570	Sand -----	4	2,874		
Lime -----	5	2,575	Lime, black -----	26	2,900		
Lime, hard -----	15	2,590	Lime -----	10	2,910		
Lime -----	60	2,650	Lime, black, hard -----	15	2,925		
			Lime, black -----	268	3,193		
Well J-4-2							
Owner: E. Krewald. Driller: Pegg Bros.							
Caliche -----	4	4	Limestone (Anacacho) ----	310	750		
Clay, yellow, sticky ---	58	62	Chalk, (Austin) -----	360	1,110		
Shale, black -----	48	110	Shale (Eagle Ford) -----	35	1,145		
Shale, sand stringers; gas -----	20	130	Limestone (Buda) -----	55	1,200		
Sand, hard -----	1	131	Clay, Grayson shale (Del Rio clay) -----	60	1,260		
Shale and sand, lenses -	44	175	Limestone (Georgetown) --	25	1,285		
Escondido formation, shale sandstone -----	265	440	Limestone (Edwards) -----	100	1,385		

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-5							
Owner: T. S. McClure. Driller: F. M. Burkett.							
Soil -----	20	20					
Clay, dark, sandy, limestone concretion -	40	60					
Clay, light-gray, sandy clay, blue-gray, very fine-grained, limey --	40	100			12	450	
Clay, gray, limey -----	20	120			20	470	
Clay, bluish-gray, calcareous and clay, fine sandy -----	20	140			20	490	
Clay, bluish-gray, sandy calcareous -----	20	160			20	510	
Clay, bluish-gray, cal- careous -----	20	180			60	570	
Clay, gray, calcareous sandy -----	20	200			20	590	
Clay, gray, plastic calcareous -----	20	220					
Clay, gray, plastic, fossil-fragments -----	20	240			40	630	
Clay, gray, calcareous, sandy -----	20	260			50	680	
Clay, gray, sandy cal- careous -----	20	280			40	720	
Clay, sandy and fine- grained argillaceous gray sand -----	20	300			20	740	
Clay, gray, hard massive calcareous -----	20	320			32	772	
Clay gray, hard and fine- grained sandstone ----	20	340			98	870	
Clay, gray, hard massive calcareous -----	80	420			14	884	
Clay, greenish-gray, hard massive, cal- careous -----	15	435			16	900	
Chalk, and glauconite clay containing frag- ments of <u>Crenella</u> <u>serica</u> Conrad -----	3	438			98	998	
					Shale, calcareous and limestone -----	19	1,017
					Chalk, light-gray shaly -	15	1,032
					Chalk, light gray -----	25	1,057
					Chalk, light gray and gray, calcareous shale -----	12	1,069
					Chalk, white -----	41	1,110
					Shale (Eagle Ford), dark gray calcareous -----	40	1,150

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-6							
Owner: R. J. Noonan. Driller: E. T. Peters.							
Clay, gravel -----	30	30	Shale and gumbo -----	287	820		
Rock -----	10	40	Limestone, (Anacacho) ---	76	896		
Gumbo -----	8	48	Shale, gumbo -----	8	904		
Rock -----	3	51	Chalk, rock, gummy -----	104	1,008		
Sand -----	15	66	Chalk, sticky -----	14	1,022		
Rock -----	3	69	Chalk -----	198	1,220		
Sand; water -----	1	70	Shale, (Eagle Ford) -----	71	1,291		
Rock -----	3	73	Limestone (Buda) -----	88	1,379		
Shale -----	12	85	Lime -----	12	1,391		
Rock -----	3	88	Clay, Grayson shale (Del				
Gumbo, boulders -----	52	140	Rio clay) -----	49	1,440		
Shale -----	110	250	Limestone (Georgetown) --	44	1,484		
Shale, boulders -----	80	330	Limestone (Edwards) -----	55	1,539		
Gumbo -----	46	376	Lime with flint -----	5	1,544		
Rock -----	2	378	Lime with pyrite -----	1	1,545		
Shale -----	42	420	Lime, dry with flint -----	5	1,550		
Gumbo, tough -----	45	465	Lime with pyrite -----	1	1,551		
Rock -----	1	466	Lime with flint -----	28	1,579		
Shale, boulders -----	67	533	Lime with pyrite -----	1	1,580		
Well J-4-11							
Owner: Wm. Edgar. Driller: Sun Oil Co.							
Surface soil, black ----	3	3	Shale, blue and sandstone				
Gravel, flint -----	5	8	lenses, oil odor -----	40	180		
Caliche -----	6	14	Shale, blue, hard, sandy	5	185		
Shale, yellow -----	42	56	Shale, blue -----	5	190		
Shale, yellow, blue			Shale, blue, fossils ----	5	195		
streaks -----	14	70	Shale, blue and sand				
Shale, blue -----	6	76	lenses -----	5	200		
Shale, gray, sandy, oil			Shale, gray, hard -----	12	212		
odor -----	2	78	Shale, soft, sandy -----	3	215		
Shale, gray, hard, oil			Shale, hard, stratified				
odor -----	9	87	sandy, oil show -----	5	220		
Shale, gray, sandy ----	13	100	Shale, hard, sandy and				
Shale, blue -----	30	130	sandstone lenses -----	18	238		
Shale, dark blue, and			Shale, hard, sandstone				
lime, sandy -----	10	140	lenses, oil show -----	2	240		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-11--continued							
Shale, blue -----	25	265	Lime, gray, sandy -----	29	600		
Shale, gray, hard, lenses -----	10	275	Lime, dark gray, sandy --	70	670		
Shale, blue -----	5	280	Lime, gray, marly -----	10	680		
Shale, gray, hard and sand -----	5	285	Limestone, brown, oil odor -----	15	695		
Shale, gray, hard, sandy	10	295	Limestone white-brown, hard -----	5	700		
Shale, blue -----	5	300	Gray streaks -----	30	730		
Lime, gray, hard, sandy	2	302	Limestone, gray -----	10	740		
Shale, blue -----	30	332	Limestone, gray, sandy --	30	770		
Rock and shale, gray, hard -----	10	342	Lime, gray, marly -----	45	815		
Shale, blue -----	33	375	Shale, blue, sandy -----	80	895		
Shale, gray, hard stratified -----	3	378	Lime, white -----	90	985		
Shale, blue, hard -----	7	385	Limestone, light gray, oil odor -----	15	1,000		
Shale, gray, hard -----	3	388	Lime, white -----	5	1,005		
Shale, hard -----	7	395	Shale, brownish -----	10	1,015		
Marl and shale, hard ---	20	415	Lime, white -----	10	1,025		
Marl, gray -----	20	435	Lime, gray -----	95	1,120		
Marl, blue -----	35	470	Shale, black, hard -----	33	1,153		
Shale, gray -----	10	480	Lime, white, hard -----	70	1,223		
Shale, blue -----	20	500	Shale, blue, sticky -----	65	1,288		
Shale, gray, hard, sand lenses, oil odor -----	20	520	Lime, white -----	7	1,295		
Shale, gray, hard -----	42	562	Lime, yellow, hard -----	5	1,300		
Shale, boulders, gray, hard -----	9	571	Rock, water -----	1	1,301		
			Lime, yellow, hard -----	7	1,308		
			Cavern -----	4	1,312		
			Lime, hard -----	13	1,325		

Well J-4-15

Owner: J. O. Pike. Driller: T. W. Bain.

Soil -----	7	7	Shale, gray -----	29	376
Gravel -----	6	13	Lime -----	2	378
Shale, gray -----	137	150	Shale, gray -----	23	401
Rock -----	4	154	Shell -----	2	403
Shale -----	79	233	Shale, gray -----	24	427
Sand, green, oil -----	108	341	Sand, dry, oil trace ---	1	428
Rock -----	3	344	Shale, blue -----	27	455
Shale, fossils -----	3	347	Sand, oil -----	6	461

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-23							
Owner: J. Tschirhart. Driller: Johnson Bros.							
Soil -----	3	3	Shale, hard -----	32	1,058		
Gravel -----	13	16	Shale, sticky -----	60	1,118		
Clay, yellow -----	4	20	Shale, blue -----	114	1,232		
Sand rock -----	8	28	Limestone -----	8	1,240		
Shale -----	104	132	Shale, broken -----	61	1,301		
Gumbo -----	14	146	Limestone -----	111	1,412		
Shale -----	78	224	Sand, gas -----	2	1,414		
Sand -----	6	230	Rock -----	6	1,420		
Shale -----	290	520	Shale, black -----	24	1,444		
Sand -----	18	538	Sand, very hard -----	16	1,460		
Chalk -----	452	990	Lime, broken -----	122	1,582		
Shale, hard -----	8	998	Rock -----	19	1,601		
Sand, hard -----	8	1,006	Lime, sandy, oil show ---	9	1,610		
Gumbo, tough -----	12	1,018	Lime, sulphur water -----	8	1,618		
Limestone, hard -----	8	1,026					
Well J-4-25							
Owner: H. V. Haas. Driller: Thomas and Ryan.							
Surface -----	80	80	Shale, gumbo and sand				
Shale, fine sandy -----	40	120	streaks -----	60	860		
Shale, sandy -----	30	150	Shale, hard, gumbo, sandy				
Shale, hard, streaks			streaks -----	72	932		
rock -----	50	200	Lime, (Anacacho) lime;				
Shale with sand streaks;			heavy oil show -----	52	984		
oil -----	30	230	Shale, hard, calcareous -	12	996		
Shale, hard, streaks			Shale, hard, sandy -----	94	1,090		
rock -----	120	350	Shale, hard and sand,				
Shale, gumbo, streaks,			bluish green calcareous	58	1,148		
rock -----	140	490	Rock, blue with flint ---	1	1,149		
Shale and sand, streaks	30	520	Chalk -----	11	1,160		
Shale, gumbo -----	80	600	Rock, blue, hard with				
Shale, sandy (Taylor) --	35	635	flint -----	2	1,162		
Shale, hard -----	24	659	Chalk, serpentine con-				
Gumbo -----	22	681	glomerated and clay,				
Gumbo, tough -----	119	800	blue -----	10	1,172		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-25--continued							
Chalk, gumbo -----	13	1,185	Limestone (Georgetown) --	38	1,583		
Chalk -----	105	1,290	Shale, breaks, Dobey ----	1	1,584		
Chalk, shaley -----	80	1,370	Chert, lime -----	1	1,585		
Shale, hard and chalk streaks -----	28	1,398	Limestone, (Edwards) ----	5	1,590		
Lime, streaks (Eagle Ford) shale -----	2	1,400	Limestone (Edwards) dry -	40	1,630		
Shale, (Eagle Ford) ----	26	1,426	Limestone, (Edwards) hard and dry -----	18	1,648		
Limestone (Buda) -----	64	1,490	Chert, black, hard -----	1	1,649		
Clay, Grayson shale (Del Rio clay) -----	55	1,545	Limestone, (Edwards) hard and dry -----	1	1,650		
Well J-4-27							
Owner: Albert Bendele. Driller: Stovers and May.							
Midway, Escondido, and Navarro formation, Taylor marl, Austin chalk, and Anacacho limestone:				Midway, Escondido, and Navarro formation, Taylor marl, Austin chalk, and Anacacho limestone-- continued:			
Black soil -----	10	10	Sand -----	2	249		
Gravelly clay -----	6	16	Shale -----	13	262		
Pack sand -----	4	20	Shale -----	123	385		
Clay -----	20	40	Shale and boulders ----	50	435		
Pack sand -----	6	46	Shale -----	35	470		
Water sand -----	4	50	Pack sand -----	10	480		
Rock -----	3	53	Shale -----	20	500		
Sand with water -----	17	70	Rock -----	3	503		
Sandy shale -----	5	75	Shale -----	17	520		
Rock -----	32	107	Rock -----	5	525		
Sand -----	8	115	Shale and boulders ----	25	550		
Rock -----	3	118	Shale -----	20	570		
Shale and boulders ---	42	160	Rock -----	2	572		
Chalk -----	2	162	Sticky shale -----	28	600		
Shale -----	11	173	Rock -----	4	604		
Rock -----	5	178	Shale and shell; showing oil -----	8	612		
Shale -----	12	190	Hard shale -----	28	640		
Water sand -----	10	200	Shale -----	15	655		
Rock -----	3	203	Rock -----	3	658		
Shale and boulders ---	42	245					
Rock -----	2	247					
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-27--continued							
Midway, Escondido, and Navarro formation, Taylor marl, Austin chalk, and Anacacho limestone --continued:				Midway, Escondido, and Navarro formation, Taylor marl, Austin chalk, and Anacacho limestone --continued:			
Gumbo -----	22	680		Chalk -----	15	1,365	
Gray-blue hard shale -	50	730		Black shale -----	10	1,375	
Hard shale -----	60	790		Chalk -----	17	1,392	
Gumbo -----	30	820		Eagle Ford shale -----	23	1,415	
Sticky shale -----	20	840		Buda limestone -----	45	1,460	
Rock -----	2	842		Grayson shale (Del Rio clay) -----	60	1,520	
Gumbo -----	33	875		Georgetown limestone ----	2	1,522	
Shale -----	20	895		Broken limestone -----	13	1,535	
Anacacho -----	25	920		Hard limestone -----	15	1,550	
Lime and shale -----	40	960		Limestone -----	6	1,556	
Shale -----	90	1,050		Edwards limestone:			
Sandy lime -----	35	1,085		Hard dry lime -----	29	1,585	
Red clay; top of chalk	15	1,100		Hard broken lime -----	50	1,635	
Hard chalk -----	25	1,125		Hard dry brown lime ---	21	1,656	
Chalk -----	87	1,212		Hard brown lime, black streaks -----	16	1,672	
Hard dry chalk -----	58	1,270					
Hard chalk -----	80	1,350					
Well J-4-30							
Owner: L. A. Haby. Driller: Mid-Kansas Oil and Gas Co.							
Surface rock -----	55	55		Shale, sandy and boulders -----	137	1,307	
Clay and shale -----	330	385		Chalk, (Austin) -----	105	1,412	
Shale -----	495	880		Shale, (Eagle Ford) -----	74	1,486	
Rock -----	1	881		Limestone (Buda) -----	24	1,510	
Shale, sandy -----	24	905		Clay, Grayson shale (Del Rio clay) -----	35	1,545	
Shale, sticky -----	160	1,065		Limestone (Georgetown) --	60	1,605	
Shale, chalky -----	12	1,077					
Shale, sandy and pyrite	93	1,170					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-31							
Owner: Jake Haby.							
Sand, soft, surface ----	10	10	Rock, hard -----	10	1,015		
Rock, gray, soft -----	4	14	Shale, hard, chalky ----	17	1,032		
Sand, gray, soft -----	6	20	Shale, chalky -----	27	1,059		
Gravel, white, hard ----	20	40	Chalk, hard -----	1	1,060		
Rock, hard -----	4	44	Shale, blue, hard -----	16	1,076		
Clay and gravel; clay soft -----	10	54	Lime, gray, hard -----	38	1,114		
Rock, soft -----	1	55	Chalk, white, hard -----	154	1,268		
Clay; blue, soft -----	5	60	Chalk, medium -----	67	1,335		
Shale boulders -----	325	385	Shale, brown (Eagle Ford)	35	1,370		
Shale, blue, hard -----	50	435	Limestone (Buda) -----	54	1,424		
Shale, boulders; oil and gas -----	80	515	Clay, blue (Del Rio) ----	60	1,484		
Rock -----	61	576	Limestone (Georgetown) and shale; oil -----	16	1,500		
Shale, boulders -----	224	800	Limestone (Edwards) ----	42	1,542		
Lime, hard -----	31	831	Clay, Grayson shale (Del Rio clay) -----	50	1,592		
Sand, gray, soft and shale; gas -----	1	832	Lime (Georgetown) water -	15	1,607		
Sand, gray, hard -----	44	876	Lime (Edwards) -----	9	1,616		
Shale, sandy; oil show -	66	942					
Shale, blue, hard, sandy	63	1,005					
Well J-4-37							
Owner: D. F. Davis. Driller: M. Stewart and Sons.							
Soil -----	3	3	Shale -----	4	240		
Clay -----	7	10	Rock -----	2	242		
Sand -----	20	30	Shale -----	1	243		
Rock -----	10	40	Rock -----	3	246		
Sand -----	60	100	Shale -----	19	265		
Sand, hard -----	38	138	Rock -----	1	266		
Rock, hard -----	1	139	Shale, sandy -----	38	304		
Shale -----	10	149	Rock -----	3	307		
Rock -----	2	151	Shale and boulders; shale hard -----	202	509		
Sand, black -----	5	156	Sand, hard -----	4	513		
Shale, hard -----	55	211	Shale, sandy -----	326	839		
Shale, sticky -----	23	234	Shale, hard -----	20	859		
Rock -----	2	236					
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-37--continued							
Shale, hard, sandy, broken -----	20	879	Shale, black -----	48	1,735		
Shale, hard, sandy, streaks -----	47	926	Chalk -----	79	1,814		
Shale, sticky -----	229	1,155	Shale, (Eagle Ford) -----	75	1,889		
Lime (Anacacho) -----	215	1,370	Limestone (Buda) -----	64	1,953		
Shale, sticky -----	70	1,440	Clay, Grayson shale (Del Rio clay) -----	37	1,990		
Chalk -----	247	1,687	Limestone (Georgetown) --	30	2,020		
			Limestone, (Edwards) ----	61	2,081		
Well J-4-47--partial log							
Owner: Christilles Estate. Driller: Johnson & Hyslop.							
No record -----	1,132	1,132	Lime, (Georgetown), hard	30	1,630		
Chalk, (Austin) -----	4	1,136	Lime, (Georgetown), black	11	1,641		
Chalk, (Austin), soft --	47	1,183	Lime, (Edwards), very hard -----	12	1,653		
Chalk, (Austin), hard --	2	1,185	Lime, (Edwards), gray ---	1	1,654		
Chalk, (Austin), broken	3	1,188	Lime, (Edwards), bluish white, gray -----	4	1,658		
Chalk, (Austin), soft --	72	1,260	Lime, (Edwards), gray and black -----	2	1,660		
Chalk, (Austin), hard --	1	1,261	Lime, (Edwards), black --	3	1,663		
Chalk, (Austin), soft --	87	1,348	Lime, (Edwards), oil and gas -----	2	1,665		
Chalk, (Austin), broken	59	1,407	Lime, (Edwards), gray, hard -----	4	1,669		
Chalk, (Austin), hard; oil show -----	10	1,417	Lime, (Edwards) gray and black fossil -----	2	1,671		
Chalk, (Austin), broken	18	1,435	Lime, (Edwards), gray, very hard -----	2	1,673		
Chalk, (Austin), Eagle Ford -----	1	1,436	Lime, gray, sulphur water	3	1,676		
Shale, (Eagle Ford) broken -----	10	1,446	Lime, gray, hard, porous	11	1,687		
Shale, (Eagle Ford) hard	12	1,458	Limestone (Edwards), gray hard -----	12	1,699		
Shale, (Eagle Ford), broken -----	22	1,480	Limestone (Edwards) gray, very hard -----	1	1,700		
Lime, (Buda), hard and soft streaks -----	40	1,520					
Grayson shale, (Del Rio clay) -----	32	1,552					
Grayson shale, (Del Rio clay), hard -----	9	1,561					
Grayson shale, (Del Rio clay), broken -----	26	1,587					
Grayson shale, (Del Rio clay), hard streaks --	13	1,600					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-52							
Owner: W. J. Conger. Driller: E. R. Thomas et al.							
Soil, black -----	2	2	Gumbo -----	44	890		
Clay, yellow and gravel	8	10	Gumbo, tough, chalky ----	26	916		
Clay and gravel -----	31	41	Gumbo -----	14	930		
Gumbo -----	29	70	Lime, hard, streaks ----	78	1,008		
Shale, gumbo and sand --	10	80	Limestone (Anacacho) with				
Sand, probably water ---	5	85	sand and chalk -----	12	1,020		
Shale, gummy, and sand			Limestone (Anacacho) ----	24	1,044		
streaks -----	25	110	Limestone, sandy, oil ---	2	1,046		
Rock -----	11	121	Limestone (Anacacho) ----	8	1,054		
Shale, gummy, and sand			Sand, streaks, oil -----	6	1,060		
streaks -----	14	135	Shale, hard -----	6	1,066		
Rock, fish tail -----	2	137	Rock, chalk -----	34	1,100		
Shale, gummy -----	13	150	Chalk, hard -----	46	1,146		
Rock -----	9	159	Chalk, shaley -----	54	1,200		
Shale, gummy -----	6	165	Chalk, soft, oil -----	36	1,236		
Rock -----	1	166	Chalk, shaley -----	40	1,276		
Shale, gummy, and sand			Chalk rock, oil show ----	4	1,280		
streaks -----	7	173	Shale -----	30	1,310		
Boulders and shale ----	7	180	Lime, hard -----	2	1,312		
Shale, gummy, and lime			Lime rock -----	20	1,332		
boulders -----	72	252	Lime -----	8	1,340		
Sand, streaks, oil and			Chalk, streaks, and clay	22	1,362		
shale -----	38	290	Shale, hard -----	40	1,402		
Shale, gummy -----	20	310	Shale (Eagle Ford) ----	99	1,501		
Shale and boulders ----	50	360	Lime (Buda) -----	89	1,590		
Shale and sand, oil ----	10	370	Clay, Grayson shale (Del				
Shale and boulders ----	184	554	Rio clay) -----	75	1,665		
Shale and sand, oil ----	16	570	Lime (Georgetown) ----	35	1,700		
Gumbo -----	105	675	Lime (Edwards) and				
Shale -----	40	715	streaks -----	40	1,740		
Gumbo -----	2	717	Limestone (Edwards) ----	20	1,760		
Shale and sand, oil			Lime, very hard -----	10	1,770		
(Taylor) -----	23	740	Lime, broken -----	10	1,780		
Sand, oil, and shale ---	5	745	Lime, broken, soft and				
Gumbo, oil show -----	49	794	hard streaks -----	5	1,785		
Gumbo, tough -----	52	846					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-58							
Owner: Mary E. Jungman. Driller: W. L. Umburn.							
Soil -----	3	3	Rock -----	1	149		
Clay, yellow -----	3	6	Shale, gray -----	11	160		
Gravel, water -----	24	30	Marl, green -----	5	165		
Rock, hard -----	2	32	Sand, green -----	65	230		
Sand -----	2	34	Shale, gray, sandy -----	10	240		
Gravel -----	9	43	Shale, gray -----	37	277		
Clay, yellow -----	27	70	Shale, hard -----	3	280		
Shale, blue, sandy -----	10	80	Shale, gray -----	19	299		
Shale, sandy -----	10	90	Rock -----	20	319		
Shale, blue -----	20	110	Shale, top gray; oil				
Rock -----	1	111	odor -----	4	323		
Shale, sandy -----	29	140	Shale -----	28	351		
Rock -----	1	141	Sand, dry -----	2	353		
Shale, blue -----	7	148					
Well J-4-59							
Owner: Jungman Heirs. Driller: J. H. Lynd and A. M. Hepler.							
Surface clay and gravel	50	50	Shale, sandy -----	34	469		
Shale, brown -----	45	95	Sandstone -----	1	470		
Shale and boulders -----	58	153	Sand, oil show -----	6	476		
Rock -----	3	156	Rock -----	3	479		
Shale, sandy, and			Shale, sandy -----	41	520		
boulders -----	22	178	Rock -----	3	523		
Rock -----	1	179	Shale and boulders -----	50	573		
Shale and boulders -----	58	237	Shale, sandy -----	27	600		
Rock -----	1	238	Shale, blue -----	47	647		
Sand, green -----	30	268	Shale and boulders -----	43	690		
Rock -----	2	270	Shale, sticky -----	25	715		
Shale, gray -----	40	310	Shale -----	61	776		
Rock -----	2	312	Rock -----	21	797		
Shale, sandy -----	77	389	Shale, sticky -----	23	820		
Lime, hard -----	4	393	Shale and boulders -----	50	870		
Shale, sandy -----	27	420	Shale -----	62	932		
Shale, sand, and boulders	10	430	Shell bed -----	15	947		
Sandstone, hard -----	5	435	Shale, sticky -----	5	952		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-59--continued							
Shale, sandy -----	39	991	Serpentine -----	218	1,700		
Shale, sticky -----	39	1,030	Chalk -----	138	1,838		
Gumbo -----	60	1,090	Shale (Eagle Ford) -----	32	1,870		
Shale, sandy -----	40	1,130	Limestone (Buda) -----	72	1,942		
Shale, sticky -----	60	1,190	Clay, Grayson shale (Del				
Shale and boulders -----	90	1,280	Rio) -----	73	2,015		
Lime (Anacacho) -----	129	1,409	Limestone (Georgetown) --	4	2,019		
Shale, gray chalk -----	73	1,482					
Well J-4-60							
Owner: Van Mangold. Driller: T. N. T. Drilling Co.							
Soil -----	4	4	Rock, hard -----	6	929		
Clay -----	4	8	Serpentine, soft, chalk -	16	945		
Rock -----	1	9	Serpentine, green -----	55	1,000		
Clay-gravel -----	25	34	Serpentine, gumbo -----	10	1,010		
Rock -----	4	38	Serpentine, chalky -----	30	1,040		
Shale, gumbo and hard			Serpentine, gumbo -----	75	1,115		
streaks -----	107	145	Serpentine -----	55	1,170		
Shale, gumbo tough -----	30	175	Chalk, hard, streaks ----	41	1,211		
Shale, gumbo -----	205	380	Chalk, very hard -----	8	1,219		
Sandstone -----	1	381	Serpentine -----	12	1,231		
Sandstone, gas show ----	9	390	Shale, hard, streaks and				
Shale, hard, sand streaks	60	450	serpentine -----	2	1,233		
Shale, hard, gumbo -----	13	463	Shale, hard -----	27	1,260		
Gumbo -----	18	481	Lime, hard -----	4	1,264		
Shale, hard, sandy, and			Lime, hard, and gumbo ---	4	1,268		
sandstone streaks ----	19	500	Lime, hard -----	3	1,271		
Sandstone -----	4	504	Lime, hard with pyrite --	2	1,273		
Shale, hard, sandy shale			Shale, hard, limey -----	7	1,280		
streaks -----	61	565	Lime, hard, and pyrite --	4	1,284		
Shale, hard, tough gumbo	85	650	Gumbo streaks, pyrite and				
Sand, hard with shale			serpentine -----	50	1,334		
streaks -----	7	657	Lime, hard -----	20	1,354		
Shale, gumbo -----	56	713	Lime, black, hard -----	6	1,360		
Shale, hard -----	67	780	Serpentine, unknown -----	5	1,365		
Limestone -----	84	864	Chalk, black, hard with				
Shale, hard, dry -----	59	923	flint -----	23	1,388		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well J-4-60--continued			
Chalk, hard -----	20 1,408	Limestone, black -----	3 1,593
Chalk (Eagle Ford) and serpentine -----	18 1,426	Limestone -----	42 1,635
Shale (Eagle Ford) -----	16 1,442	Shale, "dobey" -----	3 1,638
Limestone (Buda) -----	30 1,472	Limestone (Edwards) -----	12 1,650
Limestone (Buda), serpentine -----	40 1,512	Limestone, hard, dark brown -----	24 1,674
Limestone (Buda), hard streaks and serpentine	10 1,522	Limestone, brown, hard, chert -----	15 1,689
Clay, Grayson shale (Del Rio clay) -----	48 1,570	Limestone, hard, black flint -----	2 1,691
Lime, hard, with gumbo - Limestone (Georgetown)	5 1,575	Limestone, hard -----	9 1,700
and black streaks ----	15 1,590		

Well J-4-61			
Owner: J. Tschirhart. Driller: Cromwell and Cromwell.			
Soil -----	7 7	Shale, dark gray, hard, oil show -----	44 512
Clay, yellow -----	9 16	Shale, sandy, dark gray -	8 520
Gravel -----	11 27	Shale, blue -----	61 581
Clay, yellow -----	22 49	Rock, hard -----	19 600
Shale, blue -----	4 53	Shale, sandy, oil show --	11 611
Rock, hard, blue -----	4 57	Sand, fine-grained -----	29 640
Shale, gray -----	26 83	Clay -----	10 650
Rock, blue, hard -----	1 84	Sand and shale -----	20 670
Shale, gray -----	6 90	Clay, blue, hard -----	28 698
Rock, hard, fresh water	9 99	Shale, gray, hard -----	141 839
Shale, sandy, gray -----	165 264	Sand, hard, coarse -----	12 851
Shale, light gray, sandy	115 379	Sand, hard, coarse and shale -----	23 874
Shale, gray, oil show --	17 396	Sand, fine, hard -----	11 885
Shale, gray, gas -----	14 410	Sand, coarse, and shale, oil show -----	33 918
Rock, hard -----	2 412	Limestone, blue, with oil	1 919
Shale, gray -----	8 420	Limestone, brown -----	3 922
Rock, shelly -----	1 421		
Shale, dark gray -----	45 466		
Rock, hard, gas -----	2 468		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-61--continued							
Limestone, chalky, gas -	13	935	Chalk (Austin) -----	73	1,118		
Limestone, brown -----	21	956	Limestone, gray, hard ---	55	1,173		
Limestone, white, hard,			Chalk, hard -----	97	1,270		
chalky -----	4	960	Limestone, sandy, hard --	25	1,295		
Limestone, sandy, hard,			Shale, hard -----	28	1,323		
with water -----	5	965	Limestone (Buda) -----	81	1,404		
Limestone, white, chalky,			Clay, Grayson shale (Del				
hard -----	35	1,000	Rio clay) -----	40	1,444		
Shale, gray, and sand --	29	1,029	Limestone (Edwards),				
Shale, dark gray, sandy	16	1,045	contains water -----	16	1,460		
Well J-4-62							
Owner: F. Mangold. Driller: Pearson Oil Co.							
Clay, sandy -----	53	53	Shale and sand, green ---	69	282		
Sand, white -----	3	56	Lime, gray shale -----	42	324		
Clay, yellow, sandy ----	29	85	Shale, blue -----	32	356		
Sand, fresh water -----	5	90	Sand, salty water -----	4	360		
Shale, rock -----	123	213					
Well J-4-63							
Owner: Medina Farms, Inc. Driller: Chas. E. Wagener.							
Soil -----	2	2	Shale, gray -----	16	128		
Gravel -----	3	5	Sand, green -----	64	192		
Clay, yellow -----	51	56	Shale, gray, hard -----	111	303		
Rock -----	1	57	Sand, oil show -----	7	310		
Shale, blue -----	55	112					
Well J-4-64							
Owner: San Antonio Trust Co. Driller: Schermerhorn Oil Co.							
Soil -----	21	21	Rock -----	2	42		
Sand and clay -----	19	40	Sand and clay -----	31	73		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-64--continued							
Rock -----	1	74	Gumbo -----	7	717		
Sand and clay -----	36	110	Shale, sandy -----	18	735		
Rock, hard -----	2	112	Shale, gummy -----	5	740		
Sand and clay -----	18	130	Shale and boulders -----	35	775		
Sandstone, hard -----	7	137	Shale, sandy -----	25	800		
Sand and clay -----	11	148	Shale -----	50	850		
Sandstone -----	3	151	Shale and boulders -----	45	895		
Shale -----	59	210	Shale, sandy -----	30	925		
Lignite -----	1	211	Lime, sandy -----	8	933		
Rock, hard -----	2	213	Lime, broken -----	5	938		
Shale -----	46	259	Shale, sticky and gumbo -	16	954		
Rock -----	4	263	Gumbo, hard -----	43	997		
Shale -----	17	280	Shale, sticky and gumbo -	45	1,042		
Gumbo -----	20	300	Gumbo, hard -----	20	1,062		
Shale, gummy -----	20	320	Shale, gummy -----	30	1,092		
Rock -----	5	325	Gumbo -----	8	1,100		
Shale -----	75	400	Shale, gummy -----	6	1,106		
Rock -----	2	402	Gumbo and gypsum -----	38	1,144		
Shale -----	33	435	Gumbo -----	20	1,164		
Shale and boulders -----	28	463	Gumbo and shale, sticky -	44	1,208		
Shale -----	12	475	Gumbo -----	41	1,249		
Sandstone -----	2	477	Shale, gummy -----	38	1,287		
Shale and boulders -----	26	503	Shale -----	38	1,325		
Limestone, hard -----	4	507	Chalk, rock -----	81	1,406		
Shale and boulders -----	23	530	Chalk, rock, sand, oil --	30	1,436		
Limestone -----	1	531	Shale -----	85	1,521		
Shale and boulders -----	44	575	Clay -----	10	1,531		
Shale -----	15	590	Shale, hard -----	7	1,538		
Gumbo -----	10	600	Limestone, hard -----	35	1,573		
Shale, hard -----	40	640	Shale, sticky -----	1	1,574		
Shale and boulders -----	35	675	Gumbo, hard -----	4	1,578		
Shale -----	25	700	Limestone (Edwards) -----	41	1,619		
Shale and boulders -----	10	710					

Well J-4-67

Owner: Mary Jungman. Driller: Chacon Oil Co.

Soil, dark -----	5	5	Gravel and clay -----	7	29
Sand, yellow -----	4	9	Sand, black, white -----	5	34
Sandstone, gray -----	13	22	Sand and shale -----	7	41

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-67--continued							
Gypsum and shale -----	2	43	Shale, gummy, and gypsum	13	273		
Sandstone -----	2	45	Rock with pyrite -----	3	276		
Sand, gray -----	3	48	Shale, sandy -----	3	279		
Sand and shale, shale			Shale, gummy -----	15	294		
gray -----	3	51	Shale, sandy, fossils ---	13	307		
Sand, gray, coarse -----	2	53	Shale and lenses -----	4	311		
Shale, boulders, and sand			Rock -----	1	312		
stringers -----	23	76	Shale and limestone -----	4	316		
Sand, coarse -----	2	78	Lime, pyrite, fossils ---	11	327		
Shale, sandy -----	11	89	Shale, gummy and sand,				
Shale -----	9	98	lenses -----	13	340		
Shale, marly -----	4	102	Shale, boulders -----	15	355		
Sandstone -----	5	107	Rock -----	1	356		
Sand with pyrite -----	2	109	Shale -----	10	366		
Sand, glauconitic -----	3	112	Rock -----	1	367		
Sand, "salt and pepper",			Shale, gummy -----	4	371		
fossils -----	11	123	Rock -----	1	372		
Shale, sandy, with			Shale, gummy -----	29	401		
pyrite -----	4	127	Rock -----	1	402		
Lime rock -----	2	129	Shale -----	5	407		
Shale, sandy, with			Shale, gummy -----	7	414		
pyrite -----	11	140	Rock -----	1	415		
Shale, sandy, glauconitic	13	153	Shale and sand -----	54	469		
Rock -----	1	154	Rock -----	2	471		
Shale, sandy, glauconitic	14	168	Shale and sand -----	3	474		
Rock -----	3	171	Rock -----	6	480		
Sand, gray, glauconic --	14	185	Shale, dry -----	3	483		
Shale, sandy, fossils --	35	220	Rock -----	5	488		
Shale, sandy -----	12	232	Shale, gray -----	3	491		
Rock with pyrite -----	3	235	Shale, gummy -----	1	492		
Shale, gummy and gypsum	7	242	Rock -----	1	493		
Shale -----	5	247	Sand -----	4	497		
Shale, gummy, and gypsum	9	256	Shale, sandy -----	42	539		
Rock -----	1	257	Shale, gummy, with sand				
Shale -----	2	259	lenses -----	32	571		
Rock -----	1	260					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-69							
Owner: John T. Kirby. Driller: W. Lancaster.							
Soil -----	6	6	Rock, yellow -----	26	72		
Clay -----	9	15	Shale, gray, sandy -----	12	84		
Caliche -----	7	22	Shale, gray -----	16	100		
Caliche and flint rock, water -----	6	28	Lime, light -----	4	104		
Soapstone -----	8	36	Shale, gray, sandy -----	11	115		
Sandstone, water (bad taste) -----	5	41	Shale, sandy, dark -----	15	130		
Flint rock -----	5	46	Shale, gumbo -----	9	139		
			Sand, water -----	9	148		
Well J-4-70							
Owner: San Antonio Trust Co. Driller: Schermerhorn Oil Co.							
Soil -----	8	8	Shale, sandy -----	15	536		
Rock -----	1	9	Rock -----	3	539		
Sand, clay, and gravel -	23	32	Shale, sand, and boulders	26	565		
Clay and sand -----	43	75	Rock -----	4	569		
Clay, sand, and gravel -	43	118	Shale, hard -----	21	590		
Rock -----	1	119	Shale, sand, and boulders	17	607		
Sand and clay -----	36	155	Shale and boulders, sticky	25	632		
Shale and boulders -----	15	170	Gumbo -----	24	656		
Sand and shale -----	15	185	Shale and boulders -----	58	714		
Sand rock -----	2	187	Rock -----	1	715		
Shale, sandy -----	33	220	Shale and boulders -----	126	841		
Rock -----	124	344	Shale, sandy -----	37	878		
Shale and boulders -----	1	345	Rock -----	1	879		
Rock -----	26	371	Shale and boulders -----	92	971		
Shale, sandy -----	24	395	Shale, hard with very hard boulders -----	83	1,054		
Shale, sticky -----	20	415	Rock -----	1	1,055		
Rock -----	5	420	Shale and boulders, boulders sandy -----	20	1,075		
Shale and boulders -----	22	442	Rock -----	1	1,076		
Sand and boulders -----	15	457	Shale, sandy -----	5	1,081		
Rock -----	4	461	Shale, hard -----	39	1,120		
Shale and boulders -----	38	499	Shale with sand streaks -	196	1,316		
Rock -----	1	500					
Shale and boulders -----	21	521					

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Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-4-70--continued							
Shale, sand, and chalk	30	1,346	Chalk, shale breaks -----	51	1,489		
Chalk -----	58	1,404	Shale -----	56	1,545		
Shale -----	2	1,406	Shale with lime streaks -	35	1,580		
Chalk, broken -----	13	1,419	Clay -----	12	1,592		
Shale, sand, and chalk -	19	1,438	Lime, hard -----	5	1,597		
Well J-4-78							
Owner: Yancy Russell. Driller: F. M. Burkett.							
Soil, black, sandy -----	3	3	Lignite -----	5	74		
Clay, yellow -----	25	28	Clay, blue -----	36	110		
Water, strong salt -----	2	30	Sand, water -----	5	115		
Clay, yellow -----	30	60	Clay, blue -----	3	118		
Gravel, salt water -----	7	67	Sand, water -----	22	140		
Clay, yellow -----	2	69					
Well J-4-80							
Owner: S. E. Schaefer. Driller: F. M. Burkett.							
Soil, yellow, sandy -----	2	2	Sand and gravel, water --	8	68		
Clay, yellow -----	16	18	Clay -----	12	80		
Water (seep) -----	10	28	Sand, water -----	62	142		
Clay, yellow -----	32	60					
Well J-4-102							
Owner: M. A. Keller. Driller: Grayburg Oil Co.							
Soil and clay -----	24	24	Sandstone -----	2	106		
Caliche -----	7	31	Shale -----	26	132		
Shale -----	34	65	Sand -----	36	168		
Sandstone -----	3	68	Shale -----	46	214		
Shale -----	36	104	Rock -----	3	217		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well J-4-102--continued					
Shale -----	63	280	Shale, green sandy -----	14	1,040
Sandstone -----	7	287	Clay -----	30	1,070
Shale -----	31	318	Shale, sandy -----	12	1,082
Siltstone -----	14	332	Sandstone, green hard; oil show -----	2	1,084
Shale, hard -----	14	346	Shale, green, sandy -----	50	1,134
Shale and sandstone ----	64	410	Clay -----	12	1,146
Shale, brown -----	85	495	Sand, brown, oil -----	20	1,166
Rock -----	3	498	Sandstone, green hard ---	20	1,186
Shale, brown and hard sandstone -----	52	550	Clay, green -----	66	1,252
Shale, brown -----	10	560	Sandstone, hard -----	8	1,260
Limestone, sandy -----	4	564	Shale and clay -----	70	1,330
Shale, brown -----	6	570	Shale, brown -----	92	1,422
Sandstone, hard, green -	45	615	Shale, hard, sandy with black limestone -----	63	1,485
Shale, brown, hard ----	165	780	Shale, black -----	35	1,520
Shale, dark-gray -----	58	838	Limestone, hard -----	24	1,544
Shale, brown, hard sandy -----	2	840	Chalk, light-gray -----	371	1,915
Shale, green -----	70	910	Shale -----	67	1,982
Sand, green, glauconitic	2	912	Chalk -----	93	2,075
Shale, brown, sandy ----	5	917	Shale, black -----	40	2,115
Shale, black, hard, oil show -----	21	938	Limestone, hard -----	63	2,178
Shale, hard, sandy ----	32	970	Clay, sticky -----	80	2,258
Shale, hard with black layers -----	34	1,004	Limestone -----	30	2,288
Shale, black, sandy ----	22	1,026	Shale, soft -----	2	2,290
			Limestone (Edwards) ----	82	2,372

Well J-7-1

Owner: J. R. Howard. Driller: National Oil Co.

Soil, black -----	3	3	Sandstone -----	11	76
Sand, yellow -----	13	16	Sand -----	8	84
Sandstone -----	12	28	Sandstone -----	2	86
Clay -----	9	37	Shale, black -----	16	102
Sandstone -----	7	44	Sandstone -----	2	104
Sand, green -----	14	58	Sand, green -----	22	126
Shale, -----	6	64	Pyrite and rock -----	1	127
Sandstone, hard -----	1	65	Sand, white -----	13	140

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well J-7-1--continued					
Sandstone -----	2	142	Shale -----	19	681
Sand, green -----	18	160	Limestone -----	2	683
Sandstone -----	5	165	Shale -----	5	688
Sand, white -----	38	203	Limestone -----	2	690
Lignite -----	2	205	Shale -----	4	694
Pyrite and rock -----	1	206	Limestone -----	3	697
Lignite -----	18	224	Shale, boulders -----	8	705
Pyrite and rock -----	2	226	Limestone -----	4	709
Sand, white -----	14	240	Shale -----	22	731
Pyrite, rock -----	6	246	Shale, sandy -----	14	745
Sand, white -----	19	265	Limestone -----	2	747
Sandstone -----	2	267	Shale, boulders -----	16	763
Sand, packed -----	33	300	Shale, pyrite -----	61	824
Lignite -----	3	303	Limestone -----	3	827
Sand, white -----	21	324	Shale, sandy -----	27	854
Pyrite, rock -----	4	328	Shale, sticky -----	32	886
Shale -----	17	345	Limestone -----	2	888
Lignite -----	5	350	Shale, sandy -----	32	920
Sand and shale -----	50	400	Sandstone -----	1	921
Marl, green -----	10	410	Shale, hard -----	30	951
Limestone -----	2	412	Shale, sandy, oil show --	70	1,021
Shale, brown -----	3	415	Shale, sticky -----	29	1,050
Sandstone, lime -----	8	423	Limestone -----	2	1,052
Shale, sandy -----	5	428	Shale, sticky -----	78	1,130
Pyrite, rock -----	1	429	Shale, sandy -----	17	1,147
Shale -----	5	434	Gumbo -----	18	1,165
Limestone -----	1	435	Shale -----	49	1,214
Marl and sand -----	40	475	Gumbo -----	10	1,224
Sandstone -----	2	477	Limestone -----	2	1,226
Marl and sand -----	8	485	Shale, sticky -----	22	1,248
Shale, sticky -----	41	526	Limestone, sandy -----	32	1,280
Sand, green with show of oil -----	4	530	Sandstone -----	40	1,320
Shale -----	11	541	Shale, sticky -----	6	1,326
Sandstone -----	5	546	Sand, hard -----	59	1,385
Sand and shale -----	19	565	Shale, sandy, hard -----	91	1,476
Sandstone -----	3	568	Gumbo -----	49	1,525
Shale, sandy -----	32	600	Shale, sandy -----	15	1,540
Limestone, shell -----	11	611	Shale -----	70	1,610
Shale, sandy -----	11	622	Sand, oil show -----	35	1,645
Limestone -----	2	624	Shale -----	18	1,663
Shale, boulders -----	36	660	Limestone and shale -----	207	1,870
Limestone -----	2	662	Shale and limestone -----	37	1,907
			Chalk, (Austin) -----	265	2,172

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-7-1--continued							
Shale, (Eagle Ford) ----	48	2,220	Limestone (Edwards),				
Limestone (Buda) -----	90	2,310	fresh water -----	126	2,580		
Clay, Grayson shale (Del			Limestone, black first --	14	2,594		
Rio clay) -----	66	2,376	Limestone, brown -----	2	2,596		
Limestone (Georgetown) -	58	2,434	Limestone, flint -----	37	2,633		
Limestone (Edwards) ----	20	2,454					
Well J-7-16							
Owner: Flora H. Briscoe. Driller: Kelfar Oil Co.							
Surface sand and clay --	29	29	Sand and shale -----	20	635		
Sand, hard -----	14	43	Rock -----	45	680		
Clay, sandy -----	35	78	Shale and sand, sand				
Sand, water -----	14	92	coarse -----	5	685		
Sand and clay -----	56	148	Rock -----	8	693		
Rock, hard -----	24	172	Shale, hard -----	7	700		
Sand and clay, clay red	34	206	Rock -----	2	702		
Sand and shale, shale			Shale, hard -----	8	710		
dark -----	79	285	Boulders and shale, shale				
Rock, hard with shale			sticky -----	20	730		
streaks -----	17	302	Shale, sticky -----	53	783		
Shale, brown -----	28	330	Sand, hard -----	12	795		
Rock, hard -----	4	334	Shale, sandy, hard -----	25	820		
Shale, hard, sandy -----	68	402	Shale and lime, lime				
Shale, sandy -----	26	428	broken -----	55	875		
Rock -----	4	432	Shale -----	5	880		
Shale, hard, sandy -----	84	516	Lime -----	62	942		
Rock -----	1	517	Shale -----	8	950		
Shale and lignite -----	6	523	Shale, sticky -----	23	973		
Shale and boulders -----	26	549	Shell and shale -----	41	1,014		
Boulders and shale,			Shale, sticky -----	16	1,030		
shale sticky -----	24	573	Shale, sandy -----	40	1,070		
Rock -----	1	574	Shale and boulders -----	55	1,125		
Shale, sandy -----	3	577	Shale and lime, lime hard	127	1,252		
Rock -----	7	584	Shale with lime streaks -	148	1,400		
Sand and shale -----	6	590	Shale and lime, lime hard	191	1,591		
Shale -----	22	612	Shale, sticky -----	14	1,605		
Rock -----	3	615	Shale, sandy -----	1	1,606		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-7-16--continued							
Shale, sand -----	6	1,612	Lime, hard -----	44	2,137		
Sand and shale, no odor or color -----	5	1,617	Lime, dark -----	44	2,181		
Sand, shale, and lime --	12	1,629	Lime, white -----	26	2,207		
Shale, hard -----	171	1,800	Lime, dark -----	7	2,214		
Shale, sticky -----	25	1,825	Lime, hard -----	52	2,266		
Shale, brittle -----	8	1,833	Lime, gummy -----	4	2,270		
Shale -----	196	2,029	Lime, hard -----	23	2,293		
Shell, hard -----	1	2,030	Lime, broken, with sticky streaks -----	66	2,359		
Sand -----	1	2,031	Lime -----	12	2,371		
Shale, sandy and ash streaks -----	26	2,057	Chalk, very hard -----	17	2,388		
Shale -----	36	2,093	Chalk, hard -----	89	2,477		
			Chalk -----	46	2,523		
Well J-7-20							
Owner: City of Devine. Driller: A. F. Mann.							
Surface sand -----	3	3	Sand, dark -----	117	447		
Sand, reddish -----	52	55	Shale (Navarro) -----	24	471		
Sand, yellow -----	75	130	Sand rock, white, hard --	1	472		
Sand, white -----	47	177	Sand, white, soft -----	59	531		
Sand, rock -----	52	229	Sand rock, white, hard --	4	535		
Sand, white -----	91	320	Sand, white, soft -----	58	593		
Sand, yellow -----	10	330	Shale, sandy -----	20	613		
Well J-7-26							
Owner: W. A. Thompson. Driller: J. R. McCaldin.							
Sand -----	210	210	Shale, brown -----	28	330		
Shale, brown -----	38	248	Rock -----	4	334		
Rock -----	1	249	Shale -----	10	344		
Shale and sand -----	19	268	Gumbo -----	6	350		
Rock -----	2	270	Shale -----	15	365		
Sand -----	16	286	Rock -----	1	366		
Gumbo -----	8	294	Shale -----	4	370		
Rock -----	8	302	Rock -----	2	372		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well J-7-26--continued					
Shale -----	13	385	Lime -----	2	1,117
Rock -----	3	388	Shale -----	5	1,122
Shale -----	7	395	Lime -----	4	1,126
Rock -----	5	400	Shale streaked with lime, sandy with pyrite -----	13	1,139
Shale -----	26	426	Shale and boulders -----	112	1,251
Sand, packed, gas show -	7	433	Rock -----	2	1,253
Rock -----	5	438	Shale and boulders -----	142	1,395
Shale, sandy -----	12	450	Gumbo -----	8	1,403
Gumbo -----	15	465	Shale and boulders -----	167	1,570
Shale -----	40	505	Gumbo -----	15	1,585
Rock -----	6	511	Shale and lime, streaks -	22	1,607
Shale and boulders -----	36	547	Lime -----	13	1,620
Rock -----	1	548	Gumbo -----	10	1,630
Shale -----	7	555	Shale, hard -----	10	1,640
Rock -----	10	565	Shale -----	10	1,650
Shale and sand, streaks	50	615	Gumbo -----	15	1,665
Gumbo -----	49	664	Shale and boulders -----	47	1,712
Shale, gummy and sandy with boulders -----	51	715	Shale, sandy, gas show --	18	1,730
Gumbo -----	15	730	Shale, gummy -----	20	1,750
Shale -----	35	765	Lime, hard -----	14	1,764
Gumbo -----	10	775	Shale and sand, streaks -	72	1,836
Rock -----	4	779	Shale, sandy -----	13	1,849
Shale -----	27	806	Gumbo -----	11	1,860
Rock -----	2	808	Shale -----	65	1,925
Shale -----	48	856	Gumbo -----	50	1,975
Rock -----	5	861	Shale, gummy -----	49	2,024
Gumbo -----	4	865	Shale, sandy and lime streaks -----	30	2,054
Rock -----	7	872	Shale, gummy, with boulders -----	81	2,135
Shale -----	8	880	Lime with gummy streaks -	253	2,388
Shale and lime, lime broken -----	25	905	Lime, hard, chalk (Austin)	222	2,610
Shale -----	49	954	Shale (Eagle Ford) -----	34	2,644
Rock -----	8	962	Limestone (Buda), hard --	146	2,790
Shale -----	23	985	Clay, Grayson shale (Del Rio clay) -----	53	2,843
Gumbo -----	10	995	Limestone (Georgetown) --	65	2,908
Boulders and shale, shale green -----	83	1,078	Limestone (Edwards) -----	104	3,012
Lime -----	1	1,079			
Shale and boulders -----	36	1,115			

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-7-28							
Owner: R. W. Foster. Driller: Edwill Oil Company.							
Top soil -----	3	3	Shale -----	54	904		
Clay and gravel -----	32	35	Shale, gray and boulders	4	908		
Clay, red -----	5	40	Shale, gray, hard -----	94	1,002		
Sand, dry -----	120	160	Rock -----	8	1,010		
Sandstone -----	2	162	Sand, blue -----	2	1,012		
Sand, white -----	8	170	Shale, sticky -----	28	1,040		
Sand, blue -----	31	201	Shale, blue -----	22	1,062		
Sandstone -----	3	204	Shale, gray -----	73	1,135		
Sand, blue, water -----	16	220	Rock -----	80	1,215		
Shale, sandy -----	190	410	Boulders and shale, gray	2	1,217		
Sandstone -----	8	418	Rock -----	359	1,576		
Sand, gray -----	15	433	Shale and boulders -----	5	1,581		
Shale, blue -----	7	440	Shale, gray -----	19	1,600		
Lignite coal -----	6	446	Shale, sandy -----	38	1,638		
Shale, gray -----	14	460	Shale, sticky -----	34	1,672		
Sandstone -----	6	466	Shale -----	29	1,701		
Shale, sticky -----	49	515	Rock -----	11	1,712		
Sand and rock -----	5	520	Shale, gray -----	2	1,714		
Sand, gray -----	15	535	Shale, sandy -----	173	1,887		
Shale, gray -----	15	550	Shale -----	3	1,890		
Rock -----	6	556	Shale, sticky -----	100	1,990		
Sand, gray -----	12	568	No record -----	34	2,024		
Lignite coal -----	7	575	Shale, sandy -----	1	2,025		
Shale, gray -----	125	700	Shale, salt, and sand ---	29	2,054		
Shale -----	14	714	Rock -----	10	2,064		
Shale and serpentine ---	32	746	Chalk -----	176	2,240		
Shale and boulders -----	59	805	Shale -----	20	2,260		
Shale, sand and rock ---	12	817	Limestone (Buda)-----	15	2,275		
Shale, green -----	33	850					
Well J-7-38							
Owner: W. Adams. Driller: J. C. Webster Oil & Gas Co.							
Surface sand -----	4	4	Gravel -----	13	36		
Gravel -----	4	8	Sand, yellow -----	19	55		
Sand, red -----	15	23	Sand, gray -----	20	75		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-7-38--continued							
Sand, white -----	18	93	Marl, sand, and limestone	35	840		
Sand, white, water ----	32	125	Sand, rock, hard -----	4	844		
Sand, hard packed -----	10	135	Marl, sand, shale, and				
Sand, gray, water -----	9	144	limestone -----	57	901		
Sand rock, gray -----	7	151	Shale and boulders -----	19	920		
Sand, gray -----	24	175	Sand rock -----	4	924		
Sand, pack -----	10	185	Shale -----	6	930		
Shale, sand -----	15	200	Lime, shale, and rock ---	3	933		
Sand, white, water ----	56	256	Sand, water -----	9	942		
Rock and sand, rock hard	7	263	Lime, shale, and rock ---	8	950		
Lignite -----	3	266	Sand and shale -----	15	965		
Sand -----	19	285	Lime rock -----	2	967		
Sand rock -----	9	294	Shale, sticky -----	17	984		
Sand boulders -----	22	316	Lime rock -----	5	989		
Rock, hard -----	8	324	Shale -----	23	1,012		
Shale, brown -----	26	350	Lime and shale rock ----	3	1,015		
Rock -----	6	356	Shale, hard -----	5	1,020		
Shale, brown -----	8	364	Lime and sand rock ----	3	1,023		
Pyrite -----	3	367	Shale -----	12	1,035		
Sand, gray -----	12	379	Lime and shale rock ----	3	1,038		
Shale, brown -----	6	385	Shale -----	7	1,045		
Lime rock -----	7	392	Lime rock -----	2	1,047		
Shale, sandy -----	8	400	Shale and boulders -----	9	1,056		
Lime rock -----	2	402	Lime and shale rock ----	3	1,059		
Sand and boulders -----	46	448	Shale, sandy -----	11	1,070		
Pyrite -----	2	450	Shale, gray -----	44	1,114		
Sand, gray -----	21	471	Lime rock -----	4	1,118		
Sand with pyrite -----	5	476	Shale, sticky -----	6	1,124		
Sand and boulders -----	64	540	Pyrite -----	2	1,126		
Lignite -----	3	543	Shale and boulders -----	10	1,136		
Sand rock -----	79	622	Lime rock -----	3	1,139		
Pyrite -----	6	628	Shale and boulders -----	11	1,150		
Sand and boulders, sand			Lime rock -----	3	1,153		
gray, water -----	58	686	Shale -----	10	1,163		
Gumbo -----	12	698	Shale, rock, and boulders	81	1,244		
Sand and shale -----	17	715	Shale, gray -----	62	1,306		
Pyrite rock -----	3	718	Shale, rock, and boulders	49	1,355		
Shale and boulders -----	15	733	Gumbo -----	55	1,410		
Shale with pyrite -----	5	738	Shale and boulders -----	50	1,460		
Shale and boulders -----	19	757	Lime rock -----	1	1,461		
Shale -----	48	805	Gumbo and shale, streaks	74	1,535		

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well J-7-38--continued			
Rock -----	1 1,536	Shale, sandy -----	20 2,160
Shale, sticky -----	34 1,570	Shale, oil -----	0.5 2,160.50
Shale, oil show -----	12 1,582	Shale, sandy -----	19.5 2,180
Gumbo -----	23 1,605	Shale, sticky -----	32 2,212
Shale, sandy, gas and oil odor -----	7 1,612	Lime (Anacacho) -----	68 2,280
Shale, streaks -----	35 1,667	Lime, hard -----	14 2,294
Lime, sandy -----	14 1,681	Lime, hard streaks and shale, sticky -----	146 2,440
Gumbo -----	61 1,742	Shale, hard, gas odor ---	10 2,450
Sand, hard, no odor ---	13 1,755	Shale and lime, hard ---	40 2,490
Hard cap -----	1 1,756	Chalk (Austin) top -----	10 2,500
Sand -----	4 1,760	Chalk (Austin) with glauconite, gas and oil, odor strong -----	26 2,526
Sand, salt taste -----	22 1,782	Chalk (Austin) with pyrite and flint -----	208 2,734
Gumbo -----	53 1,835	Shale (Eagle Ford), oil odor -----	57 2,791
Sand rock -----	1 1,836	Lime (Buda), oil show ---	24 2,815
Sand, salt water -----	4 1,840	Lime (Buda) -----	67 2,882
Sand and shale rock ---	2 1,842	Pyrite, solid -----	52 2,934
Sand, hard -----	2 1,844	Clay, Grayson shale (Del Rio clay) -----	5 2,939
Sand and shale streaks -	4 1,848	Lime (Georgetown) -----	69 3,008
Shale, sandy -----	32 1,880	Dobie -----	20 3,028
Sand, dry -----	14 1,894	Lime (Edwards) -----	45 3,073
Shale, sandy -----	18 1,912	Limestone (Edwards) crevice dry -----	1 3,074
Lime rock -----	1 1,913		
Shale, sandy -----	15 1,928		
Gumbo -----	44 1,972		
Shale -----	23 1,995		
Gumbo -----	85 2,080		
Shale, hard -----	18 2,098		
Shale, sticky -----	42 2,140		

Well J-7-40

Owner: W. Adams. Driller: Donaldson Oil Company.

Surface sand -----	7	7	Sand, packed -----	33	128
Sand rock, soft -----	3	10	Sand, green -----	28	156
Sand, thin layers of clay	40	50	Rock, sand -----	4	160
Sand, red -----	25	75	Sand, layered -----	34	194
Sand, white -----	20	95	Shale, red, sandy -----	12	206

(Continued on next page)

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-7-40--continued							
Rock, hard -----	5	211	Gumbo -----	15	1,599		
Boulders, shale -----	26	237	Gumbo and shale, layered	79	1,678		
Rock -----	2	239	Lime, broken, green sand,				
Gumbo and lignite streaks	14	253	gas -----	17	1,695		
Sand, green, lignite ----	37	290	Shale -----	15	1,710		
Rock -----	2	292	Shale, streaks, gumbo,				
Boulders and sand, green	109	401	oil show -----	82	1,792		
Rock -----	5	406	Lime rock -----	2	1,794		
Boulders and sand, green	247	653	Sand, green -----	2	1,796		
Shale, gummy -----	37	690	Sand, streaks of shale --	44	1,840		
Rock -----	5	695	Gumbo, thin streaks of				
Sand, green, shale			sand -----	25	1,865		
streaks -----	55	750	Lime rock -----	3	1,868		
Rock, pyrite -----	1	751	Gumbo, streaks of sand,				
Sand, green -----	59	810	green -----	25	1,893		
Rock -----	63	873	Lime rock -----	1	1,894		
Shale, lignite -----	10	883	Sand, green -----	5	1,899		
Sand and boulders -----	16	899	Sand, streaks of gumbo --	19	1,918		
Rocky pyrite -----	5	904	Gumbo rock, sand layered	79	1,997		
Boulders, gummy shale --	96	1,000	Gumbo -----	23	2,020		
Gummy, tough blue -----	11	1,011	Sand and shale, thin				
Gumbo, streaks of shale	18	1,029	streaks, strong gas ---	43	2,063		
Rock -----	4	1,033	Gumbo -----	17	2,080		
Shale and shells -----	15	1,048	Limestone -----	180	2,260		
Rock -----	1	1,049	Sand, hard with shale				
Sand rock -----	82	1,131	streaks, oil show ----	270	2,530		
Shale and shells -----	143	1,274	Chalk (Austin), oil show	265	2,795		
Gumbo -----	30	1,304	Shale (Eagle Ford) -----	55	2,850		
Shale, sandy -----	5	1,309	Limestone (Buda) -----	70	2,920		
Gumbo -----	18	1,327	Clay, Grayson shale (Del				
Rock -----	3	1,330	Rio clay) -----	52	2,972		
Gumbo, shale, layers of			Limestone (Georgetown) --	36	3,008		
lime -----	253	1,583	Limestone (Edwards) -----	117	3,125		
Rock -----	1	1,584					

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-7-48							
Owner: W. McMenery. Driller: W. C. Campbell.							
Rock and pyrite -----	914	914	Shale, sticky, few				
Shale -----	11	925	boulders -----	132	1,985		
Sand, hard -----	16	941	Shale, hard -----	25	2,010		
Shale -----	17	958	Shale, sticky -----	60	2,070		
Shale and sand, hard ---	80	1,038	Sand -----	17	2,087		
Lime, hard -----	2	1,039	Sand, hard -----	18	2,105		
Shale -----	7	1,046	Sand -----	35	2,140		
Lime, hard -----	2	1,048	Sand and lime, lime hard	43	2,183		
Shale, hard -----	4	1,052	Shale, hard, sticky and				
Shale, sandy -----	108	1,160	streaks of sandy shale	65	2,248		
Sand, green -----	30	1,190	Shale, sticky and sandy -	146	2,394		
Shale, sandy -----	22	1,212	Shale and lime, shale				
Lime and boulders -----	14	1,226	sticky, lime sandy ----	141	2,535		
Shale, lime, and boulders	34	1,260	Limestone -----	45	2,580		
Shale bed -----	10	1,270	Lime, hard -----	5	2,585		
Shale with hard boulders	6	1,276	Lime, hard, broken -----	31	2,616		
Shale and boulders -----	57	1,333	Lime, broken -----	22	2,638		
Shale, lime and shells -	122	1,455	Shale and limestone -----	35	2,673		
Limestone -----	7	1,462	Lime, broken -----	18	2,691		
Shale and boulders -----	222	1,684	Shale and lime, sticky				
Shale, hard -----	56	1,740	and broken -----	56	2,747		
Shale, sticky -----	47	1,787	Lime, broken -----	70	2,817		
Shale -----	66	1,853	Chalk (Austin) -----	81	2,898		
Well J-7-52							
Owner: Mary Blatz. Driller: Lewis Production Co.							
Surface soil -----	10	10	Boulders, shale, sandy---	117	967		
Clay -----	5	15	Shale and sand, shale				
Sand -----	325	340	sandy, sand hard, rock				
Shale -----	5	345	streaks -----	151	1,118		
Sand, rock, hard -----	1	346	Sand and shale -----	263	1,381		
Shale -----	8	354	Boulder, hard sandy shale	132	1,513		
Rock -----	3	357	Shale -----	17	1,530		
Shale -----	33	390	Shale, sandy -----	75	1,605		
Shale, sandy -----	460	850	Shale, sandy with shells	19	1,624		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-7-52--continued							
Shale, sandy -----	96	1,720	Boulders, sand and shale	30	2,210		
Shale -----	140	1,860	Shale, sandy -----	40	2,250		
Shale, sandy -----	121	1,981	Shale, hard -----	208	2,458		
Sand, oil -----	2	1,983	Shale -----	22	2,480		
Sand, hard -----	2	1,985	Marl, hard -----	33	2,513		
Sand, shaley -----	2	1,987	Lime and marl, marl hard	130	2,643		
Sand, no odor -----	3	1,990	Lime -----	62	2,705		
Shale -----	5	1,995	Lime and shale, shale				
Shale, sandy -----	8	2,003	hard -----	67	2,772		
Shale -----	16	2,019	Lime chalk, hard -----	3	2,775		
Shale and sand -----	40	2,059	Lime chalk -----	131	2,906		
Sand, oil show -----	8	2,067	Shale -----	94	3,000		
Shale, sandy -----	15	2,082	Shale (Eagle Ford) -----	25	3,025		
Shale -----	26	2,108	Limestone (Buda) -----	62	3,087		
Sand, oil -----	4	2,112	Shale, Grayson shale,				
Sandstone, hard -----	2	2,114	(Del Rio clay) -----	88	2,175		
Sand and shale -----	40	2,154	Limestone (Georgetown) --	52	3,227		
Shale, sandy -----	26	2,180	Limestone (Edwards) -----	11	3,238		
Well J-7-62							
Owner: I. & G. N. RR.							
Clay -----	18	18	Gumbo -----	69	449		
Sand, gravel, and clay -	91	109	Sandstone -----	29	478		
Sandstone -----	7	116	Gumbo -----	17	495		
Clay -----	6	122	Sandstone -----	9	504		
Sandstone with pyrite --	2	124	Gumbo -----	38	542		
Sand and gravel -----	8	132	Sandstone -----	8	550		
Soapstone -----	2	134	Gumbo -----	51	601		
Gumbo -----	33	167	Shale -----	22	623		
Sand with pyrite -----	5	172	Sandstone -----	2	625		
Sand, packed -----	37	209	Gumbo and boulders -----	37	662		
Gumbo and boulders -----	48	257	Gumbo -----	71	733		
Sandstone, soft -----	52	309	Sandstone -----	25	758		
Gumbo and boulders -----	7	316	Shale -----	31	789		
Sand, packed -----	10	326	Gumbo -----	15	804		
Gumbo and boulders -----	42	368	Limestone -----	7	811		
Sand -----	12	380	Sand and boulders -----	11	822		
(Continued on next page)							

Drillers' logs of wells in Medina County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well J-7-62--continued							
Limestone -----		7	829	Gumbo -----		616	1,864
Gumbo -----		6	835	Shale, lime and boulders		50	1,914
Sand -----		7	842	Gumbo -----		88	2,002
Shale -----		6	848	Sand and shale -----		40	2,042
Gumbo and boulders -----		72	920	Lime and shale -----		33	2,075
Limestone -----		6	926	Shale, gummy -----		10	2,085
Gumbo and boulders -----		62	988	Gumbo -----		6	2,091
Limestone -----		4	992	Limestone -----		4	2,095
Gumbo and boulders -----		48	1,040	Shale, hard -----		18	2,113
Shale and boulders -----		14	1,054	Shale, lime and boulders		37	2,150
Gumbo and boulders -----		49	1,103	Shale, hard -----		10	2,160
Shale and boulders -----		31	1,134	Sand -----		27	2,187
Shale -----		9	1,143	Shale -----		5	2,192
Gumbo -----		81	1,224	Sand -----		8	2,200
Limestone -----		2	1,226	Shale and boulders -----		187	2,387
Gumbo and boulders and lime -----		22	1,248	Chalk (Austin) -----		66	2,453
Well J-8-3							
Owner: W. S. Lilly. Driller: Gilcrease Oil Co.							
Sand -----		33	33	Shale, sticky -----		57	1,891
Sand and shale, sandy --		267	300	Shale, sandy, hard -----		49	1,940
Sand -----		40	340	Sand -----		56	1,996
Shale, sandy -----		25	365	Sand and shale -----		20	2,016
Shale and boulders, shale sandy -----		75	440	Sand -----		34	2,050
Shale, sandy -----		335	775	Shale -----		50	2,100
Shale and boulders, shale sandy -----		372	1,147	Shale, hard -----		5	2,105
Rock, hard -----		8	1,155	Shale, hard, broken -----		44	2,149
Shale, sandy -----		15	1,170	Shale, hard -----		61	2,210
Boulders -----		25	1,195	Shale, sandy -----		69	2,279
Shale, sandy -----		49	1,244	Shale, hard -----		66	2,345
Rock, hard -----		3	1,247	Rock, hard -----		5	2,350
Shale, sandy, hard -----		15	1,262	Lime -----		263	2,613
Rock, hard -----		1	1,263	Shale and lime -----		51	2,664
Shale, sandy -----		2	1,265	Shale and lime, sticky --		48	2,712
Shale, sandy, hard streaks		250	1,515	Chalk -----		15	2,727
Shale -----		25	1,540	Shale -----		343	3,070
Shale, sand, hard streaks		35	1,575	Limestone (Buda) -----		15	3,085
Shale, sandy -----		251	1,826	Clay, Grayson shale (Del Rio clay) -----		66	3,151
Shale -----		8	1,834	Limestone (Georgetown) --		64	3,215
				Limestone (Edwards) -----		4	3,219

Drillers' logs of wells in Bexar County, Tex.

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 9							
Owner: Dan Danvers. Driller: J. R. Johnson.							
Soil-----	1	1	Grayson shale (Del				
Chalk, hard yellow -----	132	133	Rio clay) -----	58	200		
Buda limestone -----	9	142	Edwards limestone: a/				
			Limestone -----	9	209		
Well 21							
Owner: City of San Antonio. Driller: John Crowder.							
Soil -----	2	2	Limestone, porous, water	3	497		
Clay, yellow -----	80	82	Limestone, hard -----	6	503		
Shale, blue -----	78	160	Limestone, porous, water	4	507		
Clay, yellow -----	10	170	Limestone, hard -----	6	513		
Marl, hard -----	45	215	Crevice, water -----	2	515		
Chalk -----	40	255	Limestone -----	6	521		
Shale -----	10	265	Limestone, porous, water	2	523		
Limestone -----	30	295	Limestone -----	4	527		
Grayson shale (Del Rio			Limestone, porous, water	2	529		
clay) -----	55	350	Limestone -----	2	531		
Edwards limestone:			Limestone, porous, water	5	536		
Limestone -----	26	376	Limestone, hard, sandy -	4	540		
Limestone, porous, water	3	379	Limestone, gray -----	25	565		
Limestone, hard, white--	29	408	Limestone, soft white --	30	595		
Limestone, gray -----	42	450	Limestone, hard,				
Limestone, hard sandy --	20	470	splinters -----	24	619		
Limestone, porous, water	10	480	Limestone, porous, water	6	625		
Limestone, hard sandy --	14	494	Limestone, hard, gray --	25	650		

a/ Edwards limestone as used in driller's logs generally includes Georgetown and Comanche Peak limestones. In this report the three formations are referred to as the "Edwards and associated limestones".

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 23							
Owner: C. G. Hamil. Driller: J. R. Johnson.							
Surface -----	2	2	Shale (lignite) -----	20	546		
Gravel, yellow -----	13	15	Limestone -----	62	608		
Clay, yellow -----	21	36	Grayson shale (Del Rio				
Clay, soft blue -----	58	94	clay) -----	56	664		
Marl, hard, grayish-blue--	180	274	Edwards limestone:				
Chalk -----	252	526	Limestone -----	96	760		
Well 24							
Owner: W. B. Osborn. Driller: J. R. Johnson.							
Soil -----	3	3	Limestone -----	44	558		
Clay, yellow -----	46	49	Grayson shale (Del Rio				
Clay, brown -----	4	53	clay) -----	61	619		
Clay -----	143	196	Edwards limestone:				
Chalk -----	288	484	Limestone -----	85	704		
Shale (lignite) -----	30	514					
Well 26							
Owner: Ed Steves and Sons. Driller: Dingman Drilling Co.							
Soil, black -----	4	4	Grayson shale (Del Rio				
Clay, joint -----	19	23	clay) -----	45	660		
Clay, yellow -----	35	58	Edwards limestone:				
Clay, blue and boulders --	16	74	Limestone, light brown				
Gumbo, sticky -----	24	98	colored -----	30	690		
Shale, blue -----	22	120	Limestone, white -----	18	708		
Shale, gray -----	30	150	Limestone, porous or				
Gumbo -----	21	171	honeycomb -----	3	711		
Shale, hard, gray -----	25	196	Limestone, soft, some				
Shale, blue -----	44	240	water -----	39	750		
Shale, hard, gray -----	188	428	Limestone, porous or				
Shale, hard, gray, chalky-	107	535	honeycomb, water ----	2	752		
Lignite -----	20	555	Limestone, soft, some				
Limestone -----	50	605	water -----	4	756		
Limestone, hard, smooth,							
blue -----	10	615					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 28							
Owner: City of San Antonio. Driller: Judson Bros.							
Mud and soil -----	12	12	Rock, hard, yellow -----	28	144		
Rock -----	9	21	Rock, hard, white -----	5	149		
Rock, yellow -----	44	65	Rock, hard, gray -----	24	173		
Rock, blue -----	8	73	Grayson shale (Del Rio				
Rock, yellow -----	9	82	clay) -- -----	61	234		
Rock, brown -----	5	87	Edwards limestone:				
Rock, blue -----	9	96	Rock, very hard, yellow,				
Rock, yellow -----	5	101	water; some flint to				
Lignite, brown -----	15	116	bottom of well -----	468	702		
Well 32							
Owner: St. Anthony Apostolic School. Driller: J. R. Johnson.							
Soil -----	1	1	Limestone, white -----	47	205		
Chalk -----	90	91	Grayson shale (Del Rio				
Chalk, broken, pink -----	17	108	clay) -----	49	254		
Chalk, blue -----	10	118	Edwards limestone:				
Shale (lignite) -----	40	158	Limestone -----	128	382		
Well 33							
Owner: City of San Antonio. Driller: Layne-Texas Co., Ltd.							
Soil -----	7	7	Shale (lignite) -----	16	300		
Clay -----	2	9	Limestone, hard, white ----	48	348		
Clay and gravel -----	2	11	Limestone, hard -----	14	362		
Rock -----	18	29	Limestone, dark -----	16	378		
Shale, hard, sticky -----	9	38	Grayson shale (Del Rio				
Rock -----	17	55	clay) -----	41	419		
Shale, tough blue and rock-	16	71	Edwards limestone:				
Shale, rock -----	67	138	Limestone, yellow -----	14	433		
No record -----	20	158	Limestone, hard -----	14	447		
Rock -----	54	212	Limestone, hard, white --	16	463		
Chalk, hard -----	68	280	Limestone, rock -----	1	464		
Rock -----	4	284	Limestone, hard -----	39	503		

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Drillers' logs of wells in Bexar County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 33 -- Continued					
Limestone and sand -----	10	513	Limestone, soft -----	5	593
Limestone, hard -----	51	564	Limestone, hard -----	19	612
Limestone and sand -----	11	575	No record -----	86	698
Limestone, crystalline ----	1	576	Limestone -----	41	739
Limestone, hard -----	4	580	No record -----	26	765
Limestone, sandy -----	5	585	Limestone -----	86	851
Limestone, hard -----	3	588			
Well 37					
Owner: City of San Antonio. Driller: J. R. Johnson.					
Soil -----	3	3	Shale (lignite) -----	24	410
Clay, yellow -----	71	74	Limestone -----	48	458
Clay -----	101	175	Grayson shale (Del Rio		
Sand, gray -----	3	178	clay) -----	47	505
Marl, hard -----	58	236	Edwards limestone:		
Marl -----	65	301	Limestone -----	489	994
Marl, hard; fossils -----	5	306	No record -----	210	1,204
Chalk -----	80	386			
Well 38					
Owner: O. O. Bachtel. Driller: Max Gerfers.					
Soil -----	3	3	Limestone -----	57	436
Clay, yellow -----	36	39	Grayson shale (Del Rio		
Limestone -----	171	210	clay) -----	76	512
Chalk -----	138	348	Edwards limestone:		
Shale (lignite) -----	31	379	Limestone -----	12	524

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 44				
Owner: Lakeview Addition well 2.				
Gravel and yellow clay ----	60	60	Grayson shale (Del Rio clay) -----	52 672
Shale -----	330	390	Edwards limestone:	
Limestone, soft, white ----	138	528	Limestone, light brown -	28 700
Shale (lignite) -----	32	560	Limestone, white to gray	300 1,000
Limestone, hard, white ----	60	620		
Well 46				
Owner: Richard Dullnig. Driller: Fred Burkett Co.				
Soil -----	4	4	Shale, blue -----	147 320
Adobe and yellow clay ----	1	5	Rock -----	1 321
Clay, yellow -----	20	25	Shale, blue -----	379 700
Gravel -----	2	27	Shale, chalky -----	160 860
Clay, yellow -----	2	29	Lignite -----	1 861
Gravel -----	1	30	Limestone -----	24 885
Clay, yellow -----	42	72	Grayson shale (Del Rio clay) -----	20 905
Shale, blue -----	100	172	Edwards limestone:	
Rock -----	1	173	Limestone -----	60 965
Well 49				
Owner: A. Herff				
Clay and gravel -----	31	31	Limestone, gray -----	81 1,050
Clay, yellow -----	50	81	Grayson shale (Del Rio clay) -----	60 1,110
Clay, blue -----	540	621	Edwards limestone:	
Limestone, magnesium -----	160	781	Limestone, brown -----	30 1,140
Limestone, blue -----	30	811	Limestone, porous -----	146 1,286
Limestone, white -----	140	951		
Lignite -----	18	969		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 50							
Owner: Lady of the Lake College. Driller: J. W. Judson.							
Soil, black -----	8	8	Grayson shale (Del Rio				
Gravel -----	10	18	clay) -----	50	1,104		
Clay, yellow -----	43	61	Edwards limestone:				
Clay, blue -----	589	650	Limestone, blue -----	22	1,126		
Limestone, dark gray -----	40	690	Flint lime -----	64	1,190		
Limestone, dark blue -----	300	990	Sandstone, brown and				
Lignite -----	12	1,002	gray -----	36	1,226		
Limestone, hard, white ----	52	1,054	Cavities -----	144	1,370		
			Bottom -----	10	1,380		
Well 51							
Owner: Chas. Matyear. Driller: Alex Lorenz.							
Soil, black -----	4	4	Lignite, black -----	60	409		
Clay, yellow -----	27	31	Rock -----	32	441		
Clay, soft, blue -----	12	43	Grayson shale (Del Rio				
Streaks, hard -----	144	187	clay) -----	53	494		
Sand, black, and rock -----	3	190	Edwards limestone:				
Limestone, hard -----	91	281	Sand rock, soft dark ----	28	522		
Lignite, black -----	10	291	Granite -----	64	586		
Rock -----	58	349	Sand rock, water -----	5	591		
Well 58							
Owner: Mrs. L. M. Hubble. Driller: L. M. Hubble.							
Soil -----	8	8	Grayson shale (Del Rio				
Gravel and clay -----	8	16	clay) -----	255	470		
Clay, blue -----	194	210	Edwards limestone:				
Rock -----	3	213	Rock, blue speckled -----	20	490		
Shale, black rock -----	2	215	Cave -----	8	498		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 62							
Owner: City of San Antonio. Driller: J. R. Johnson							
Clay and gravel, boulders -	27	27	Grayson shale (Del Rio				
Clay -----	442	469	clay) -----	52	942		
Marl -----	188	657	Edwards limestone:				
Shale (lignite) -----	179	836	Limestone -----	271	1,213		
Limestone -----	54	890					
Well 64							
Owner: Southern-Henke Ice Co. Driller: J. P. Benkendorfer.							
Pebbles, soft -----	5	5	Clay, white -----	9	566		
Pebbles, hard -----	3	8	No record -----	19	585		
Clay, yellow -----	40	48	Coal -----	15	600		
Clay, brown -----	112	160	Limestone, white -----	50	650		
Clay, light brown -----	100	260	Grayson shale (Del Rio				
Magnesium rock -----	125	385	clay) -----	61	711		
Limestone, sulphur water --	135	520	Edwards limestone:				
Limestone, white -----	37	557	Limestone -----	200	911		
Well 65							
Owner: International and Great Northern Ry.							
Soil -----	10	10	Gumbo, dark -----	138	228		
Clay, white -----	4	14	Chalk -----	428	656		
Clay, yellow -----	6	20	Grayson shale (Del Rio				
Gravel -----	4	24	clay) -----	55	711		
Clay, yellow -----	66	90	Limestone with flint ---	528	1,239		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 80							
Owner: U. S. Government. Driller: -- Judson.							
Loam, blue and flint boulders -----	3	3	Limestone, gray -----	54	620		
Clay, yellow -----	38	41	Grayson shale (Del Rio clay) -----	53	673		
Clay, blue -----	217	258	Edwards limestone:				
Magnesium limestone, water-	96	354	Limestone, blue -----	15	688		
Limestone, gray, sulphur			Limestone, hard yellow -	18	706		
water -----	38	392	Limestone, calcareous,				
Limestone, hard gray -----	37	429	with water -----	2	708		
Limestone, yellow -----	39	468	Cavity, open -----	5	713		
Limestone, gray -----	67	535	Limestone, hard, with				
Lignite -----	31	566	fissures filled with clay	16	729		
Well 82							
Owner: Slater-White Laundry. Driller: Dingman Drilling Co.							
Soil and gravel -----	8	8	Limestone, hard brown --	29	710		
Caliche -----	12	20	Limestone, white, a				
Gravel -----	5	25	little water -----	17	727		
Clay, yellow -----	7	32	Limestone, soft, broken-	9	736		
Clay, blue -----	10	42	Limestone, hard, brown -	4	740		
Rock -----	3	45	Limestone, soft broken,				
Clay, blue -----	22	67	a little water -----	4	744		
Shale -----	100	167	Limestone, hard brown,				
Shale, hard gray, sulphur			a little water -----	4	748		
water -----	22	189	Limestone, soft broken,				
Shale, gray, chalky -----	166	355	a little water -----	4	752		
Chalk rock -----	150	505	Limestone, hard, broken				
Lignite -----	32	537	brown -----	4	756		
Limestone -----	56	593	Limestone, very hard				
Grayson shale (Del Rio			white -----	11	767		
clay) hard with pyrites			Limestone, porous honey-				
and boulders -----	53	646	comb, good water, lost				
Edwards limestone:			some record -----	2	769		
Limestone -----	35	681	Limestone, hard white --	2	771		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 82 -- Continued							
Limestone, porous with 6- inch cavity at 776 feet	16	787	Limestone, very hard ---	6	826		
Flint, hard -----	2	789	Limestone, soft porous honeycomb with several cavities of from 4 to 10 inches from depth of 843 to 851 feet ---	27	853		
Honeycomb and porous limestone, good water strata -----	31	820					
Well 98							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil and gravel -----	34	34	Grayson shale (Del Rio clay) -----	55	655		
Clay, yellow and boulders -	43	77	Georgetown limestone, very hard -----	15	670		
Sand of Navarro group -----	246	323	Edwards limestone, hard --	79	749		
Taylor marl -----	47	370	(No. 1 crevice 681 to 686 feet; broken between 686 and 740 feet.)				
Austin chalk -----	80	450					
Lignite -----	90	540					
Buda limestone, white, hard -----	60	600					
Well 117							
Owner: St. Anthony Hotel. Driller: J. R. Johnson.							
Hotel basement -----	16	16	Shale (lignite) -----	26	581		
Gravel, yellow -----	16	32	Limestone -----	68	640		
Clay, yellow -----	30	62	Grayson shale (Del Rio clay) -----	38	687		
Clay -----	165	227	Edwards limestone:				
Marl -----	174	401	Limestone -----	118	805		
Chalk -----	154	555					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 120							
Owner: U. S. Postoffice. Driller: Burkett Bros.							
Fill -----	7	7	Flint, brown and limestone -----	24	757		
Gravel -----	7	14	Limestone, yellow -----	10	767		
Gravel, cemented -----	4	18	Limestone, brown and flint -----	150	917		
Clay, yellow -----	32	50	Limestone, gray -----	50	967		
Shale, blue -----	23	73	Limestone, white and gray flint -----	70	1,037		
Rock -----	1	74	Limestone, white and brown flint -----	18	1,055		
Shale, blue -----	43	117	Limestone, gray and gray flint -----	45	1,100		
Rock -----	6	123	Limestone, white and brown flint -----	15	1,115		
Shale, blue -----	58	181	Limestone, white and gray flint -----	22	1,137		
Rock -----	1	182	Limestone, brown and flint -----	13	1,150		
Shale, blue -----	60	242	Limestone, white and gray flint -----	9	1,159		
Shale, blue, with thin rock ledges -----	110	352					
Chalk -----	40	392					
Chalk with gas and sulphur water -----	30	422					
Chalk -----	127	549					
Shale -----	28	577					
Limestone -----	60	637					
Grayson shale (Del Rio clay) -----	50	687					
Edwards limestone: Limestone, white -----	46	733					
Well 122							
Owner: Nix Professional Building. Driller: Dingman Drilling Co.							
Soil -----	4	4	Limestone, hard -----	148	565		
Clay, chalky and gravel ---	10	14	Shale, brown and lignite -	28	593		
Clay, yellow -----	16	30	Limestone, hard white ----	47	640		
Clay, blue -----	50	80	Limestone, hard blue -----	9	649		
Shale, hard blue -----	68	148	Grayson shale (Del Rio clay) -----	48	697		
Gumbo -----	2	150	Edwards limestone: Limestone, hard gray ---	19	716		
Shale, hard gray -----	51	201	Limestone, brown -----	19	735		
Limestone, broken -----	8	209	Limestone, gray -----	3	738		
Shale, gray and limestone with soft and hard streaks	208	417					

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Drillers' logs of wells in Bexar County -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well 122 -- Continued							
Edwards limestone - continued:				Limestone, coarse, gray-	15	855	
Limestone, yellow honey-				Limestone, porous -----	4	859	
comb, water -----	1	739		Limestone, coarse, brown	16	875	
Limestone, gray -----	11	750		Limestone, soft -----	20	895	
Limestone, porous, water-	2	752		Limestone, brown -----	15	910	
Limestone, hard gray ----	11	763		Limestone, porous, gray-	5	915	
Limestone, porous				Limestone, brown -----	13	928	
crystalized, water ----	12	775		Limestone, blue -----	22	950	
Limestone, gray -----	5	780		Limestone, hard, gray --	36	986	
Limestone, white -----	3	783		Limestone, rough,			
Limestone, porous, water-	5	788		yellowish-gray, with			
Limestone, gray -----	16	804		hard and soft spots --	51	1,037	
Limestone, brown -----	17	821		Limestone, hard, white			
Limestone, fine, gray ---	19	840		magnesium -----	6	1,043	
Well 126							
Owner: Joske Bros. Co. Driller: Dingman Drilling Co.							
Soil -----	4	4	Chalk, gray -----	66	628		
Clay, soft, with sand ----	10	14	Shale (lignite) -----	23	651		
Gravel -----	15	29	Limestone -----	51	702		
Clay, yellow -----	9	38	Grayson shale (Del Rio				
Clay, hard blue, and shale-	121	159	clay) -----	55	757		
Gumbo, hard blue -----	51	210	Edwards limestone:				
Limestone -----	4	214	Limestone -----	41	798		
Shale, soft, sandy -----	9	223	Limestone, hard -----	2	800		
Shale, hard, gray -----	11	234	Limestone, soft, with				
Limestone -----	2	236	rough spots -----	2	802		
Shale, soft -----	4	240	Limestone, hard, brown -	9	811		
Limestone, hard -----	74	314	Limestone, soft, white -	30	841		
Limestone, hard streaks,			Limestone, very soft,				
broken in gray shale ----	126	440	porous, water -----	1	842		
Chalk with streaks of			Limestone, white -----	25	867		
gray shale -----	44	484	Limestone, soft porous -	2	869		
Chalk, soft -----	8	492	Limestone, hard -----	1	870		
Chalk, hard gray -----	48	540	Limestone, soft porous -	2	872		
Chalk, light brown -----	22	562	Limestone, hard -----	3	875		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 126 -- Continued							
Edwards limestone - continued				Limestone, very hard ---			
Limestone, white -----	3	878	Cavity -----	8	932		
Limestone, soft -----	1	879	Limestone, porous -----	3	943		
Limestone, white -----	4	883	Limestone, hard, brown -	2	945		
Limestone, tan -----	6	889	Cavity -----	1	946		
Limestone, brown, rough -	29	918	Limestone, porous, hard-	7	953		
Limestone, very hard ----	1	919	Cavity -----	1	954		
Limestone, porous -----	8	927	Limestone, soft -----	3	957		
Limestone, very hard ----	1	928	Cavity -----	1	958		
Cavity -----	1	929	Limestone, soft, white				
Limestone, soft, porous -	2	931	magnesium -----	6	964		
Well 140							
Owner: City of San Antonio. Driller: Dingman Drilling Co.							
Rotary table to ground ----	5	5	Shale, hard, gray limey --	72	496		
Surface of ground to base-			Shale -----	16	512		
ment floor -----	17	22	Limestone, porous, sulfur				
Mud, soft -----	10	32	water -----	3	515		
Gravel, loose -----	6	38	Limestone, hard gray ----	79	594		
Sand and gravel -----	9	47	Limestone, porous, sulfur				
Rock, hard, shell -----	1	48	water -----	7	601		
Shale, blue -----	36	84	Limestone, hard gray ----	32	633		
Rock, hard, shale -----	3	87	Shale, brown, with lignite	9	642		
Shale, blue -----	13	100	Shale, hard brown -----	5	647		
Shale, gray -----	22	122	Shale, brown -----	15	662		
Shale, black -----	57	179	Limestone, gray -----	55	717		
Rock, hard -----	6	185	Limestone, hard white ----	4	721		
Shale, gray -----	1	186	Grayson shale (Del Rio				
Rock, hard -----	3	189	clay) -----	55	776		
Shale, blue -----	10	199	Edwards limestone:				
Rock -----	2	201	Limestone, gray -----	3	779		
Shale, very hard, gray			Limestone, hard, gray --	28	807		
chalky -----	114	315	Limestone, yellow, porous,				
Rock, chalk -----	17	332	honeycomb, some water-	2	809		
Shale, dark gray, limey with			Lime, hard gray -----	17	826		
hard and soft streaks ---	68	400	Crevice, water -----	1	827		
Limestone, broken -----	24	424	Limestone, hard, gray --	5	832		

(Continued on next page)

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 140 -- Continued							
Edwards limestone -- continued:							
Limestone, honeycomb crystallized, water ---	23	855	Limestone, gray -----	1	882		
Sandstone, gray -----	9	864	Limestone, soft, honey- combed, crystallized, water -----	1	883		
Limestone, soft, porous with cavities, water --	3	867	Limestone, hard, gray --	9	892		
Sandstone, gray -----	5	872	Limestone, honeycombed, crystallized, with crevices, water -----	8	900		
Limestone, hard, gray ---	2	874	Limestone, hard, gray --	13	913		
Limestone, soft, honey- combed, crystallized, water -----	7	881					
Well 144							
Owner: Alamo National Bank. Driller: Dingman Drilling Co.							
Basement -----	14	14	Limestone, hard, black -	9	753		
Clay, yellow -----	14	28	Limestone, hard, yellow-	27	780		
Caliche and gravel -----	12	40	Limestone, white -----	25	805		
Clay, hard, blue -----	21	61	Limestone, white, sandy, water -----	15	820		
Shale, hard, blue, sandy --	99	160	Limestone, brown -----	14	834		
Shale, hard, gray, with some rock -----	141	301	Limestone, white -----	21	855		
Limestone, hard -----	17	318	Limestone, porous, water	2	857		
Shale, hard, gray -----	150	468	Limestone, yellow with soft spots, water ----	55	912		
Limestone, hard, brown ----	117	585	Limestone, soft, water -	4	916		
Shale, hard, brown (lignite)	21	606	Limestone, brown -----	14	930		
Limestone, hard -----	62	668	Limestone, yellow, water	10	940		
Grayson shale (Del Rio clay) -----	51	719	Limestone, blue -----	18	958		
Edwards limestone:			Limestone, porous, water	1	959		
Limestone, bluish-gray --	21	741	Limestone, blue -----	9	968		
Limestone, soft, gray ---	4	744					

Drillers' logs of wells in Bexar County -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well 148							
Owner: U. S. Government (arsenal). Driller: J. P. Benkendorfer.							
Soil -----	3	3	Limestone, soft, gray ----	58	618		
Hardpan, yellow -----	15	18	Lignite, soft, black ----	27	645		
Gravel, hard, brown -----	13	31	Limestone, soft, gray ----	58	703		
Clay, soft, yellow -----	18	49	Grayson shale (Del Rio				
Clay, soft, blue -----	126	175	clay) -----	53	756		
Clay, soft, light -----	129	304	Edwards limestone:				
Chalk, soft, light -----	114	418	Limestone -----	59	815		
Limestone, hard, gray ----	70	488	Limestone, soft, yellow-	21	836		
Limestone, soft, yellow ---	72	560					
Well 150							
Owner: Mrs. -- Vaughn. Driller: J. P. Benkendorfer.							
Soil -----	2	2	Limestone, gray -----	91	580		
Hardpan -----	17	19	Lignite -----	33	613		
Gravel -----	15	34	Limestone, gray -----	69	682		
Clay, yellow -----	8	42	Grayson shale (Del Rio				
Clay, blue -----	208	250	clay) -----	52	734		
Chalk -----	192	442	Edwards limestone:				
Limestone, white -----	30	472	Limestone, crystallized-	24	758		
Limestone, yellow -----	17	489					
Well 151							
Owner: Pioneer Flour Mills. Driller: Dingman Drilling Co.							
Clay, yellow and sand ----	43	43	Shale, brown, and lignite-	35	610		
Clay, blue -----	19	62	Limestone, white -----	23	633		
Shale, black -----	73	135	Limestone, hard, blue ----	55	688		
Gumbo -----	39	174	Grayson shale (Del Rio				
Shale, hard, gray -----	12	186	clay) -----	18	706		
Limestone, gray and			Edwards limestone:				
specks -----	284	470	Limestone -----	41	747		
Limestone, brown -----	42	512	Limestone, brown -----	18	765		
Limestone, gray -----	29	541	Rock, honeycomb -----	8	773		
Limestone, hard, blue ----	9	550	Limestone, white -----	4	777		
Limestone, gray -----	25	575	Rock, honeycomb -----	51	828		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 151 -- Continued				
Edwards limestone -- continued:				
Limestone, brown -----	2	830	Limestone, gray -----	1 899
Rock, honeycomb -----	17	847	Limestone, light gray --	89 988
Limestone, gray -----	31	878	Limestone, dark gray ---	332 1,320
Flint, black -----	20	898	Limestone, light gray --	332 1,652
Well 153				
Owner: Gugenheim-Goldsmith. Driller: J. R. Johnson.				
Soil -----	1	1	Shale (lignite) -----	80 688
Clay, yellow -----	29	30	Limestone, white -----	60 748
Gravel, yellow -----	11	41	Grayson shale (Del Rio	
Clay -----	23	64	clay) -----	63 811
Marl -----	319	383	Edwards limestone:	
Chalk -----	225	608	Limestone -----	33 844
Well 159				
Owner: Southern Pacific R. R. Driller: Allen Burman Keystone Drilling Co.				
Soil -----	6	6	Rock, soft, gray,	
Clay, soft, white -----	16	22	sulphur water -----	100 700
Clay, sticky, yellow -----	8	30	Rock, hard, gray -----	50 750
Clay, hard, blue -----	70	100	Rock, hard, white -----	100 850
Clay, soft, blue -----	150	250	Rock, hard, brown -----	50 900
Clay, hard, gray -----	50	300	Grayson shale (Del Rio	
Soapstone, soft, white ----	50	350	clay) -----	50 950
Clay, hard, blue -----	50	400	Edwards limestone:	
Clay, soft, white -----	100	500	Limestone, hard, white -	153 1,103
Rock, hard, white -----	100	600		

Drillers' logs of wells in Bexar County -- Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well 163					
Owner: San Antonio Public Service Co. Driller: Burkett Bros.					
Pump pit -----	13	13	Clay, cavey -----	16	538
Gravel -----	7	20	Chalk -----	60	598
Clay, yellow -----	27	47	Shale -----	30	628
Clay, blue -----	8	55	Chalk -----	57	685
Rock, hard -----	4	59	Water strata -----	20	705
Clay, blue -----	91	150	Chalk -----	83	788
Rock, hard -----	3	153	Lignite -----	27	815
Clay, blue -----	227	380	Limestone -----	63	878
Limestone -----	12	392	Grayson shale (Del Rio		
Clay, blue -----	88	480	clay) -----	58	936
Limestone -----	13	493	Edwards limestone:		
Clay, blue -----	15	508	Limestone, blue -----	17	953
Chalk -----	14	522	Limestone, yellow -----	45	998
Well 164					
Owner: San Antonio Public Service Co. Driller: Layne-Texas Co., Ltd.					
Clay, white, sandy -----	13	13	Chalk -----	16	514
Gravel -----	5	18	Shale, hard -----	14	528
Clay, yellow -----	23	41	Chalk -----	253	781
Shale, hard, blue -----	12	53	Shale -----	31	812
Rock -----	2	55	Limestone -----	62	874
Shale, blue -----	352	407	Shale -----	53	927
Chalk -----	10	417	Limestone -----	43	970
Shale -----	53	470	Limestone, very porous,		
Limestone -----	11	481	water -----	53	1,023
Shale -----	17	498	Limestone and shale -----	29	1,052
Well 167					
Owner: City of San Antonio. Driller: J. P. Benkendorfer.					
Soil -----	54	54	Grayson shale (Del Rio		
Clay, blue -----	726	780	clay) -----	48	1,328
Limestone, magnesium -----	120	900	Edwards limestone:		
Limestone, gray -----	297	1,197	Limestone with crevices		
Lignite -----	26	1,223	and water -----	112	1,440
Limestone with crevices (water flowing at surface 3,000 gallons a minute) -	57	1,280			

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well 173					
Owner: City of San Antonio. Driller: Dingman Drilling Co.					
Soil, black -----	3	3	Lignite -----	30	1,180
Gravel and clay -----	9	12	Limestone, white -----	35	1,215
Sand, hard, red -----	16	28	Limestone, bluish gray ----	15	1,230
Gravel -----	12	40	Grayson shale (Del Rio		
Clay, yellow and gravel ---	22	62	clay) -----	13	1,243
Clay, blue -----	23	85	Edwards limestone:		
Sand, green -----	2	87	Limestone, yellow and		
Shale and boulders -----	383	470	gray -----	18	1,261
Shale, hard, sticky -----	215	685	Limestone, brown -----	9	1,270
Shale, hard, gray -----	48	733	Limestone, gray -----	23	1,293
Limestone, broken -----	71	804	Limestone, porous,		
Limestone, hard -----	12	816	honeycomb -----	1	1,294
Limestone, broken, with			Limestone, hard gray ----	26	1,320
soft streaks -----	60	876	Limestone, hard brown ---	20	1,340
Limestone, hard -----	61	937	Limestone, hard gray ----	20	1,360
Limestone, very hard,			Limestone, brown, with		
crystal-like -----	7	944	streaks of black flint,		
Limestone, hard rough,			very hard -----	10	1,370
porous -----	65	1,009	Limestone, brown, with		
Limestone, white -----	8	1,017	some very soft streaks,		
Limestone, porous, yellow -	7	1,024	water -----	210	1,580
Limestone, streaks of gray			Limestone, brown -----	190	1,770
and blue, water -----	86	1,110	Limestone, brown, with		
Honeycomb, yellow, porous,			small white crystals and		
water -----	5	1,115	some particles of dark		
Limestone, gray, or chalk			brownish-yellow clay --	71	1,841
rock -----	35	1,150			
Well 174					
Owner: City of San Antonio. Driller: Draper and Dozier.					
Gravel and clay -----	30	30	Chalk -----	175	1,205
Clay, yellow -----	15	45	Lost circulation -----	1	1,206
Gravel -----	5	50	Grayson shale (Del Rio		
Clay, blue -----	30	80	clay) -----	49	1,255
Shale, brown -----	700	780	Edwards limestone:		
Marl, hard -----	250	1,030	Limestone -----	145	1,400

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 177							
Owner: San Antonio Independent School District. Driller: J. P. Benkendorfer.							
Soil -----	28	28	Grayson shale (Del Rio				
Clay, blue -----	576	604	clay) -----	58	1,041		
Clay, white -----	124	728	Edwards limestone:				
Rock, gray -----	52	780	Rock, gray -----	19	1,060		
Rock, yellow -----	25	805	Rock, brown -----	40	1,100		
Rock, gray -----	89	894	Flint, hard, brown -----	40	1,140		
Lignite -----	28	922	Flint?, hard, gray -----	20	1,160		
Rock, gray -----	61	983	Flint?, hard, yellow ---	25	1,185		
Well 179							
Owner: Swift & Company. Driller: Layne-Texas Co., Ltd.							
Gravel -----	60	60	Grayson shale (Del Rio				
Shale, blue -----	240	300	clay) -----	70	780		
Limestone, gray -----	316	616	Edwards limestone:				
Lignite -----	30	646	Limestone, gray -----	580	1,360		
Limestone, hard gray -----	64	710	Limestone, white -----	40	1,400		
Well 180							
Owner: Swift & Company. Driller: J. P. Benkendorfer.							
Gravel and yellow clay ----	60	60	Edwards limestone:				
Shale, blue -----	280	340	Limestone, light brown -	330	1,150		
Limestone, white -----	316	656	Limestone, white and				
Lignite (or shale) -----	30	686	gray (no water below				
Limestone, hard, white ----	65	751	1,250) -----	250	1,400		
Grayson shale (Del Rio clay)	69	820					

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 181							
Owner: Berry Packing Co.							
Gravel and yellow clay ----	60	60	Grayson shale (Del Rio				
Shale, blue -----	280	340	clay) -----	69	820		
Limestone, soft white ----	316	656	Edwards limestone:				
Lignite -----	30	686	Limestone, light brown -	330	1,150		
Limestone, hard white ----	65	751	Limestone, white and				
			gray -----	250	1,400		
Well 182							
Owner: Gebhardt Canning Co. Driller: Max Gerfers.							
Gravel -----	21	21	Grayson shale (Del Rio				
Clay, yellow -----	34	55	clay) -----	58	803		
Clay, blue -----	285	340	Edwards limestone:				
Limestone, gray; sulphur			Limestone, gray, fresh				
water and gas at 510 ----	320	660	water -----	27	830		
Lignite -----	30	690	Limestone, gray -----	197	1,027		
Limestone, gray -----	55	745					
Well 186							
Owner: S. M. Reyes and Sons. Driller: Wm. Craven and Sons.							
Black dirt -----	4	4	Limestone -----	62	737		
Clay, yellow, and gravel --	29	33	Grayson shale (Del Rio				
Marl, soft -----	128	161	clay) -----	56	793		
Marl, hard -----	212	373	Edwards limestone:				
Chalk -----	271	644	Limestone -----	155	948		
Shale -----	31	675					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 187							
Owner: Mrs. M. Stuernagel Packing Co. Driller: Wm. Craven and Sons.							
Black dirt -----	4	4	Limestone -----	59	762		
Clay, yellow and gravel ---	29	33	Grayson shale (Del Rio				
Shale, blue -----	90	123	clay) -----	55	817		
Marl, hard -----	337	460	Edwards limestone:				
Chalk -----	213	673	Limestone -----	34	851		
Shale -----	30	703					
Well 188							
Owner: Melton Provision Co., Inc. Driller: J. R. Johnson.							
Soil -----	6	6	Shale (lignite) -----	28	734		
Caliche and gravel -----	8	14	Limestone -----	63	797		
Gravel, pea -----	9	23	Grayson shale (Del Rio				
Gravel -----	10	33	clay) -----	54	851		
Clay, yellow -----	21	54	Edwards limestone:				
Clay -----	263	317	Limestone -----	270	1,121		
Marl -----	239	556	Crevice -----	5	1,126		
Chalk -----	150	706					
Well 189							
Owner: Apache Packing Co. Driller: J. R. Johnson.							
Soil -----	1	1	Shale (lignite) -----	32	633		
Gravel, sandy -----	12	13	Limestone -----	61	694		
Clay and gravel -----	20	33	Grayson shale (Del Rio				
Shale -----	237	270	clay) -----	39	733		
Marl -----	71	341	Edwards limestone:				
Chalk -----	260	601	Limestone -----	278	1,011		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 222							
Owner: Bexar Metropolitan Water Co. Driller: Dingman Drilling Co.							
Soil -----	4	4	Chalk, hard -----	15	980		
Caliche -----	18	22	Limestone, porous yellow,				
Caliche and gravel -----	7	29	some hard streaks;				
Clay, yellow and gravel ---	13	42	sulphur water -----	58	1,038		
Rock, soft -----	3	45	Cavity, sulphur water ----	1	1,039		
Clay, yellow and gravel ---	9	54	Limestone, soft and broken	77	1,116		
Clay, yellow -----	16	70	Lignite -----	28	1,144		
Rock -----	1	71	Limestone, white -----	46	1,190		
Clay, blue -----	38	109	Grayson shale (Del Rio				
Shale, blue, sticky, with			clay) -----	103	1,293		
boulders -----	242	351	Edwards limestone:				
Shale, gray, sandy -----	303	654	Limestone -----	4	1,297		
Rock -----	3	657	Limestone, very soft,				
Shale, hard gray -----	148	805	porous, fresh water --	3	1,300		
Limestone, broken gray,			Limestone, honeycomb ---	27	1,327		
chalky -----	65	870	Limestone, honeycomb,				
Shale, soft, sandy -----	17	887	water (cavity) -----	1	1,328		
Limestone, soft, chalky ---	10	897					
Limestone, hard -----	68	965					
Well 223							
Owner: Bexar Metropolitan Water Co. Driller: Wiegand Bros.							
Clay and sand -----	40	40	Limestone, broken -----	66	1,115		
Clay, sand and rocks -----	55	95	Limestone, broken, and				
Shale and boulders -----	260	355	lignite -----	22	1,137		
Clay and gravel -----	25	380	Limestone, hard -----	49	1,186		
Rock, hard -----	10	390	Grayson shale (Del Rio				
Shale -----	325	715	clay) -----	16	1,202		
Rock, hard -----	3	718	Edwards limestone:				
Shale, hard, gray -----	79	797	Shale streaks -----	43	1,245		
Shale, gray, with hard			Limestone -----	15	1,260		
streaks -----	88	885	Limestone, hard -----	10	1,270		
Limestone, hard -----	73	958	Limestone, porous -----	10	1,280		
Chalk -----	16	974	Limestone, soft, with				
Limestone, yellow -----	65	1,039	layers of hard rock,				
Limestone, porous with hard			probably chert -----	46	1,326		
streaks -----	10	1,049					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 226							
Owner: Merchants Ice & Cold Storage Co. Driller: J. R. Johnson.							
Soil -----	1	1	Eagle Ford shale -----	35	580		
Sand, gravel, and boulders-	27	28	Buda limestone -----	50	630		
Rock, hard -----	44	72	Grayson shale (Del Rio				
Shale -----	44	116	clay) -----	40	670		
Shale, sticky, hard -----	45	161	Georgetown limestone ----	36	706		
Shale, sticky streaks ----	68	229	Edwards limestone:				
Shale, sandy -----	12	241	Limestone, yellow -----	213	919		
Shale, hard -----	25	266	Limestone, white, hard -	19	938		
Taylor marl -----	124	390	Limestone, blue, hard --	22	960		
Austin chalk -----	155	545	Glen Rose limestone -----	6	966		
Well 227							
Owner: Merchants Ice & Cold Storage Co. Driller: J. R. Johnson.							
Soil -----	1	1	Eagle Ford shale -----	51	585		
Sand and gravel -----	29	30	Buda limestone -----	52	637		
Clay, yellow, sand, rock			Grayson shale (Del Rio				
strata -----	48	78	clay) -----	61	698		
Shale of Navarro group ----	167	245	Georgetown limestone ----	43	741		
Taylor marl, hard -----	140	385	Edwards limestone:				
Austin chalk -----	149	534	Limestone -----	116	857		
Well 229							
Owner: Valcor Interprises. Driller: Burkett Drilling Co.							
Soil -----	2	2	Shale, light gray -----	34	540		
Caliche -----	1	3	Shale, gray -----	66	606		
Clay, yellow, and gravel --	21	24	Austin chalk -----	144	750		
Gravel and water -----	4	28	Lignite -----	30	780		
Clay, yellow -----	27	55	Buda limestone -----	57	837		
Clay, blue -----	235	290	Mud hole -----	60	897		
Soapstone -----	30	320	Edwards limestone -----	18	915		
Clay, blue -----	186	506					

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well 230			
Owner: Union Stock Yards. Driller: J. R. Johnson.			
Soil -----	11	11	Taylor marl, hard ----- 174 478
Clay, yellow, and gravel --	4	15	Broken, gas ----- 2 480
Gravel, lots of water -----	6	21	Austin chalk, white ----- 130 610
Clay, yellow -----	6	27	Eagle Ford shale, hard --- 30 640
Shale of Navarro group ----	136	163	Buda limestone ----- 61 701
Sand, green oil -----	4	167	Grayson shale (Del Rio
Shale of Navarro group ----	61	228	clay) ----- 49 750
Shale of Navarro group,			Georgetown limestone ---- 31 781
hard, sandy -----	8	236	Edwards limestone:
Shale of Navarro group,			Limestone ----- 508 1,289
sandy lime streaks -----	68	304	(Very solid, no breaks)
Well 231			
Owner: Union Stock Yards. Driller: J. R. Johnson.			
Gravel -----	1	1	Buda limestone ----- 55 741
Caliche -----	15	16	Grayson shale (Del Rio
Clay, sandy, yellow -----	10	26	clay) ----- 54 795
Clay, yellow, sticky -----	18	44	Georgetown limestone,
Navarro shale -----	103	147	extra hard ----- 23 818
Shale, sandy, lime streaks,			Edwards limestone; crevice
oil saturation -----	85	232	at 1,172 to 1,180 feet
Shale of Navarro group, hard			and 1,200 to 1,203 feet- 529 1,347
lime streaks, broken ----	137	369	Glen Rose limestone, lime
Taylor marl, extra hard ---	138	507	streaks, blue shale ---- 4 1,351
Austin chalk, very hard ---	148	655	
Eagle Ford shale -----	31	686	
Well 233			
Owner: Berry Packing Co. Driller: J. R. Johnson.			
Soil -----	4	4	Shale of Navarro group,
Caliche -----	6	10	blue ----- 204 254
Gravel -----	10	20	Oil sand ----- 2 256
Clay, yellow -----	30	50	(continued on next page)

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 233 -- Continued							
Shale of Navarro group, hard streaks -----	197	453	Edwards limestone:				
Taylor marl -----	79	532	Limestone, brown, hard -	170	1,028		
Austin chalk -----	135	667	Limestone, honeycombed -	17	1,045		
Eagle Ford shale, black ---	23	690	Limestone, hard, white -	15	1,060		
Buda limestone -----	84	774	Limestone, broken -----	5	1,065		
Grayson shale (Del Rio clay) -----	52	826	Limestone, yellow -----	62	1,127		
Georgetown limestone, hard-	32	858	Limestone, yellow, broken, honeycomb ----	63	1,190		
			Limestone, brown, hard -	18	1,208		
Well 236							
Owner: Joske's of Texas. Driller: J. R. Johnson.							
Soil -----	6	6	Buda limestone -----	40	705		
Clay and gravel -----	25	31	Grayson shale (Del Rio clay) -----	50	755		
Clay, yellow -----	24	55	Georgetown limestone ----	5	760		
Shale of Navarro group ----	278	333	Edwards limestone -----	353	1,113		
Austin chalk -----	305	638					
Eagle Ford shale -----	27	665					
Well 238							
Owner: Gunter Hotel. Driller: J. R. Johnson.							
Clay, yellow -----	9	9	Buda limestone -----	75	651		
Flint, gravel -----	24	33	Grayson shale (Del Rio clay) -----	41	692		
Clay, yellow -----	57	90	Georgetown limestone ----	17	709		
Shale of Navarro group ----	170	260	Edwards limestone -----	442	1,151		
Taylor marl -----	145	405	Glen Rose limestone -----	6	1,157		
Austin chalk -----	151	556					
Eagle Ford shale -----	20	576					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 240							
Owner: American Service Co. Driller: J. R. Johnson.							
Soil -----	8	8	Grayson shale (Del Rio				
Clay, yellow -----	35	43	clay) -----	55	720		
Shale of Navarro group ----	223	266	Georgetown limestone ----	22	742		
Taylor marl -----	167	433	Edwards limestone (small				
Chalk -----	148	581	crevice at 805 ft; 805				
Eagle Ford shale, hard,			to 817 ft honeycomb;				
black -----	28	609	broken limestone 988 to				
Buda limestone -----	56	665	1,048 ft) -----	479	1,221		
Well 241							
Owner: Alamo Dressed Beef Co. Driller: J. R. Johnson.							
Soil -----	8	8	Lignite -----	21	1,056		
Caliche -----	7	15	Buda limestone -----	58	1,114		
Sand and gravel -----	7	22	Grayson shale (Del Rio				
Gravel and clay, broken ---	51	73	clay) -----	34	1,148		
Shale of Navarro group ----	728	801	Georgetown limestone ----	32	1,180		
Taylor marl -----	118	919	Edwards limestone -----	80	1,260		
Austin chalk -----	116	1,035					
Well 244							
Owner: Coca Cola Bottling Co. Driller: J. R. Johnson.							
Soil -----	1	1	Eagle Ford shale -----	26	654		
Boulders, fill -----	5	6	Buda limestone -----	61	715		
Caliche -----	14	20	Grayson shale (Del Rio				
Clay, yellow -----	35	55	clay) -----	54	769		
Shale of Navarro group ----	285	340	Georgetown limestone ----	17	786		
Taylor marl -----	150	490	Edwards limestone -----	486	1,272		
Austin chalk -----	138	628					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 245							
Owner: Tiner Dairies, Inc. Driller: J. R. Johnson.							
Soil -----	2	2	Shale and limestone -----	35	330		
Clay, yellow -----	28	30	Eagle Ford shale and				
Sand and yellow clay -----	20	50	Buda limestone -----	86	416		
Shale of Navarro group,			Grayson shale (Del Rio				
blue -----	79	129	clay) -----	56	472		
Taylor marl -----	77	206	Georgetown limestone -----	12	484		
Chalk -----	29	235	Edwards limestone -----	70	554		
Chalk and shale -----	60	295					
Well 246							
Owner: San Fernando Water Works. Driller: J. R. Johnson.							
Soil -----	3	3	Lignite -----	20	810		
Clay -----	9	12	Buda limestone -----	65	875		
Gravel and sand -----	37	49	Grayson shale (Del Rio				
Clay and gravel -----	16	65	clay) -----	17	892		
Shale of Navarro group ----	432	497	Georgetown limestone -----	32	924		
Taylor marl -----	261	758	Edwards limestone -----	82	1,006		
Austin chalk -----	32	790					
Well 248							
Owner: Rockway Tourist Courts. Driller: J. R. Johnson.							
Soil -----	2	22	Lignite -----	38	485		
Gravel -----	10	12	Buda limestone -----	50	535		
Clay, yellow -----	58	70	Grayson shale (Del Rio				
Shale of Navarro group ----	60	130	clay) -----	43	578		
Taylor marl, blue -----	82	212	Edwards limestone -----	77	655		
Austin chalk -----	235	447					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 249							
Owner: Ben F. Ruby. Driller: J. R. Johnson.							
Soil -----	1	1	Austin chalk -----	235	447		
Gravel -----	12	13	Lignite -----	38	485		
Chalk -----	13	26	Buda limestone -----	69	554		
Clay, yellow -----	47	73	Grayson shale (Del Rio				
Shale of Navarro group ----	57	130	clay) -----	36	590		
Taylor marl, blue -----	82	212	Edwards limestone -----	37	627		
Well 250							
Owner: San Antonio Brick & Lumber Co. Driller: Cravens Drilling Co.							
Soil -----	2	2	Buda limestone -----	60	405		
Caliche -----	68	70	Grayson shale (Del Rio				
Taylor marl -----	150	220	clay) -----	55	460		
Austin chalk -----	95	315	Edwards limestone -----	16	476		
Eagle Ford shale -----	30	345					
Well 251							
Owner: Leon Sand & Gravel Co. Driller: Max H. Gerfers.							
Soil -----	2	2	Buda limestone -----	50	350		
Caliche -----	5	7	Grayson shale (Del Rio				
Clay, yellow -----	33	40	clay) -----	40	390		
Anacacho limestone -----	100	140	Georgetown limestone ----	3	393		
Austin chalk -----	125	365	Edwards limestone -----	15	408		
Eagle Ford shale -----	35	300					
Well 253							
Owner: Alamo Laundry. Driller: Wm. Cravens & Sons.							
Clay, yellow with gravel --	15	15	Eagle Ford shale -----	30	646		
Clay, yellow -----	40	55	Buda limestone -----	50	696		
Taylor marl, soft -----	128	183	Grayson shale (Del Rio				
Taylor marl, hard -----	221	404	clay) -----	56	752		
Austin chalk -----	212	616	Edwards limestone -----	25	777		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 254							
Owner: Lone Star Brewing Co. Driller: Burkett Drilling Co.							
Soil, black -----	4	4	Limestone, gray, marly ---	47	672		
Caliche -----	4	8	Austin chalk -----	132	804		
Gravel and water -----	28	36	Eagle Ford shale -----	26	830		
Clay, yellow -----	27	63	Buda limestone -----	75	905		
Shale, blue -----	504	567	Grayson shale (Del Rio				
Shale, gray -----	57	624	clay) -----	50	955		
Sulphur water and gas -----	1	625	Edwards limestone -----	445	1,400		
Well 255							
Owner: San Antonio Country Club. Driller: J. R. Johnson.							
Soil, black -----	3	3	Buda limestone, hard -----	58	729		
Clay, yellow -----	78	81	Grayson shale (Del Rio				
Shale of Navarro group ----	285	366	clay) -----	63	792		
Taylor marl, hard shale ---	141	507	Georgetown limestone,				
Austin chalk, white, no water	135	642	extra hard -----	11	803		
Eagle Ford shale, black,			Edwards limestone, soft --	118	921		
soft -----	29	671					
Well 257							
Owner: Five Points Laundry. Driller: William Cravens.							
Clay, yellow -----	30	30	Grayson shale (Del Rio				
Taylor marl, soft -----	225	255	clay) -----	50	680		
Taylor marl, hard -----	106	361	Georgetown limestone,				
Austin chalk -----	179	540	small amount of water --	83	763		
Eagle Ford shale -----	32	572	Edwards limestone -----	123	886		
Buda limestone -----	58	630					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 259, partial log							
Owner: City of San Antonio.				Driller: Whitfield & Drapor.			
Soil -----	4	4	Buda limestone -----	53	486		
Clay and sand -----	10	14	Grayson shale (Del Rio				
Gravel -----	2	16	clay) -----	58	544		
Shale and boulders -----	79	95	Georgetown limestone -----	59	603		
Shale, hard, dark, sandy --	70	165	Edwards limestone:				
Shale, hard, dark gray,			Limestone, hard, with				
with limestone streaks --	62	227	porous streaks -----	228	831		
Austin chalk -----	115	342	Limestone, very porous -	4	835		
Shale, dark gray, and			Limestone, hard, with				
limestone -----	16	358	porous streaks -----	79	914		
Austin chalk, dark gray ---	42	400	Limestone, very sandy --	6	920		
Limestone, hard gray, and			Limestone, sandy, and				
sand -----	7	407	sand streaks -----	86	1,006		
Eagle Ford shale -----	26	433	TOTAL DEPTH -----		1,100		
Well 260							
Owner: City of San Antonio.				Driller: J. R. Johnson.			
Soil -----	3	3	Buda limestone -----	50	508		
Clay, yellow -----	31	34	Grayson shale (Del Rio				
Shale of Navarro group ----	133	167	clay) -----	50	558		
Taylor marl -----	129	296	Georgetown limestone -----	11	569		
Austin chalk -----	125	421	Edwards limestone -----	203	772		
Eagle Ford shale -----	37	458					
Well 261							
Owner: City of San Antonio.				Driller: J. R. Johnson.			
Soil -----	6	6	Eagle Ford shale -----	26	416		
Clay, yellow -----	24	30	Buda limestone -----	51	467		
Gravel -----	5	35	Grayson shale (Del Rio				
Clay and sand -----	10	45	clay) -----	55	522		
Shale of Navarro group ----	103	148	Georgetown limestone -----	5	527		
Taylor marl -----	100	248	Edwards limestone -----	176	703		
Austin chalk -----	142	390					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 263							
Owner: City of San Antonio.				Driller: J. R. Johnson.			
Soil -----	4	4	Buda limestone -----	37	345		
Caliche -----	47	51	Grayson shale (Del Rio				
Clay and boulders -----	16	67	clay) -----	53	398		
Taylor marl -----	48	115	Georgetown limestone,				
Austin chalk -----	168	283	hard -----	38	436		
Eagle Ford shale -----	25	308	Edwards limestone -----	427	763		
Well 267							
Owner: City of San Antonio.				Driller: J. R. Johnson.			
Soil -----	8	8	Grayson shale (Del Rio				
Austin chalk and Eagle Ford			clay) -----	52	203		
shale -----	87	95	Georgetown limestone -----	6	209		
Buda limestone -----	56	151	Edwards limestone -----	198	407		
Well 268							
Owner: Grande Courts.				Driller: Wm. Cravens.			
Clay, yellow -----	51	51	Clay, yellow -----	5	330		
Taylor marl, soft -----	149	200	Georgetown limestone (?) -	85	415		
Taylor marl, hard -----	66	266	Edwards limestone -----	65	480		
Austin chalk -----	59	325					
Well 270							
Owner: City of San Antonio.				Driller: J. R. Johnson.			
Caliche -----	8	8	Buda limestone -----	50	420		
Clay, yellow -----	32	40	Grayson shale (Del Rio				
Shale of Navarro group ----	8	48	clay) -----	68	488		
Taylor marl -----	146	194	Georgetown limestone -----	8	496		
Austin chalk -----	141	335	Edwards limestone -----	522	1,018		
Eagle Ford shale -----	35	370	Glen Rose limestone -----	12	1,030		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 272							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	3	3	Buda limestone -----	13	709		
Clay, yellow -----	19	22	Grayson shale (Del Rio				
Clay, gravel -----	8	30	clay) -----	102	811		
Clay, sand -----	27	57	Georgetown limestone -----	19	830		
Shale of Navarro group ----	363	420	Edwards limestone -----	221	1,051		
Taylor marl -----	139	559	(Breaks in Edwards lime-				
Austin chalk -----	101	660	stone at 839 to 960 ft;				
Eagle Ford shale -----	36	696	981 to 988 ft. honeycomb)				
Well 273							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	4	4	Edwards limestone -----	240	950		
Clay, yellow -----	40	44	(Broken and creviced				
Clay, dark blue-gray -----	216	260	from 729-950 ft. Crevices				
Taylor marl -----	170	430	at: 729 - 731 feet				
Austin chalk -----	130	560	760 - 761 feet				
Eagle Ford shale -----	32	592	814 - 815 feet				
Buda limestone -----	58	650	821 - 822 feet				
Grayson shale (Del Rio			850 - 852 feet				
clay) -----	55	705	921 - 926 feet)				
Georgetown limestone, very							
hard -----	5	710					
Well 274							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	3	3	Grayson shale (Del Rio				
Clay, yellow -----	9	12	clay) -----	55	655		
Clay and river gravel -----	22	34	Georgetown limestone -----	14	669		
Shale of Navarro group ----	243	277	Edwards limestone:				
Taylor marl -----	105	382	Limestone, hard, yellow-	71	740		
Austin chalk -----	138	520	Limestone, hard, broken-	35	775		
Eagle Ford shale -----	30	550	Limestone, broken,				
Buda limestone -----	50	600	honeycomb -----	31	806		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 274 -- Continued							
Edwards limestone -- continued:				Cavern -----			
Crevices -----	4	810		Limestone, broken and	2	919	
Honeycomb, broken -----	42	852		hard -----	44	963	
Limestone, hard -----	65	917		Limestone, very broken -	21	984	
				Limestone, hard -----	16	1,000	
Well 275							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	4	4		Honeycomb -----	15	1,005	
Clay, yellow -----	32	36		Limestone, hard -----	12	1,017	
Shale of Navarro group ----	251	287		Cavern -----	1	1,018	
Austin chalk -----	238	525		Honeycomb -----	37	1,055	
Eagle Ford shale -----	30	555		Cavern -----	1	1,056	
Buda limestone -----	61	616		Limestone, broken -----	59	1,115	
Grayson shale (Del Rio				Cavern -----	2	1,117	
clay) -----	40	656		Limestone, very broken -	18	1,135	
Georgetown limestone -----	13	669		Limestone, hard -----	25	1,160	
Edwards limestone:							
No record -----	321	990					
Well 276							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	10	10		Grayson shale (Del Rio			
Caliche -----	15	25		clay) -----	70	892	
Gravel -----	13	38		Edwards limestone -----	108	1,000	
Clay, yellow -----	14	52		(Crevices at:			
Shale of Navarro group ----	106	158		906 - 911 feet			
Sand, green oil -----	12	170		916 - 918 feet			
Shale of Navarro group ----	290	460		936 - 942 feet			
Taylor marl -----	156	616		945 - 947 feet			
Austin chalk -----	118	734		968 - 971 feet			
Eagle Ford shale -----	26	760		978 - 991 feet)			
Buda limestone -----	62	822					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 277							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	4	4	Buda limestone -----	47	795		
Clay, yellow and gravel ---	36	40	Grayson shale (Del Rio				
Shale of Navarro group ----	400	440	clay) -----	53	848		
Taylor marl -----	145	585	Limestone, hard, blue ----	2	850		
Austin chalk -----	125	710	Edwards limestone -----	127	977		
Eagle Ford shale -----	38	748					
Well 278							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Clay and gravel -----	23	23	Buda limestone -----	68	808		
Clay, yellow -----	62	85	Grayson shale (Del Rio				
Shale of Navarro group ----	419	504	clay) -----	40	848		
Taylor marl -----	98	602	Georgetown limestone ----	8	856		
Austin chalk -----	115	717	Edwards limestone -----	252	1,108		
Eagle Ford shale -----	23	740					
Well 279							
Owner: City of San Antonio. Driller: Dingham Drilling Co.							
Soil -----	6	6	Shale, very hard, gray ---	18	324		
Soil, sandy and rock -----	10	16	Rock, very hard, chalk ---	9	333		
Clay, yellow and blue ----	13	29	Shale, hard gray -----	3	336		
Gravel and sand -----	4	33	Rock, hard, chalk -----	2	338		
Shale, blue -----	91	124	Lime, broken, and hard				
Shale and shell rocks ----	36	160	shale -----	15	353		
Shale -----	46	206	Limestone, very hard ----	8	361		
Rock -----	15	221	Shale, hard gray, sticky -	29	390		
Shale, hard, gray -----	41	262	Lime, broken, streaks of				
Shale, very hard, gray ----	37	299	Taylor marl -----	94	484		
Rock -----	3	302	Austin chalk, white -----	6	490		
Shale, hard, gray -----	2	304	Austin chalk, brown -----	32	522		
Rock -----	2	306	Chalk, very rough, white -	6	528		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 279 -- Continued							
Chalk, dark brown -----	52	580	Lime, hard, brown, and				
Austin chalk, gray -----	52	632	soft -----	16	828		
Eagle Ford shale -----	26	658	Cavity -----	2	830		
Buda limestone -----	54	712	Lime, hard and soft -----	38	868		
Grayson shale (Del Rio			Cavity -----	1	869		
clay) -----	61	733	Limestone, hard -----	17	886		
Shale, hard limey - Grayson			Cavity -----	2	888		
shale (Del Rio clay) ----	10	783	Limestone, hard, with soft				
Georgetown limestone -----	23	806	streaks -----	5	893		
Edwards limestone -----	2	808	Limestone, hard and soft				
Edwards limestone, hard,			with porous structure --	42	935		
brown -----	4	812	Rock, very hard, black				
			flint -----	1	936		
Well 280							
Owner: City of San Antonio. Driller: Layne-Texas Co., Ltd.							
No record -----	51	51	Limestone -----	22	962		
Shale -----	37	88	Limestone, soft -----	4	966		
Shale and limestone -----	81	169	Limestone -----	10	976		
Shale and chalk -----	176	345	Limestone, soft -----	3	979		
Limestone and shale -----	138	483	Limestone -----	23	1,002		
Limestone -----	12	495	Limestone, soft -----	12	1,014		
Limestone and shale -----	128	623	Limestone, hard -----	7	1,021		
Shale -----	33	656	Limestone, soft yellow -	33	1,054		
Limestone -----	56	712	Limestone, hard -----	2	1,056		
Shale, blue and limestone -	24	736	Limestone, soft -----	1	1,057		
Shale, hard blue -----	28	764	Limestone, white -----	3	1,060		
Edwards limestone:			Limestone, hard -----	14	1,074		
Limestone (no water) ----	92	856	Limestone, soft -----	3	1,077		
Limestone, soft -----	3	859	Limestone, soft and hard	18	1,095		
Limestone, hard -----	39	898	Limestone, soft, with				
Limestone, soft -----	4	902	hard streaks -----	12	1,107		
Limestone -----	34	936	Limestone, hard -----	7	1,114		
Limestone, soft -----	4	940					

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 281							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	9	9	Buda limestone -----	57	180		
Gravel -----	4	13	Grayson shale (Del Rio				
Clay, yellow -----	15	28	clay) -----	43	223		
Clay, broken -----	67	95	Georgetown limestone -----	21	244		
Eagle Ford shale -----	9	104	Edwards limestone -----	556	800		
Clay, fine, yellow -----	19	123					
Well 282							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	3	3	Georgetown limestone -----	38	1,268		
Gravel -----	23	26	Grayson shale (Del Rio				
Clay and gravel -----	32	58	clay) -----	45	1,313		
Shale of Navarro group ----	759	817	Edwards limestone -----	48	1,361		
Taylor marl -----	115	932	(Crevice at 1,315-1,318				
Austin chalk, very broken -	202	1,134	ft., 1,325-1,327 ft.,				
Eagle Ford shale -----	26	1,160	1,348-1,352 ft., 1,352-				
Buda limestone -----	36	1,196	1,361 ft.)				
Grayson shale (Del Rio clay)							
broken lime, hard shale -	34	1,230					
Well 283							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	3	3	Grayson shale (Del Rio				
Sand -----	23	26	clay) -----	34	1,230		
Clay and gravel -----	32	58	Georgetown limestone -----	38	1,268		
Shale of Navarro group ----	759	817	Grayson shale (Del Rio				
Taylor marl -----	115	932	clay) broken limestone -	45	1,313		
Austin chalk -----	202	1,134	Edwards limestone -----	48	1,361		
Eagle Ford shale -----	26	1,160					
Buda limestone -----	36	1,196					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 285							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	5	5	Grayson shale (Del Rio				
Caliche and gravel -----	20	25	clay) -----	41	1,332		
Gravel -----	25	50	Edwards limestone:				
Clay, yellow -----	10	60	Limestone, hard -----	38	1,370		
Shale of Navarro group ----	858	918	Crevice, very broken ---	23	1,393		
Taylor marl -----	72	990	Limestone, broken -----	69	1,462		
Austin chalk -----	201	1,191	Cave -----	30	1,492		
Buda limestone -----	100	1,291	Limestone, broken, yellow	18	1,510		
Well 286							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	8	8	Buda limestone -----	60	824		
Caliche -----	13	21	Grayson shale (Del Rio				
Sand and gravel -----	37	58	clay) -----	48	872		
Clay, yellow -----	20	78	Georgetown limestone ----	27	899		
Shale of Navarro group,			Edwards limestone -----	155	1,054		
hard sand streaks -----	368	446	(Crevice 909-911 ft.,				
Taylor marl -----	141	587	broken formation 985-1,035				
Austin chalk -----	161	748	ft., sandy limestone 1,042-				
Eagle Ford shale -----	16	764	1,054 ft.)				
Well 287							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	6	6	Lignite -----	29	927		
Sand, yellow, medium -----	11	17	Buda limestone -----	52	979		
Gravel -----	14	31	Grayson shale (Del Rio				
Clay, yellow -----	13	44	clay) -----	47	1,026		
Shale of Navarro group ----	428	472	Georgetown limestone ----	20	1,046		
Taylor marl -----	261	733	Edwards limestone -----	287	1,333		
Austin chalk -----	165	898					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 289							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	8	8	Buda limestone -----	77	561		
Clay and gravel -----	54	62	Grayson shale (Del Rio				
Shale of Navarro group ----	57	119	clay) -----	68	629		
Taylor marl -----	217	336	Georgetown limestone ----	22	651		
Austin chalk -----	148	484	Edwards limestone -----	65	716		
Well 290							
Owner: City of San Antonio.							
Soil -----	3	3	Edwards limestone:				
Caliche, rotten -----	9	12	Limestone, hard, white -	53	693		
Clay, yellow -----	53	65	Broken lost returns ----	23	716		
Shale of Navarro group ----	87	152	Limestone, hard -----	47	763		
Taylor marl -----	160	312	Limestone, very broken -	25	788		
Austin chalk -----	153	465	Cavern -----	3	791		
Eagle Ford shale -----	35	500	Limestone, hard -----	10	801		
Buda limestone -----	50	550	Broken formation, rotten-	5	806		
Grayson shale (Del Rio			Limestone, broken,				
clay) -----	55	605	rotten -----	34	840		
Georgetown limestone, hard-	35	640					
Well 293							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	3	3	Grayson shale (Del Rio				
Clay, yellow, boulders ----	64	67	clay) -----	50	510		
Shale of Navarro group ----	96	163	Georgetown limestone ----	10	520		
Taylor marl -----	82	245	Edwards limestone -----	180	700		
Austin chalk -----	125	370	(Crevice at 542-548 ft.,				
Eagle Ford shale -----	38	408	Very broken 605-650 ft.,				
Buda limestone -----	52	460	cavern 690-693 ft.)				

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 294							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	2	2	Austin chalk -----	143	644		
Caliche, hard, gravel -----	10	12	Eagle Ford shale -----	26	670		
Caliche -----	11	23	Buda limestone -----	59	729		
Clay, yellow -----	15	38	Grayson shale (Del Rio				
Clay, yellow, blue -----	14	52	clay) -----	57	786		
Shale of Navarro group ----	293	345	Georgetown limestone ----	14	800		
Taylor marl -----	156	501	Edwards limestone -----	441	1,241		
Well 295							
Owner: Bexar Metropolitan Water District. Driller: Wiegand Bros.							
Soil -----	5	5	Georgetown limestone ----	30	1,290		
Clay, surface and boulders-	33	38	Edwards limestone:				
Shale and boulders -----	513	551	Chert, hard -----	4	1,294		
Shale -----	129	680	Limestone -----	3	1,297		
Shale, hard -----	30	710	Crevice -----	10	1,307		
Shale, hard with lime			Limestone, hard -----	18	1,325		
streaks -----	110	820	Limestone, soft -----	10	1,335		
Shale, hard -----	151	971	Limestone, broken, with				
Chalk -----	149	1,120	hard streaks -----	35	1,370		
Shale -----	18	1,138	Limestone, hard -----	53	1,423		
Limestone -----	64	1,202					
Grayson shale (Del Rio clay)	58	1,260					
Well A-11							
Owner: Larry Rogers. Driller: J. R. Johnson for General Crude Oil Co.							
(Descriptions from cuttings by John R. Sandidge, Magnolia Petroleum Company)							
Limestone, white to tan, partly crystalline; small Corbulas, Common --	10	10	Orbitolina zona: Dolomite, light gray, finely crystalline; no fossils -----	10	30		
Glen Rose: Limestone, light gray, nodular, earthy; Orbito- lina texana, abundant --	10	20	Limestone, light gray, finely clastic, some dolomite; no fossils ---	20	50		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well A-11 -- Continued					
Coquina, white, and partly colitic limestone; shell fragments, abundant -----	10	60	Limestone, pink and white, mottled hard, w/slight porosity; Ostrea fragments, frequent -----	10	320
Limestone, tan, earthy; no fossils -----	10	70	Limestone, white, clastic and coquina; Ostrea fragments, common; Gastropod casts, rare -----	10	330
Limestone, white, very porous, coquina; fossils abundant -----	30	100	Similar to above w/pink and brown-iron stainings, porous; Ostrea fragments, frequent -----	10	340
Limestone, tan, clastic, partly crystalline, slightly porous; Orbitolina texana, rare -----	20	120	Limestone, light gray, clastic, coquina, w/slight porosity; shell fragments, common -----	10	350
Dolomite, light tan, finely crystalline, slightly porous; fossils, rare ---	10	130	Dolomite, light gray, finely crystalline w/frequent small green (serpentine ?) nodules; no fossils -----	30	380
Limestone, white, clastic, earthy; shell fragments, frequent; Orbitolina sp., frequent -----	30	160	Dolomite, light gray, finely crystalline w/occasional green nodules	10	390
Limestone, white, largely coquina; Ostrea fragments, frequent -----	10	170	Limestone, light gray, hard, tight; fossil fragments, common -----	30	420
Limestone, white, clastic, partly porous; fossils, common -----	70	240	Limestone, white, clastic and medium, crystalline dolomite with fair porosity; Ostrea fragments, frequent -----	10	430
Limestone, white, clastic, earthy; Orbitolina texana, frequent -----	20	260	Dolomite, light gray, crystalline, medium textured, porous, no fossils -----	20	450
Sandstone, white to pink, medium textured, limey w/slight porosity; no fossils -----	20	280	Dolomite, light gray, finely crystalline, nodular; fossils, rare -----	10	300
Sandstone, pink, medium textured, limey, porous; Ostrea fragments, frequent	10	290	Limestone, white, clastic 50% and finely crystalline dolomite 50%; fossils, rare -----	10	310
Dolomite, light gray, finely crystalline, nodular; fossils, rare -----	10	300			
Limestone, white, clastic 50% and finely crystalline dolomite 50%; fossils, rare -----	10	310	(Continued on next page)		

Drillers' logs of wells in Bexar County -- Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well A-11 -- Continued					
Shale, medium gray, sticky, with a few limestone and dolomite fragments; Ostrea fragments; frequent; Orbitolina sp., rare ----	20	520	Dolomite, light tan, finely crystalline, slightly porous, sandy; no fossils -----	10	700
Hensell?			Dolomite, light tan, porous 50%, white limey porous sandstone 50% ---	30	730
Dolomite, light gray, medium textured, crystalline 80%; white clastic, porous limestone 20%; Ostrea fragments, frequent	10	530	Hensell sand: Sandstone, white, medium textured, porous, limey-	10	740
Shale, medium gray, sticky with a few fragments of limestone and dolomite; Ostrea fragments, frequent	10	540	Sandstone, as above, with trace (10%) pink sandstone -----	10	750
Shale, medium gray, with numerous small black nodules; Ostrea fragments, frequent; Ostracods, rare; Worn crinoid stem fragments, rare -----	10	550	Sandstone, as above, with green shale 10% -----	10	760
Limestone, medium grained, clastic, with numerous small black nodules, some porosity; Ostrea fragments, frequent -----	30	580	Sandstone, white, medium textured, porous, limey 80%; pink, medium textured sandstone 10%; green shale 10% -----	20	780
Limestone, light gray, nodular, colitic, with minor porosity; Ostrea fragments, rare -----	20	600	Sandstone, pink shaley 50%; medium gray, silty shale 40%; green shale 10%; trace pyrite; oyster shell fragments, rare --	10	790
Shale, medium gray, tight, sticky; no fossils -----	5	605	Sandstone, white to light tan, medium to coarse, very porous with trace of lime cement 80%; green, unctious shale 20%; oyster shell fragments, rare -----	20	810
Dolomite, light tan, finely crystalline, porous; no fossils -----	45	650	Sandstone, white, as above, 50%; pink shaley, fine sandstone 25%; green and gray shale 25%; no fossils -----	10	820
Dolomite, light gray, fine, earthy, little porosity; no fossils -----	30	680	Conglomerate of tan limestone; varicolored chert, and medium textured sandstone, no fossils -	10	830
Dolomite, white, finely crystalline, limey, fine porosity; no fossils ----	10	690			

(Continued on next page)

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well A-11 -- Continued							
Similar to above with con- glomerate 75%; gray- green fossiliferous shale 20%; oyster shell frag- ments, rare -----	20	850	Sandstone, white, medium textured, porous 100% --	10	890		
Shale, medium gr., fine silty 75%; white, very fine, limey sandstone 25% -----	10	860	Conglomerate of limestone, varicolored chert, white sandstone, pink and gray shale, no fossils -----	20	910		
Shale, pink, silty 40%; gray silty shale 40%; varicolored chert and limestone pebbles; oyster fragments, rare -----	10	870	Shale, gray-green, silty 70%; pink shale 20%; chert conglomerate 10% -	10	920		
Shale, gray-green, silty 50%; pink, silty shale 50%; oyster fragments, frequent -----	10	880	Conglomerate of vari- colored chert 100% -----	10	930		
			Same with 20% gray-green shale -----	10	940		
			Shale, gray-green, silty 100%; oyster fragments, rare -----	10	950		
			Base of Cretaceous				
Well B-23							
Owner: U. S. Government.							
Soil, black -----	4	4	Clay, blue -----	11	210		
Gravel -----	11	15	Limestone, gray -----	37	247		
Limestone, yellow -----	10	25	Clay, blue -----	7	254		
Limestone, blue a little water -----	19	44	Limestone, gray -----	55	309		
Clay, blue -----	6	50	Limestone, crystallized --	6	315		
Limestone, blue -----	8	58	Limestone, blue -----	51	366		
Clay, blue -----	12	70	Limestone, gray -----	9	375		
Clay, blue and yellow limestone, mixed -----	25	95	Limestone, hard white ----	7	382		
Limestone, yellow -----	30	125	Limestone, gray, clay in seams -----	18	400		
Limestone, blue -----	15	140	Limestone, yellow -----	33	433		
Clay, blue -----	15	155	Clay, blue -----	54	487		
Limestone, gray -----	5	160	Limestone, gray -----	48	535		
Limestone, yellow -----	20	180	Sandstone, dark gray -----	35	570		
Limestone, yellow honey- combed -----	19	199	Clay, blue -----	50	620		
			Sandstone, blue -----	70	690		
			Stone, brown -----	18	708		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well B-23 -- Continued							
Stone, blue -----	67	775	Sandstone, red -----	10	985		
Clay, blue -----	15	790	Sandstone, gray -----	25	1,010		
Clay, red -----	2	792	Conglomerate rock, small				
Stone, brown -----	8	800	vein of water -----	5	1,015		
Clay, light blue -----	42	842	Clay, brown -----	30	1,045		
Clay, red -----	5	847	Slate -----	139	1,184		
Clay, blue -----	8	855	Slate mixed with quartz --	121	1,305		
Clay, green and red mixed -	10	865	Slate and oil -----	39	1,344		
Stone, gray -----	10	875	Slate mixed with quartz --	691	2,035		
Clay, red -----	100	975	Slate -----	465	2,500		
Well B-24							
Owner: U. S. Government. Driller: J. R. Johnson.							
Surface -----	3	3	Shale, blue -----	51	621		
Limestone, yellow -----	11	14	Limestone, sandy -----	4	625		
Limestone -----	147	161	Limestone, gray -----	135	760		
Clay, yellow -----	15	176	Shale and gray sand -----	35	795		
Clay, with limestone -----	295	471	Shale, blue -----	40	835		
Shale, bluish-green -----	18	489	Clay, red and pink and				
Limestone, blue -----	4	493	sand -----	174	1,009		
Limestone, white -----	77	570	Schist -----	13	1,022		
Well D-1							
Owner: Gus Benke. Driller: A. E. Goforth.							
Clay, yellow and rock -----	300	300	Limestone -----	60	880		
Limestone, white magnesium			Grayson shale (Del Rio				
and blue medium hard			clay) -----	60	940		
limestone -----	485	785	Edwards limestone:				
Lignite -----	35	820	Limestone -----	60	1,000		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well D-6							
Owner: Charles E. Hoffman. Driller: J. R. Johnson.							
Surface -----	4	4	Limestone -----	59	321		
Gravel, pink -----	14	18	Grayson shale (Del Rio				
Caliche -----	2	20	clay) -----	54	375		
Marl -----	22	42	Edwards limestone:				
Chalk -----	188	230	Limestone -----	91	466		
Shale (lignite) -----	32	262					
Well D-7							
Owner: Louis Tezel. Driller: A. E. Goforth.							
Rock -----	55	55	Grayson shale (Del Rio				
Lignite -----	35	90	clay) -----	60	210		
Limestone -----	60	150	Edwards limestone:				
			Limestone -----	35	245		
Well D-28							
Owner: E. J. Evers. Driller: Max Gerfers.							
No record -----	362	362	Buda limestone -----	55	807		
Anacacho limestone -----	200	562	Grayson shale (Del Rio				
Austin chalk -----	160	722	clay) -----	55	862		
Eagle Ford shale -----	30	752	Edwards limestone -----	55	917		
Well D-31							
Owner: Kallison Ranch. Driller: J. R. Johnson.							
Soil -----	2	2	Buda limestone, hard -----	63	502		
Caliche, medium -----	30	32	Grayson shale (Del Rio				
Clay, yellow -----	40	72	clay) -----	40	542		
Shale of Navarro group ----	26	98	Georgetown limestone ----	7	549		
Taylor marl -----	81	179	Edwards limestone, hard --	186	735		
Austin chalk -----	95	274	(686-729 feet salt and				
Chalk and shale, medium ---	126	400	pepper sand, hard)				
Lignite, black, hard -----	39	439					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-1							
Owner: U. S. Government well 13.				Driller: J. R. Johnson.			
Caliche and boulders -----	4	4	Limestone, white -----	25	445		
Limestone, broken yellow --	32	36	Limestone, gray -----	7	452		
Limestone, gray -----	40	76	Limestone, blue -----	200	652		
Limestone, yellow -----	88	164	Limestone, blue and shale				
Limestone, broken yellow --	37	201	strata -----	172	824		
Limestone, hard white -----	31	232	Limestone, sandy gray ----	153	977		
Limestone, yellow, crevices	52	284	Limestone, gray with hard				
Cave, water -----	2	286	white sandy sections ---	60	1,037		
Limestone, broken honeycomb	21	307	Sand, red -----	103	1,140		
Cave, honeycomb limestone -	5	312	Schist -----	2	1,142		
Limestone, broken honeycomb	68	380	(Plugged back to 445 feet)				
Limestone, loose broken ---	40	420					
Well E-2							
Owner: U. S. Government well 8.				Driller: J. R. Johnson.			
Red beds and caliche -----	25	25	Limestone, blue -----	191	253		
Limestone, yellow, water at			Limestone, yellow -----	31	284		
62 feet -----	37	62	Limestone, blue -----	5	289		
Well E-3							
Owner: U. S. Government well 3.							
Soil -----	8	8	Limestone, bluish-gray				
Limestone, yellow -----	29	37	with honeycomb rock ----	15	238		
Limestone, soft light gray-	166	203	Limestone, dark gray, 2-				
Limestone, hard white -----	20	223	inch crevices at 230				
			feet, water -----	2	240		
			Limestone, light gray ----	20	260		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-4							
Owner: U. S. Government well 5.							
Top soil -----	4	4	Limestone, blue, fossils -	155	248		
Limestone, yellow and boulders, 6 ft hard yellow clay -----	15	19	Limestone, yellow -----	43	291		
Limestone, blue -----	42	61	(Honeycomb rock and crevices at 255 feet)				
Limestone, yellow (water seep at 71 feet) -----	32	93					
Well E-10							
Owner: U. S. Government well 12. Driller: J. R. Johnson.							
Soil -----	4	4	Limestone, gray -----	89	731		
Limestone, yellow hard ----	4	8	Shale, blue -----	12	743		
Limestone, soft yellow ----	16	24	Limestone, hard gray ----	82	825		
Limestone -----	106	130	Shale, blue -----	9	834		
Shale, gray -----	33	163	Limestone, black -----	12	846		
Limestone, yellow -----	52	215	Shale, sticky blue -----	9	855		
Limestone, blue and shale -	155	370	Shale, blue cavey -----	22	877		
Limestone, blue sandy ----	55	425	Limestone, hard gray ----	6	883		
Shale, blue -----	22	447	Shale, blue, cavey -----	23	906		
Limestone, hard blue ----	20	467	Sandstone, white -----	176	1,002		
Limestone, medium and hard gray -----	143	610	Limestone, gray -----	38	1,120		
Limestone, blackish-gray sandy -----	32	642	Shale, sandy, red, blue and green -----	50	1,170		
			Limestone, grayish-black -	3	1,173		
Well E-22							
Owner: Myrtle Rains. Driller: J. R. Johnson.							
Surface -----	2	2	Limestone, yellow -----	79	205		
Rock, solid -----	10	12	Limestone, blue -----	62	267		
Cave -----	2	14	Limestone, yellow -----	7	274		
Red bed -----	46	60	Limestone, gray -----	67	341		
Limestone, hard yellow ----	25	85	Shale, blue -----	2	343		
Sand with red clay -----	41	126	Limestone, blue -----	76	419		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-24							
Owner: F. A. Talmadge. Driller: R. Page.							
Limestone -----	170	170	Limestone -----	209	529		
Shale, blue -----	20	190	Shale -----	41	570		
Limestone -----	110	300	Sand, fine water -----	30	600		
Sand, white -----	20	320					
Well E-25							
Owner: Ed Bacon. Driller: J. P. Benkendorfer.							
Limestone, buff-colored ---	14	14	Limestone, grayish-white -	10	207		
Marl, buff-colored -----	24	38	Limestone, compact cream				
Marl, yellow -----	12	50	colored -----	14	221		
Clay, yellow -----	3	53	Limestone, light cream-				
Limestone, straw-colored --	12	65	colored -----	9	230		
Limestone, yellow, fine			Limestone, yellow				
texture -----	3	68	foraminiferal -----	2	232		
Limestone, white -----	4	72	Limestone, yellow, red				
Limestone, yellow -----	6	78	blotches -----	5	237		
Limestone, white -----	11	89	Limestone, yellow and				
Limestone, cream-colored --	4	93	gray, red streaks -----	7	244		
Limestone, white -----	20	113	Limestone, blue -----	2	246		
Limestone, cream, light			Limestone, bluish-gray ---	9	255		
gray -----	5	118	Limestone, yellow -----	5	260		
Limestone, light gray with			Limestone, yellow and gray	17	277		
gray flint -----	6	124	Limestone, yellow -----	11	288		
Limestone, cream and light			Limestone, yellow and				
gray -----	5	129	light gray sandstone ---	4	292		
Limestone, compact gray ---	17	146	Dolomite, light gray ----	10	302		
Limestone, cream-colored			Limestone, gray -----	13	315		
some flint -----	12	158	Dolomite, gray -----	10	325		
Limestone, cream-colored			Limestone, gray -----	6	331		
and light gray -----	12	170	Limestone, dolomitic gray-	17	348		
Limestone, compact cream-			Limestone, oolitic				
colored -----	16	186	foraminiferal gray ----	4	352		
Limestone, cream and light			Limestone, gray and marl -	8	360		
gray -----	8	194	Limestone, gray impure ---	27	387		
Limestone, cream and some			Limestone, gray fine ----	5	392		
yellow -----	3	197	Limestone, light bluish-gray	5	397		

(Continued on next page)

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-25 -- Continued							
Limestone, fine gray -----	18	415	Limestone, gray marly and				
Limestone, soft gray marly-	41	456	bluish-gray marly shale	4	683		
Limestone, gray oolitic			Foraminiferal, light gray				
foraminiferal -----	16	472	and organic fragment				
Limestone, gray marly -----	21	493	limestone -----	24	707		
Limestone, soft gray organic	22	515	Marl, bluish-gray -----	30	737		
Limestone, gray dolomitic,			Limestone, light gray marl	6	743		
some shale -----	5	520	Limestone, light gray ----	347	1,090		
Limestone, gray			Limestone, gray -----	10	1,100		
foraminiferal -----	10	530	Limestone, dark gray -----	12	1,112		
Limestone, gray dolomitic			Limestone, dark gray and				
some quartz sand -----	5	535	gray marl -----	7	1,119		
Limestone, gray organic			Limestone, gray and white				
fragmental -----	73	608	marl -----	1	1,120		
Limestone, white			Limestone, gray and gray				
foraminiferal -----	4	612	marl -----	5	1,125		
Limestone, white fine -----	5	617	Limestone, gray, organic				
Organic fragment white,			fragment -----	19	1,144		
porous -----	9	626	Limestone, gray, some gray				
Sand, white limestone, some			marl -----	6	1,150		
quartz -----	4	630	Marl, dark gray, some dark				
Limestone, gray, some			gray limestone -----	11	1,161		
bluish-gray marly shale -	16	646	Marl, gray -----	6	1,167		
Limestone, gray -----	9	655	Limestone, gray, white				
Stalacite, fragment -----	5	660	limestone, blue marl ---	6	1,173		
Foraminiferal, gray and							
organic fragment lime-							
stone -----	19	679					
Well E-28							
Owner: Wallace Rogers. Driller: J. R. Johnson.							
Soil -----	1	1	Limestone, gray -----	43	281		
Limestone -----	159	160	Sandy, brown section ----	169	450		
Buda limestone -----	78	238					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-29							
Owner: Wallace Rogers. Driller: J. R. Johnson.							
Surface -----	1	1	Limestone, blue -----	98	598		
Red bed, cavey -----	199	200	Sand rock -----	17	615		
Limestone, blue -----	275	475	Limestone, blue -----	5	620		
Limestone, blue honeycomb -	25	500					
Well E-31							
Owner: Stowers Ranch. Driller: J. R. Johnson.							
Limestone, red with cavities, dry -----	200	200	Limestone, blue -----	103	598		
Limestone, blue -----	275	475	Sand, rock, water -----	17	615		
Limestone, blue honeycomb -	20	495	Limestone, blue -----	5	620		
Well E-34							
Owner: Wallace Rogers. Driller: J. R. Johnson.							
Soil -----	1	1	Rock, hard gray rough ----	19	204		
Red bed -----	20	21	Limestone, gray -----	104	308		
Sand, clay and gravel ----	38	59	Limestone, blue -----	185	493		
Red bed, hard and soft ----	126	185					
Well E-48							
Owner: T. A. Santleben. Driller: R. Page.							
Soil -----	4	4	Limestone -----	49	335		
Marl -----	77	81	Grayson shale (Del Rio clay) -----	41	376		
Chalk -----	172	253	Edwards limestone -----	29	405		
Shale (lignite) -----	33	286					

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Drillers' logs of wells in Bexar County -- Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-49					
Owner: J. H. Rogers. Driller: R. Page.					
Dirt, black -----	2	2	Grayson shale (Del Rio		
Limestone -----	99	101	clay) -----	35	136
			Edwards limestone -----	146	282
Well E-50					
Owner: G. D. Fillingame. Driller: J. R. Johnson.					
Soil -----	1	1	Grayson shale (Del Rio		
Limestone, broken yellow --	11	12	clay) -----	52	76
Limestone -----	12	24	Edwards limestone -----	230	306
Well E-52					
Owner: Harry Brown. Driller: J. R. Johnson.					
Surface -----	1	1	Grayson shale (Del Rio		
Limestone, broken yellow --	44	45	clay) -----	16	78
Limestone, solid -----	17	62	Edwards limestone:		
			Limestone -----	294	372
Well E-53					
Owner: Leona Bethea. Driller: J. R. Johnson.					
Surface -----	1	1	Edwards limestone:		
Chalk, broken -----	51	52	Limestone -----	227	304
Grayson shale (Del Rio clay)	25	77			
Well E-54					
Owner: E. J. Cervenka. Driller: R. Page.					
Clay, yellow -----	30	30	Edwards limestone:		
Limestone -----	50	80	Limestone -----	244	368
Grayson shale (Del Rio clay)	44	124			

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-59							
Owner: Jack Pitluk. Driller: Fred Burkett.							
Soil and subsoil -----	3	3	Edwards limestone:				
Caliche, white and gravel -	7	10	Limestone -----	4	295		
Chalk -----	143	153	Limestone, porous water-	7	302		
Shale (lignite) -----	27	180	Limestone, hard white --	13	315		
Limestone, hard white -----	60	240	Limestone, porous white-	7	322		
Grayson shale (Del Rio clay)	51	291	Limestone, hard white --	4	326		
Well E-60							
Owner: H. D. Cope. Driller: Homer Gulick.							
Chalk, hard light			Mud, blue -----	39	235		
gray -----	112	112	Limestone, yellow soft				
Shale, dark grayish-blue --	46	158	honeycomb -----	19	254		
Limestone, hard light -----	38	196	Limestone -----	1	255		
Well E-61							
Owner: Judson H. Phelps. Driller: J. R. Johnson.							
Surface -----	1	1	Grayson shale (Del Rio				
Caliche -----	17	18	clay) -----	52	293		
Chalk -----	133	151	Edwards limestone:				
Shale, (lignite) -----	35	186	Limestone -----	30	323		
Limestone -----	55	241					
Well E-64							
Owner: W. N. Johnson. Driller: J. R. Johnson.							
Soil, black -----	2	2	Grayson shale (Del Rio				
Red bed -----	116	118	clay) -----	48	250		
Shale (lignite) -----	34	152	Edwards limestone:				
Limestone -----	50	202	Limestone -----	42	292		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-66							
Owner: A. F. Ford & H. L. Graham. Driller: R. Page.							
Soil -----	2	2	Limestone -----	68	333		
Caliche -----	64	66	Grayson shale (Del Rio				
Shale, blue -----	4	70	clay) -----	27	360		
Chalk -----	175	245	Edwards limestone:				
Shale (lignite) -----	20	265	Limestone -----	81	441		
Well E-67							
Owner: G. Walker. Driller: Mid-Tex Oil Company.							
Gravel -----	17	17	Limestone, brown sandy ---	27	817		
Clay -----	16	33	Limestone, hard brown				
Sand, yellow -----	27	60	sandy -----	3	820		
Limestone, white sandy ----	25	85	Limestone, brown sandy and				
Limestone -----	10	95	blue shale -----	53	873		
Limestone, brown -----	72	167	Limestone, sandy and shale	121	994		
Limestone, yellow -----	8	175	Limestone, soft brown ----	6	1,000		
Limestone -----	52	227	Limestone, hard sandy gray	26	1,026		
Limestone, gray -----	30	257	Limestone, hard brown ----	19	1,045		
Limestone, soft -----	8	265	Limestone, soft brown ----	10	1,055		
Adobe, red -----	4	269	Limestone, hard gray ----	31	1,086		
Limestone -----	12	281	Limestone, hard -----	19	1,105		
Limestone, honeycomb -----	4	285	Shale, blue -----	4	1,109		
Limestone, hard gray -----	35	320	Limestone, hard -----	11	1,120		
Limestone, hard -----	6	326	Clay, gray -----	13	1,133		
Limestone, soft -----	19	345	Shale, gray and mud -----	2	1,135		
Limestone, gray -----	173	518	Limestone, brown -----	23	1,158		
Shale, blue broken sandy --	3	521	Limestone, gray -----	12	1,170		
Limestone, broken -----	49	570	Mud, blue -----	8	1,178		
Limestone, broken sandy ---	6	576	No record -----	2	1,180		
Limestone, sandy -----	24	600	Limestone, gray -----	10	1,190		
Limestone, gray -----	75	675	Limestone, hard brown ----	45	1,235		
Clay, gray and sticky mud -	25	700	Limestone, hard gray ----	55	1,290		
Limestone, hard -----	5	705	Limestone -----	20	1,310		
Limestone -----	7	712	Sand, brown water -----	20	1,330		
Shale, sandy -----	12	724	Limestone, hard gray ----	20	1,350		
Limestone, sandy and shale-	66	790	Limestone, gray -----	17	1,367		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-67 -- Continued							
Mud, blue -----	18	1,385	Limestone, hard -----	15	1,595		
No record -----	11	1,396	Limestone -----	20	1,615		
Limestone, hard -----	6	1,402	Sand water (water over				
Shells, mud and limestone -	34	1,436	derrick) -----	10	1,625		
Sand -----	11	1,447	Limestone -----	17	1,642		
Shale, mud and water sand -	19	1,466	Limestone, hard -----	73	1,715		
Limestone, hard -----	18	1,484	Sand, water -----	8	1,723		
Limestone, white hard -----	1	1,485	Rock, hard -----	5	1,728		
Limestone, hard -----	9	1,494	Limestone, sandy -----	14	1,742		
Limestone, water -----	18	1,512	Limestone, hard -----	27	1,769		
Limestone -----	28	1,540	Shale, gray -----	1	1,770		
Shale, blue -----	40	1,580					
Well E-70							
Owner: Jud Harrison.							
No record -----	185	185	Grayson shale (Del Rio				
Lignite -----	5	190	clay) -----	55	300		
Limestone, hard -----	55	245	Edwards limestone:				
			Limestone -----	28	328		
Well E-72							
Owner: Fred Koch. Driller: J. R. Johnson.							
Surface -----	2	2	Grayson shale (Del Rio				
Chalk, broken yellow -----	48	50	clay) -----	60	179		
Chalk, gummy yellow -----	19	69	Edwards limestone:				
Chalk, yellow -----	50	119	Limestone, yellow				
			honeycomb -----	31	210		
Well E-73							
Owner: J. D. Wheeler. Driller: J. R. Johnson.							
Surface -----	1	1	Limestone -----	52	377		
Caliche -----	69	70	Grayson shale (Del Rio				
Marl -----	86	156	clay) -----	61	438		
Chalk -----	146	302	Edwards limestone:				
Shale (lignite) -----	23	325	Limestone -----	29	467		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-74							
Owner: Alex Chitwood. Driller: J. R. Johnson.							
Surface -----	2	2	Limestone, blue -----	25	225		
Adobe -----	3	5	Limestone, yellow -----	24	249		
Clay, yellow -----	25	30	Limestone, blue -----	51	300		
Limestone, yellow -----	50	80	Limestone, yellow -----	20	320		
Limestone, blue -----	20	100	Grayson shale (Del Rio				
Limestone, yellow -----	20	120	clay) -----	96	416		
Limestone, blue -----	40	160	Edwards limestone:				
Limestone, yellow -----	40	200	Limestone -----	20	436		
Well E-75							
Owner: Frank Miller. Driller: Burkett Drilling Co.							
Soil -----	6	6	Grayson shale (Del Rio				
Chalk (water at 185 feet) -	203	209	clay) -----	43	294		
Shale (lignite) -----	28	237	Edwards limestone:				
Limestone -----	14	251	Limestone -----	31	325		
Well E-80							
Owner: E. W. Bickett. Driller: J. R. Johnson.							
Surface -----	2	2	Shale (lignite) -----	93	403		
Clay, yellow -----	54	56	Limestone -----	37	440		
Limestone, yellow -----	17	73	Grayson shale (Del Rio				
Clay -----	10	83	clay) -----	25	465		
Marl -----	123	206	Edwards limestone:				
Chalk -----	104	310	Limestone -----	33	498		
Well E-81							
Owner: C. O. Hill. Driller: Fred Burkett.							
Soil and subsoil -----	3	3	Limestone -----	53	303		
Clay, yellow and gravel ---	13	16	Grayson shale (Del Rio				
Clay, yellow -----	29	45	clay) -----	51	354		
Clay, blue -----	32	77	Edwards limestone:				
Chalk -----	146	223	Limestone -----	36	390		
Shale (lignite) -----	27	250					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-85							
Owner: Mrs. E. J. Nonmacher. Driller: J. T. Johnson.							
Soil, some gravel -----	4	4	Eagle Ford shale -----	30	379		
Clay, yellow -----	51	55	Buda limestone -----	50	429		
Clay, blue -----	145	200	Grayson shale (Del Rio				
Austin chalk, blue, some			clay) -----	46	475		
smell of sulphur -----	149	349	Edwards limestone -----	28	503		
Well E-86							
Owner: Jack McKay. Driller: Cravens Drilling Co.							
Soil -----	3	3	Austin chalk -----	210	260		
Clay, yellow -----	23	26	Water strata from 220 feet				
Anacacho limestone -----	24	50	to 260 feet.				
Well E-87							
Owner: Aggie Park. Driller: Cravens Drilling Co.							
Gravel -----	14	14	Buda limestone -----	60	406		
Clay, yellow -----	30	44	Grayson shale (Del Rio				
Anacacho limestone -----	103	147	clay) -----	64	470		
Austin chalk -----	170	317	Edwards limestone -----	20	490		
Eagle Ford shale -----	29	346					
Well E-88							
Owner: W. C. Johnson. Driller: J. T. Johnson.							
Soil -----	3	3	Buda limestone -----	67	435		
Clay, yellow -----	81	84	Grayson shale (Del Rio				
Shale, blue, marly -----	111	195	clay) -----	51	486		
Austin chalk -----	143	338	Edwards limestone -----	51	537		
Eagle Ford shale -----	30	368					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-89							
Owner: Mrs. -- Clauswitz. Driller: Burkett Drilling Co.							
Soil, black rocky -----	1	1	Buda limestone -----	28	351		
Caliche and yellow clay ---	49	50	Grayson shale (Del Rio				
Shale, gray -----	105	155	clay) -----	50	401		
Austin chalk -----	142	297	Edwards limestone -----	33	434		
Eagle Ford shale -----	26	323					
Well E-90							
Owner: Dick Jones. Driller: J. R. Johnson.							
Soil -----	3	3	Buda limestone, white and				
Caliche -----	80	83	hard -----	57	440		
Taylor marl -----	126	209	Grayson shale (Del Rio				
Austin chalk -----	141	350	clay) blue and hard ----	54	494		
Eagle Ford shale, soft,			Edwards limestone -----	89	583		
black -----	33	383					
Well E-91							
Owner: C. W. Lokey. Driller: J. T. Johnson.							
Soil and flint rock -----	30	30	Buda limestone -----	50	450		
Clay, yellow -----	30	60	Grayson shale (Del Rio				
Shale, blue -----	165	225	clay) -----	58	508		
Austin chalk -----	150	375	Edwards limestone -----	95	603		
Eagle Ford shale -----	25	400					
Well E-92							
Owner: Sebastian J. Evers. Driller: Max H. Gerfers.							
Soil -----	4	4	Buda limestone -----	48	289		
Clay, yellow -----	48	52	Grayson shale (Del Rio				
Austin chalk -----	160	212	clay) -----	62	351		
Eagle Ford shale -----	29	241	Edwards limestone -----	19	370		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-93							
Owner: Duane C. Babcock. Driller: Cravens Drilling Co.							
Buda limestone, broken ----	5	5	Georgetown limestone and Edwards limestone -----	53	126		
Grayson shale (Del Rio clay) -----	68	73	Edwards limestone -----	178	304		
Well E-94							
Owner: J. P. McGee, Jr. Driller: Max H. Gerfers.							
Grayson shale (Del Rio clay) -----	50	50	Georgetown limestone -----	30	80		
			Edwards limestone -----	213	293		
Well E-95							
Owner: C. J. Leick. Driller: Burkett Drilling Co.							
Soil -----	2	2	Edwards limestone -----	309	353		
Clay, yellow -----	42	44					
Well E-96							
Owner: Jack Judson. Driller: Max H. Gerfers.							
Soil -----	2	2	Grayson shale (Del Rio clay) -----	45	83		
Buda limestone -----	36	38	Edwards limestone -----	280	363		
Well E-97, partial log							
Owner: H. C. Storrie. Driller: Cravens Drilling Co.							
Soil -----	2	2	Georgetown limestone -----	78	185		
Clay, yellow -----	4	6	Edwards limestone -----	116	301		
Buda limestone -----	50	56	TOTAL DEPTH -----		321		
Grayson shale (Del Rio clay)	51	107					

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-98							
Owner: James W. Perkins. Driller: Burkett Drilling Co.							
Rock, broken and soil -----	2	2	Edwards limestone -----	266	350		
Buda limestone -----	30	32	(Cavity from 85 - 89				
Grayson shale (Del Rio clay)	52	84	feet)				
Well E-99							
Owner: H. E. Gehring. Driller: Cravens Drilling Co.							
Soil with rocks -----	2	2	Georgetown and Edwards				
Buda limestone, hard -----	17	19	limestones -----	73	145		
Grayson shale (Del Rio			Edwards limestone -----	142	287		
clay) -----	53	72					
Well E-102							
Owner: Jack Lauthan. Driller: L. V. Doss.							
Soil -----	6	6	Edwards limestone, hard,				
Gumbo, black -----	4	10	soft spots -----	37	250		
Caliche -----	17	27	Edwards limestone,				
Edwards limestone, white,			honeycomb -----	9	259		
yellow and gray -----	131	158	Edwards limestone, some				
Cavity, large, dry -----	12	170	soft spots -----	43	302		
Edwards limestone, very hard	25	195	Limestone, mushy, sandy --	1	303		
Making first water, water							
start at 180 feet -----	18	213					
Well E-103, partial log							
Owner: G. R. Silen. Driller: Burkett Drilling Co.							
Soil -----	3	3	Grayson shale (Del Rio				
Austin chalk -----	90	93	clay) -----	50	200		
Lignite -----	27	120	Edwards limestone -----	70	270		
Buda limestone -----	30	150	TOTAL DEPTH -----		287		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-104							
Owner: Ira N. Block. Driller: Burkett Drilling Co.							
Soil -----	2	2	Lignite -----	31	327		
Caliche -----	9	11	Buda limestone -----	48	375		
Clay, yellow -----	49	60	Grayson shale (Del Rio				
Shale, gray -----	83	143	clay) -----	55	430		
Austin chalk -----	153	296	Edwards limestone -----	60	490		
Well E-105							
Owner: L. E. Felton. Driller: J. R. Johnson.							
Soil -----	1	1	Grayson shale (Del Rio				
Chalk, broken -----	49	50	clay) -----	54	222		
Chalk, gummy -----	19	69	Edwards limestone, very				
Chalk, hard -----	99	168	hard and yellow -----	52	274		
Well E-121							
Owner: C. B. Peters. Driller: Max Gerfers.							
Soil -----	1	1	Edwards limestone -----	248	249		
Well E-122							
Owner: Wallace Rodgers. Driller: J. T. Johnson.							
Clay, yellow and boulders -	60	60	Limestone, blue -----	236	656		
Edwards limestone -----	360	420					
Well E-123							
Owner: Wallace Rodgers. Driller: J. T. Johnson.							
Clay and red rock -----	30	30	Edwards limestone -----	341	385		
Georgetown limestone -----	14	44	Limestone, blue -----	72	457		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-126							
Owner: Walter Classen. Driller: Cravens Drilling Co.							
No record -----	404	404	Water strata -----	7	512		
Glen Rose limestone -----	87	491	Glen Rose limestone -----	1	513		
Shale, hard -----	14	505					
Well E-127							
Owner: Walter Classen. Driller: Cravens Drilling Co.							
Soil -----	2	2	Glen Rose limestone -----	179	340		
Edwards limestone -----	159	161					
Well E-132, partial log							
Owner: Naylor Martin. Driller: L. V. Doss.							
Soil, gumbo and rocks -----	3	3	Edwards limestone -----	5	125		
Limestone, yellow -----	32	35	Edwards limestone, dry,				
Limestone rock -----	10	45	cavey -----	85	210		
Shale, blue -----	40	85	Edwards limestone, broken -	15	225		
Edwards limestone, broken -	35	120	TOTAL DEPTH -----		293		
Well E-148							
Owner: Edward Horton. Driller: L. V. Doss.							
Soil -----	2	2	Grayson shale (Del Rio				
Caliche and yellow lime ---	38	40	clay) -----	65	265		
Limestone, hard yellow ----	5	45	Georgetown and Edwards				
Limestone, yellow -----	79	124	limestones -----	34	299		
Limestone, soft yellow ----	20	144	Edwards limestone, porous -	21	320		
Shale, gray, lignite -----	21	165	Edwards limestone -----	50	370		
Buda limestone, yellow,							
and white -----	35	200					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well E-150					
Owner: City Water Board. Driller: J. R. Johnson.					
Soil -----	6	6	Buda limestone -----	48	308
Caliche -----	22	28	Grayson shale (Del Rio		
Clay of Navarro group -----	55	83	clay) -----	50	358
Austin chalk -----	148	231	Georgetown limestone -----	14	372
Eagle Ford shale -----	29	260	Edwards limestone -----	478	850
Well E-153					
Owner: K. C. Blich. Driller: Cravens Drilling Co.					
Soil -----	4	4	Buda limestone -----	62	405
Clay, yellow -----	69	73	Grayson shale (Del Rio		
Taylor marl -----	122	195	clay) -----	61	466
Austin chalk -----	118	313	Edwards limestone -----	37	503
Eagle Ford shale -----	30	343			
Well E-154					
Owner: Oblate Fathers. Driller: Cravens Drilling Co.					
Soil -----	4	4	Buda limestone -----	57	402
Shale, blue -----	66	70	Grayson shale (Del Rio		
Marl, yellow -----	120	190	clay) -----	53	455
Austin chalk -----	130	320	Edwards limestone -----	52	507
Eagle Ford shale -----	25	345			
Well E-167					
Owner: North Side Water Co. Driller: Cravens Drilling Co.					
Soil -----	3	3	Eagle Ford shale -----	31	341
Clay, yellow -----	64	67	Buda limestone -----	58	399
Taylor marl -----	117	184	Grayson shale (Del Rio		
Anacacho limestone -----	12	196	clay) -----	57	456
Austin chalk -----	114	310	Edwards limestone -----	178	634

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-7							
Owner: W. S. Marshall. Driller: J. R. Johnson.							
Soil and boulders -----	4	4	Limestone, broken -----	229	315		
Limestone, hard -----	82	86	Limestone, gray -----	15	330		
Well F-8							
Owner: Louis Yates. Driller: J. R. Johnson.							
Surface -----	1	1	Limestone -----	105	310		
Red bed and boulders -----	204	205	Flint streaks -----	7	317		
Well F-25, partial log							
Owner: A. B. Watson. Driller: J. R. Johnson.							
Surface -----	2	2	Chalk -----	157	255		
Rock, white -----	7	9	Shale (lignite) -----	15	270		
Clay, yellow -----	71	80	TOTAL DEPTH -----		500		
Shale, blue -----	18	98					
Well F-27							
Owner: V. W. Benkendorfer, Jr. Driller: J. R. Johnson.							
Surface -----	1	1	Edwards limestone:				
Caliche, yellow -----	56	57	Limestone -----	9	412		
Shale, gray -----	78	135	Limestone, hard flint				
Chalk, white and yellow ---	139	274	streaks, honeycomb				
Shale (lignite) -----	27	301	and crevices -----	270	682		
Limestone, white -----	54	355					
Grayson shale (Del Rio clay)	48	403					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-31							
Owner: Oscar Pape. Driller: J. R. Johnson.							
Surface -----	2	2	Grayson shale (Del Rio				
Caliche -----	10	12	clay) -----	54	279		
Chalk -----	93	105	Edwards limestone:				
Shale -----	71	176	Limestone -----	21	300		
Limestone -----	49	225					
Well F-35							
Owner: W. W. Smith. Driller: R. Page.							
Gravel -----	20	20	Grayson shale (Del Rio				
Chalk, yellow -----	70	90	clay) -----	53	218		
Shale, soft black (lignite)	25	115	Edwards limestone:				
Limestone, hard white -----	50	165	Limestone, hard yellow -	46	264		
Well F-37							
Owner: Carl Wurzbach. Driller: J. R. Johnson.							
Surface -----	2	2	Grayson shale (Del Rio				
Clay, yellow -----	10	12	clay) -----	48	108		
Chalk -----	48	60	Edwards limestone:				
			Limestone -----	222	330		
Well F-39							
Owner: Gerald Mellif. Driller: J. R. Johnson.							
Surface -----	1	1	Grayson shale (Del Rio				
Limestone, yellow -----	24	25	clay) -----	30	75		
Clay, yellow -----	20	45	Edwards limestone:				
			Limestone -----	165	240		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-40							
Owner: R. V. Smith. Driller: Geo. E. Brauchle.							
Clay -----	100	100	Edwards limestone:				
Limestone -----	120	220	Limestone and yellow				
Lignite -----	25	245	clay -----	10	370		
Limestone -----	55	300	Limestone, dark -----	35	405		
Grayson shale (Del Rio			Limestone, light				
clay) -----	60	360	colored -----	10	415		
Well F-42							
Owner: D. E. Pace. Driller: J. R. Johnson.							
Surface -----	1	1	Shale (lignite) -----	25	140		
Clay -----	1	2	Limestone -----	43	183		
Gravel -----	5	7	Grayson shale (Del Rio				
Chalk, broken yellow -----	63	70	clay) -----	49	232		
Clay, blue -----	5	75	Edwards limestone:				
Chalk, yellow -----	40	115	Limestone -----	8	240		
Well F-43							
Owner: W. C. Arnett. Driller: J. R. Johnson.							
Surface -----	3	3	Grayson shale (Del Rio				
Gravel, yellow -----	12	15	clay) -----	59	251		
Chalk -----	105	120	Edwards limestone:				
Shale (lignite) -----	27	147	Limestone -----	9	260		
Limestone -----	45	192					
Well F-44							
Owner: M. L. Thompson. Driller: R. Page.							
Surface gravel -----	2	2	Grayson shale (Del Rio				
Chalk -----	103	105	clay) -----	47	233		
Shale (lignite) -----	20	125	Edwards limestone:				
Limestone -----	61	186	Limestone -----	12	245		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-45							
Owner: Mrs. A. E. Wallenhaupt. Driller: J. R. Johnson.							
Surface -----	1	1	Grayson shale (Del Rio				
Gravel -----	15	16	clay) -----	44	141		
Clay, yellow -----	25	41	Edwards limestone:				
Limestone, yellow -----	56	97	Limestone -----	49	190		
Well F-46							
Owner: C. J. Whall. Driller: J. R. Johnson.							
Surface -----	1	1	Grayson shale (Del Rio				
Gravel, yellow -----	15	16	clay) -----	50	147		
Clay, yellow -----	25	41	Edwards limestone:				
Limestone, yellow -----	56	97	Limestone -----	53	200		
Well F-49							
Owner: San Antonio International Airport. Driller: J. R. Johnson.							
Surface -----	1	1	Chalk -----	85	193		
Gravel -----	17	18	Shale -----	26	219		
Clay, yellow -----	2	20	Limestone, white -----	51	270		
Shale, blue -----	15	35	Grayson shale (Del Rio				
Clay, yellow -----	6	41	clay) -----	40	310		
Shale, blue -----	14	55	Edwards limestone:				
Clay, yellow -----	33	88	Limestone -----	92	402		
Marl -----	20	108					
Well F-50							
Owner: R. J. Scott. Driller: J. R. Johnson.							
Surface -----	1	1	Grayson shale (Del Rio				
Clay, yellow and boulders -	24	25	clay) -----	56	281		
Gravel, yellow -----	55	80	Edwards limestone:				
Limestone, broken, blue ---	145	225	Limestone -----	52	333		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-51							
Owner: Louis Magers. Driller: J. R. Johnson.							
Surface -----	2	2	Limestone -----	41	430		
Clay, yellow -----	54	56	Grayson shale (Del Rio				
Marl -----	168	224	clay) -----	63	493		
Chalk -----	138	362	Edwards limestone:				
Shale -----	27	389	Limestone -----	9	502		
Well F-52							
Owner: B. G. Rothwell. Driller: J. R. Johnson.							
Surface -----	2	2	Chalk -----	127	259		
Clay, yellow -----	50	52	Shale (lignite) -----	7	266		
Marl -----	80	132					
Well F-54							
Owner: E. A. Scott. Driller: J. R. Johnson.							
Surface -----	3	3	Limestone, green and				
Gravel, red -----	4	7	white sandy -----	12	184		
Caliche, yellow -----	40	47	Limestone, yellow				
Marl, blue -----	122	169	sandy -----	12	196		
Rock, white -----	3	172					
Well F-57							
Owner: City Airport. Driller: J. R. Johnson.							
Surface -----	3	3	Limestone -----	51	323		
Gravel, yellow -----	23	26	Grayson shale (Del Rio				
Clay, yellow -----	9	35	clay) -----	47	370		
Clay -----	57	92	Edwards limestone:				
Chalk -----	157	249	Limestone -----	91	461		
Shale (lignite) -----	23	272					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-63							
Owner: Mrs. M. L. Gravely. Driller: Amos Lorenz.							
Limestone, soft adobe -----	17	17	Grayson shale (Del Rio				
Limestone, hard -----	170	187	clay) -----	60	332		
Lignite -----	35	222	Edwards limestone:				
Limestone, hard -----	50	272	Limestone, hard -----	7	339		
Well F-64							
Owner: Earl Fuller. Driller: R. Page.							
Soil -----	5	5	Grayson shale (Del Rio				
Gravel -----	10	15	clay) -----	40	290		
Chalk -----	150	165	Edwards limestone:				
Shale (lignite) -----	25	190	Limestone -----	58	348		
Limestone -----	60	250					
Well F-65							
Owner: L. L. LeRoy. Driller: R. Page.							
Soil -----	2	2	Grayson shale (Del Rio				
Rock -----	18	20	clay) -----	53	245		
Chalk -----	95	115	Edwards limestone:				
Shale (lignite) -----	20	135	Limestone -----	114	359		
Limestone -----	57	192					
Well F-66							
Owner: Napier Rogers. Driller: J. R. Johnson.							
Surface -----	2	2	Grayson shale (Del Rio				
Clay, yellow -----	16	18	clay) -----	54	234		
Chalk -----	99	117	Edwards limestone:				
Shale (lignite) -----	20	137	Limestone -----	84	318		
Limestone -----	43	180					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-69							
Owner: Hal W. Hartline. Driller: J. R. Johnson.							
Surface -----	4	4	Limestone -----	54	200		
Gravel and yellow clay ----	8	12	Grayson shale (Del Rio				
Rock -----	13	25	clay) -----	52	252		
Clay, yellow -----	65	90	Edwards limestone:				
Chalk -----	33	123	Limestone -----	32	284		
Shale (lignite) -----	23	146					
Well F-70							
Owner: R. A. Wagner. Driller: J. R. Johnson.							
Surface -----	1	1	Rock, hard -----	5	205		
Clay, yellow, and gravel --	5	6	Grayson shale (Del Rio				
Chalk, hard -----	19	25	clay) -----	50	255		
Chalk, medium -----	100	125	Edwards limestone:				
Shale (lignite) -----	29	154	Limestone -----	31	286		
Limestone, white -----	46	200					
Well F-71							
Owner: Elmer Schneider. Driller: R. Page.							
Soil -----	2	2	Grayson shale (Del Rio				
Chalk -----	166	168	clay) -----	42	240		
Shale (lignite) -----	10	178	Edwards limestone:				
Limestone -----	20	198	Limestone -----	75	315		
Well F-72							
Owner: W. D. Engle. Driller: R. Page.							
Soil -----	4	4	Limestone -----	66	395		
Clay, yellow -----	36	40	Grayson shale (Del Rio				
Marl -----	108	148	clay) -----	30	425		
Chalk -----	156	304	Edwards limestone:				
Shale (lignite) -----	25	329	Limestone -----	30	455		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-74							
Owner: J. E. McCord. Driller: J. R. Johnson.							
Surface -----	2	2	Limestone -----	55	389		
Clay, yellow -----	43	45	Grayson shale (Del Rio				
Clay -----	84	129	clay) -----	48	437		
Marl -----	73	202	Edwards limestone:				
Chalk -----	114	316	Limestone -----	20	457		
Shale (lignite) -----	18	334					
Well F-75							
Owner: V. W. Benkendorfer, Jr. Driller: J. R. Johnson.							
Soil -----	4	4	Limestone -----	50	300		
Gravel, yellow -----	44	48	Grayson shale (Del Rio				
Clay -----	22	70	clay) -----	44	344		
Marl -----	14	84	Edwards limestone:				
Chalk -----	116	200	Limestone -----	94	438		
Shale (lignite) -----	50	250					
Well F-81							
Owner: Henry Robards. Driller: J. R. Johnson.							
Soil -----	2	2	Edwards limestone:				
Clay, yellow -----	70	72	Limestone, brown -----	86	450		
Marl -----	32	104	Limestone, white -----	11	461		
Chalk -----	126	230	Limestone, black -----	3	464		
Shale (lignite) -----	34	264	Limestone -----	45	509		
Limestone -----	44	308					
Grayson shale (Del Rio clay)	56	364					
Well F-82							
Owner: Henry Robards. Driller: J. R. Johnson.							
Soil -----	2	2	Limestone -----	52	334		
Adobe -----	38	40	Grayson shale (Del Rio				
Marl -----	78	118	clay) -----	51	385		
Chalk -----	132	250	Edwards limestone:				
Shale -----	32	282	Limestone -----	32	417		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-85							
Owner: Grandma Cookie Co. Driller: J. R. Johnson.							
Surface -----	1	1	Limestone -----	30	310		
Clay, yellow -----	11	12	Grayson shale (Del Rio				
Clay, yellow and gravel ---	16	28	clay) -----	56	366		
Shale -----	74	102	Edwards limestone:				
Chalk -----	154	256	Limestone, very porous -	76	442		
Shale (lignite) -----	24	280					
Well F-88							
Owner: J. C. Keir. Driller: J. R. Johnson.							
Dirt, black -----	2	2	Shale (lignite) -----	21	231		
Clay, yellow -----	35	37	Limestone -----	35	266		
Gravel -----	6	43	Grayson shale (Del Rio				
Shale, blue -----	38	81	clay) -----	55	321		
Marl, hard -----	64	145	Edwards limestone:				
Chalk -----	65	210	Limestone, hard -----	55	376		
Well F-89							
Owner: Edgar Tobin. Driller: J. R. Johnson.							
Soil -----	4	4	Grayson shale (Del Rio				
Gravel -----	12	16	clay) -----	37	268		
Chalk -----	152	168	Edwards limestone:				
Shale (lignite) -----	35	203	Limestone -----	79	347		
Limestone -----	28	231					
Well F-96							
Owner: Mrs. M. C. Robbins. Driller: Cravens Drilling Co.							
Soil -----	8	8	Grayson shale (Del Rio				
Caliche -----	64	72	clay) -----	53	301		
Austin chalk -----	144	216	Limestone broken and oil				
Eagle Ford shale -----	32	248	strata -----	49	350		
			Edwards limestone, hard --	38	388		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-98							
Owner: John T. Meador. Driller: J. R. Johnson.							
Clay, yellow -----	70	70	Grayson shale (Del Rio				
Shale, blue -----	60	130	clay) -----	100	410		
Austin chalk -----	98	228	Georgetown limestone,				
Eagle Ford shale -----	40	268	sulphur -----	30	440		
Buda limestone -----	42	310	Edwards limestone -----	85	525		
Well F-99							
Owner: M. H. Albrecht. Driller: Cravens Drilling Co.							
Soil -----	4	4	Buda limestone -----	68	298		
Caliche -----	26	30	Grayson shale (Del Rio				
Serpentine -----	15	45	clay) -----	45	343		
Austin chalk -----	160	205	Edwards limestone -----	32	375		
Eagle Ford shale -----	25	230					
Well F-100							
Owner: Mrs. Frank Campbell. Driller: Cravens Drilling Co.							
Soil -----	3	3	Eagle Ford shale -----	28	392		
Caliche -----	79	82	Buda limestone -----	58	450		
Taylor marl -----	53	135	Grayson shale (Del Rio				
Anacacho limestone -----	84	219	clay) -----	52	502		
Serpentine -----	6	225	Edwards limestone -----	10	512		
Austin chalk -----	139	364					
Well F-101							
Owner: D. E. Cruse. Driller: Cravens Drilling Co.							
Soil -----	5	5	Austin chalk -----	85	205		
Gravel -----	2	7	Eagle Ford shale -----	45	250		
Clay, yellow -----	23	30	Buda limestone -----	5	255		
Taylor marl, hard -----	90	120					

Drillers' logs of wells in Bexar County -- Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well F-103					
Owner: Paul F. Gueldner. Driller: Cravens Drilling Co.					
Soil -----	4	4	Taylor marl, hard -----	84	153
Gravel and clay -----	15	19	Anacacho limestone -----	18	171
Caliche -----	50	69	Austin chalk -----	29	200
Well F-104					
Owner: D. J. Dunning. Driller: Cravens Drilling Co.					
Soil -----	3	3	Taylor marl -----	44	113
Gravel -----	7	10	Serpentine -----	9	122
Clay, yellow -----	8	18	Austin chalk -----	31	153
Caliche -----	51	69			
Well F-107					
Owner: York Trucks, Inc. Driller: Cravens Drilling Co.					
Soil -----	3	3	Buda limestone -----	53	445
Clay, yellow -----	64	67	Grayson shale (Del Rio		
Anacacho limestone -----	151	218	clay) -----	49	494
Austin chalk -----	141	359	Edwards limestone -----	11	505
Eagle Ford shale -----	33	392			
Well F-108					
Owner: Mrs. Nellie C. Magness. Driller: J. R. Johnson.					
Gravel -----	6	6	Lignite -----	51	222
Clay -----	4	10	Buda limestone -----	58	280
Clay and gravel -----	30	40	Grayson shale (Del Rio		
Caliche -----	3	43	clay) -----	54	334
Shale of Navarro group ----	14	57	Georgetown limestone ----	10	344
Austin chalk -----	114	171	Edwards limestone -----	76	420

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-109							
Owner: Mrs. Gladys Mayo. Driller: J. R. Johnson.							
Soil -----	6	6	Grayson shale (Del Rio				
Clay and gravel -----	66	72	clay) -----	57	342		
Austin chalk, hard -----	133	205	Georgetown limestone -----	6	348		
Lignite -----	25	230	Edwards limestone -----	37	385		
Buda limestone -----	55	285					
Well F-110							
Owner: J. R. Marshall. Driller: J. R. Johnson.							
Soil -----	6	6	Grayson shale (Del Rio				
Clay and gravel -----	26	32	clay), blue, medium ----	52	332		
Taylor marl, blue and hard-	30	62	Georgetown limestone, gray	5	337		
Chalk, gray, hard -----	133	195	Edwards limestone -----	103	440		
Lignite, black, medium ----	27	222					
Buda limestone, white, hard	58	280					
Well F-112							
Owner: Bob Krudwig. Driller: Burkett Drilling Co.							
Soil -----	4	4	Rock, hard white -----	132	222		
Caliche and yellow clay ---	24	28	Eagle Ford shale -----	27	249		
Gravel -----	8	36	Buda limestone -----	59	308		
Shale, cream-colored -----	16	52	Grayson shale (Del Rio				
Shale, gray chalky -----	14	66	clay) -----	61	369		
Chalk, hard, light gray ---	22	88	Edwards limestone -----	227	596		
Sulphur water -----	2	90					
Well F-113							
Owner: Lawhon Courts. Driller: Cravens Drilling Co.							
Clay, yellow and gravel ---	30	30	Grayson shale (Del Rio				
Austin chalk -----	150	180	clay) -----	55	325		
Eagle Ford shale -----	30	210	Edwards limestone -----	30	355		
Buda limestone -----	60	270					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-114							
Owner: Jack Toler. Driller: Cravens Drilling Co.							
Soil -----	2	2	Eagle Ford shale -----	28	257		
Clay, yellow -----	3	5	Buda limestone -----	44	301		
Gravel and clay -----	12	17	Grayson shale (Del Rio				
Caliche -----	14	31	clay) -----	54	355		
Anacacho limestone -----	45	76	Georgetown and Edwards				
Austin chalk (water at			limestones -----	24	379		
85 feet) -----	153	227	Edwards limestone -----	9	388		
Well F-115							
Owner: Arthur Jung. Driller: Cravens Drilling Co.							
Soil -----	2	2	Gravel and caliche -----	3	18		
Gravel and sandy clay -----	13	15	Austin chalk -----	103	121		
Well F-119							
Owner: F. C. Chaney. Driller: Cravens Drilling Co.							
Soil -----	1	1	Taylor marl, hard -----	55	92		
Caliche -----	36	37	Austin chalk -----	98	190		
Well F-120							
Owner: Howard Jureczki. Driller: Cravens Drilling Co.							
Soil -----	2	2	Buda limestone -----	51	242		
Caliche -----	22	24	Grayson shale (Del Rio				
Austin chalk -----	147	171	clay) -----	50	292		
Eagle Ford shale -----	20	191	Edwards limestone -----	13	305		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-123							
Owner: --Wrockloff. Driller: Cravens Drilling Co.							
Soil -----	2	2	Anacacho limestone -----	35	61		
Gravel -----	16	18	Austin chalk -----	74	135		
Clay, yellow -----	8	26					
Well F-126							
Owner: Northview Country Club. Driller: J. R. Johnson.							
Soil -----	1	1	Lignite -----	35	362		
Caliche, white, hard -----	5	6	Buda limestone -----	58	420		
Clay, yellow -----	69	75	Grayson shale (Del Rio				
Taylor marl -----	100	175	clay) -----	48	468		
Austin chalk -----	152	327	Edwards limestone -----	60	528		
Well F-127							
Owner: Fred W. Huber. Driller: J. R. Johnson.							
Soil -----	3	3	Buda limestone, white,				
Flint rock, red -----	2	5	very hard -----	45	400		
Clay, yellow, medium -----	55	60	Grayson shale (Del Rio				
Taylor marl, gray, medium -	170	230	clay), blue, medium ----	45	445		
Austin chalk, white,			Georgetown limestone ----	5	450		
medium -----	95	325	Edwards limestone -----	60	510		
Lignite, medium -----	30	355					
Well F-128							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Soil -----	1	1	Lignite -----	31	366		
Caliche -----	3	4	Buda limestone -----	48	414		
Sand and gravel -----	25	29	Grayson shale (Del Rio				
Clay, yellow and gravel ---	37	66	clay) -----	51	465		
Taylor marl -----	128	194	Georgetown limestone ----	6	471		
Chalk with broken streaks -	141	335	Edwards limestone -----	129	600		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-129							
Owner: Mrs. E. A. Sibley. Driller: J. R. Johnson.							
Soil -----	3	3	Buda limestone -----	46	400		
Clay, yellow -----	57	60	Grayson shale (Del Rio				
Shale, blue -----	115	175	clay) -----	48	448		
Austin chalk -----	149	324	Edwards limestone -----	53	501		
Eagle Ford shale -----	30	354					
Well F-131							
Owner: J. W. Pickins, Jr. Driller: Cravens Drilling Co.							
Soil -----	2	2	Austin chalk -----	140	165		
Gravel and clay -----	10	12	Eagle Ford shale -----	27	192		
Caliche -----	13	25	Buda limestone -----	50	242		
Well F-132							
Owner: San Antonio Municipal Airport. Driller: Cravens Drilling Co.							
Soil -----	3	3	Eagle Ford shale -----	18	182		
Gravel and clay -----	16	19	Buda limestone -----	45	227		
Clay, yellow -----	26	45	Grayson shale (Del Rio				
Serpentine -----	20	65	clay) -----	53	280		
Austin chalk -----	99	164	Edwards limestone -----	68	348		
Well F-133							
Owner: Clyde Wantland. Driller: Cravens Drilling Co.							
Soil -----	2	2	Buda limestone -----	48	249		
Gravel and clay -----	12	14	Grayson shale (Del Rio				
Caliche -----	15	29	clay) -----	50	299		
Austin chalk -----	144	173	Edwards limestone -----	6	305		
Eagle Ford shale -----	28	201					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-140							
Owner: Lamar W. Turner. Driller: Cravens Drilling Co.							
Soil -----	1	1	Anacacho limestone -----	51	70		
Gravel with brown clay ----	12	13	Austin chalk -----	70	140		
Caliche, white -----	6	19					
Well F-142							
Owner: San Antonio Public Service Co. Driller: J. R. Johnson.							
Soil -----	1	1	Edwards limestone -----	92	369		
Austin chalk, broken -----	124	125	(solid to 332 feet; caves,				
Eagle Ford shale -----	22	147	332-333 feet; hard lime-				
Buda limestone, hard -----	55	202	stone 334-336 feet;				
Grayson shale (Del Rio clay)	55	257	broken but hard 336-340				
Georgetown limestone -----	20	277	feet; cave 346-348 feet;				
			hard 365-369 feet)				
Well F-144							
Owner: T. H. Parham. Driller: Cravens Drilling Co.							
Soil -----	1	1	Buda limestone -----	54	439		
Clay, yellow -----	45	46	Grayson shale (Del Rio				
Anacacho limestone -----	141	187	clay) -----	58	497		
Serpentine -----	12	199	Georgetown limestone ----	20	517		
Austin chalk -----	158	357	Edwards limestone -----	47	564		
Eagle Ford shale -----	28	385					
Well F-145							
Owner: W. E. Hunter. Driller: Cravens Drilling Co.							
Soil -----	3	3	Austin chalk -----	138	325		
Gravel -----	2	5	(Honeycomb bed from 306 to				
Clay, yellow -----	36	41	325 feet)				
Anacacho limestone -----	146	187					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well F-160				
Owner: Northeast Rural High School. Driller: Cravens Drilling Co.				
Soil -----	3	3	Austin chalk -----	119 329
Caliche -----	6	9	Eagle Ford shale -----	32 361
Gravel -----	7	16	Buda limestone, hard,	
Clay, yellow -----	5	21	white -----	58 419
Gravel -----	11	32	Grayson shale (Del Rio	
Shale, blue -----	52	84	clay) -----	51 470
Anacacho limestone, marly -	126	210	Edwards limestone -----	22 492
Well F-167				
Owner: John Hilburn. Driller: Cravens Drilling Co.				
Soil -----	1	1	Eagle Ford shale -----	28 224
Caliche -----	18	19	Buda limestone -----	58 282
Clay, yellow -----	28	47	Grayson shale (Del Rio	
Anacacho limestone -----	29	76	clay) -----	49 331
Austin chalk -----	120	196	Edwards limestone -----	49 380
Well F-168				
Owner: -- Chilcott. Driller: Cravens Drilling Co.				
Soil -----	1	1	Eagle Ford shale -----	31 193
Gravel -----	11	12	Buda limestone, hard -----	58 251
Clay, yellow -----	8	20	Grayson shale (Del Rio	
Marl, yellow, chalky -----	21	41	clay) -----	51 302
Austin chalk -----	121	162	Edwards limestone -----	100 402

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-170							
Owner: N. C. Mashburn. Driller: L. V. Doss.							
Soil, black gumbo -----	4	4	Shale, black with lignite-	2	91		
Caliche, gravel, rocks ----	16	20	Chalk and blue shale -----	9	100		
Gravel -----	4	24	Grayson shale (Del Rio				
Shale, gray -----	12	36	clay) -----	50	150		
Marl, yellow and white lime	22	58	Edwards limestone -----	30	180		
Austin chalk -----	27	85	Edwards limestone, (hard --	5	185		
Limestone, hard, break ----	2	87	Edwards limestone (very				
Austin chalk -----	2	89	strong water section) --	10	195		
Well F-177							
Owner: Texas Highway Department. Driller: Cravens Drilling Co.							
Soil -----	2	2	Grayson shale (Del Rio				
Austin chalk -----	118	120	clay) -----	53	266		
Eagle Ford shale -----	32	152	Edwards limestone -----	24	290		
Buda limestone -----	61	213					
Well F-178							
Owner: Mac Arthur Park. Driller: Cravens Drilling Co.							
Caliche -----	22	22	Grayson shale (Del Rio				
Serpentine ? -----	9	31	clay) -----	51	249		
Austin chalk -----	87	118	Edwards limestone -----	48	297		
Eagle Ford shale -----	28	146	(Water strata at 263 and				
Buda limestone -----	52	198	294 feet)				
Well F-180							
Owner: Jack Morton. Driller: Cravens Drilling Co.							
Soil -----	5	5	Grayson shale (Del Rio				
Gravel -----	4	9	clay) -----	52	248		
Austin chalk -----	101	110	Edwards limestone -----	19	267		
Eagle Ford shale -----	31	141	(Water strata at 257-260				
Buda limestone -----	55	196	and 265-267 feet.)				

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-182							
Owner: --Cruz. Driller: Cravens Drilling Co.							
Soil -----	3	3	Austin chalk -----	89	329		
Gravel -----	13	16	Eagle Ford shale -----	31	360		
Clay, yellow -----	16	32	Buda limestone -----	56	416		
Caliche -----	9	41	Grayson shale (Del Rio				
Anacacho limestone -----	105	146	clay) -----	52	468		
Taylor marl, hard -----	94	240	Edwards limestone -----	30	498		
Well F-185							
Owner: D. A. Beaty. Driller: Cravens Drilling Co.							
No record -----	453	453	Grayson shale (Del Rio				
Austin chalk -----	89	542	clay) -----	53	684		
Eagle Ford shale -----	37	579	Georgetown limestone -----	8	692		
Buda limestone -----	52	631					
Well F-186							
Owner: E. P. McCall. Driller: Cravens Drilling Co.							
Soil -----	4	4	Anacacho limestone -----	171	203		
Clay, yellow -----	28	32	Austin chalk -----	157	360		
Well F-187, partial log							
Owner: Mrs. H. Dickson. Driller: A. Marckwardt.							
No record -----	190	190	Grayson shale (Del Rio				
Eagle Ford shale -----	29	219	clay) -----	45	319		
Buda limestone -----	55	274	Georgetown limestone -----	10	329		
			TOTAL DEPTH -----		1,396		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-188							
Owner: Vapo Butane Co. Driller: Cravens Drilling Co.							
Soil -----	3	3	Buda limestone -----	68	272		
Clay, yellow -----	25	28	Grayson shale (Del Rio				
Serpentine ? -----	42	70	clay) -----	52	324		
Austin chalk -----	103	173	Edwards limestone -----	253	577		
Eagle Ford shale -----	31	204					
Well F-190							
Owner: City of San Antonio. Driller: J. R. Johnson.							
Austin chalk -----	100	100	Limestone, broken, hard				
Eagle Ford shale -----	20	120	streaks -----	95	380		
Buda limestone -----	30	150	Chert -----	7	387		
Grayson shale (Del Rio			Limestone, broken, hard				
clay) -----	50	200	streaks -----	123	510		
Georgetown limestone -----	10	210	Crevice -----	4	514		
Edwards limestone:			Limestone, broken -----	36	550		
Crevice -----	3	213	Cave -----	1	551		
Limestone, broken, soft -	72	285	Limestone, broken, soft-	61	612		
Well F-193							
Owner: The Roundup. Driller: J. R. Johnson.							
Soil -----	2	2	Buda limestone -----	30	240		
Clay, yellow -----	58	60	Grayson shale (Del Rio				
Austin chalk -----	100	160	clay) -----	60	300		
Lignite -----	50	210	Georgetown limestone -----	42	342		
Well F-197							
Owner: Elgin Pape. Driller: Cravens Drilling Co.							
Soil -----	4	4	Eagle Ford shale -----	30	346		
Gravel -----	12	16	Buda limestone -----	50	396		
Clay, yellow -----	40	56	Grayson shale (Del Rio				
Anacacho limestone -----	120	176	clay) -----	50	446		
Austin chalk -----	140	316	Edwards limestone -----	69	515		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-200							
Owner: Claude Bourland. Driller: Cravens Drilling Co.							
Soil -----	2	2	Grayson shale (Del Rio				
Austin chalk -----	58	60	clay) -----	50	185		
Eagle Ford shale, black ---	25	85	Edwards limestone -----	39	224		
Buda limestone -----	50	135					
Well F-201							
Owner: John Barlow. Driller: Cravens Drilling Co.							
Soil -----	2	2	Buda limestone -----	62	214		
Caliche -----	8	10	Grayson shale (Del Rio				
Austin chalk -----	118	128	clay) -----	53	267		
Eagle Ford shale -----	24	152	Edwards limestone -----	46	313		
Well F-206							
Owner: H. T. Wetz.							
No record -----	265	265	Grayson shale (Del Rio				
Eagle Ford shale -----	22	287	clay) -----	54	396		
Buda limestone -----	55	342	Georgetown limestone -----	13	409		
Well F-207							
Owner: David Thrift. Driller: Cravens Drilling Co.							
Buda limestone -----	3	3	Edwards limestone -----	206	300		
Grayson shale (Del Rio			(Water at 266 feet; 272-				
clay) -----	58	61	274 feet; 285-289 feet;				
Georgetown limestone -----	33	94	and 294-299 feet.)				

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-5							
Owner: A. W. Ullrich. Driller: Ray Oil Co.							
Soil -----	6	6	Limestone, hard white ----	10	600		
Clay -----	14	20	Sand -----	4	604		
Gravel -----	8	28	Limestone, white -----	11	615		
Rock -----	7	35	Rock, brown -----	7	622		
Clay, red, adobe -----	25	60	Rock, hard brown -----	13	635		
Limestone -----	10	70	Rock, brown flinty -----	15	650		
Chalk -----	40	110	Limestone, white -----	15	665		
Rock, gray -----	8	118	Rock, gray -----	29	694		
Clay, blue -----	7	125	Rock, brown -----	31	725		
Rock, hard -----	3	128	Rock, hard black -----	55	780		
Shale, black -----	7	135	Packsand -----	5	785		
Rock, black -----	7	142	Limestone, brownish-white,				
Shale, black (lignite) ----	28	170	marly -----	115	900		
Limestone -----	30	200	Rock, hard brown -----	78	978		
Shale -----	30	230	Limestone, brown -----	2	980		
Clay -----	25	255	Clay, blue and mud -----	10	990		
Limestone, hard -----	35	290	Mud, blue, like gumbo ----	10	1,000		
Water sand -----	5	295	Slate rock, blue, and soft				
Limestone -----	45	340	blue mud -----	30	1,030		
Limestone, porous, fresh			Mud, bluish -----	80	1,110		
water -----	20	360	Sand rock, gray -----	5	1,115		
Limestone, yellow -----	20	380	Rock, gray -----	5	1,120		
Limestone -----	10	390	Rock, gray and brownish --	180	1,300		
Limestone, yellow -----	10	400	Sand, sulphur water -----	10	1,310		
Rock, brown -----	30	430	Rock, gray -----	5	1,315		
Rock, hard -----	5	435	Limestone, marly and sand-	5	1,320		
Honeycomb, rock, limestone-	5	440	Rock, hard blue -----	8	1,328		
Clay, blue -----	5	445	Sand, brown -----	22	1,350		
Rock, hard blue -----	48	493	Marl, sandy, chalky lime-				
Limestone, yellow -----	44	537	stone, blue shale -----	20	1,370		
Sand -----	5	542	Rock, gray -----	50	1,420		
Limestone, yellow -----	20	562	Rock, blue -----	25	1,445		
Rock, hard blue -----	16	578	Limestone, brown -----	52	1,497		
Limestone, hard, fresh water	12	590					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well G-10			
Owner: Southern Pacific R. R.			
Soil -----	4	4	Lignite -----
Clay, brown -----	8	12	Limestone, gray -----
Cement gravel -----	20	32	Grayson shale (Del Rio
Clay, yellow -----	32	64	clay) -----
Clay, blue -----	224	288	Edwards limestone:
Magnesium limestone -----	30	318	Limestone, yellow -----
Limestone, blue -----	50	368	Limestone, gray -----
21	389	37	426
53	479	57	536
18	554		
Well G-11			
Owner: U. S. Government Well 1. Driller: J. P. Benkendorfer.			
Mud, black -----	5	5	Edwards limestone:
Clay, yellow and gravel con-			Limestone, white -----
glomerate, well cemented-	62	67	Limestone, brown -----
Clay, blue -----	11	78	Limestone, gray -----
Limestone, magnesium -----	147	225	Limestone, white -----
Limestone, white -----	40	265	Limestone, brown -----
Limestone, gray -----	35	300	Flint rock -----
Shale, blue, sandy -----	43	343	Limestone, brown -----
Lignite -----	22	365	Limestone, white -----
Limestone -----	60	425	Limestone, brown -----
Grayson shale (Del Rio clay)	50	475	Limestone, white -----
			35
			3
			9
			19
			42
			3
			31
			39
			15
			29
			510
			513
			522
			541
			583
			586
			617
			656
			671
			700
Well G-12			
Owner: U. S. Government Well 2. Driller: Dingman Drilling Co.			
Mud, black clay -----	4	4	Limestone -----
Caliche, white -----	4	8	Grayson shale (Del Rio
Clay, yellow -----	62	70	clay) -----
Clay, blue -----	19	89	Edwards limestone:
Shale, gray -----	12	101	Limestone, white -----
Shale, hard gray -----	39	140	Limestone, gray -----
Shale -----	71	211	Limestone, yellow -----
Limestone, gray -----	65	276	Cavity -----
Limestone -----	69	345	Limestone, porous brown
Lignite -----	23	368	with crystals -----
			61
			50
			36
			5
			6
			2
			35
			429
			479
			515
			520
			526
			528
			563

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-13							
Owner: U. S. Government Well 3. Driller: Dingman Drilling Co.							
Clay, black and mud -----	7	7	Limestone -----	56	430		
Clay, yellow -----	58	65	Grayson shale (Del Rio				
Clay, blue -----	22	87	clay) -----	45	475		
Clay, hard and shale -----	55	142	Edwards limestone:				
Shale, hard, gray chalky --	80	222	Limestone -----	31	506		
Limestone, hard gray -----	83	305	Limestone, yellow				
Shale, brown -----	4	309	honeycomb -----	44	550		
Shale, hard gray -----	4	313	Limestone, hard -----	28	578		
Limestone, gray -----	31	344	Flint rock -----	6	584		
Shale, brown with lignite -	30	374					
Well G-14							
Owner: U. S. Government Well 4. Driller: Dingman Drilling Co.							
Soil, black -----	4	4	Edwards limestone:				
Clay, yellow -----	64	68	Limestone -----	35	509		
Clay, blue -----	15	83	Limestone, yellow -----	41	550		
Shale, gray -----	57	140	Limestone, gray -----	10	560		
Shale, hard gray, chalky --	84	224	Limestone, broken, small				
Limestone, hard gray -----	120	344	cavities -----	8	568		
Lignite and brown shale ---	31	375	Limestone, hard -----	4	572		
Limestone -----	48	423	Limestone, hard brown --	7	579		
Grayson shale (Del Rio			Limestone, smooth, or				
clay) -----	51	474	flint -----	5	584		
Well G-15							
Owner: U. S. Government Well 5. Driller: Dingman Drilling Co.							
Soil, black -----	4	4	Chalk, gray limestone ----	51	342		
Clay, yellow -----	65	69	Lignite -----	28	370		
Clay, blue -----	17	86	Limestone -----	52	422		
Shale, gray -----	52	138	Grayson shale (Del Rio				
Shale, hard gray -----	82	220	clay) -----	52	474		
Limestone, hard white -----	55	275	Edwards limestone:				
Limestone, broken, gray,			Limestone, gray -----	31	505		
rough shale -----	16	291	No record -----	79	584		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-16							
Owner: U. S. Government Well 6.				Driller: Dingman Drilling Co.			
Soil, black -----	5	5	Limestone -----	59	436		
Clay, hard yellow -----	14	19	Grayson shale (Del Rio				
Rock, hard -----	3	22	clay) -----	49	485		
Clay, hard sandy -----	20	42	Edwards limestone:				
Clay, yellow -----	18	60	Limestone, hard gray ---	30	515		
Sand, fine -----	9	69	Limestone -----	5	520		
Clay, blue -----	14	83	Limestone, hard, rough -	40	560		
Shale, soft gray -----	50	133	Limestone -----	12	572		
Shale, hard gray -----	92	225	Limestone, brown -----	19	591		
Limestone, white -----	53	278	Limestone, white, sandy-	9	600		
Streaks of gray and brown			Limestone, hard brown --	3	603		
limestone -----	30	308	Limestone, hard white --	3	606		
Limestone, hard gray -----	42	350	Hard flint -----	3	609		
Lignite -----	27	377					
Well G-17							
Owner: U. S. Government Well 7.				Driller: Dingman Drilling Co.			
Soil, black -----	4	4	Limestone, blue -----	60	436		
Gravel -----	10	14	Grayson shale (Del Rio				
Clay, yellow -----	30	44	clay) -----	46	482		
Rock -----	2	46	Edwards limestone:				
Clay, yellow and gravel ---	12	58	Limestone, gray -----	36	518		
Clay, blue -----	12	70	Limestone, brown -----	22	540		
Shale, hard gray -----	84	154	Limestone, gray -----	27	567		
Shale, hard chalky -----	78	232	Cavity -----	1	568		
Chalk -----	76	308	Limestone, porous -----	14	582		
Limestone, gray -----	42	350	Hard flint -----	1	583		
Lignite -----	26	376					
Well G-18							
Owner: U. S. Government Well 8.				Driller: Dingman Drilling Co.			
Soil, black -----	4	4	Clay, blue -----	11	69		
Sand rock, hard yellow ----	21	25	Shale, hard gray -----	103	172		
Clay, yellow and gravel ---	33	58	Shale, hard chalky -----	44	216		

(Continued on next page)

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-18 -- Continued							
Chalk -----	92	308	Limestone, brown -----	6	501		
Limestone, gray -----	36	344	Limestone, brown honey-				
Lignite -----	24	368	comb, water -----	2	503		
Limestone -----	70	438	Limestone, hard brown --	5	508		
Grayson shale (Del Rio clay)	34	472	Limestone, brown honey-				
Edwards limestone:			comb, water -----	4	512		
Limestone, gray -----	4	476	Limestone, hard brown --	64	576		
Flint, very hard -----	2	478	Flint, very hard -----	1	577		
Limestone, gray -----	17	495					
Well G-19							
Owner: U. S. Government Well 9. Driller: Dingman Drilling Co.							
Soil, black -----	4	4	Limestone, soft, water ---	1	662		
Clay, yellow, sand and			Flint, very hard -----	1	663		
gravel -----	26	30	Limestone, hard -----	50	713		
Clay, yellow -----	38	68	Limestone, soft, water ---	23	736		
Clay, blue -----	58	126	Limestone, hard -----	3	739		
Shale, gray -----	39	165	Limestone, soft, with some				
Shale, hard chalky -----	68	233	hard streaks, water ----	51	790		
Chalk -----	77	310	Limestone, very soft,				
Limestone, rough gray -----	40	350	water -----	4	794		
Lignite -----	26	376	Limestone, rough -----	3	797		
Limestone -----	54	430	Limestone, soft -----	5	802		
Grayson shale (Del Rio clay)	51	481	Limestone, hard -----	6	808		
Edwards limestone:			Limestone, soft and rough-	8	816		
Limestone -----	39	520	Limestone, hard -----	9	825		
Limestone, hard brown ---	10	530	Limestone, soft -----	7	832		
Limestone, soft, little			Limestone, hard -----	8	840		
water -----	9	539	Limestone, soft -----	11	851		
Limestone, hard brown ---	37	576	Limestone, very soft,				
Flint -----	1	577	water -----	21	872		
Limestone, hard -----	13	590	Limestone, hard -----	34	906		
Flint, very hard -----	2	592	Limestone, soft -----	14	920		
Limestone, soft, water --	6	598	Limestone, hard, broken --	10	930		
Limestone, hard -----	11	609	Limestone, hard, smooth --	8	938		
Limestone, soft -----	7	616	Limestone, soft, water ---	40	978		
Limestone, hard -----	44	660	Limestone, hard -----	25	1,003		
Flint, very hard -----	1	661					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well G-20			
Owner: U. S. Government Well 10. Driller: Wiegand Bros. Drilling Co.			
Soil and yellow clay -----	17	17	Shale, black -----
Caliche -----	8	25	Limestone -----
Clay, sticky -----	30	55	Limestone, very hard -----
Shale, blue -----	15	70	Grayson shale (Del Rio
Shale, sticky -----	105	175	clay) -----
Shale, soft -----	25	200	Edwards limestone:
Shale, hard -----	50	250	Limestone -----
Shale, gray -----	40	290	Limestone, hard -----
Shale and limestone, sandy-	10	300	Limestone, soft sandy --
Limestone, chalky -----	50	350	Limestone, hard -----
Well G-31			
Owner: E. L. Kneupper. Driller: Cravens Drilling Co.			
Soil -----	3	3	Austin chalk -----
Clay, yellow -----	57	60	Buda limestone -----
Taylor marl, soft -----	85	145	Grayson shale (Del Rio
Taylor marl, hard -----	80	225	clay) -----
Anacacho limestone -----	100	325	Edwards limestone -----
Serpentine -----	10	335	(Water from 610-615 feet)
Well G-43			
Owner: Schertz Water Works. Driller: J. R. Johnson.			
Soil -----	2	2	Buda limestone -----
Caliche, very hard -----	46	48	Grayson shale (Del Rio
Clay of Navarro group -----	24	72	clay) -----
Taylor marl -----	74	146	Georgetown limestone -----
Austin chalk -----	133	279	Edwards limestone -----
Eagle Ford shale -----	29	308	

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-51, partial log							
Owner: Eugene Stautzenberger. Driller: -- Wehe.							
Soil -----	70	70	Sulphur water -----	9	337		
Shale, blue -----	150	220	Rock, hard -----	57	394		
Shale, black -----	35	255	Water -----	26	420		
Mud -----	48	303	TOTAL DEPTH -----		428		
Edwards limestone -----	25	328					
Well G-53							
Owner: W. W. Hallum. Driller: Gus Braendle.							
Soil -----	2	2	Buda limestone -----	50	310		
Clay, yellow -----	48	50	Grayson shale (Del Rio				
Shale, blue -----	70	120	clay) -----	50	360		
Austin chalk -----	110	230	Edwards limestone -----	30	390		
Eagle Ford shale -----	30	260					
Well G-57							
Owner: L. C. Potchernick. Driller: Cravens Drilling Co.							
No record -----	140	140	Edwards limestone -----	41	230		
Grayson shale (Del Rio clay)	49	189					
Well G-58							
Owner: C. H. Kreuzler. Driller: Cravens Drilling Co.							
Soil -----	2	2	Buda limestone -----	58	164		
Clay, yellow -----	34	36	Grayson shale (Del Rio				
Taylor marl -----	15	51	clay) -----	52	216		
Austin chalk -----	21	72	Edwards limestone -----	109	325		
Eagle Ford shale -----	34	106					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-10 -- Continued							
Limestone -----	2	2,595	Limestone, gray sandy,				
Rock, red -----	5	2,600	and slate -----	36	3,306		
Limestone, hard gray ----	10	2,610	Slate, black -----	89	3,395		
Hosston formation:			Limestone, dark gray ---	80	3,475		
Limestone, sandy and blue			Slate, black -----	101	3,576		
shale -----	75	2,685	Slate, black, pyrites of				
Sand water -----	170	2,855	iron -----	51	3,627		
Palezoic or Precambrian:			Sand, gray, some dark --	149	3,776		
Limestone, black, igneous	415	3,270	Sand, gray, heaving ----	7	3,783		
Well H-11							
Owner: Henry Neal.							
Clay, yellow -----	80	80	Grayson shale (Del Rio				
Limestone -----	150	230	clay) -----	60	466		
Lignite, coal -----	30	260	Edwards limestone:				
Limestone -----	146	406	Limestone -----	30	496		
Well H-13							
Owner: Fullers Earth Plant. Driller: Alex Lorenz.							
Marl, blue -----	400	400	Grayson shale (Del Rio				
Rock, soft white -----	200	600	clay) -----	65	750		
Shale -----	35	635	Edwards limestone:				
Limestone -----	50	685	Limestone -----	28	778		
Well H-19							
Owner: Straus-Medina Hereford Ranch. Driller: Wm. Craven & Sons.							
Clay, yellow -----	30	30	Limestone -----	47	889		
Marl, soft -----	474	504	Grayson shale (Del Rio				
Marl, hard -----	118	622	clay) -----	51	940		
Chalk -----	182	804	Edwards limestone:				
Shale -----	38	842	Limestone -----	360	1,300		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-51							
Owner: C. E. Pichard. Driller: Max Gerfers.							
Soil -----	1	1	Grayson shale (Del Rio				
Austin chalk -----	104	105	clay) -----	59	247		
Eagle Ford shale -----	29	134	Edwards limestone -----	50	297		
Buda limestone -----	54	188					
Well H-57							
Owner: Holley R. Ellison. Driller: J. T. & J. R. Johnson.							
Austin chalk, broken yellow			Edwards limestone:				
limestone and clay -----	108	108	Water at 293-300 feet				
Eagle Ford shale -----	33	141	and 315-320 feet;				
Buda limestone -----	61	202	crevice at 348 feet; no				
Grayson shale (Del Rio clay),			water after 515 feet in				
blue -----	76	278	Edwards limestone.	378	662		
Grayson shale (Del Rio clay),			Glen Rose limestone,				
yellow -----	6	284	sulphur odor -----	1,566	2,228		
Well H-63							
Owner: T. H. Mansfield. Driller: J. R. Johnson.							
Soil -----	1	1	Chalk, gummy -----	6	127		
Adobe ? -----	27	28	Chalk -----	82	209		
Clay, yellow -----	3	31	Lignite -----	43	252		
Boulders, yellow -----	6	37	Buda limestone -----	46	298		
Chalk -----	84	121					
Well H-73							
Owner: R. W. Briggs. Driller: Max Gerfers.							
Taylor marl -----	180	180	Buda limestone -----	65	735		
Anacacho limestone -----	120	300	Grayson shale (Del Rio				
Chalk -----	340	640	clay) -----	55	790		
Eagle Ford shale -----	30	670	Edwards limestone -----	115	905		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well H-89, partial log				
Owner: Ard E. Richardson. Driller: J. R. Johnson.				
Soil -----	1	1	Lignite -----	57 930
Sand and clay -----	35	36	Buda limestone -----	16 946
Sand, rock and clay -----	6	42	Grayson shale (Del Rio	
Sandstone, hard -----	35	77	clay) -----	33 979
Shale of Navarro group ----	350	427	Georgetown limestone ----	24 1,003
Taylor marl -----	90	517	Edwards limestone -----	212 1,215
Austin chalk -----	356	873	TOTAL DEPTH -----	1,445
Well H-95, partial log				
Owner: E. H. Zercher. Driller: Chas. Rosenkranz.				
Soil -----	45	45	Edwards limestone -----	110 478
Taylor marl, blue -----	145	190	(Cavern, little water 505-	
Lignite -----	38	228	510 feet; lots of water	
Buda limestone -----	60	288	520-525 feet).	
Grayson shale (Del Rio clay)	60	348	TOTAL DEPTH -----	552
Georgetown limestone, blue-	20	368		
Well I-3				
Owner: Tom Slick. Driller: J. R. Johnson.				
Soil -----	8	8	Shale -----	30 272
Gravel, brown -----	25	33	Limestone -----	53 325
Clay, yellow -----	9	42	Grayson shale (Del Rio	
Shale, blue -----	25	67	clay) -----	38 363
Limestone, white -----	12	79	Edwards limestone:	
Chalk -----	163	242	Limestone -----	45 408
Well I-4				
Owner: Tom Slick. Driller: J. R. Johnson.				
Soil and caliche -----	5	5	Grayson shale (Del Rio	
Marl -----	61	66	clay) -----	50 505
Chalk -----	300	366	Edwards limestone:	
Shale -----	38	404	Limestone -----	40 545
Limestone, white -----	51	455		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-5							
Owner: Tom Slick. Driller: J. R. Johnson.							
Soil -----	3	3	Shale -----	45	495		
Clay, yellow -----	24	27	Limestone -----	52	547		
Marl -----	65	92	Grayson shale (Del Rio				
Clay, yellow -----	19	111	clay) -----	57	604		
Limestone, blue -----	6	117	Edwards limestone:				
Chalk -----	333	450	Limestone -----	141	745		
Well I-6							
Owner: Tom Slick. Driller: J. R. Johnson.							
Soil -----	6	6	Limestone -----	60	396		
Clay, yellow -----	22	28	Grayson shale (Del Rio				
Clay -----	110	138	clay) -----	62	458		
Chalk -----	158	296	Edwards limestone:				
Shale -----	40	336	Limestone -----	305	763		
Well I-10							
Owner: Mrs. S. F. Austin. Driller: J. R. Johnson.							
Soil -----	1	1	Limestone, white -----	65	385		
Gravel, yellow -----	18	19	Grayson shale (Del Rio				
Clay, yellow -----	41	60	clay) -----	51	436		
Shale, blue -----	60	120	Edwards limestone:				
Chalk -----	175	295	Limestone -----	25	461		
Shale, lignite -----	25	320					
Well I-14							
Owner: H. S. George. Driller: R. Page.							
Soil -----	4	4	Limestone -----	90	320		
Gravel -----	10	14	Grayson shale (Del Rio				
Marl, blue -----	58	72	clay) -----	50	370		
Chalk -----	136	208	Edwards limestone:				
Shale, lignite -----	22	230	Limestone -----	130	500		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-19							
Owner: R. N. Vadheim. Driller: J. R. Johnson.							
Soil -----	1	1	Chalk -----	10	367		
Gravel -----	3	4	Shale, lignite -----	33	400		
Rock -----	9	13	Limestone -----	52	452		
Clay, yellow -----	50	63	Grayson shale (Del Rio				
Clay, white -----	12	75	clay) -----	60	512		
Marl -----	115	190	Edwards limestone:				
Chalk -----	155	345	Limestone -----	41	553		
Chalk, broken -----	12	357					
Well I-26							
Owner: Fred Dodgen. Driller: R. Page.							
Soil -----	4	4	Limestone -----	45	348		
Gravel -----	2	6	Grayson shale (Del Rio				
Clay, yellow -----	20	26	clay) -----	55	403		
Marl -----	44	70	Edwards limestone:				
Chalk -----	205	275	Limestone -----	100	503		
Shale, lignite -----	28	303					
Well I-31							
Owner: Mrs. D. L. Horn. Driller: Louis Lorenz.							
Clay, yellow -----	45	45	Rock, white -----	40	240		
Clay, blue joint -----	155	200	Sandrock, yellow -----	90	330		
Well I-33							
Owner: Jaffe-Martin. Driller: Alex Lorenz.							
Marl, yellow, calcareous --	50	50	Grayson shale (Del Rio				
Limestone, blue -----	200	250	clay) -----	60	370		
Lignite -----	15	265	Edwards limestone:				
Rock, hard, white -----	45	310	Limestone -----	15	385		

Drillers' logs of wells in Bexar County -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well I-39							
Owner: City of San Antonio. Driller: J. P. Benkendorfer.							
Soil -----		3	3	Limestone, hard brown,			
Gravel -----		10	13	crystallized -----	23	1,478	
Adobe, limestone and				Limestone, blue -----	27	1,505	
boulders -----		57	70	Limestone, hard brown,			
Clay, blue -----	145	215		crystallized -----	5	1,510	
Limestone, yellow -----	15	230		Limestone, white -----	20	1,530	
Crevice -----	2	232		Limestone, hard blue ---	35	1,565	
Limestone, white -----	33	265		Limestone, blue -----	15	1,580	
Clay, blue -----	10	275		Limestone, brown -----	15	1,595	
Limestone, white -----	20	295		Limestone, white -----	40	1,635	
Slate, blue -----	30	325		Limestone, hard blue ---	20	1,655	
Limestone, adobe -----	10	335		Limestone, brown, white			
Limestone, white -----	35	370		hard streaks -----	45	1,700	
Lignite -----	30	400		Limestone, hard blue ---	15	1,715	
Limestone, white -----	60	460		Limestone, brown -----	20	1,735	
Grayson shale (Del Rio clay)	50	510		Limestone, white -----	60	1,795	
Edwards limestone:				Limestone, hard brown --	65	1,860	
Limestone, white -----	20	530		Rock, soft gray -----	10	1,870	
Crevice with water -----	2	532		Rock, hard blue, sandy -	45	1,915	
Limestone, yellow -----	18	550		No record -----	20	1,935	
Crevice with water -----	5	555		Mud -----	18	1,953	
Limestone, white -----	60	615		Limestone, white -----	32	1,985	
Sand, brown limestone				Mud -----	2	1,987	
with water -----	130	745		Limestone, white -----	10	1,997	
Limestone, white -----	40	785		Mud -----	11	2,008	
Limestone, brown -----	10	795		Limestone, hard, shells			
Limestone, white -----	20	815		and mud -----	32	2,040	
Limestone, brown, water -	15	830		Limestone, soft white --	30	2,070	
Limestone, white -----	35	865		Travis Peak formation (?):			
Limestone, brown, water -	5	870		Limestone, very hard,			
Limestone, white -----	50	920		sandy -----	30	2,100	
Limestone, brown -----	5	925		Limestone, white -----	15	2,115	
Limestone, white -----	25	950		Mud -----	25	2,140	
Crevice, brown limestone-	5	955		Limestone -----	50	2,190	
Limestone, white -----	80	1,035		Mud, blue -----	293	2,483	
Limestone, brown -----	45	1,080		Limestone, hard, streaks			
Glen Rose limestone:				of mud -----	117	2,600	
Limestone, blue -----	110	1,190		Sand, white -----	45	2,645	
Limestone, white -----	40	1,230		Limestone, white -----	30	2,675	
Limestone, blue -----	30	1,260		Limestone, dark, and sand	24	2,699	
Slate, blue -----	2	1,262		Sand, white, water -----	6	2,705	
Limestone, white -----	193	1,455		Cap rock, very hard -----	6	2,711	

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well I-39 -- Continued					
Sand and hard streaks -----	73	2,784	Crevice -----	3	2,813
Sandstone, very hard, filled with red mud -----	26	2,810	Sandstone and shale -----	40	2,853
Well I-40					
Owner: St. Mary's University. Driller: -- Judson.					
Flint -----	3	3	Limestone -----	57	542
Adobe -----	2	5	Grayson shale (Del Rio clay) -----	48	590
Clay, yellow -----	60	65	Edwards limestone:		
Clay, blue -----	150	215	Limestone, dark blue ---	10	600
Limestone, magnesium -----	73	288	Limestone, yellow -----	36	636
Limestone, hard blue -----	104	392	Limestone, crystallized-	44	680
Rock, hard yellow -----	10	402	Rock water -----	22	702
Rock, hard gray -----	53	455			
Lignite -----	30	485			
Well I-45					
Owner: Jimmie Witt. Driller: -- Patterson.					
Gravel and rock -----	20	20	Limestone -----	60	402
Clay, yellow -----	40	60	Grayson shale (Del Rio clay) -----	51	453
Limestone, hard gray -----	28	88	Edwards limestone:		
Limestone, very hard gray -	2	90	Limestone -----	29	482
Limestone and sand -----	40	130	Limestone, cavity -----	4	486
Limestone, very hard -----	30	160	Limestone, hard -----	4	490
Chalk, hard -----	150	310			
Shale, lignite -----	32	342			
Well I-47					
Owner: Jack Neal.					
Gravel -----	2	2	Rock, hard -----	1	210
Shale, blue -----	30	32	Sand, limestone, sulphur water -----	278	488
Rock, blue -----	177	209			

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-48							
Owner: Acme GraveI Co. Driller: J. R. Johnson.							
Soil -----	2	2	Chalk -----	160	355		
Gravel, yellow -----	16	18	Shale, lignite -----	40	395		
Rock, blue -----	12	30	Limestone, white -----	53	448		
Rock, yellow adobe -----	15	45	Grayson shale (Del Rio				
Rock, blue -----	8	53	clay) -----	43	491		
Soapstone, gray -----	67	120	Edwards limestone:				
Marl -----	75	195	Limestone -----	41	532		
Well I-49							
Owner: T. O. Schmidt. Driller: Frank Burkett.							
Soil -----	3	3	Limestone -----	56	494		
Clay, yellow and gravel ---	30	33	Grayson shale (Del Rio				
Marl -----	219	252	clay) -----	64	558		
Chalk -----	159	411	Edwards limestone:				
Shale -----	27	438	Limestone -----	127	685		
Well I-52							
Owner: J. A. McDavitt. Driller: Fred Burkett.							
Soil -----	6	6	Shale, lignite -----	21	828		
Clay, yellow and gravel ---	25	31	Limestone -----	54	882		
Clay, yellow -----	31	62	Grayson shale (Del Rio				
Clay, blue -----	117	179	clay) -----	49	931		
Marl -----	427	606	Edwards limestone:				
Chalk -----	201	807	Limestone -----	75	1,006		
Well I-56							
Owner: E. H. Powell. Driller: Fred Burkett.							
Soil -----	2	2	Shell of rock -----	1	326		
Adobe -----	2	4	Shale, blue -----	259	585		
Clay, yellow and gravel ---	38	42	Rock, gray, oyster shells-	7	592		
Clay, yellow -----	25	67	Shale, bluish gray, sandy-	143	735		
Clay, blue -----	258	325	Rock, white -----	20	755		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well I-56 -- Continued				
Shale, blue -----	254	1,009	Rock, hard white -----	57 1,300
Rock, gray -----	1	1,010	Lignite -----	27 1,327
Shale, yellow -----	70	1,080	Limestone -----	59 1,386
Rock, gray -----	20	1,100	Grayson shale (Del Rio	
Shale, gray -----	129	1,229	clay) -----	3 1,389
Shale, brown, looks like			Edwards limestone:	
lignite -----	14	1,243	Limestone -----	14 1,403
Well I-59				
Owner: Louis Magers. Driller: J. R. Johnson.				
Soil -----	1	1	Sand and sandy shale -----	6 724
Gravel -----	9	10	Shale, blue -----	62 786
Clay, yellow -----	46	56	Shale, brown -----	6 792
Sand rock -----	28	84	Shale, blue -----	7 799
Shale with sandy streaks --	63	147	Marl, gray -----	86 885
Shale, gray, hard streaks -	97	244	Shale, blue -----	12 897
Sand rock, hard -----	1	245	Chalk -----	441 1,338
Shale, blue, hard streaks -	49	294	Limestone -----	96 1,434
Mud rock -----	52	346	Grayson shale (Del Rio	
Marl -----	122	468	clay) -----	40 1,474
Shale, blue -----	17	485	Edwards limestone:	
Marl -----	55	540	Limestone, dry -----	32 1,506
Shale, blue -----	178	718		
Well I-61				
Owner: U. S. Air Force. Driller: Layne-Texas Co., Ltd.				
Soil -----	3	3	Shale -----	88 835
Caliche and gravel -----	17	20	Shale and layers of	
Clay, yellow -----	37	57	limestone -----	30 865
Shale, blue -----	415	472	Chalk, hard brown -----	40 905
Shale, hard blue -----	32	504	Chalk -----	153 1,058
Shale, gray -----	51	555	Chalk, hard -----	26 1,084
Shale, gray sandy, and			Chalk -----	102 1,186
limestone -----	29	584	Chalk, hard -----	43 1,229
Shale and broken limestone-	72	656	Chalk -----	37 1,266
Shale and limestone layers-	91	747	Shale -----	14 1,280

(Continued on next page)

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-61 -- Continued							
Limestone -----	47	1,327	Limestone -----	36	1,551		
Limestone, hard -----	13	1,340	Limestone, soft -----	69	1,620		
Shale -----	50	1,390	Limestone, hard -----	17	1,637		
Limestone, hard -----	8	1,398	Limestone, soft -----	149	1,786		
Limestone -----	62	1,460	Limestone, soft brown ----	68	1,854		
Limestone, soft -----	45	1,505	Limestone, medium hard ---	43	1,897		
Limestone, hard -----	10	1,515	Limestone, hard -----	14	1,911		
Well I-62							
Owner: Perry & Martin. Driller: Burkett Drilling Co.							
No record -----	1,047	1,047	Limestone, white -----	20	1,304		
Shale, dark gray -----	25	1,072	Limestone, brown -----	34	1,338		
Limestone, white -----	75	1,147	Limestone, white -----	12	1,350		
Grayson shale (Del Rio clay)	56	1,203	Limestone, brown -----	42	1,392		
Edwards limestone:			Limestone, hard sandy --	33	1,425		
Limestone, gray -----	27	1,230	Limestone, gray -----	16	1,441		
Limestone, brown sandy,			Limestone, hard sandy --	6	1,447		
water -----	14	1,244	Limestone, gray, water -	15	1,462		
Limestone, white -----	7	1,251	Limestone, hard gray ---	18	1,480		
Limestone, gray -----	33	1,284					
Well I-66							
Owner: U. S. Air Force.							
Soil -----	4	4	Edwards limestone:				
Clay with gypsum -----	5	9	Limestone -----	32	1,170		
Clay, yellow -----	9	18	Water, light -----	17	1,187		
Gravel -----	16	34	Limestone -----	8	1,195		
Clay, yellow -----	18	52	Water, light -----	90	1,285		
Clay, blue -----	533	585	Crevice -----	1	1,286		
Shale, white -----	135	720	Limestone -----	184	1,470		
Shale, yellow -----	30	750	Water -----	30	1,500		
Shale, white -----	14	764	Water, good -----	7	1,507		
Rock -----	221	985	Limestone -----	48	1,555		
Lignite -----	35	1,020	Water -----	5	1,560		
Limestone -----	65	1,085	Limestone -----	10	1,570		
Grayson shale (Del Rio			Water -----	45	1,615		
clay) -----	53	1,138	Limestone, white -----	62	1,677		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-67							
Owner: -- Driller: Fred Burkett.							
Soil -----	6	6	Limestone, white -----	20	807		
Clay, yellow -----	10	16	Clay, blue -----	20	827		
Clay, yellow and gravel ---	4	20	Limestone, white -----	40	867		
Clay, yellow -----	16	36	Shale, yellow, rotten ----	25	892		
Clay and gravel -----	4	40	Rock -----	54	946		
Clay, yellow -----	17	57	Shale, gray -----	17	963		
Gumbo, blue -----	83	140	Rock, white -----	34	997		
Shell or rock -----	2	142	Shale, blue -----	11	1,008		
Gumbo, blue -----	56	198	Limestone, white -----	212	1,220		
Boulders -----	3	201	Lignite, coal -----	27	1,247		
Clay, blue -----	39	240	Limestone -----	48	1,295		
Boulder -----	1	241	Grayson shale (Del Rio				
Gumbo, blue -----	219	460	clay) -----	55	1,350		
Rock, gray, with oyster			Edwards limestone:				
shells -----	16	476	Limestone -----	50	1,400		
Gumbo, blue -----	311	787					
Well I-71							
Owner: Blanks Estate.							
Surface materials, blue			Edwards limestone:				
clay and rock -----	928	928	Limestone -----	255	1,483		
No record -----	235	1,163					
Grayson shale (Del Rio clay)	65	1,228					
Well I-72							
Owner: Henry Van de Walle. Driller: Fred Burkett.							
Soil -----	1	1	Shale, blue -----	45	630		
Gravel and clay -----	29	30	Limestone -----	6	636		
Gravel -----	5	35	Shale, blue -----	74	710		
Clay, yellow, gravel -----	7	42	Limestone shell -----	3	713		
Clay, yellow -----	25	67	Shale, gray -----	12	725		
Clay, blue -----	515	582	Limestone -----	15	740		
Rock shell -----	3	585	Shale, gray -----	25	765		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-72 -- Continued							
Limestone -----	9	774	Grayson shale (Del Rio				
Shale, gray -----	38	812	clay) -----	46	1,175		
Limestone -----	4	816	Edwards limestone:				
Shale, gray -----	8	824	Limestone -----	40	1,215		
Limestone -----	13	837	Limestone, white -----	2	1,217		
Shale, yellow -----	20	857	Limestone, gray sandy --	8	1,225		
Limestone -----	6	863	Flint, brown -----	12	1,237		
Shale, yellow -----	17	880	Limestone, white -----	17	1,254		
Limestone -----	157	1,037	Limestone, yellow -----	56	1,310		
Lignite, coal -----	30	1,067	Limestone, gray -----	25	1,335		
Limestone -----	62	1,129					
Well I-74							
Owner: Thienpont & Decock.							
Soil and subsoil -----	6	6	Limestone -----	58	1,022		
Clay, yellow -----	6	12	Grayson shale (Del Rio				
Clay, yellow and gravel ---	16	28	clay) -----	53	1,075		
Gravel water -----	14	42	Edwards limestone:				
Clay, yellow -----	23	65	Limestone, hard, bluish-				
Shale, blue -----	450	515	gray -----	7	1,082		
Shells -----	3	518	Limestone, white -----	38	1,120		
Shale, blue -----	195	713	Limestone, hard white --	3	1,123		
Limestone, white -----	9	722	Crevice, water -----	2	1,125		
Clay, yellow -----	16	738	Limestone, hard white --	3	1,128		
Limestone, white -----	22	760	Limestone, gray -----	32	1,160		
Clay, yellow -----	20	780	Flint, brown -----	8	1,168		
Chalk -----	157	937	Limestone, gray -----	19	1,187		
Lignite -----	27	964					
Well I-75							
Owner: Remi Aelvoet. Driller: Fred Burkett.							
Soil and subsoil -----	6	6	Clay, blue -----	455	525		
Clay, yellow -----	12	18	Shell rock -----	3	528		
Clay, yellow and gravel ---	14	32	Clay, blue -----	202	730		
Gravel -----	6	38	Limestone, white -----	20	750		
Clay, yellow -----	32	70	Clay, yellow -----	8	758		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well I-75 -- Continued				
Limestone, white -----	21	779	Edwards limestone:	
Clay, yellow -----	16	795	Limestone, blue -----	7 1,085
Chalk -----	237	1,032	Limestone, white, water-	28 1,113
Lignite -----	30	1,062	Limestone, gray -----	12 1,125
Limestone -----	9	1,071	Limestone, hard white --	2 1,127
Grayson shale (Del Rio clay)	7	1,078	Limestone, yellow, water	3 1,130
Well I-77				
Owner: Vander Poorten. Driller: J. R. Johnson.				
Soil -----	4	4	Chalk -----	319 880
Clay, yellow and sand -----	16	20	Shale, lignite -----	39 919
Sand and gravel -----	5	25	Limestone, hard -----	20 939
Clay, yellow -----	31	56	Grayson shale (Del Rio	
Clay, sticky with hard			clay) -----	59 998
boulders -----	126	182	Edwards limestone:	
Rock and hard sand -----	223	405	Limestone -----	44 1,042
Marl, gray, hard streaks --	156	561		
Well I-90				
Owner: South San Antonio Water Co. Driller: J. P. Benkendorfer.				
Soil -----	8	8	Lignite -----	40 950
Cement gravel -----	17	25	Limestone, hard blue and	
Clay, yellow -----	35	60	white -----	50 1,000
Clay, blue -----	540	600	Clay, rotten blue -----	54 1,054
Limestone, magnesium -----	120	720	Limestone, crystallized --	131 1,185
Limestone, yellow -----	80	800	Sulphur rock -----	65 1,250
Limestone, blue, gray and			Limestone, white -----	100 1,350
yellow -----	110	910	Limestone, yellow porous -	103 1,453
Well I-93				
Owner: U. S. Government Camp Normoyle. Driller: Layne-Texas Co., Ltd.				
Soil -----	40	40	Grayson shale (Del Rio	
Gravel and clay -----	190	230	clay) -----	60 1,090
Shale, black -----	490	720	Edwards limestone:	
Rock, chalky -----	260	980	Rock, water-bearing ----	30 1,120
Rock, salty -----	50	1,030		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-97							
Owner: U. S. Air Force Kelly Field. Driller: Layne-Texas Co., Ltd.							
Gravel -----	25	25	Limestone, hard white ----	50	1,000		
Clay, yellow -----	35	60	Grayson shale (Del Rio				
Clay, blue with slate ----	540	600	clay) -----	54	1,054		
Limestone, white -----	120	720	Edwards limestone:				
Limestone, yellow -----	80	800	Limestone, white -----	196	1,250		
Limestone, bluish-gray ----	110	910	Limestone, light yellow-	340	1,590		
Lignite -----	40	950					
Well I-98							
Owner: International & Great Northern Ry. Shops.							
Soil and clay -----	30	30	Rock gypsum -----	9	716		
Gravel -----	16	46	Gumbo -----	10	726		
Clay, yellow -----	20	66	Sandstone, gray -----	40	766		
Rock -----	9	75	Gumbo -----	7	773		
Gumbo and shale -----	35	110	Rock -----	12	785		
Rock -----	2	112	Gumbo -----	27	812		
Gumbo and rock -----	11	123	Rock -----	91	903		
Gumbo -----	21	144	Rock, porous, sulphur				
Shale and sand -----	37	181	water -----	12	915		
Sandstone -----	12	193	Rock -----	51	966		
Gumbo and shale -----	216	409	Gumbo -----	2	968		
Gumbo -----	56	465	Rock -----	89	1,057		
Rock, soft -----	5	470	Gumbo -----	18	1,075		
Gumbo -----	29	499	Rock, iron, pyrites,				
Gumbo and gypsum -----	46	545	sulphur water -----	10	1,085		
Rock -----	47	592	Mud hole -----	9	1,094		
Rock gypsum -----	28	620	Gumbo -----	16	1,110		
Rock -----	78	698	Gravel -----	2	1,112		
Gumbo -----	2	700	Cap rock -----	4	1,116		
Sand, hard -----	7	707	Rock, hard porous, water -	44	1,160		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-102							
Owner: -- Kennon.							
Gravel -----	5	5	Shale, light sandy -----	27	730		
Clay, yellow -----	38	43	Chalk -----	13	743		
Shale, blue, water seep-	127	170	Shell, sandy -----	3	746		
Shale, blue, dry -----	27	197	Chalk -----	77	823		
Limestone shell -----	1	198	Limestone shell -----	32	855		
Shale, blue -----	120	318	Chalk -----	18	873		
Shale, sandy -----	33	351	Limestone, white -----	4	877		
Shale, light sandy -----	67	418	Chalk -----	33	910		
Gravel with white hard			Limestone shell -----	6	916		
streaks -----	20	438	Chalk -----	25	941		
Shale, blue -----	20	458	Limestone shell -----	6	947		
Shale, light sandy -----	95	553	Chalk -----	18	965		
Shale, blue -----	17	570	Shale, white -----	128	1,093		
Shale, blue, mixed with			Limestone, broken -----	25	1,118		
yellow clay -----	2	572	Limestone shell, hard ----	13	1,131		
Shale, dark sandy -----	8	580	Shale, dark -----	32	1,163		
Shale, light sandy -----	117	697	Limestone -----	59	1,222		
Shale, sandy, with small			Grayson shale (Del Rio				
gravel -----	6	703	clay) -----	58	1,280		
Well I-114							
Owner: -- Verstuyft et al. Driller: Burkett Bros.							
Soil and subsoil -----	6	6	Limestone, porous, water -	14	768		
Clay, yellow -----	18	24	Limestone -----	4	772		
Gravel and water -----	4	28	Shale -----	10	782		
Clay, yellow -----	35	63	Limestone -----	63	845		
Clay, blue -----	337	400	Shale -----	15	860		
Shell of rock -----	5	405	Limestone -----	12	872		
Clay, blue -----	95	500	Shale -----	28	900		
Clay, rotten yellow ----	21	521	Limestone -----	213	1,113		
Shale, blue -----	99	620	Lignite -----	18	1,131		
Shell or rock -----	4	624	Limestone -----	60	1,191		
Shale, blue -----	104	728	Grayson shale (Del Rio				
Limestone -----	4	732	clay) -----	50	1,241		
Shale -----	7	739	Edwards limestone:				
Limestone -----	6	745	Limestone -----	131	1,372		
Shale -----	9	754					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-120							
Owner: San Jose Beach.							
Gravel, clay, marl and coal -----	140	140	Limestone -----	380	1,000		
Marl, blue, and brown coal -----	140	280	Rock, sulphur water, first water in well -----	310	1,310		
Conglomerate, hard shell, composed of Gryphaea vesicularis -----	340	620	Clay, yellow joint -----	70	1,380		
			Limestone -----	45	1,425		
			Water -----	110	1,535		
			Rock, water -----	350	1,885		
Well I-123							
Owner: U. S. Air Force Kelly Field. Driller: Wiegand Bros.							
Clay and gravel -----	38	38	Chalk, soft -----	254	1,005		
Clay, yellow and gravel-	21	59	Shale and limestone -----	33	1,038		
Shale, soft blue -----	51	110	Grayson shale (Del Rio clay) -----	29	1,067		
Shale, sandy -----	10	120	Edwards limestone:				
Shale, blue, with hard streaks -----	140	260	Limestone -----	8	1,075		
Shale, soft blue -----	58	318	Limestone, broken and soft -----	9	1,084		
Boulders, hard -----	2	320	Limestone, hard -----	78	1,162		
Shale, soft -----	12	332	Boulder -----	3	1,165		
Shale, hard -----	40	372	Limestone -----	2	1,167		
Shale, soft -----	63	435	Limestone, hard -----	53	1,220		
Shale, soft, and boulders	46	481	Limestone, soft -----	182	1,402		
Marl, soft -----	111	592	Limestone, hard and soft	40	1,442		
Limestone, hard -----	2	594	Limestone, hard -----	74	1,516		
Shale, hard -----	16	610	Limestone, hard, sandy -	58	1,574		
Marl, soft -----	101	711	Limestone, very hard ---	17	1,591		
Limestone, soft -----	19	730	Limestone, hard -----	41	1,632		
Marl, hard, and limestone	21	751					
Well I-125							
Owner: Rami Aelvoet. Driller: J. R. Johnson.							
Soil -----	6	6	Eagle Ford shale -----	30	1,064		
Clay and sand -----	9	15	Buda limestone -----	40	1,104		
Gravel -----	17	32	Grayson shale (Del Rio clay) -----	56	1,160		
Clay, yellow -----	38	70	Georgetown limestone ----	26	1,186		
Shale of Navarro group, blue -----	656	726	Edwards limestone -----	190	1,376		
Taylor marl, hard, oil saturated in places --	144	870	(1,360-1,372 feet broken and caves)				
Austin chalk -----	164	1,034					

Drillers' logs of wells in Bexar County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well I-127					
Owner: City Public Service Board. Driller: J. R. Johnson.					
Soil -----	3	3	Austin chalk, hard,		
Clay and gravel -----	15	18	broken -----	73	952
Sand and gravel -----	16	34	Lignite, very soft and		
Clay, yellow -----	21	55	gummy -----	73	1,025
Shale of Navarro group -----	38	93	Buda limestone -----	30	1,055
Shale of Navarro group and sandy streaks -----	26	119	Grayson shale (Del Rio clay) -----	55	1,110
Shale of Navarro group -----	181	300	Georgetown limestone-	31	1,141
Shale of Navarro group, gas show -----	12	312	Edwards limestone ---	33	1,174
Shale of Navarro group, hard, sandy limestone streaks ---	321	633	(Crevice from 1,142-		
Taylor marl, hard -----	246	879	1,151 feet; 1,158 ft. break; water from 1,168-1,174 feet.)		
Well I-129					
Owner: C. R. Cento. Driller: Pegg Bros. & Burkett.					
Soil -----	6	6	Shale and limestone		
Clay, yellow -----	6	12	streaks -----	267	832
Gravel -----	6	18	Anacacho limestone ---	73	905
Clay, yellow -----	5	23	Shale, hard limey ---	20	925
Sand, green -----	10	33	Taylor marl, hard ---	136	1,061
Shale, blue with lime streaks	83	116	Austin chalk -----	48	1,109
Limestone, hard -----	2	118	Limestone, light gray	63	1,172
Shale and limestone streaks	372	490	Eagle Ford shale -----	26	1,198
Oil show -----	8	498	Buda limestone -----	62	1,260
Shale and limestone streaks	45	543	Grayson shale (Del Rio clay) -----	66	1,326
Limestone and shale streaks	22	565	Edwards limestone ---	284	1,610
Well I-142					
Owner: Van de Walle & Sons. Driller: J. R. Johnson.					
Caliche, gravel -----	6	6	Buda limestone -----	56	1,230
Clay, yellow -----	6	12	Grayson shale (Del Rio clay) -----	51	1,281
Gravel, yellow -----	20	32	Georgetown limestone -	22	1,303
Clay, yellow -----	31	63	Edwards limestone ---	284	1,587
Shale of Navarro group -----	742	805	(Water at 1,549-1,561		
Taylor marl -----	178	983	feet; main water 1,581-		
Chalk -----	165	1,148	1,587 feet in crevices.)		
Eagle Ford shale -----	26	1,174			

Drillers' logs of wells in Bexar County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-145							
Owner: Mrs. -- Wier. Driller: Burkett Drilling Co.							
Soil -----	4	4	Gravel, water -----	13	29		
Clay, yellow -----	10	14	Clay, yellow -----	11	40		
Clay, yellow and gravel ---	2	16					
Well I-149							
Owner: Fred Burkett. Driller: Burkett Drilling Co.							
Soil -----	4	4	Gravel and water -----	9	28		
Clay, yellow -----	15	19	Clay, yellow -----	7	35		
Well I-151							
Owner: Van de Walle & Sons. Driller: J. R. Johnson.							
No record -----	600	600	Buda limestone -----	66	1,069		
Shale of Navarro group -----	257	857	Grayson shale (Del Rio				
Taylor marl -----	81	938	clay) -----	25	1,094		
Austin chalk -----	33	971	Georgetown limestone --	33	1,127		
Lignite -----	32	1,003	Edwards limestone -----	492	1,619		
Well I-153							
Owner: J. E. Mowinckle. Driller: J. R. Johnson.							
Soil -----	5	5	Chalk -----	156	378		
Caliche -----	2	7	Lignite -----	24	402		
Clay and gravel -----	25	32	Buda limestone -----	54	456		
Clay, yellow -----	13	45	Grayson shale (Del Rio				
Gravel and boulders -----	9	54	clay) -----	42	498		
Shale of Navarro group -----	14	68	Georgetown limestone -	26	524		
Taylor marl, oil show -----	154	222	Edwards limestone -----	104	628		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-154							
Owner: Mrs. Monema Trant. Driller: Cravens Drilling Co.							
Soil -----	1	1	Eagle Ford shale -----	32	364		
Gravel -----	9	10	Buda limestone -----	56	420		
Caliche -----	23	33	Grayson shale (Del Rio				
Taylor marl, soft -----	14	47	clay) -----	55	475		
Taylor marl, hard -----	99	146	Georgetown limestone -----	5	480		
Serpentine -----	38	184	Edwards limestone -----	15	495		
Austin chalk -----	148	332	(Water strata 485-495 ft.)				
Well I-156							
Owner: Tom Slick. Driller: J. R. Johnson.							
Soil -----	8	8	Lignite -----	40	295		
Gravel -----	6	14	Buda limestone -----	50	345		
Shale, blue -----	39	53	Grayson shale (Del Rio				
Rock -----	42	95	clay) -----	55	400		
Austin chalk -----	160	255	Edwards limestone -----	49	449		
Well I-157							
Owner: Acme Gravel Co. Driller: J. R. Johnson.							
Gravel and sand -----	20	20	Buda limestone -----	103	370		
Clay of Navarro group, blue	75	95	Grayson shale (Del Rio				
Austin chalk -----	139	234	clay) -----	28	398		
Eagle Ford shale -----	33	267	Edwards limestone -----	202	600		
Well I-158							
Owner: J. E. Mowinckle. Driller: J. R. Johnson.							
Soil -----	1	1	Buda limestone -----	58	370		
Caliche -----	6	7	Grayson shale (Del Rio				
Clay and caliche -----	34	41	clay) -----	48	418		
Taylor marl -----	73	114	Georgetown limestone -----	27	445		
Austin chalk -----	170	284	Edwards limestone, very				
Eagle Ford shale -----	28	312	hard -----	159	604		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-160							
Owner: Acme Gravel Co. Driller: J. R. Johnson.							
Soil -----	1	1	Eagle Ford shale, lignite	33	291		
Clay, yellow -----	39	40	Buda limestone, hard, gray	52	343		
Clay of Navarro group, blue	30	70	Grayson shale (Del Rio				
Taylor marl, gray -----	28	98	clay), soft blue -----	54	397		
Austin chalk -----	160	258	Edwards limestone -----	123	520		
Well I-165							
Owner: Fred Wick. Driller: J. R. Johnson.							
Soil -----	2	2	Grayson shale (Del Rio				
Caliche, white, hard -----	45	47	clay), blue, medium ----	66	405		
Taylor marl, blue, medium -	55	102	Georgetown limestone,				
Chalk, yellow, medium -----	153	255	white, medium -----	18	423		
Lignite, black, medium ----	31	286	Edwards limestone, yellow,				
Buda limestone, white,			hard -----	49	472		
medium -----	53	339					
Well I-166							
Owner: Balcones Heights Water Works. Driller: J. R. Johnson.							
Soil -----	2	2	Buda limestone -----	60	340		
Clay, yellow -----	48	50	Grayson shale (Del Rio				
Taylor marl, soft and hard			clay) -----	55	395		
streaks -----	50	100	Georgetown limestone ----	12	407		
Austin chalk -----	155	255	Edwards limestone -----	73	480		
Lignite -----	25	280					
Well I-167							
Owner: Clyde C. Logue. Driller: J. R. Johnson.							
Soil -----	6	6	Grayson shale (Del Rio				
Caliche -----	54	60	clay) -----	63	428		
Taylor marl -----	65	125	Georgetown limestone, soft,				
Austin chalk -----	150	275	rotten -----	12	440		
Lignite -----	30	305	Edwards limestone -----	80	520		
Buda limestone -----	60	365					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well I-168							
Owner: Joe Centeno. Driller: Cravens Drilling Co.							
Soil -----	3	3	Eagle Ford shale -----	28	858		
Clay, red -----	6	9	Grayson shale (Del Rio				
Gravel -----	7	16	clay) -----	52	910		
Clay, yellow -----	26	42	Edwards limestone -----	44	954		
Sand and shale of Navarro			(Water strata from 945-				
group -----	448	490	954 feet; honeycomb or				
Taylor marl, hard -----	130	620	crevices.)				
Austin chalk -----	210	830					
Well I-174							
Owner: J. R. Garcotta. Driller: C. Rosenkronz.							
Clay, yellow and soil -----	30	30	Grayson shale (Del Rio				
Austin chalk -----	141	171	clay) -----	59	325		
Eagle Ford shale -----	35	206	Georgetown limestone -----	15	340		
Buda limestone -----	60	266	Edwards limestone -----	16	356		
Well I-189							
Owner: City Water Board. Driller: J. R. Johnson.							
Caliche -----	66	66	Buda limestone -----	54	350		
Clay of Navarro group -----	77	143	Grayson shale (Del Rio				
Taylor marl -----	23	166	clay) -----	50	400		
Austin chalk -----	98	264	Georgetown limestone -----	20	420		
Eagle Ford shale -----	32	296	Edwards limestone -----	576	996		
Well I-191							
Owner: U. S. Air Ford, Lackland Base. Driller: J. R. Johnson.							
Soil -----	4	4	Sand, oil -----	28	415		
Caliche and gravel -----	26	30	Shale of Navarro group ---	115	530		
Clay, yellow -----	57	87	Shale of Navarro group,				
Shale -----	300	387	hard -----	185	715		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well I-191 -- Continued					
Taylor marl -----	225	940	Grayson shale (Del Rio clay) -----	38	1,2
Austin chalk -----	170	1,110	Georgetown limestone ----	24	1,2
Eagle Ford shale -----	30	1,140	Edwards limestone -----	268	1,5
Buda limestone -----	50	1,190			
Well I-195					
Owner: Thurman Barrett. Driller: J. R. Johnson.					
Soil, black -----	4	4	Taylor marl, hard -----	264	1,0
Caliche -----	8	12	Austin chalk -----	122	1,3
Sand, yellow -----	12	24	Grayson shale (Del Rio clay) -----	52	1,2
Gravel, pea -----	8	32	Edwards limestone -----	63	1,2
Shale of Navarro group, bluish-gray -----	718	750			
Sand streaks, some oil, gas	34	784			
Well I-196					
Owner: Thurman Barrett. Driller: J. R. Johnson.					
Soil -----	9	9	Austin chalk -----	171	
Clay, yellow and caliche gravel -----	13	22	Eagle Ford shale -----	30	1,
Sand and pea gravel -----	9	31	Buda limestone -----	67	1,
Gravel -----	11	42	Grayson shale (Del Rio clay) -----	37	1,
Sand and gravel -----	8	50	Georgetown limestone ----	32	1,
Clay, yellow -----	28	78	Edwards limestone -----	486	1,
Shale of Navarro group ----	686	764	Glen Rose limestone -----	14	1,
Taylor marl -----	61	825			
Well I-198					
Owner: V. W. Ott. Driller: J. R. Johnson.					
Soil -----	3	3	Buda limestone -----	42	
Caliche -----	33	36	Grayson shale (Del Rio clay) -----	50	
Shale, brown and blue ----	84	120	Georgetown and Edwards limestones -----	23	
Clay, yellow -----	76	196			
Austin chalk -----	132	328			
Eagle Ford shale, gray ----	35	363			

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-17							
Owner: U. S. Government Fort Sam Houston. Driller: J. P. Benkendorfer.							
Soil -----	2	2	Edwards limestone:				
Clay, yellow -----	53	55	Limestone, hard,				
Clay, blue -----	135	190	slightly yellow -----	63	557		
Limestone, magnesium -----	20	210	Limestone, light colored	18	575		
Shale, soft -----	10	220	Limestone, porous -----	5	580		
Limestone, hard, light gray	20	240	Limestone, hard brown --	10	590		
Limestone, very hard bluish-			Limestone, soft -----	35	625		
gray -----	20	260	Limestone, hard brown --	30	655		
Limestone, hard white -----	20	280	Limestone, flinty -----	2	657		
Limestone, soft white -----	20	300	Limestone, soft -----	14	671		
Limestone, hard blue and			Limestone, hard white --	9	680		
white -----	20	320	Limestone, soft brown --	10	690		
No record -----	10	330	Limestone, hard -----	58	748		
Limestone, hard blue and			Flint, black -----	2	750		
white -----	10	340	Limestone, very hard,				
Limestone, very hard, white	13	353	yellow -----	45	795		
Lignite, soft, black -----	27	380	Limestone, very hard ---	40	835		
Rock, gray shaley -----	20	400	Sandstone, soft, light				
Limestone, hard, white ----	18	418	brown -----	20	855		
Grayson shale (Del Rio			Limestone, light brown -	19	874		
clay) -----	76	494					
Well J-21							
Owner: Salado Water Co. Driller: Jacob Wolff.							
Soil -----	8	8	Rock, white, pearl -----	10	520		
Clay, dark blue -----	100	108	Rock, hard blue -----	20	540		
Clay, light blue -----	107	215	Sand hole -----	45	585		
Rock, soft white -----	115	330	Rock, hard white -----	25	610		
Rock, yellow, sulphur water	20	350	Sand rock, red, gas flow -	7	617		
Chalk, hard white -----	95	445	Rock, hard white -----	25	642		
Lignite' -----	25	470	Flint, brown -----	5	647		
Rock, hard white -----	40	510	Rock, yellow, white streaks	55	702		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-23							
Owner: G. Berckmoes. Driller: Fred Burkett.							
Soil -----	4	4	4	Rock -----	2	347	
Clay, yellow -----	12	16	16	Shale, blue -----	128	475	
Gravel -----	6	22	22	Chalk, white -----	270	745	
Clay, yellow -----	32	54	54	Chalk, honeycombed,			
Clay, blue -----	291	345	345	crevices -----	15	760	
Well J-24							
Owner: Frank & Richard Aelovet. Driller: Fred Burkett.							
Soil -----	4	4	4	Chalk -----	198	748	
Clay, yellow -----	10	14	14	Shale -----	27	775	
Gravel -----	2	16	16	Limestone -----	61	836	
Clay, yellow -----	42	58	58	Grayson shale (Del Rio			
Shale, blue -----	298	356	356	clay) -----	61	897	
Rock -----	4	360	360	Edwards limestone:			
Shale, hard -----	182	542	542	Limestone -----	4	901	
Limestone, honeycomb -----	8	550	550	Crevice -----	3	904	
Well J-25							
Owner: A. Van Hecke. Driller: Fred Burkett.							
Soil -----	4	4	4	Grayson shale (Del Rio			
Clay, yellow -----	14	18	18	clay) -----	50	897	
Gravel -----	9	27	27	Edwards limestone:			
Clay, yellow -----	29	56	56	Limestone and yellow clay	3	900	
Clay, blue -----	284	340	340	Rock -----	1	901	
Rock -----	2	342	342	Limestone, honeycombed -	10	911	
Shale, blue -----	128	470	470	Limestone, hard -----	33	944	
Chalk -----	290	760	760	Limestone, yellow,			
Shale -----	27	787	787	honeycombed -----	18	962	
Limestone -----	60	847	847	Limestone, hard -----	13	975	

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-36							
Owner: Texas Refinery. Driller: Burkett Bros.							
Soil -----	4	4	Edwards limestone:				
Gravel -----	12	16	Rock, blue -----	9	669		
Clay, yellow -----	8	24	Rock, white -----	20	689		
Gravel -----	9	33	Flint, brown -----	10	699		
Clay, yellow -----	27	60	Limestone, hard yellow -	39	738		
Clay, blue -----	190	250	Crevice in rock, water -	1	739		
Chalk -----	277	527	Rock, hard yellow -----	3	742		
Lignite -----	26	553	Crevice, water -----	4	746		
Limestone -----	54	607	Rock, yellow -----	3	749		
Grayson shale (Del Rio clay) -----	53	660	Crevice, water -----	3	752		
			Limestone, hard white --	1	753		
Well J-47							
Owner: Palfrey No. 1. Driller: Grayburg Oil Co.							
Sand and clay -----	39	39	Limestone -----	2	782		
Sand and shale -----	16	55	Shale -----	8	790		
Rock -----	3	58	Shale, sticky -----	22	812		
Sand and shale -----	45	103	Limestone boulders -----	1	813		
Clay -----	16	119	Shale, sticky -----	105	918		
Rock -----	2	121	Gumbo, tough -----	49	967		
Shale, sticky, and boulders	109	230	Shale, sticky -----	10	977		
Rock -----	2	232	Clay -----	5	982		
Shale, sticky, and boulders	238	470	Shale -----	80	1,062		
Shale -----	55	525	Clay -----	16	1,078		
Clay -----	45	570	Shale, sandy -----	51	1,129		
Shale, sticky -----	40	610	Shale, sticky -----	19	1,148		
Shale and boulders -----	10	620	Clay -----	22	1,170		
Rock -----	1	621	Shale -----	50	1,220		
Shale -----	2	623	Shale and clay -----	20	1,240		
Rock -----	2	625	Clay -----	69	1,309		
Shale -----	3	628	Shale, gray, limestone ---	8	1,317		
Rock -----	13	641	Shale, gray, pyrites -----	93	1,410		
Shale, mucky -----	8	649	Rock -----	33	1,443		
Shale, sticky, and boulders	61	710	Chalk and shale -----	55	1,498		
Shale -----	10	720	Rock -----	16	1,514		
Clay -----	30	750	Shale -----	2	1,516		
Gumbo -----	30	780	Rock -----	16	1,532		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-47 -- Continued							
Limestone, hard -----	15	1,547	Limestone -----	62	1,760		
Limestone -----	65	1,612	Grayson shale (Del Rio				
Clay -----	8	1,620	clay) -----	48	1,808		
Limestone -----	5	1,625	Edwards limestone:				
Clay -----	24	1,649	Limestone -----	35	1,843		
Limestone, broken, and shale	6	1,655	Clay -----	2	1,845		
Limestone -----	16	1,671	Limestone, broken -----	4	1,849		
Shale -----	20	1,691	Limestone -----	183	2,032		
Shale, blue, limestone ----	7	1,698					
Well J-48							
Owner: Mrs. Francis Dullnig No. 2. Driller: W. H. Wallace.							
Soil -----	40	40	Shale, sticky -----	42	608		
Shale -----	75	115	Shale -----	44	652		
Rock -----	25	140	Shale, sticky -----	298	950		
Shale and boulders -----	35	175	Limestone, sandy -----	150	1,100		
Rock -----	2	177	Chalk -----	206	1,306		
Shale and boulders -----	33	210	Shale -----	50	1,356		
Gumbo -----	16	226	Limestone -----	54	1,410		
Shale and boulders -----	149	375	Grayson shale (Del Rio				
Shale, sticky -----	125	500	clay) -----	56	1,466		
Shale, gummy -----	47	547	Edwards limestone:				
Shale and limestone -----	19	566	Limestone -----	109	1,575		
Well J-50							
Owner: Hot Wells Tourist Lodges.							
Soil -----	5	5	Gumbo -----	148	323		
Clay, yellow -----	10	15	Rock, sandy -----	2	325		
Sand, black -----	5	20	Gumbo -----	12	337		
Sand and gravel, water ----	10	30	Rock, sandy -----	3	340		
Clay, yellow -----	22	52	Gumbo -----	11	351		
Shale, blue -----	38	90	Rock -----	2	353		
Streaks of lignite -----	5	95	Shale, sandy -----	59	412		
Gumbo and blue clay -----	30	125	Gumbo -----	94	506		
Shale, sandy -----	50	175	Shale, sandy -----	71	577		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-50 -- Continued							
Rock, sandy -----	10	587	Shale, hard -----	8	1,748		
Gumbo -----	10	597	Limestone, hard pink ----	117	1,865		
Shale, sandy -----	113	710	Limestone, sandy, some				
Gumbo, hard -----	280	990	water -----	10	1,875		
Limestone -----	455	1,445	Rock, porous, sulphur				
Gumbo, hard, and shale ----	9	1,454	water -----	3	1,878		
Limestone -----	286	1,740					
Well J-51							
Owner: E. A. Gambler. Driller: Grayburg Oil Co.							
Soil -----	40	40	Chalk -----	150	1,270		
Shale -----	160	200	Shale -----	24	1,294		
Sand, hard -----	15	215	Limestone -----	38	1,332		
Shale -----	70	285	Grayson shale (Del Rio				
Rock -----	5	290	clay) -----	43	1,375		
Shale, sandy -----	147	437	Edwards limestone:				
Shale and shell -----	103	540	Limestone -----	90	1,465		
Shale, gummy -----	75	615	Soft rock -----	10	1,475		
Limestone, broken -----	17	632	Identity undetermined --	15	1,490		
Shale, sticky -----	358	990	Limestone -----	78	1,568		
Marl -----	130	1,120					
Well J-57							
Owner: C. G. Benham. Driller: J. R. Johnson.							
Soil -----	6	6	Eagle Ford shale, black,				
Clay, yellow -----	14	20	lignite -----	32	356		
Gravel -----	13	33	Buda limestone, white,				
Clay, yellow -----	35	68	very hard -----	54	410		
Shale of Navarro group ----	18	86	Grayson shale (Del Rio				
Taylor marl -----	115	201	clay) -----	53	463		
Austin chalk, white,			Georgetown limestone ----	28	491		
hard -----	123	324	Edwards limestone -----	237	728		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-69							
Owner: Suburban Water Co. Driller: Wiegand Bros.							
No record -----	6	6	Austin chalk -----	120	847		
Clay, surface -----	30	36	Eagle Ford shale -----	28	875		
Gravel -----	4	40	Buda limestone -----	57	932		
Shale, sandy -----	263	303	Grayson shale (Del Rio				
Shale, sticky -----	131	434	clay) -----	49	981		
Taylor marl -----	153	587	Georgetown limestone -----	29	1,010		
Taylor marl, hard -----	140	727	Edwards limestone -----	44	1,054		
Well J-70							
Owner: Richard Friedrich. Driller: J. R. Johnson.							
Soil -----	6	6	Eagle Ford shale, black --	25	629		
Clay, soft yellow -----	3	9	Buda limestone, white, hard	58	687		
Gravel, streaks of flint			Grayson shale (Del Rio				
and yellow clay -----	24	33	clay) -----	49	736		
Clay, yellow -----	7	40	Georgetown limestone -----	28	764		
Shale of Navarro group,			Edwards limestone -----	241	1,005		
gray streaks of sand ----	259	299	(Crevice at 885 feet;				
Taylor marl, gray hard			broken limestone 968-				
streaks -----	175	474	1,000 feet.)				
Austin chalk, white, hard -	130	604					
Well J-71							
Owner: Richard Friedrich. Driller: J. R. Johnson.							
Soil -----	2	2	Buda limestone -----	56	716		
Clay, yellow, shale and			Grayson shale (Del Rio				
water sand -----	46	48	clay) -----	56	772		
Water sand and shale -----	100	148	Georgetown limestone -----	22	794		
Shale of Navarro group ----	205	353	Edwards limestone -----	503	1,297		
Taylor marl -----	151	504	(Broken honeycomb 859-867				
Austin chalk -----	124	628	feet; broken limestone				
Lignite -----	32	660	870-919 feet.)				

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-72							
Owner: C. D. Orchard. Driller: Gus Braendle.							
Gravel -----	35	35	Grayson shale (Del Rio				
Taylor marl, blue clay,			clay) with hard streaks,				
some hard streaks -----	340	375	blue -----	100	655		
Strong flow sulphur water			Edwards limestone, hard				
and gas -----	10	385	yellow -----	50	705		
Clay, blue, with hard			(Good water 12 feet into				
streaks and light gray			Edwards; cavity at 705				
Austin chalk -----	135	520	feet.)				
Eagle Ford shale -----	35	555					
Well J-74							
Owner: V. E. Berry. Driller: J. R. Johnson.							
Soil -----	7	7	Austin chalk -----	120	828		
Caliche -----	18	25	Eagle Ford shale, black --	24	852		
Sand, fine -----	10	35	Buda limestone, hard -----	60	912		
Sand, clay and gravel -----	19	54	Grayson shale (Del Rio				
Shale of Navarro group,			clay) -----	56	968		
blue and yellow -----	36	90	Georgetown limestone -----	27	995		
Shale of Navarro group, blue	425	515	Edwards limestone -----	472	1,467		
Taylor marl -----	193	708					
Well J-75							
Owner: V. E. Berry. Driller: J. R. Johnson.							
Soil -----	8	8	Lignite, black -----	34	789		
Clay -----	9	17	Buda limestone -----	53	842		
Clay of Navarro group -----	40	57	Grayson shale (Del Rio				
Sand, black -----	8	65	clay) -----	25	867		
Clay of Navarro group -----	392	457	Georgetown and Edwards				
Taylor marl -----	119	576	limestones -----	178	1,045		
Austin chalk -----	179	755					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well J-76							
Owner: Frank G. Huntress. Driller: Cravens Drilling Co.							
Soil -----	3	3	Eagle Ford shale -----	31	638		
Gravel -----	11	14	Buda limestone -----	60	698		
Clay, yellow -----	17	31	Grayson shale (Del Rio				
Taylor marl, soft -----	175	206	clay) -----	64	762		
Taylor marl, hard -----	104	310	Edwards limestone -----	116	878		
Anacacho limestone -----	166	476	(Water strata from 822-				
Austin chalk -----	131	607	825 feet.)				
Well J-79							
Owner: Cruz Lozano. Driller: J. R. Johnson.							
Soil -----	16	16	Eagle Ford shale -----	14	882		
Gravel -----	12	28	Buda limestone -----	60	942		
Clay, yellow -----	87	115	Grayson shale (Del Rio				
Shale of Navarro group ----	225	340	clay) -----	48	990		
Taylor marl -----	330	670	Georgetown limestone ----	23	1,013		
Austin chalk -----	198	868	Edwards limestone -----	34	1,047		
Well J-80							
Owner: -- Rittiman. Driller: H. A. Pagenkopf.							
No record -----	810	810	Georgetown limestone ----	37	1,120		
Austin chalk -----	131	941	Edwards limestone -----	609	1,729		
Eagle Ford shale -----	27	968	Glen Rose limestone -----	499	2,228		
Buda limestone -----	55	1,023					
Grayson shale (Del Rio clay)	60	1,083					
Well J-82							
Owner: J. C. Gemblar. Driller: Watson et al.							
No record -----	1,120	1,120	Grayson shale (Del Rio				
Austin chalk -----	50	1,270	clay) -----	51	1,383		
Eagle Ford shale -----	24	1,294	Georgetown limestone ----	82	1,465		
Buda limestone -----	38	1,332	Edwards limestone -----	103	1,568		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well K-7 -- Continued					
Shale, sandy -----	70	400	Shale -----	211	1,596
Shale, blue -----	40	440	Shale, hard chalky -----	30	1,626
Rock, brown -----	4	444	Shale, hard white -----	88	1,714
Shale, sandy -----	7	451	Rock, chalk, cored -----	168	1,882
Shale, sticky and gumbo ---	490	941	Chalk -----	99	1,981
Rock, brown -----	5	946	Shale -----	2	1,983
Shale, sticky and gumbo ---	104	1,050	Limestone -----	42	2,025
Gumbo and shale -----	97	1,147	Grayson shale (Del Rio		
Shale -----	15	1,162	clay) -----	51	2,076
Gumbo -----	95	1,257	Edwards limestone:		
Gumbo and shale -----	128	1,385	Limestone -----	108	2,184

Well K-8

Owner: Mary Strzekzyk No. 1. Driller: Transcontinental Oil Co.

Soil -----	2	2	Shale, soft blue -----	9	800
Clay, soft yellow -----	48	50	Shell, hard gray, rock ---	1	801
Clay, bluish-yellow -----	5	55	Shale, soft blue -----	124	925
Shale, soft blue, sandy ---	13	68	Shale and sand -----	22	947
Shale, soft, black, sandy -	10	78	Shale, soft loose -----	14	961
Shale, soft gray, sandy ---	35	113	Rock, hard gray -----	6	967
Water sand, gray -----	16	129	Shale, soft blue -----	72	1,039
Gumbo, hard blue -----	28	157	Pyrites of iron, hard ---	1	1,040
Rock, hard brown -----	5	162	Shale, hard blue -----	38	1,078
Quicksand, soft gray -----	9	171	Pyrites of iron, hard ---	56	1,134
Rock, hard brown -----	1	172	Shale, soft blue -----	18	1,152
Gumbo, hard blue -----	72	244	Gumbo, hard blue -----	43	1,195
Water sand, soft gray -----	12	256	Shale, hard blue -----	55	1,250
Gumbo, hard blue -----	44	300	Marl, hard blue -----	60	1,310
Rock, hard gray -----	1	301	Marl, soft blue -----	78	1,388
Gumbo, hard blue, and gravel	59	360	Marl, solid blue -----	52	1,440
Rock, hard gray -----	1	361	Gumbo, solid blue -----	5	1,445
Gumbo, hard blue, and gravel	124	485	Shale, soft sandy -----	20	1,465
Shale, soft blue -----	128	613	Shale, medium gummy -----	30	1,495
Rock, soft blue -----	1	614	Gumbo, hard blue -----	8	1,503
Shale, soft blue -----	76	690	Shale, hard gray, chalky -	52	1,555
Marl, hard gray -----	10	700	Gumbo, hard blue -----	8	1,563
Shale, soft blue -----	83	783	Shale, medium layers, and		
Rock, hard gray -----	2	785	gumbo -----	53	1,616
Shale, soft blue -----	5	790	Chalk, medium -----	22	1,638
Shell, soft gray, rock ----	1	791	Chalk, light -----	69	1,707

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Drillers' logs of wells in Bexar County -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well K-8 -- Continued							
Pyrites, gray -----	31	1,738	Limestone, soft porous,				
Rock, gray chalk -----	32	1,770	with streaks, crystal-				
Pyrites, gray -----	11	1,781	lized rock -----	6	2,138		
Limestone, gray -----	48	1,829	Pyrites -----	1	2,139		
Limestone, broken gray ----	64	1,893	Limestone, hard flinty ---	6	2,145		
Limestone, crystallized ---	2	1,895	Pyrites -----	1	2,146		
Shale, hard black -----	11	1,906	Limestone, chalky -----	5	2,151		
Shale, black and white, and			Pyrites -----	1	2,152		
tough gumbo -----	81	1,987	Pyrites, sandy, hard				
Shale, sticky, limey -----	2	1,989	streak -----	1	2,153		
Gumbo, tough -----	2	1,991	Limestone, brown -----	6	2,159		
Shale, limey -----	16	2,007	Pyrites, very hard -----	1	2,160		
Gumbo, tough -----	2	2,009	Limestone, hard -----	5	2,165		
Shale, limey, and shell ---	3	2,012	Limestone, flinty -----	13	2,178		
Limestone, hard -----	1	2,013	Limestone, chalky -----	11	2,189		
Shells, medium, and pyrites	2	2,015	Limestone, hard flinty ---	2	2,191		
Shells and pyrites -----	2	2,017	Limestone, porous -----	2	2,193		
Limestone, hard -----	3	2,020	Limestone, flinty -----	3	2,196		
Rock and black shale -----	26	2,046	Limestone, hard flinty ---	4	2,200		
Limestone, soft white -----	3	2,049	Limestone, flinty -----	3	2,203		
Limestone, hard, and black			Limestone, flinty, and				
shale -----	2	2,051	pyrites -----	2	2,205		
Shale, soft black -----	13	2,064	Limestone, porous, streaks				
Limestone, soft, full of			of pyrites, boulders ---	6	2,211		
fossils -----	19	2,083	Limestone and pyrites ---	3	2,214		
Rock, hard -----	1	2,084	Limestone, porous -----	12	2,226		
Limestone, hard porous ----	2	2,086	Limestone, porous, and				
Limestone, medium hard ----	3	2,089	pyrites -----	1	2,227		
Limestone, hard porous ----	1	2,090	Pyrites -----	2	2,229		
Limestone, soft, with hard			Limestone -----	5	2,234		
streaks -----	5	2,095	Limestone, hard flinty ---	16	2,250		
Limestone, hard porous ----	5	2,100	Limestone, hard black ----	1	2,251		
Limestone hard, with soft			Limestone, hard, with dark				
streaks, porous, and full			streaks -----	4	2,255		
of crystallized rock ----	4	2,104	Limestone, hard, and				
Pyrites, hard sandy -----	1	2,105	pyrites -----	3	2,258		
Limestone, hard -----	3	2,108	Limestone, chalky -----	4	2,262		
Limestone, soft porous,			Limestone, soft -----	6	2,268		
with hard streaks -----	11	2,119	Limestone, porous -----	19	2,287		
Limestone, soft porous,			Limestone, hard porous,				
sandy pyrites -----	10	2,129	crystallized -----	1	2,288		
Pyrites, sandy -----	1	2,130	Rock, crystallized -----	2	2,290		
Limestone, soft porous ----	2	2,132	Limestone, hard -----	4	2,294		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well K-10							
Owner: Dan Kosub No. 1. Driller: Pennsylvania Oil Co.							
Sand and clay -----	7	7	Shale -----	85	875		
Rock, sand -----	3	10	Rock -----	1	876		
Sand and gravel -----	10	20	Shale -----	7	883		
Sand -----	8	28	Shale, boulders -----	40	923		
Gravel fine -----	7	35	Shale -----	95	1,018		
Clay and gravel -----	25	60	Shale, sandy, cored -----	36	1,054		
Sand -----	22	82	Shale, gray, sandy -----	13	1,067		
Rock, sand -----	1	83	Rock -----	2	1,069		
Clay, sandy -----	37	120	Sand and shale -----	26	1,095		
Shale -----	25	145	Shale, sandy -----	54	1,149		
Sand -----	15	160	Shale -----	95	1,244		
Shell -----	19	179	Shale, shells -----	63	1,307		
Rock -----	2	181	Shale, sandy -----	30	1,337		
Shale, sandy -----	21	202	Shale, sandy, shells -----	48	1,385		
Rock -----	2	204	Shale, sandy -----	45	1,430		
Shale, sandy -----	96	300	Shale -----	14	1,444		
Rock -----	1	301	Shale, sticky -----	9	1,453		
Shale -----	13	314	Shale, sandy -----	19	1,472		
Rock -----	1	315	Shale, gray, soft marl ---	10	1,482		
Shale -----	15	330	Shale, gray -----	1	1,483		
Rock -----	1	331	Shale, sandy -----	27	1,510		
Shale, sandy -----	8	339	Shale, black -----	39	1,549		
Rock -----	1	340	Shale -----	73	1,622		
Shale -----	51	391	Shale, limestone -----	6	1,628		
Rock -----	3	394	Shale, sandy -----	14	1,642		
Shale, boulders -----	56	450	Marl -----	313	1,955		
Rock -----	2	452	Chalk -----	98	2,053		
Shale, sticky -----	27	479	Shale -----	30	2,083		
Rock -----	1	480	Limestone -----	69	2,152		
Shale -----	105	585	Grayson shale (Del Rio				
Rock -----	2	587	clay) -----	53	2,205		
Shale -----	63	650	Edwards limestone:				
Cored -----	126	776	Limestone -----	54	2,259		
Shale, boulders -----	14	790					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well K-11							
Owner: Albert Stephens. Driller: McElreath, Saggett & Wentz.							
Surface clay and sand -----	45	45	Chalk, broken -----	10	1,460		
Sand rock, hard -----	2	47	Limestone, cored 1,547-				
Water sand -----	14	61	1,551 -----	88	1,548		
Sand and shale -----	357	418	Grayson shale (Del Rio				
Shale -----	92	510	clay) -----	46	1,594		
Sand -----	5	515	Edwards limestone:				
Shale -----	223	738	Limestone -----	30	1,624		
Sand -----	12	750	Adobe, cored 1,618-1,627	4	1,628		
Shale -----	370	1,120	Limestone, hard, cored				
Marl -----	235	1,355	1,627-1,636 -----	4	1,632		
Chalk, cored 1,358-1,362 --	75	1,430	Adobe -----	4	1,636		
Chalk, broken, and shale --	20	1,450	Limestone -----	38	1,674		

Well K-15							
Owner: Mrs. J. B. Cover No. 1. Driller: Storey & Stieren.							
Soil -----	5	5	Gumbo -----	15	555		
Clay, sandy -----	9	14	Shale, sticky -----	63	618		
Rock -----	7	21	Shale, sandy -----	22	640		
Sand -----	27	48	Shale and boulders -----	23	663		
Rock -----	2	50	Gumbo -----	12	675		
Sand -----	14	64	Rock -----	3	678		
Rock -----	7	71	Shale, sandy -----	37	715		
Sand -----	14	85	Gumbo -----	10	725		
Rock -----	4	89	Rock -----	3	728		
Sand -----	3	92	Gumbo -----	7	735		
Rock -----	2	94	Shale -----	20	755		
Sand -----	21	115	Limestone -----	4	759		
Rock -----	2	117	Shale -----	5	764		
Sand -----	13	130	Shale and boulders -----	21	785		
Shale -----	20	150	Shale -----	5	790		
Rock -----	2	152	Shale, hard -----	15	805		
Shale -----	8	160	Shell -----	2	807		
Rock -----	2	162	Shale, sandy -----	18	825		
Sand -----	3	165	Gumbo -----	10	835		
Shale -----	220	385	Shale, sticky -----	65	900		
Gumbo -----	20	405	Rock -----	1	901		
Shale -----	135	540	Shale and boulders -----	15	916		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well K-15 -- Continued							
Gumbo -----	64	980	Shale, sandy -----	5	1,435		
Shell -----	1	981	Shale, hard -----	5	1,440		
Shale, sandy -----	16	997	Shale, hard sticky -----	10	1,450		
Shale, sticky -----	13	1,010	Gumbo -----	10	1,460		
Gumbo -----	10	1,020	Shale, hard -----	52	1,512		
Rock -----	1	1,021	Limestone, broken, and				
Shale -----	4	1,025	shale -----	33	1,545		
Gumbo -----	20	1,045	Rock, chalk -----	185	1,730		
Shale, hard -----	90	1,135	Shale, broken -----	7	1,737		
Shale -----	35	1,170	Limestone, hard -----	48	1,785		
Gumbo -----	15	1,185	Shale, hard sticky -----	35	1,820		
Shale, sticky -----	115	1,300	Edwards limestone:				
Shale, hard -----	130	1,430	Limestone -----	133	1,953		
Well K-23							
Owner: E. W. Wilke. Driller: L. V. Doss.							
Gumbo, black -----	8	8	Grayson shale (Del Rio				
Caliche and gravel -----	22	30	clay) -----	106	780		
Shale, gray and yellow marl	30	60	Georgetown limestone -----	10	790		
Shale, gray -----	10	70	Edwards limestone:				
Marl, yellow and shale,			Limestone -----	2	792		
caving -----	15	85	Limestone, little water -	8	800		
Shale, black greenish -----	85	170	Limestone, mixed brown				
Shale, dark gray -----	25	195	and gray, hard -----	91	891		
Taylor marl, gray -----	345	540	Limestone, porous,				
Austin chalk -----	10	550	water -----	5	896		
Austin chalk, dry -----	100	650	Limestone, hard, dry ----	4	900		
Eagle Ford shale -----	24	674					
Well K-24							
Owner: Richard Schirmer. Driller: Richard Schirmer.							
Shale of Navarro group ----	42	42	Buda limestone -----	60	728		
Shale, blue -----	100	142	Grayson shale (Del Rio				
Taylor marl -----	376	518	clay) -----	55	783		
Austin chalk -----	130	648	Georgetown limestone -----	7	790		
Eagle Ford shale -----	20	668	Edwards limestone -----	116	906		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well L-1							
Owner: H. C. Weiters No. 1. Driller: B. F. Thompson.							
Soil -----	2	2	Shale, sticky green -----	40	1,020		
Sand rock -----	30	32	Shale, sandy, streaks of				
Shale and gumbo -----	153	185	chalk -----	20	1,040		
Shale, blue -----	65	250	Shale, gummy -----	161	1,201		
Shale, black -----	26	276	Chalk, core -----	30	1,231		
Sand rock -----	2	278	Shale, chalky -----	21	1,252		
Shale, sandy -----	12	290	Chalk, core at 1,258 -----	6	1,258		
Gumbo -----	10	300	Chalk, little shale -----	27	1,285		
Shale -----	20	320	Chalk, cored at 1,285 and				
Clay, gumbo -----	10	330	1,295 -----	10	1,295		
Shale, sticky -----	20	350	Chalk, hard, core -----	1	1,296		
Gumbo -----	20	370	Chalk, cored at 1,395 and				
Rock -----	2	372	1,410 -----	164	1,460		
Gumbo -----	3	375	Shale, hard, core at 1,460-	3	1,463		
Rock -----	3	378	Limestone -----	71	1,534		
Gumbo -----	22	400	Grayson shale (Del Rio				
Shale, light blue -----	60	460	clay) -----	9	1,543		
Shale -----	30	490	Edwards limestone:				
Shale, gummy -----	20	510	Limestone, cores at 1,543;				
Shale -----	30	540	1,550; 1,561 -----	26	1,569		
Rock -----	2	542	Clay -----	27	1,596		
Shale, sandy -----	20	562	Limestone, cored at 1,600	30	1,626		
Rock, soft -----	3	565	Limestone, cored at 1,640	77	1,703		
Gumbo -----	20	585	Gumbo -----	1	1,704		
Rock -----	3	588	Limestone -----	10	1,714		
Shale -----	12	600	Limestone, hard -----	1	1,715		
Shale, sticky -----	20	620	Limestone, soft -----	5	1,720		
Gumbo -----	20	640	Limestone, soft, with				
Shale -----	50	690	hard streaks -----	20	1,740		
Shale, sticky -----	10	700	Limestone, porous, soft,				
Gumbo -----	45	745	with hard streaks -----	222	1,962		
Shale and small boulders --	20	765	Limestone, hard compact,				
Marl, gumbo -----	30	795	soft streaks -----	68	2,030		
Shale -----	35	830	Limestone, brittle,				
Gumbo, tough -----	40	870	compact -----	47	2,077		
Shale -----	85	955	Limestone, hard compact -	108	2,185		
Shale, sticky -----	25	980	Limestone, hard -----	75	2,260		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well L-2							
Owner: Koch No. 1. Driller: -- Davis, et al.							
Soil -----	14	14	Gumbo -----	208	1,355		
Shell rock -----	10	24	Show gas -----	5	1,360		
Shale and boulders -----	241	265	Gumbo -----	25	1,385		
Shale -----	125	390	Shale -----	56	1,441		
Shell rock -----	5	395	Gumbo -----	1	1,442		
Shale and boulders -----	73	468	Chalk -----	42	1,484		
Gumbo -----	232	700	Chalk, broken, and shale -	30	1,514		
Rock -----	2	702	Shale, hard chalky -----	16	1,530		
Shale, hard -----	118	820	Limestone, hard -----	11	1,541		
Rock, limestone -----	2	822	Shale -----	2	1,543		
Shale, sticky -----	18	840	Shale, chalky -----	22	1,565		
Limestone -----	4	844	Shale, hard chalky -----	5	1,570		
Gumbo -----	20	864	Rock, chalk, cored at 1,582	12	1,582		
Shale and boulders -----	62	926	Rock, chalk -----	131	1,713		
Rock, limestone -----	3	929	Shale, hard, cored at 1,720	7	1,720		
Gumbo -----	13	942	Chalk -----	68	1,788		
Shale, hard -----	73	1,015	Grayson shale (Del Rio				
Gumbo -----	35	1,050	clay) -----	46	1,834		
Gumbo, rough -----	45	1,095	Edwards limestone:				
Sand and shale -----	10	1,105	Limestone -----	105	1,939		
Shale, sandy -----	4	1,109	Limestone, sandy -----	41	1,980		
Shale, sticky -----	24	1,133	No record -----	54	2,034		
Gumbo, rough -----	14	1,147					
Well L-3							
Owner: Gutz No. 1. Driller: Gulf Refining Co.							
Clay, red sandy -----	50	50	Limestone, hard -----	30	362		
Water sand -----	75	125	Shale, gray -----	4	366		
Clay -----	11	136	Limestone, hard -----	1	367		
Limestone -----	3	139	Shale, gray -----	89	456		
Lignite -----	22	161	Limestone, soft, broken,				
Limestone, broken, and sand	59	220	and shale -----	22	478		
Limestone, hard white -----	36	256	Shale, gray -----	52	530		
Rock, hard black -----	15	271	Limestone -----	2	532		
Sand, white -----	18	289	Shale, gray -----	196	728		
Limestone, broken, and sand	26	315	Limestone, hard -----	3	731		
Shale -----	17	332	Shale, gray -----	29	760		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well L-3 -- Continued							
Limestone -----	2	762	Pyrites -----	2	1,718		
Shale, sticky -----	23	785	Marl -----	38	1,756		
Limestone, sandy -----	39	824	Pyrites -----	21	1,777		
Limestone -----	1	825	Marl -----	8	1,785		
Limestone, hard sandy -----	21	846	Chalk -----	24	1,809		
Shale, blue -----	44	890	Serpentine, dry -----	3	1,812		
Limestone -----	2	892	Chalk -----	91	1,903		
Shale, sticky -----	53	945	Shale, cored -----	6	1,909		
Limestone -----	2	947	Shale, black -----	5	1,914		
Shale, hard -----	43	990	Shale, bluish -----	7	1,921		
Shale -----	18	1,008	Limestone -----	27	1,948		
Limestone -----	2	1,010	Limestone, gray -----	13	1,961		
Limestone, hard -----	8	1,018	Limestone, soft gray -----	3	1,964		
Shale -----	16	1,034	Limestone, hard, dark gray	9	1,973		
Limestone, sandy -----	4	1,038	Grayson shale (Del Rio				
Shale, broken, and			clay) -----	43	2,016		
limestone -----	11	1,049	Edwards limestone:				
Limestone, hard -----	2	1,051	Limestone -----	18	2,034		
Shale, blue -----	69	1,120	Limestone, soft -----	13	2,047		
Limestone -----	2	1,122	Adobe -----	4	2,051		
Shale, blue -----	68	1,190	Limestone, soft, light				
Shale, broken, and sand ---	13	1,203	brown -----	30	2,081		
Shale, broken and brown			Limestone, hard, flint -	1	2,082		
sand -----	13	1,216	Flint, hard -----	1	2,083		
Gumbo, blue, and sticky			Breaks, hard and soft				
shale -----	127	1,343	limestone -----	11	2,094		
Gumbo -----	11	1,354	Mixture, black sandy,				
Marl -----	111	1,465	sulphur water -----	4	2,098		
Pyrites -----	202	1,667	No record -----	3	2,101		
Marl -----	49	1,716					

Well M-19

Owner: Eastwood No. 1. Driller: Ballard & Underwood.

Surface dirt -----	3	3	Pyrites -----	2	102
Shale, sandy -----	25	28	Shale, shells of sand rock	63	165
Rock, sand -----	1	29	Pyrites -----	4	169
Shale, sandy -----	31	60	Sand, pyrites, boulders --	43	212
Sand -----	5	65	Shale, sandy and boulders-	38	250
Shale, sandy -----	35	100	Pyrites and sand rock ----	5	255

(Continued on next page)

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well M-19 -- Continued							
Shale, sandy and boulders -	105	360	Limestone, hard -----	281	3,924		
Sand, hard and rock -----	4	364	Limestone, hard blue -----	56	3,980		
Shale -----	11	375	Limestone, sandy cored at				
Shale, sticky -----	35	410	4,036 -----	64	4,044		
Rock, sand -----	3	413	Limestone, black sandy ---	42	4,086		
Rock -----	2	415	Limestone, hard black				
Shale -----	88	503	sandy -----	8	4,094		
Shale, sticky -----	242	745	Limestone, black sandy ---	16	4,110		
Shale boulders -----	205	950	Shale, sandy -----	18	4,128		
Shale -----	47	997	Shale, black, some sand --	2	4,130		
Shale boulders -----	107	1,104	Shale, hard gray sandy ---	1	4,131		
Shale, sticky -----	126	1,230	Shale, black -----	58	4,189		
Shale -----	80	1,310	Limestone, hard white ----	91	4,280		
Shale, sandy -----	5	1,315	Shale, black -----	1	4,281		
Shale -----	22	1,337	Limestone, hard gray -----	4	4,285		
Shale, sticky -----	135	1,472	Limestone, gray -----	40	4,325		
Shale, hard -----	8	1,480	Limestone, hard gray -----	80	4,405		
Shale, sticky -----	87	1,567	Cored -----	10	4,415		
Limestone, broken -----	29	1,596	Limestone, hard gray -----	231	4,646		
Limestone -----	11	1,607	Clay, buff colored				
Limestone, pyrites -----	51	1,658	limestone -----	74	4,720		
Limestone -----	32	1,690	Limestone clay, cored ----	2	4,722		
Limestone, brown -----	7	1,697	Shale, brown, cored -----	103	4,825		
Chalk -----	233	1,930	Limestone, hard crystal --	61	4,886		
Limestone -----	6	1,936	Limestone, hard -----	9	4,895		
Chalk -----	36	1,972	Sand, cemented red, cored-	1	4,896		
Limestone -----	38	2,010	Sandstone cemented pink --	52	4,948		
Shale, black, cored -----	43	2,053	Limestone, white, cored --	2	4,950		
Limestone, cored at 2,055,			Limestone -----	31	4,981		
2,057, 2,063 and 2,154 --	101	2,154	Limestone, slightly				
Clay -----	78	2,232	crystalline, cored -----	9	4,990		
Limestone -----	46	2,278	Limestone, hard -----	4	4,994		
No record -----	2	2,280	Limestone, hard gray -----	56	5,050		
Limestone -----	104	2,384	Limestone, hard gray,				
Limestone, soft -----	84	2,468	cored -----	10	5,060		
Limestone -----	70	2,538	Limestone, gray -----	28	5,088		
Limestone, soft -----	169	2,707	Limestone, sandy, cored --	3	5,091		
Limestone -----	202	2,909	Limestone, sandy,				
Limestone, hard with soft			crystalline -----	10	5,101		
streaks -----	93	3,002	Limestone, sandy -----	12	5,113		
Limestone and shale -----	52	3,054	Sand, hard -----	12	5,125		
Limestone -----	23	3,077	Sand, hard gray -----	42	5,167		
Clay, yellow -----	108	3,185	Sand, hard -----	28	5,195		
Limestone -----	324	3,509	Sand, hard gray -----	63	5,258		
Limestone, yellow -----	114	3,623	Sand -----	74	5,332		
Limestone, hard brown -----	20	3,643	Sandy pebbles -----	29	5,361		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well M-23							
Owner: Oppenheimer No. 1. Driller: Dixie Oil Co.							
Sand and clay -----	8	8	Gumbo -----	35	940		
Rock, very hard -----	132	140	Shale, sticky -----	55	995		
Limestone and shale -----	28	168	Gumbo -----	13	1,008		
Shale and boulders -----	5	173	Shale, hard -----	37	1,045		
Limestone -----	2	175	Shale, hard sandy -----	1	1,046		
Limestone, shale and boulders -----	44	219	Shale, sandy, cored -----	4	1,050		
Shale, boulders and limestone -----	68	287	Shale, sandy -----	12	1,062		
Shale, sticky -----	23	310	Shale, sandy, cored -----	8	1,070		
Limestone -----	2	312	Shale, sandy -----	15	1,085		
Shale and boulders -----	138	450	Shale, sandy and sand -----	20	1,105		
Shale, hard -----	24	474	Shale, hard sandy -----	15	1,120		
Shale, sticky and limestone	76	550	Shale, sticky -----	70	1,190		
Rock -----	2	552	Limestone and shale -----	10	1,200		
Shale, sticky -----	73	625	Shale, hard -----	105	1,305		
Limestone -----	2	627	Limey shale and chalk -----	75	1,380		
Shale and boulders -----	40	667	Chalk -----	220	1,600		
Limestone and shale -----	38	705	Chalk, white limey -----	95	1,695		
Limestone -----	3	708	Shale -----	117	1,812		
Shale, sticky -----	2	710	Limestone -----	28	1,840		
Shale and boulders -----	35	745	Grayson shale (Del Rio clay) -----	74	1,914		
Limestone and shale -----	140	885	Edwards limestone:				
Shale, hard -----	20	905	Limestone -----	112	2,026		
Well M-36							
Owner: A. E. Richardson. Driller: J. R. Johnson.							
Soil -----	2	2	Anacacho limestone -----	54	590		
Sand, gravel, and clay -----	60	62	Austin chalk -----	292	882		
Sandstone, yellow, with boulders -----	3	65	Lignite -----	43	925		
Shale, sandy -----	139	204	Buda limestone -----	15	940		
Shale, soft -----	72	276	Grayson shale (Del Rio clay) -----	64	1,004		
Shale, hard strata -----	174	450	Georgetown limestone -----	32	1,036		
Taylor marl, hard -----	80	530	Edwards limestone -----	146	1,182		
Taylor marl, soft -----	6	536					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well M-39							
Owner: Tony Costranzo, Jr. Driller: Pegg Bros.							
Soil -----	6	6	Shale, sticky -----	25	1,075		
Clay, yellow -----	27	33	Taylor marl, hard -----	323	1,398		
Shale -----	397	430	Austin chalk -----	164	1,562		
Sand, green -----	8	438	Eagle Ford shale -----	33	1,595		
Shale -----	142	580	Buda limestone -----	67	1,662		
Shale and lime streaks ----	20	600	Grayson shale (Del Rio				
Shale -----	83	683	clay) -----	62	1,724		
Shale and lime streaks ----	212	895	Georgetown limestone ----	19	1,743		
Shale -----	145	1,040	Edwards limestone -----	206	1,949		
Shale and lime streaks ----	10	1,050					
Well M-40, partial log							
Owner: Aldridge Nursery. Driller: Pegg Bros. & Burkett Drilling Co.							
Sand and clay -----	25	25	Austin chalk -----	175	1,615		
Rock -----	2	27	Eagle Ford shale -----	30	1,645		
Sand and clay -----	161	188	Buda limestone -----	57	1,702		
Shale and boulders -----	132	320	Grayson shale (Del Rio				
Shale and lime streaks ----	732	1,052	clay) -----	47	1,749		
Taylor marl, hard -----	132	1,184	Georgetown limestone ----	11	1,760		
Anacacho limestone -----	114	1,298	TOTAL DEPTH -----		1,993		
Taylor marl, hard -----	142	1,440					
Well M-41							
Owner: C. D. Berry. Driller: J. R. Johnson.							
Soil -----	2	2	Shale -----	320	1,120		
Clay, red -----	30	32	Anacacho limestone -----	60	1,180		
Clay, yellow and gray, and			Taylor marl, hard -----	180	1,360		
boulders -----	188	220	Austin chalk -----	180	1,540		
Shale of Navarro group ----	130	350	Eagle Ford shale -----	30	1,570		
Sand, green -----	20	370	Buda limestone -----	70	1,640		
Sand and shale -----	100	470	Grayson shale (Del Rio				
Shale, sticky -----	50	520	clay) -----	60	1,700		
Oil sand -----	50	570	Georgetown limestone ----	22	1,722		
Shale -----	220	790	Edwards limestone -----	404	2,126		
Gas sand -----	10	800					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-3							
Owner: C. F. Krause. Driller: Public Service Co.							
Sand, light -----	20	20	Shale, light sandy -----	80	1,130		
Gravel -----	6	26	Limestone, white chalky --	6	1,136		
Clay, yellow -----	4	30	Limestone, hard gray -----	129	1,265		
Gravel, water -----	23	53	Slate, soft blue -----	15	1,280		
Shale, dark blue -----	67	120	Soapstone, soft light ----	5	1,285		
Shale, blue -----	86	206	Limestone, hard gray -----	70	1,355		
Shale, black sandy -----	39	245	Limestone, hard white ----	75	1,430		
Shale, blue -----	10	255	Limestone, hard gray -----	30	1,460		
Shale, green sandy -----	8	263	Shale, soft black and				
Shale, light, shells 340-			slate -----	23	1,483		
420 -----	77	340	Limestone, hard white ----	52	1,535		
Shale, blue -----	130	470	Limestone, hard gray -----	12	1,547		
Shale, blue, hard shells --	165	635	Shells, dark and shale ---	53	1,600		
Shale, hard blue and sandy			Limestone, hard gray -----	23	1,623		
shells -----	10	645	Sand, soft gray, water				
Shell, dark -----	35	680	flowing -----	10	1,633		
Shale, blue -----	94	774	Limestone, hard gray,				
Shells, hard gray -----	6	780	water flowing 30 gallons				
Shale, gray -----	270	1,050	a minute -----	3	1,636		
Well N-4							
Owner: O. R. Mitchell. Driller: J. R. Johnson.							
No record -----	1,519	1,519	Edwards limestone:				
Grayson shale (Del Rio			Limestone -----	348	1,909		
clay) -----	42	1,561					
Well N-5							
Owner: O. R. Mitchell. Driller: Pegg Brothers.							
No record -----	1,409	1,409	Edwards limestone:				
Limestone -----	47	1,456	Limestone -----	279	1,771		
Grayson shale (Del Rio clay)	36	1,492					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-6							
Owner: C. Verstuyft. Driller: Fred Burkett.							
Soil -----	4	4	Limestone, white -----	50	1,153		
Clay, yellow -----	18	22	Shale, light gray -----	37	1,190		
Gravel, water -----	4	26	Limestone, white, sulphur				
Clay, yellow -----	42	68	water -----	20	1,210		
Shale, blue -----	29	97	Limestone, white -----	135	1,345		
Sand, green and shale -----	45	142	Shale (lignite) -----	30	1,375		
Shale, blue -----	508	650	Limestone -----	68	1,443		
Oyster shell -----	4	654	Grayson shale (Del Rio				
Shale, blue -----	354	1,008	clay) -----	57	1,500		
Shale, light gray -----	32	1,040	Edwards limestone:				
Limestone, white -----	27	1,067	Limestone -----	5	1,505		
Clay, yellow, shale, oil			Limestone, hard -----	25	1,530		
sand -----	36	1,103	Crevice, water -----	2	1,532		
Well N-7							
Owner: L. J. Lassere. Driller: -- Burkett.							
Soil and subsoil -----	6	6	Gumbo, blue with shell				
Clay, yellow -----	21	27	rock -----	210	692		
Gravel -----	3	30	Rock, hard gray -----	26	718		
Sand, green and shale -----	27	57	Shale, blue -----	105	823		
Clay, yellow and green sand	43	100	Rock, gray -----	3	826		
Shale, blue -----	60	160	Shale, light gray -----	78	904		
Shale, blue and boulders --	43	203	Rock, shell -----	2	906		
Shale, blue with thin			Gumbo, blue -----	28	934		
strata of gray rock -----	275	478	Shale, light -----	62	996		
Rock -----	4	482	Limestone, white -----	22	1,018		
Well N-10							
Owner: W. Kelso. Driller: Dingman Drilling Co.							
Soil, black surface -----	3	3	Rock -----	11	139		
Clay, yellow -----	59	62	Shale and boulders -----	81	220		
Rock -----	3	65	Sand, green and shale ----	54	274		
Clay, blue -----	63	128	Shale and boulders -----	635	909		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-10 -- Continued							
Shale, hard gray -----	71	980	Limestone -----	62	1,402		
Shale, sandy -----	30	1,010	Grayson shale (Del Rio				
Shale, hard -----	145	1,155	clay) -----	56	1,458		
Shale, blue sticky -----	5	1,160	Edwards limestone:				
Chalk, brown -----	160	1,320	Limestone -----	101	1,559		
Shale -----	20	1,340					
Well N-13							
Owner: D. Saenz. Driller: J. R. Johnson.							
Soil -----	4	4	Chalk -----	97	1,446		
Sand and shale -----	55	59	Shale (lignite) -----	66	1,512		
Sand, coarse white -----	6	65	Limestone -----	88	1,600		
Limestone, sandstone and			Grayson shale (Del Rio				
shales -----	213	278	clay) -----	50	1,650		
Sand, green -----	40	318	Edwards limestone:				
Clay -----	728	1,046	Limestone -----	117	1,767		
Marl -----	303	1,349					
Well N-19							
Owner: Clinton Brown.							
Clay, blue -----	42	42	Rock, hard -----	21	423		
Sand, black -----	83	125	Rock, hard and gumbo -----	26	449		
Clay, blue -----	36	161	Shale and gumbo -----	27	476		
Sand rock -----	65	226	Shale -----	125	601		
Gumbo -----	21	247	Rock, soft -----	19	620		
Sand rock -----	14	261	Gumbo -----	6	626		
Gumbo -----	1	262	Shale -----	87	713		
Sand rock -----	6	268	Gumbo -----	11	724		
Gumbo -----	1	269	Rock -----	104	828		
Sand rock -----	4	273	Gumbo -----	22	850		
Gumbo, some sand rock -----	2	275	Soft rock -----	15	865		
Sand rock -----	64	339	Gumbo -----	4	869		
Gumbo, some sand rock -----	21	360	Rock, soft -----	3	872		
Gumbo -----	33	393	Gumbo -----	14	886		
Shale -----	9	402	Rock, soft -----	4	890		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-19 -- Continued							
Gumbo -----	2	892	Rock, black -----	30	1,351		
Rock, hard -----	149	1,041	Shells, sea, mud hole ----	106	1,457		
Rock, yellow -----	22	1,063	Rock, hard black, water --	34	1,491		
Sand, soil and a little water -----	88	1,151	Hot sulphur water -----	100	1,591		
Limestone, white -----	10	1,161	Rock, white, salt water --	270	1,861		
Rock, yellow, sulphur water	50	1,211	Cold water (?) -----	20	1,881		
Rock, white, lignite -----	110	1,321	No record -----	474	2,355		
Well N-28							
Owner: E. M. Baker. Driller: J. R. Johnson.							
Surface -----	2	2	Marl -----	50	990		
Sand -----	38	40	Shale -----	126	1,116		
Gravel -----	30	70	Shale and broken limestone	3	1,119		
Shale and shells -----	540	610	Shale -----	57	1,176		
Shale -----	168	778	No record -----	149	1,325		
Limestone, shell and shales	12	790	Chalk, flows sulphur water	5	1,330		
Shale -----	150	940					
Well N-68							
Owner: Swearingen No. 1. Driller: Buckeye Oil Co.							
Surface -----	290	290	Shale, sticky -----	127	1,265		
Shale -----	410	700	Gumbo -----	30	1,295		
Gumbo -----	18	718	Shale, sticky -----	50	1,345		
Shale and boulders -----	14	732	Gumbo -----	20	1,365		
Rock, hard -----	16	748	Shale, sticky -----	147	1,512		
Gumbo and boulders -----	22	770	Shale, hard -----	38	1,550		
Shale -----	86	856	Shale, broken and chalk --	47	1,597		
Gumbo -----	20	876	Shale, broken -----	16	1,613		
Shale -----	40	916	Chalky core -----	6	1,619		
Shale, sticky -----	45	961	Chalk, hard -----	20	1,639		
Gumbo -----	10	971	Chalk -----	15	1,654		
Shale, sticky -----	114	1,085	Shale, broken, pyrites ---	2	1,656		
Gumbo -----	11	1,096	Shale, broken and chalk --	7	1,663		
Gumbo, blue -----	42	1,138	Sand, hard and limestone -	5	1,668		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well N-68 -- Continued			
Chalk -----	57 1,725	Limestone -----	11 2,106
Chalk, sand, core -----	16 1,741	Limestone, cored -----	5 2,111
Chalk, sand -----	6 1,747	Sandy limestone, shows	
Chalk -----	154 1,901	sulphur water -----	24 2,135
Shale, black, little show		Core -----	20 2,155
of sulphur water -----	3 1,904	Sandy limestone -----	21 2,176
Shale, cored -----	37 1,941	Limestone, cored -----	20 2,196
Limestone -----	59 2,000	Limestone -----	133 2,329
Grayson shale (Del Rio clay)	53 2,053	Limestone, sulphur water	21 2,350
Core -----	2 2,055	Limestone -----	37 2,387
Edwards limestone:		No record -----	83 2,470
Limestone -----	37 2,092		
Limestone, cored -----	3 2,095		
Well N-73			
Owner: Oaks-Applewhite No. 1. Driller: Wiegand Brothers.			
Surface soil -----	42 42	Shale -----	14 1,505
Sand, shale and boulders --	259 301	Shale, sticky -----	25 1,530
Sand rock -----	5 306	Rock -----	2 1,532
Shale, hard and boulders --	34 340	Shale and sand streaks ---	128 1,660
Shale and boulders -----	250 590	Shale -----	55 1,715
Shale, sticky and shells --	80 670	Rock -----	1 1,716
Shale -----	130 800	Shale, sandy -----	97 1,813
Shale, sticky -----	208 1,008	Sand and shale -----	7 1,820
Sand -----	8 1,016	Rock -----	2 1,822
Shale, sticky -----	65 1,081	Shale, sandy -----	44 1,866
Shale -----	24 1,105	Shale, hard and limestone	
Rock -----	1 1,106	streaks -----	5 1,871
Shale -----	15 1,121	Shale -----	5 1,876
Shale, hard -----	26 1,147	Shale, hard limey -----	39 1,915
Rock -----	3 1,150	Shale -----	68 1,983
Shale, hard and boulders --	10 1,160	Shale, hard -----	13 1,996
Shale and shells -----	102 1,262	Serpentine, soft -----	1 1,997
Rock -----	21 1,283	Chalk, hard -----	138 2,135
Shale, hard -----	148 1,431	Chalk -----	153 2,288
Shale with hard streaks ---	18 1,449	Shale, (lignite) -----	25 2,313
Shale, hard chalky -----	13 1,462	Limestone -----	62 2,375
Shale, soft sandy -----	7 1,469	Grayson shale (Del Rio	
Shale and sand streaks ---	6 1,475	clay) -----	58 2,433
Shale, black sandy -----	8 1,483	Edwards limestone:	
Shale, streaky -----	8 1,491	Limestone -----	67 2,500

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-91							
Owner: Chas. Koch. Driller: Pegg Bros.							
Clay and gravel -----	20	20	Shale -----	93	778		
Clay -----	30	50	Shell bed -----	12	790		
Shale -----	152	202	Shale -----	262	1,052		
Sand, green -----	48	250	Anacacho limestone -----	68	1,120		
Shale and lime streaks ----	50	300	Taylor marl, hard -----	200	1,320		
Shale -----	147	447	Austin chalk -----	164	1,484		
Rock -----	1	448	Eagle Ford shale -----	21	1,505		
Shale -----	97	545	Buda limestone -----	60	1,565		
Shale and lime streaks ----	18	563	Grayson shale (Del Rio clay) -----	55	1,620		
Rock, soft -----	1	564	Georgetown limestone -----	17	1,637		
Shale, sandy -----	51	615	Edwards limestone -----	63	1,700		
Shale, sticky -----	15	630					
Shale, sandy, oil show ----	55	685					
Well N-94							
Owner: C. Verstuyft. Driller: Pegg Bros.							
Soil -----	8	8	Streaks of shale and lime streaks -----	22	550		
Clay, yellow, and gravel --	50	58	Shale -----	90	640		
Shale, blue -----	50	108	Shell bed -----	11	651		
Sand, green -----	32	140	Shale -----	292	943		
Shale, blue -----	30	170	Anacacho limestone -----	82	1,025		
Shale, gray, limey -----	22	192	Taylor marl, hard -----	200	1,225		
Rock, limestone -----	2	194	Austin chalk -----	155	1,380		
Shale -----	41	235	Eagle Ford shale -----	31	1,411		
Shale, blue -----	45	280	Buda limestone -----	60	1,471		
Rock -----	1	281	Grayson shale (Del Rio clay) -----	47	1,518		
Shale -----	5	286	Georgetown limestone -----	35	1,553		
Rock -----	1	287	Edwards limestone -----	349	1,902		
Shale -----	113	400					
Shale and lime streaks ----	128	528					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-95							
Owner: R. Aelvoet. Driller: Pegg Bros.							
Soil -----	4	4	Shale and lime streaks ---	20	560		
Clay, yellow and gravel ---	20	24	Limestone, hard -----	1	561		
Clay, yellow -----	37	61	Shale and lime streaks ---	24	585		
Clay, blue -----	23	84	Shale -----	75	660		
Rock -----	1	85	Limestone, hard -----	2	662		
Shale -----	16	101	Shale, sandy, oil show ---	5	667		
Rock -----	1	102	Shale -----	130	797		
Shale -----	4	106	Shell bed -----	15	812		
Rock -----	2	108	Shale -----	7	819		
Shale and boulders -----	52	160	Shale, sticky -----	203	1,022		
Rock -----	2	162	Shale -----	37	1,059		
Shale and boulders -----	68	230	Limestone -----	3	1,062		
Sand, green -----	14	244	Shale, sticky -----	41	1,103		
Shale and lime streaks ---	10	254	Limestone -----	3	1,106		
Shale -----	116	370	Shale -----	34	1,140		
Limestone -----	2	372	Anacacho limestone -----	88	1,228		
Shale -----	17	389	Taylor marl, hard -----	85	1,313		
Limestone -----	2	391	Austin chalk -----	69	1,382		
Shale and lime streaks ---	20	411	First water -----	4	1,386		
Shale -----	129	540					

Well N-102, partial log

Owner: W. H. Russell, Jr. Driller: Pegg Bros.

Clay, yellow -----	37	37	Shale and lime streaks ---	170	434
Gravel -----	10	47	Limestone, hard -----	1	435
Clay, yellow -----	23	70	Shale -----	15	450
Shale, blue -----	37	107	Shale, sticky -----	150	600
Green sand -----	65	172	Shale and lime streaks ---	103	703
Shale -----	8	180	Shale, sandy, oil show ---	32	735
Sand, green -----	15	195	Shale -----	225	960
Shale, sand -----	27	222	Limestone, medium -----	72	1,032
Rock -----	1	223	Limestone, hard -----	51	1,083
Shale, sand, oil show -----	18	241	Limestone, medium -----	27	1,110
Rock -----	1	242	Chalk -----	233	1,343
Shale, sandy -----	20	262	Eagle Ford shale -----	23	1,366
Rock, lime -----	2	264	Buda limestone -----	64	1,430

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-102, partial log -- Cont'd.							
Grayson shale (Del Rio clay) -----	59	1,489	Edwards limestone -----	43	1,569		
Georgetown limestone -----	37	1,526	TOTAL DEPTH -----		1,673		
Well N-109, partial log							
Owner: -- Tomassi. Driller: Linda Oil Co.							
No record -----	1,068	1,068	Georgetown limestone -----	64	1,408		
Eagle Ford shale -----	190	1,258	Edwards limestone -----	37	1,445		
Buda limestone -----	27	1,285	TOTAL DEPTH -----		1,452		
Grayson shale (Del Rio clay) -----	59	1,344					
Well N-110, partial log							
Owner: S. W. Kearney. Driller: O. W. Beers et al.							
Chalk -----	1,080	1,080	Georgetown limestone -----	60	1,407		
Eagle Ford shale -----	185	1,265	Edwards limestone -----	63	1,470		
Buda limestone -----	27	1,292	TOTAL DEPTH -----		1,472		
Grayson shale (Del Rio clay) -----	55	1,347					
Well N-111, partial log							
Owner: Wm. Wolfsohl. Driller: Indian Creek Oil Co.							
Austin chalk -----	1,280	1,280	Georgetown limestone -----	50	1,555		
Eagle Ford shale -----	146	1,426	Edwards limestone -----	30	1,585		
Buda limestone -----	19	1,445	TOTAL DEPTH -----		1,693		
Grayson shale (Del Rio clay) -----	60	1,505					
Well N-113, partial log							
Owner: James Watson. Driller: E. G. Potter.							
Chalk -----	2,148	2,148	Georgetown limestone -----	67	2,452		
Eagle Ford shale -----	147	2,295	Edwards limestone -----	42	2,494		
Buda limestone -----	32	2,327	TOTAL DEPTH -----		2,538		
Grayson shale (Del Rio clay) -----	58	2,385					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-117							
Owner: B. E. Hamilton.							
Eagle Ford shale -----	1,305	1,305	Georgetown limestone -----	19	1,436		
Buda limestone -----	58	1,363	Edwards limestone -----	314	1,750		
Grayson shale (Del Rio clay)	54	1,417					
Well O-2							
Owner: Louisa Oppenheimer. Driller: Humble Oil & Refining Co.							
Surface, sand and gravel --	79	79	Limestone, hard -----	17	2,822		
Shale with hard streaks ---	111	190	Limestone and shale -----	26	2,848		
Shale and limestone -----	308	498	Limestone and pyrites ----	10	2,858		
Shale, sandy -----	92	590	Limestone -----	98	2,956		
Shale with streaks of			Limestone and shale -----	79	3,035		
limestone -----	565	1,155	Limestone -----	128	3,163		
Shale and chalk -----	140	1,295	Limestone, sandy and shale	108	3,271		
Chalk -----	103	1,398	Shale, hard sandy and				
Chalk and limestone -----	12	1,410	limestone -----	31	3,302		
Limestone with shale			Shale, sandy -----	58	3,360		
streaks -----	95	1,505	Limestone, hard sandy and				
Limestone, hard sandy -----	5	1,510	pyrites -----	95	3,455		
Limestone and shale -----	65	1,575	Shale -----	11	3,466		
Limestone, shells and			Shale, sandy, limestone --	314	3,779		
pyrites -----	47	1,622	Limestone, hard -----	146	3,925		
Limestone -----	482	2,104	Shale, sandy -----	12	3,937		
Limestone and pyrites ----	132	2,236	Limestone, hard -----	19	3,956		
Limestone -----	48	2,284	Limestone and shale -----	160	4,116		
Limestone and shale -----	18	2,302	Limestone, sandy and shale	57	4,173		
Limestone -----	52	2,354	Anhydrite and limestone --	13	4,186		
Limestone and shale -----	16	2,370	Limestone, sandy and shale	182	4,368		
Limestone, hard sandy and			Shale, hard blue sandy ---	48	4,416		
calcite -----	114	2,484	Sand, hard and limestone -	42	4,458		
Sand -----	4	2,488	Sand and shale -----	32	4,490		
Limestone, sandy and shale-	30	2,518	Sand and gravel -----	42	4,532		
Limestone, sandy, hard			Sand, hard, gravel and				
and calcite -----	34	2,552	pyrites -----	3	4,535		
Shale, hard sandy and							
limestone -----	253	2,805					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 0-3							
Owner: Louisa Oppenheimer No. 1. Driller: Humble Oil & Refining Co.							
Surface sand -----	15	15	Shale and limestone -----	30	752		
Caliche -----	35	50	Limestone, hard -----	10	762		
Shale and streaks of hard limestone -----	21	71	Shale and limestone -----	84	846		
Limestone, hard and shales-	23	94	Shale -----	46	892		
Limestone, hard -----	5	99	Shale and limestone -----	27	919		
Shale, hard and limestone -	22	121	Shale, sand and limestone-	15	934		
Shale and limestone with hard streaks -----	56	177	Limestone, hard -----	12	946		
Shale, hard and limestone -	66	243	Shale, tough and limestone	33	979		
Shale and limestone streaks	51	294	Shale and limestone -----	40	1,019		
Shale, hard with streaks of limestone -----	63	357	Shale, limestone, pyrites-	19	1,038		
Limestone, hard -----	12	369	Shale, hard and limestone-	5	1,043		
Shale and limestone -----	18	387	Shale, limestone, pyrites-	16	1,059		
Limestone, hard -----	15	402	Limestone, hard, shale, pyrites -----	10	1,069		
Shale, sandy and limestone-	18	420	Limestone, hard, shale ---	62	1,131		
Shale, limey and streaks --	45	465	Limestone, hard -----	32	1,163		
Shale, sandy, limestone ---	15	480	Limestone, hard and pyrites -----	9	1,172		
Limestone -----	19	499	Limestone, hard -----	20	1,192		
Shale and limestone with hard streaks -----	101	600	Chalk -----	19	1,211		
Limestone, hard -----	14	614	Chalk and shale -----	16	1,227		
Shale and limestone -----	18	632	Shale and gray chalk -----	17	1,244		
Shale, limestone with hard streaks -----	56	688	Chalk -----	12	1,256		
Shale and limestone -----	22	710	Chalk, streaked -----	6	1,262		
Limestone, hard -----	12	722	Chalk -----	58	1,320		
			Grayson shale (Del Rio clay) -----	53	1,373		
			Edwards limestone: Limestone -----	136	1,509		
Well 0-4							
Owner: Cassin No. 2. Driller: Dingman Drilling Co.							
Surface soil, black -----	4	4	Sand, green -----	4	239		
Clay, yellow -----	26	30	Shale, black sandy -----	21	260		
Clay and gravel -----	20	50	Sand, green -----	20	280		
Clay, blue -----	30	80	Shale, sandy -----	19	299		
Shale, black -----	155	235	Rock, hard sand -----	1	300		
(Continued on next page)							

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 0-4 -- Continued							
Gumbo or sticky shale -----	37	337	Limestone -----	105	1,230		
Shale, soft sandy -----	22	359	Chalk, brown and white				
Shale and boulders -----	131	490	chalk -----	135	1,365		
Gumbo, hard -----	138	628	Shale -----	24	1,389		
Shale, gray with shells ---	17	645	Limestone -----	61	1,450		
Shale, hard and soft			Grayson shale (Del Rio				
streaks with boulders ---	405	1,050	clay) -----	59	1,509		
Shale, chalky -----	43	1,093	Edwards limestone:				
Limestone, broken and shale	32	1,125	Limestone -----	93	1,602		
Well 0-18							
Owner: I. J. Pollock. Driller: L. P. Palacios.							
No record -----	140	140	Shale, blue -----	5	175		
Clay, blue and sand -----	20	160	Sand, gray fine water ---	30	205		
Lignite -----	10	170					
Well 0-23							
Owner: Albert Gembler. Driller: Wiegand Brothers.							
Surface soil -----	3	3	Sand, shaly -----	12	825		
Clay, yellow, limestone,			Shale -----	45	870		
shells -----	32	35	Shale, sticky -----	56	926		
Shale, gray -----	40	75	Shale -----	185	1,111		
Shale and shells -----	168	243	Shale, hard -----	291	1,402		
Shale, gray -----	192	435	Chalk -----	119	1,521		
Limestone, shells -----	4	439	Shale -----	20	1,541		
Shale, gray -----	41	480	Limestone -----	51	1,592		
Shale and shells -----	295	775	Grayson shale (Del Rio				
Shells -----	24	799	clay) -----	67	1,659		
Gumbo -----	4	803	Edwards limestone:				
Shale -----	10	813	Limestone -----	61	1,720		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 0-26							
Owner: Jose Cassiano No. 1. Driller: McElreath, Saggett and Wentz.							
Surface sand and clay -----	32	32	Shale -----	89	1,409		
Sand, blue -----	168	200	Marl, soft -----	156	1,565		
Sand and shale -----	80	280	Marl, last 20 ft. white and sticky -----	143	1,708		
Sand rock -----	5	285	Marl, sticky white shale -	72	1,780		
Shale -----	20	305	Marl -----	92	1,872		
Sand rock -----	4	309	Marl, hard -----	22	1,894		
Shale -----	41	350	Marl and pyrite -----	12	1,906		
Sand -----	3	353	Marl -----	79	1,985		
Shale -----	62	415	Chalk -----	99	2,084		
Sand rock -----	3	418	Shale -----	29	2,113		
Shale -----	52	470	Limestone -----	59	2,172		
Sand rock -----	2	472	Grayson shale (Del Rio clay) -----	73	2,245		
Shale -----	38	510	Edwards limestone:				
Shale and boulders -----	20	530	Limestone -----	37	2,282		
Rock -----	4	534	Adobe -----	4	2,286		
Sticky shale -----	591	1,125	Limestone -----	57	2,343		
Shale, flakey and calcite -	55	1,180					
Shale, sticky -----	120	1,300					
Limestone, broken and shells	20	1,320					
Well 0-51							
Owner: Blue Wing Club. Driller: Dingman Drilling Co.							
Soil, surface and gravel --	4	4	Chalk rock -----	62	2,160		
Sand, yellow and gravel ---	28	32	Lignite -----	24	2,184		
Sand, blue -----	50	82	Limestone -----	86	2,270		
Rock -----	1	83	Grayson shale (Del Rio clay) hard, all hard cut with roller bit -----	40	2,310		
Sand, blue -----	32	115	Edwards limestone:				
Rock -----	5	120	Limestone, some yellow -	57	2,367		
Sand, boulders -----	29	149	Honeycomb limestone,				
Rock, very hard -----	4	153	water -----	6	2,373		
Sand and boulders -----	63	216	Limestone, gray -----	29	2,402		
Rock, hard -----	3	219	Limestone, brown -----	26	2,428		
Sand and shale -----	45	264	Limestone, gray -----	15	2,443		
Shale and boulders -----	223	487	Limestone, brown -----	35	2,478		
Gumbo -----	19	506	Limestone, gray -----	18	2,496		
Shale, soft black sticky --	224	730	Limestone, brown -----	34	2,530		
Gumbo -----	30	760	Honeycomb limestone,				
Shale and boulders -----	430	1,190	soft water -----	3	2,533		
Gumbo -----	30	1,220	Limestone, hard gray, and flint boulders ---	14	2,547		
Shale, hard gray -----	158	1,378	Flint, very hard -----	11	2,558		
Gumbo -----	19	1,397					
Shale, hard gray sticky ---	520	1,917					
Chalk, hard -----	181	2,098					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well 0-55					
Owner: Yturri No. 1. Driller: Wm. H. Reynolds.					
Sand -----	50	50	Limestone -----	2	836
Mud, blue -----	40	90	Shale, white -----	309	1,145
Mud, black -----	10	100	Shale, brown -----	55	1,200
Coal -----	10	110	Shale, white -----	120	1,320
Sand -----	25	135	Shale, blue -----	156	1,476
Mud, black -----	61	196	Shale, white -----	149	1,625
Sand -----	224	420	Limestone -----	3	1,628
Shale, blue -----	160	580	Shale, white -----	256	1,884
Shale, white -----	112	692	Shale, blue -----	26	1,910
Sand -----	3	695	Limestone, white -----	60	1,970
Shale -----	45	740	Grayson shale (Del Rio		
Limestone -----	2	742	clay) -----	56	2,026
Shale and sand -----	63	805	Edwards limestone:		
Limestone -----	2	807	Limestone -----	64	2,090
Shale, white -----	27	834			
Well 0-64					
Owner: B. J. Steen. Driller: Fred Burkett.					
Rock -----	168	168	Sand, water -----	12	242
Gumbo, black -----	62	230	Rock, black -----	4	246
Well 0-66					
Owner: J. H. Matthey, No. 1. Driller: Houston Oil Co.					
Clay, red and small gravel-	68	68	Shale, black -----	11	201
Sand, bluish-gray rock ----	6	74	Gumbo, black -----	7	208
Gumbo, black -----	4	78	Shale, dry brown sandy ---	14	222
Sand rock, bluish-gray ----	2	80	Rock, brown sand -----	2	224
Clay, red and small gravel-	20	100	Gumbo, black -----	16	240
Sand rock, bluish-gray ----	2	102	Shale, dry brown sandy ---	20	260
Clay, red and sand -----	28	130	Shell -----	3	263
Gumbo, black -----	5	135	Shale, dry brown sandy ---	27	290
Gumbo, hard red and sand,			Rock, brown sand -----	3	293
water -----	45	180	Shale, dry and hard brown		
Gumbo, black -----	10	190	sandy -----	37	330
(Continued on next page)					

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 0-66 -- Continued							
Gumbo, black -----	6	336	Shale, limey -----	3	2,042		
Shale, dry and hard brown sandy -----	14	350	Chalk, hard and limestone pyrites -----	108	2,150		
Gumbo, black -----	9	359	Limestone, gray -----	20	2,170		
Gumbo, black sandy -----	6	365	Limestone, gray chalky ---	15	2,185		
Sand rock, gray -----	2	367	Limestone, gray, pyrites -	15	2,200		
Shale, black with lignite -	18	385	Limestone, yellowish-gray-	12	2,212		
Gumbo, black sandy -----	24	409	Limestone, light gray				
Sand rock, gray, water ----	36	445	crystalline -----	73	2,285		
Gumbo, black -----	20	465	Limestone, dark and clay--	15	2,300		
Sand rock, gray -----	1	466	Limestone, light gray,				
Gumbo, black sandy -----	5	471	calcite, pyrites and				
Sand, rock, gray -----	1	472	quartz -----	30	2,330		
Gumbo, black sandy and boulders -----	33	505	Limestone, gray -----	33	2,363		
Shale, black -----	10	515	Limestone, hard gray				
Sand rock, gray -----	4	519	pyrites -----	2	2,365		
Gumbo, black sandy and small boulders -----	38	557	Limestone, dark gray ----	30	2,395		
Shale, black and lignite --	13	570	Shale -----	7	2,402		
Sand, gray and limestone --	4	574	Gumbo and boulders -----	13	2,415		
Shale, black and lignite --	16	590	Limestone, soft -----	3	2,418		
Shale, black gummy and gumbo -----	537	1,127	Limestone, hard -----	52	2,470		
Sand rock, gray -----	2	1,129	Shale, and limestone ----	26	2,496		
Shale, hard black gummy ---	36	1,165	Limestone -----	1	2,497		
Shale, hard brown sandy ---	5	1,170	Limestone, hard -----	5	2,502		
Shale, hard black gummy ---	30	1,200	Limestone -----	12	2,514		
Sand rock, gray -----	2	1,202	Shale -----	10	2,524		
Shale, hard black gummy ---	12	1,214	Limestone, hard -----	2	2,526		
Sand rock, gray with pyrites -----	1	1,215	Limestone -----	107	2,633		
Shale, hard black gummy ---	145	1,360	Limestone, chalky -----	11	2,644		
Shale, sandy hard black ---	12	1,372	Limestone -----	21	2,665		
Gumbo, gray and shale ----	348	1,720	Limestone, chalky and shale	23	2,688		
Gumbo, hard gray -----	20	1,740	Limestone -----	33	2,721		
Shale, black gummy -----	100	1,840	Limestone, sandy -----	17	2,738		
Shale, soft black -----	5	1,845	Limestone, sandy and shale	7	2,745		
Gumbo, hard gray sandy ----	16	1,861	Limestone -----	54	2,799		
Limestone, gray -----	1	1,862	Shale and limestone ----	9	2,808		
Gumbo, hard gray sandy ----	8	1,870	Shale and limestone boulders -----	7	2,815		
Shale, soft gray -----	15	1,885	Limestone -----	1	2,816		
Shale, hard gray sandy ----	7	1,892	Limestone, hard -----	2	2,818		
Chalk, bluish-gray -----	133	2,025	Limestone -----	18	2,836		
Limestone, bluish-gray and chalk -----	13	2,038	No record -----	1	2,837		
Limestone, break in -----	1	2,039	Shale -----	5	2,842		
			Limestone -----	43	2,885		
			Sand, sulphur water ----	5	2,890		

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well 0-67							
Owner: Chavez No. 1. Driller: J. F. Camp & Humble Oil & Refining Co.							
Soil, surface, light clay				Sand and boulders -----	5	1,335	
and sand -----	109	109		Limestone, hard -----	1	1,336	
Rock sand, hard, sharp ----	6	115		Shale, blue and streaks of			
Shale, streaks and sand				sandy shale -----	133	1,469	
shells -----	18	133		Shale, sticky dark -----	99	1,568	
Sand rock, hard -----	2	135		Shale, hard dark -----	418	1,986	
Sand rock with shells of				Shale, hard dark with			
hard and soft shale ----	11	146		streaks soft white marl			
Sand rock, very hard ----	4	150		and shells of hard, white			
Sand rock, shells and sandy				pyritic chalky shale ---	14	2,000	
shale -----	98	248		Marl, soft chalky marl			
Sand rock, hard sharp ----	2	250		with streaks of dark			
Shale, sandy, shells and				hard shale and a few			
lignite -----	114	364		white hard chalk and			
Sand rock -----	2	366		pyrite shells -----	95	2,095	
Shale, blue -----	15	381		Marl, soft chalky -----	49	2,144	
Sand rock -----	3	384		Shale, soft gray chalky --	29	2,173	
Shale -----	60	444		Chalk and streaks of			
Sand rock -----	2	446		sticky and sandy shale -	25	2,198	
Shale, blue -----	68	514		Marl, soft white and			
Sand, water -----	15	529		streaks of soft dark			
Shale, blue -----	9	538		shale, and sand, pyrite			
Shale, hard with hard sand				shells -----	24	2,222	
shells -----	46	584		Marl -----	22	2,244	
Sand -----	14	598		Chalk, hard with hard sand			
Shells, sand, shale ----	38	636		streaks -----	6	2,250	
Sand rock, hard -----	2	638		Marl -----	17	2,267	
Shale with hard sand shells	53	691		Chalk and hard shale ----	20	2,287	
Shale, blue -----	46	737		Chalk, hard very small			
Sand rock -----	2	739		amount of pyrite			
Shale, sticky -----	30	769		glaucanite and quartz in			
Sand rock -----	2	771		washed cuttings -----	112	2,399	
Shale, sticky -----	30	801		Shale, hard gray -----	34	2,433	
Sand rock -----	2	803		Shale, hard and hard white			
Shells and shale -----	34	837		limestone -----	10	2,443	
Shale and shells -----	204	1,041		Limestone, hard white ----	35	2,478	
Shale, blue -----	84	1,125		Shale, soft dark -----	2	2,480	
Shale, soft sticky ----	10	1,135		Shale, dark -----	2	2,482	
Shale, hard gray ----	9	1,144		Limestone -----	15	2,497	
Shale, sticky gray ----	11	1,155		Shale -----	17	2,514	
Sand, soft -----	3	1,158		Limestone -----	1	2,515	
Shale, blue -----	52	1,210		Shale, sticky and			
Shale, gray sticky ----	58	1,268		limestone -----	13	2,528	
Rock, sand hard -----	1	1,269		Limestone -----	12	2,540	
Shale -----	34	1,303		Shale -----	13	2,553	
Sand rock -----	5	1,308		Limestone -----	19	2,572	
Shale, hard -----	22	1,330		Cored -----	61	2,633	

Drillers' logs of wells in Bexar County -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well 0-68							
Owner: Joe Lamm. Driller: T. B. Slick.							
Clay -----	150	150	Shale, tough gummy -----	73	1,943		
Sand shell -----	2	152	Shale, sticky -----	107	2,050		
Sand, soft white -----	20	172	Gumbo, tough -----	103	2,153		
Shale and sand -----	23	195	Gumbo and shale, gray				
Limestone shells -----	4	199	limestone, cored -----	82	2,235		
Sand, soft -----	30	229	Shale -----	5	2,240		
Sand, shell -----	2	231	Chalk, soft -----	30	2,270		
Gumbo -----	10	241	Shale, sandy -----	55	2,325		
Shale -----	154	395	Limestone, gray chalky				
Gumbo -----	12	407	cored -----	6	2,331		
Sand, shell -----	6	413	Shale -----	6	2,337		
Shale and sand -----	72	485	Shale, chalky -----	13	2,350		
Limestone, sandy -----	18	503	Limestone, hard gray -----	45	2,395		
Shale, sandy -----	16	519	Shale, hard sandy -----	7	2,402		
Sand and shale -----	70	589	Shale, hard -----	8	2,410		
Limestone shells -----	8	597	Chalk -----	30	2,440		
Sand and shale -----	85	682	Chalk, hard -----	12	2,452		
Gumbo -----	8	690	Chalk -----	48	2,500		
Sand rock -----	4	694	Limestone, sandy -----	10	2,510		
Sand, loose -----	30	724	Sand, hard -----	5	2,515		
Limestone, sandy -----	2	726	Limestone, sandy -----	18	2,533		
Sand and shale -----	62	788	Chalk, hard -----	127	2,660		
Limestone, sandy -----	2	790	Limestone, hard -----	10	2,670		
Shale, sticky -----	25	815	Shale -----	20	2,690		
Shale, sandy -----	130	945	Limestone, hard white -----	30	2,720		
Limestone, sandy -----	4	949	Limestone, gray -----	27	2,747		
Shale and sand -----	211	1,160	Grayson shale (Del Rio clay)	33	2,780		
Shale, sticky -----	20	1,180	Edwards limestone:				
Shale and sand -----	50	1,230	Limestone, cored at				
Gumbo -----	30	1,260	2,791 and 2,800 -----	20	2,800		
Gumbo, tough -----	100	1,360	Limestone and black				
Limestone, shells -----	2	1,362	shale fossils cored ---	17	2,817		
Gumbo -----	40	1,402	Limestone, hard and				
Sand shell -----	2	1,404	porous, cored 2,820½ --	3	2,820		
Shale, hard sandy -----	50	1,454	Limestone, hard and				
Gumbo and limestone shells,			porous, cored 2,930 ---	10	2,830		
cored -----	46	1,500	Limestone, soft white,				
Gumbo, very tough -----	120	1,620	cored 2,952 -----	22	2,852		
Shale, hard and limestone			Limestone, chalky, cored				
shells -----	180	1,800	2,865 -----	13	2,865		
Gumbo -----	30	1,830	Limestone, hard and				
Shale, hard -----	40	1,870	porous, cored 2,878 ---	13	2,878		

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Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
Well 0-68 -- Continued			
Edwards limestone -- continued:			
Limestone, very porous, cored 2,885 -----	7	2,885	Limestone, porous, very dark brown, cored 2,950
Limestone, porous brown, cored 2,895 -----	10	2,895	Limestone, crystalline, light brown, cored 2,975 -----
Limestone, hard and crystalline, cored 2,910 -----	15	2,910	Limestone, crystalline, hard and white, cored 3,000 -----
Limestone, brown, porous interbedded black shale, cored at 2,920 -----	10	2,920	Limestone, gray, medium, cored 3,010 -----
Limestone, hard white, cored 2,935 -----	15	2,935	No record -----
Well 0-118			
Owner: Herman Niemann. Driller: F. Rosenkranz.			
Clay, alternating beds of dark and light gray, sandy -----	105	105	Clay, gray -----
Lignite with seeps of "sweet" water -----	2	107	Sand, gray water -----
Well P-1			
Owner: C. Schoenfeld. Driller: J. R. Johnson.			
Surface -----	1	1	Sand, water -----
Sand, yellow, clay strata -	61	62	Sand, brown, shale -----
Shale, sandy -----	46	108	Shale, blue -----
Sand and shale -----	17	125	
Well P-2			
Owner: C. Schoenfeld. Driller: J. R. Johnson.			
Surface -----	1	1	Shale, brown sticky -----
Shale, yellow sandy and clay -----	56	57	Shale, gray sandy -----
Shale, sticky gray -----	31	88	Shale, hard, with strata of water sand -----
Rock, gray sand -----	1	89	

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well P-3							
Owner: C. Schoenfeld. Driller: J. R. Johnson.							
Surface -----	1	1	Sand and sandy shale -----	14	84		
Clay, red -----	4	5	Sand rock strata -----	8	92		
Sand rock -----	4	9	Sand (water) -----	15	107		
Sand and sandy shale -----	16	25	Sand rock -----	1	108		
Shale, sandy -----	45	70					
Well P-4							
Owner: C. Schoenfeld. Driller: J. R. Johnson.							
Surface -----	1	1	Sand and shale -----	27	142		
Clay, red -----	11	12	Sand water and hard shale-	40	182		
Shale, sandy -----	38	50	Shale -----	19	201		
Shale, black sandy -----	30	80					
Shale, gray sandy and blue shale -----	35	115					
Well P-8							
Owner: Stuart No. 1. Driller: Sun Marland.							
Clay and sand -----	11	11	Sand and shale -----	25	186		
Rock -----	10	21	Rock -----	8	194		
Sand and clay -----	11	32	Sand and shale -----	31	225		
Rock -----	1	33	Rock -----	1	226		
Clay -----	4	37	Shale, sandy -----	74	300		
Rock -----	1	38	Rock -----	1	301		
Sand -----	5	43	Sand -----	29	330		
Rock -----	2	45	Shale -----	22	352		
Sand -----	7	52	Rock -----	2	354		
Shale -----	18	70	Sand -----	8	362		
Sand and clay -----	39	109	Rock -----	6	368		
Rock -----	1	110	Sand and shale -----	62	430		
Sand -----	11	121	Shale, sand and lignite --	12	442		
Rock -----	1	122	Sand and shale -----	18	460		
Sand -----	13	135	Shale and boulders -----	35	495		
Shale -----	25	160	Rock -----	5	500		
Rock -----	1	161	Shale, sandy -----	15	515		

(Continued on next page)

Drillers' logs of wells in Bexar County -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well P-8 -- Continued							
Rock -----		1	516	Gumbo -----		68	1,460
Shale, sandy -----		16	532	Shale -----		30	1,490
Rock -----		1	533	Gumbo -----		2	1,492
Shale, sandy -----		6	539	Shale -----		32	1,524
Rock -----		6	545	Gumbo -----		7	1,531
Shale, sandy -----		9	554	Sand, dry -----		3	1,534
Rock -----		1	555	Shale and boulders -----		37	1,571
Shale, hard sandy -----		7	562	Limestone -----		9	1,580
Rock -----		2	564	Shale -----		26	1,606
Shale, hard sandy -----		10	574	Gumbo, cored sandy shale -		8	1,614
Rock -----		2	576	Shale, sandy -----		4	1,618
Shale, hard sandy -----		21	597	Gumbo, cored sand at 1,652		33	1,651
Shale, gummy -----		19	616	Sand -----		3	1,654
Rock -----		2	618	Shale, gummy -----		26	1,680
Packsand -----		4	622	Shale, sandy -----		32	1,712
Rock -----		2	624	Shale, sticky -----		17	1,729
Shale, sticky -----		38	662	Shale, sandy -----		9	1,738
Shale, sandy -----		89	751	Shale, sticky -----		4	1,742
Rock -----		1	752	Shale, sandy -----		11	1,753
Shale -----		7	759	Shale, sticky -----		5	1,758
Gumbo -----		25	784	Shale, sandy -----		40	1,798
Shale -----		4	788	Shale, gummy -----		10	1,808
Rock -----		1	789	Gumbo -----		63	1,871
Shale -----		19	808	Shale, sandy -----		7	1,878
Rock -----		3	811	Shale, sticky -----		7	1,885
Shale -----		6	817	Gumbo -----		20	1,905
Gumbo, hard -----		23	840	Shale, sticky -----		36	1,941
Shale -----		44	884	Shale, sandy -----		55	1,996
Gumbo -----		22	906	Shale, chalky, cored chalk		4	2,000
Shale, sticky and boulders-		44	950	Chalk -----		20	2,020
Gumbo -----		15	965	Chalk and shale -----		102	2,122
Shale -----		21	986	Chalk, cored -----		14	2,136
Shale, sticky and boulders-		110	1,096	Shale, chalky, cored ----		47	2,183
Gumbo -----		8	1,104	Chalk, hard -----		4	2,187
Shale and boulders -----		35	1,139	Chalk and shale -----		2	2,189
Sand -----		4	1,143	Chalk, hard -----		7	2,196
Shale and boulders -----		17	1,160	Shale, chalky, cored at			
Gumbo -----		43	1,203	2,216 -----		16	2,212
Shale -----		6	1,209	Chalk, hard white -----		188	2,400
Gumbo -----		31	1,240	Shale, hard -----		2	2,402
Shale -----		107	1,347	Shale, sticky -----		1	2,403
Sand rock -----		2	1,349	Shale, hard -----		14	2,417
Shale, sandy -----		11	1,360	Limestone -----		62	2,479
Shale, sticky -----		13	1,373	Clay, cored -----		64	2,543
Rock -----		5	1,378	Clay, hard, cored			
Sand, cored -----		1	1,379	limestone at 2,559 ----		12	2,555
Sand -----		3	1,382	Limestone, cored at 2,590-		31	2,586
Shale -----		10	1,392	Limestone, broken, cored -		17	2,603

Drillers' logs of wells in Bexar County -- Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well P-22					
Owner: Mrs. H. Michaelis. Driller: Wm. Cravens.					
Sand, brown with clay -----	65	65	Sand, water -----	7	135
Sandstone, red -----	1	66	Sand rock, hard blue -----	4	139
Shale, blue sandy with boulders -----	60	126	Sand, water, coarse with flecks of coal, sandy		
Rock, blue -----	2	128	shale medium hardness --	11	150
Well P-25					
Owner: E. S. Bridges. Driller: Witherspoon Oil Co.					
Austin chalk -----	2,196	2,196	Grayson shale (Del Rio clay) -----	74	2,340
Buda limestone -----	70	2,266	Georgetown limestone -----	20	2,360

Drillers' logs of wells in Comal County, Texas

Well B39

[Owner, A. J. Monler 16½ miles northwest of New Braunfels]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
15	15	10	65
5	20	30	95
5	25	6	101
5	30	100	207
20	50		
6	55		

Hard yellow limestone.....
 Blue marl.....
 Clay and marl, light blue.....
 Light-gray soft limestone.....
 Light-white limestone.....

Well B49

[1 1/4 miles northwest of New Braunfels. Core test. Driller, U. S. Army, Corps of Engineers]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
4.0	4.0	4.0	4.0
10.5	14.6	10.5	14.6
1.4	16.0	1.4	16.0
17.7	33.7	17.7	33.7
5.9	40.6	5.9	40.6
6.6	50.2	6.6	50.2
18.6	75.2	18.6	75.2
3.0	78.2	3.0	78.2
1.3	79.5	1.3	79.5
5.8	85.3	5.8	85.3
2.7	88.0	2.7	88.0
.4	88.4	.4	88.4
9.8	98.2	9.8	98.2
3.5	101.7	3.5	101.7
17.8	119.5	17.8	119.5
2.3	121.8	2.3	121.8
.9	122.7	.9	122.7
1.5	124.2	1.5	124.2
2.0	126.2	2.0	126.2

Soft lime boulders (taken from driller's log).....
 Glen Rose formation:
 Limestone, hard argillaceous, weathered, variably light yellow and tan, with occasional very hard, slightly crystalline, very vuggy tan limestone phases. No core recovery; used rock bit.
 Limestone, very hard, slightly argillaceous, weathered, light yellow with many solution cavities partly to filled with yellow marl, with a highly inclined slickensided fracture from 25.5 ft to 28.8 ft and with very argillaceous, yellow limestone phases from 24.2 ft to 25.9 ft and 28.8 ft to 27.2 ft.
 Limestone, hard, argillaceous, weathered, light yellow, with occasional solution cavities partly filled with yellow marl; occasional, very argillaceous, yellowish-tan limestone phases; medium hard, massive, weathered, yellowish-brown shale seams from 42.3 ft to 42.7 ft, 44.1 ft to 44.6 ft, 45.7 ft to 46.2 ft and 47.0 ft to 52.6 ft to 83.6 ft.
 Limestone, hard, argillaceous, light gray (almost gray), with a very argillaceous phase in the middle and extreme lower parts; occasional very irregular, tight, thin partings of medium hard, very calcareous, gray shale having many grains of dark-gray limestone from 53.8 ft to 55.1 ft and with vertical fractures from 52.6 ft to 83.6 ft.
 Limestone, hard, argillaceous, weathered, light yellow, with many irregular, tight, thick, and thin partings of medium-hard, calcareous, yellowish-brown shale from 56.4 ft to 57.0 ft; very argillaceous phases having highly numerous *Orbitolina tezana* from 59.8 ft to 60.7 ft, 61.8 ft to 63.0 ft and 69.6 ft to 72.0 ft; highly inclined fractures from 70.4 ft to 70.7 ft, 71.1 ft and 73.0 ft to 74.0 ft; a few scattered solution cavities from 70.4 ft to 72.7 ft.
 Limestone, hard, argillaceous, light gray, with numerous *Orbitolina tezana* in the extreme lower part, and with an inclined, slickensided fracture at 78.1 ft.
 Shale, hard, very calcareous, gray.
 Limestone, hard, very argillaceous, light gray (almost gray), with many small grains of dark-gray lime; numerous *Orbitolina tezana* fossils; inclined fractures 84.80 ft and 80.5 ft, and with medium-hard, calcareous, gray shale seams from 80.3 ft to 80.5 ft and 80.6 ft to 81.4 ft.
 Limestone, hard, argillaceous, light gray with many small grains of gray lime.
 Shale, medium hard, calcareous, gray.
 Limestone, hard, very argillaceous, massive, light gray, with many small grains of dark-gray lime on the extreme upper part, many vertical and inclined fractures from 89.0 ft to 89.8 ft, 90.7 ft, 92.7 ft, 96.7 ft, 99.7 ft, 101.7 ft, 103.7 ft and 104.3 ft.
 Limestone, hard, very argillaceous, weathered, yellow shale in the lower part.
 Limestone, hard, slightly argillaceous, weathered, light yellow, transitional to a weathered, highly fossiliferous (bordering on shell agglomerate in the upper part), light yellow, with numerous solution cavities partly to tightly filled with yellow lime from 101.8 ft to 104.8 ft, with a very hard, crystalline, fossiliferous, weathered, reddish-brown limestone seam from 101.7 ft to 102.0 ft, with numerous *Orbitolina tezana* fossils in the lower part, and with a highly inclined, iron-stained, slickensided fracture from 117.9 ft to 118.4 ft.
 Limestone, medium hard, very argillaceous, weathered, yellow, with highly numerous *Orbitolina tezana* fossils; highly fossiliferous, yellowish, yellow shale in the lower part.
 Limestone, hard and light gray, with many small grains of dark-gray lime; numerous, solution cavities tightly filled with yellow argillaceous lime having numerous *Orbitolina tezana* fossils.
 Limestone, hard, argillaceous, light gray, with many *Orbitolina tezana* fossils, and with many irregular masses of medium-hard, calcareous, gray shale having many *Orbitolina tezana* fossils.
 Limestone, hard, argillaceous, weathered, yellow, with abundant *Orbitolina tezana* fossils; highly inclined, parallel, iron-stained fractures from 124.8 ft to 126.2 ft.

Well B49—Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
0.3	132.5	0.3	132.5
0.7	139.2	0.7	139.2
4.1	143.3	4.1	143.3
11.4	154.7	11.4	154.7
1.8	156.5	1.8	156.5
2.5	159.0	2.5	159.0
1.2	160.2	1.2	160.2
4.1	164.3	4.1	164.3
1.7	166.0	1.7	166.0
0.5	166.5	0.5	166.5
30.0	196.0	30.0	196.0
2.3	198.3	2.3	198.3
1.0	199.3	1.0	199.3
1.0	200.2	1.0	200.2
14.2	214.4	14.2	214.4
4.4	218.8	4.4	218.8
2.9	222.7	2.9	222.7
7.4	230.1	7.4	230.1
0.1	233.0	0.1	233.0
3.6	236.6	3.6	236.6
0.8	237.4	0.8	237.4
1.3	238.8	1.3	238.8
1.7	240.4	1.7	240.4
9.0	250.1	9.0	250.1

Glen Rose formation—Continued.
 Limestone, hard, argillaceous, light gray, with abundant *Orbitolina tezana* fossils.
 Limestone, hard, slightly argillaceous, fossiliferous, light gray, with occasional solution cavities partly to tightly filled with argillaceous, gray lime; occasional irregular, thin, and hairline partings of gray shale; many small grains of dark-gray limestone from 137.2 ft to 139.3 ft; a highly inclined fracture from 134.0 ft to 134.3 ft; irregular, light yellow, weathered zones from 133.8 ft to 135.9 ft.
 Limestone, hard, very argillaceous, gray, with many tight, thin partings of gray shale from 139.2 ft to 139.6 ft.
 Limestone, hard, argillaceous, variably light gray and gray, with a few scattered solution cavities; many small grains of gray limestone from 143.3 to 144.0 ft, 146.2 ft to 146.8 ft, and 152.9 ft to 153.8 ft; occasional fossils; inclined slickensided fractures at 143.5 ft, 143.9 ft, 145.8 ft.
 Limestone, hard, argillaceous, light gray, with abundant minute grains of dark-gray shale; highly inclined, slickensided fracture from 154.7 ft to 155.1 ft; medium-lime; a highly inclined, slickensided fracture from 154.7 ft to 155.1 ft and 156.5 ft to 156.5 ft.
 Limestone, hard, argillaceous, gray, with abundant small grains and small concretionary masses of hard, argillaceous, gray limestone; many irregular, tight, thick and thin partings of medium-hard, very calcareous gray shale in the lower part.
 Limestone, hard, very argillaceous, gray; occasional irregular seams of hard, argillaceous, light-gray limestone, and occasional irregular, tight, thick and thin partings of medium-hard, very calcareous gray shale.
 Limestone, hard, very argillaceous, gray; occasional fractures in the extreme upper part.
 Shale, medium hard, calcareous, weathered, light yellow; occasional fracture zones.
 Limestone, hard, argillaceous, light gray, with many small grains of gray limestone.
 Limestone, hard, argillaceous, weathered, light yellow; occasional fracture zones.
 Limestone, hard, argillaceous, light gray; occasional fracture zones.
 Limestone, hard, argillaceous, light gray (almost gray); with a light-gray limestone phase in the lower part; a medium-hard, very calcareous, weathered yellow shale phase from 193.0 ft to 194.1 ft; a very hard, slightly argillaceous, weathered, somewhat brittle and fractured, light-tan limestone phase from 191.8 ft to 192.8 ft; and a very hard crystalline, weathered, brown limestone seam from 192.3 ft to 192.6 ft.
 Limestone, hard, very argillaceous, gray, with a vertical fracture from 197.8 ft to 198.3 ft.
 Shale, medium hard, very calcareous, dark gray.
 Limestone, hard, argillaceous, light gray, with occasional irregular, tight, thick and thin partings of many masses of hard, argillaceous, light-gray limestone.
 Limestone, hard, argillaceous, partly fossiliferous, light gray; a hard, very argillaceous, light gray (almost gray) limestone phase having highly numerous *Orbitolina tezana* fossils from 203.3 ft to 212.8 ft; numerous small solution cavities from 201.0 ft to 201.8 ft; a few small solution cavities in the extreme lower part which is hard, very argillaceous, limestone.
 Limestone, hard, argillaceous, light gray (almost gray); with a light-gray limestone phase in the middle part having scattered pin-hole vugs and a few small solution cavities; a very argillaceous gray limestone phase in the extreme lower part.
 Limestone, hard, argillaceous, light gray, with a medium-hard very argillaceous limestone phase from 200.0 ft to 200.7 ft.
 Limestone, hard, argillaceous, light gray (almost gray), with many small concretionary masses of hard, argillaceous, light-gray limestone in the extreme lower part, and with a light-gray and gray banded appearance in the middle part.
 Shale, medium hard, calcareous, gray.
 Limestone, hard, argillaceous, light gray, with many irregular masses of hard, argillaceous gray limestone.
 Limestone, hard, argillaceous, light gray.
 Limestone, hard, very argillaceous, gray.
 Shale, medium hard, very calcareous, gray.
 Limestone, hard, argillaceous, light gray, with occasional fossils with a few scattered solution cavities and open shell cases becoming from 241.6 ft to 241.6 ft to 242.6 ft, and with scattered small grains of gray limestone in the lower part.

Note: After the classification by James K. Mortlock, Corps of Engineers, U. S. Army. Published by the permission of the District Engineer.

Well C5

[Owner, George Faber. 13 miles northwest of New Braunfels. Driller, E. B. Kutchner.]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
10	10	20	150
20	30	55	205
23	53	45	250
83	130	205	455

Double boulders.....
 Red boulders.....
 Yellow clay (water at 87 ft).....

Blue clay and limestone.....
 Yellow clay and limestone.....
 Blue-gray limestone.....
 Gray and blue limestone.....

Well C13

[Owner, R. R. Williams. 11 miles northeast of New Braunfels. Driller, E. B. Kutcher]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
220	220	15	310
40	260	40	350
10	270	70	420
25	295		

Edwards limestone
Caves, red, no water
White rock
Yellow clay and mud

White limestone (hard)
Yellow marl
Blue shale and blue limestone,
water at 200, 365, 400 and 420 ft.

Well F1

[9 miles northwest of New Braunfels. Core test. Driller, U. S. Army, Corps of Engineers. Altitude of land surface 864.7]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
2.4	2.4	2.4	2.4
3.5	5.9	3.5	5.9
15.6	21.5	15.6	21.5
3.3	24.8	3.3	24.8
1.4	26.2	1.4	26.2
10.1	36.3	10.1	36.3
.3	36.6	.3	36.6
5.3	41.9	5.3	41.9
.2	42.1	.2	42.1
6.2	48.3	6.2	48.3
1.2	49.5	1.2	49.5
.5	49.6	.5	49.6
.8	50.9	.8	50.9
11.4	62.3	11.4	62.3
2.0	64.3	2.0	64.3
1.6	65.9	1.6	65.9
4.8	70.7	4.8	70.7
.6	71.3	.6	71.3
1.4	72.7	1.4	72.7
3.5	76.2	3.5	76.2

Glen Rose formation:
Limestone, hard, broken and weathered, yellowish white, flinted
Limestone, hard, broken and weathered, yellowish white with occasional iron stains, and with many pinhole vugs and minute calcite crystals, especially in basal part
Limestone, hard, partly broken, weathered yellowish white, with occasional open iron-stained partings and open calcite-lined vugs throughout
Limestone, hard, partly broken and weathered yellowish white, with many solution cavities tightly filled with very calcareous yellow shaly clay or marl
Shale, medium hard, very calcareous, yellow
Limestone, variably hard and medium hard, massive, argillaceous throughout; some transitional phases bordering on very calcareous shale or marl, yellow and yellowish white, with occasional small solution cavities filled with very calcareous yellow shaly clay or marl
Shale, medium hard, calcareous, yellow
Limestone, hard (almost medium hard), massive, slightly argillaceous throughout, light yellowish white, with 1-in. calcite-lined vug at 41.7 ft.
Shale, medium hard, calcareous, yellow
Limestone, hard, massive, slightly argillaceous throughout, light yellowish white, with occasional thin, tight horizontal partings of calcareous yellow shaly clay or marl
Limestone, hard (almost medium hard), argillaceous, containing numerous pinhole vugs, yellowish white, with occasional thin horizontal bands or partings of medium hard, calcareous yellow shaly clay or marl
Shale, medium hard, calcareous, yellow
Limestone, hard, argillaceous, light yellowish white
Limestone, medium hard, argillaceous, light yellow with numerous vugs ¼ in. in diameter and smaller, throughout
Limestone, hard, massive, slightly argillaceous throughout, light yellowish white, mottled with occasional solution cavities tightly filled with hard, yellow argillaceous limestone; occasional very small calcite-lined vugs, especially in upper part, and with ¼ in. horizontal parting of calcareous, yellow shale at 50.1 ft.
Limestone, medium hard, very argillaceous, yellowish white, with numerous pinhole vugs throughout
Limestone, medium hard, (almost hard), argillaceous, yellowish white, with some pinhole vugs scattered throughout; ¼ in. bands of calcareous yellow shale at 64.3 ft. and 65.9 ft.
Limestone, hard, massive, white with very occasional fossils scattered throughout and with ½ in. band of calcareous yellow shale at 69.6 ft.
Limestone, hard (almost medium hard) slightly argillaceous, yellowish white with pinhole vugs scattered throughout. Note: The "contact" shown at 70.7 ft. is transitional
Limestone, hard, massive, slightly argillaceous, yellowish white to yellowish gray. Note: The "contact" shown at 71.3 ft. is transitional
Limestone, hard, variably argillaceous and very argillaceous, partly broken, yellowish white, with some pinhole vugs; occasional medium sized calcite crystals and many minute calcite crystals throughout, and with a ½ in. stained vug at 75.2 ft. Note: The "contact" shown at 72.7 ft. is transitional and solution action is becoming increasingly apparent with depth.

Well F1—Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
1.0	77.2	1.0	77.2
3.6	80.8	3.6	80.8
4.8	85.6	4.8	85.6
2.7	88.3	2.7	88.3
1.6	89.9	1.6	89.9
.7	90.6	.7	90.6
4.2	94.8	4.2	94.8
4.3	99.1	4.3	99.1
3.6	102.7	3.6	102.7
.8	103.0	.8	103.0
6.3	106.3	6.3	106.3
2.9	112.2	2.9	112.2
2.1	114.3	2.1	114.3
6.0	120.3	6.0	120.3
1.4	121.7	1.4	121.7
2.5	134.2	2.5	134.2
40.6	174.8	40.6	174.8
.8	175.6	.8	175.6
5.5	181.1	5.5	181.1
1.0	182.1	1.0	182.1
1.9	184.0	1.9	184.0
1.9	185.9	1.9	185.9
3.3	189.2	3.3	189.2
1.3	190.5	1.3	190.5

Glen Rose formation—Continued
Limestone, hard, with many solution cavities, yellowish gray
Limestone, variably hard and medium hard, broken probably, with very numerous solution cavities throughout, gray. Note: Only a few limestone fragments were recovered between 77.2 ft. and 80.8 ft. Core may have been broken by drilling operation
Limestone, hard (almost medium hard), massive, very argillaceous, light yellowish gray
Limestone, medium hard, chalky, white, containing occasional calcite crystals; vugs filled with clay; thin partings of calcareous yellow shaly clay or marl
Limestone, medium hard, very argillaceous, with many "pin-hole" vugs throughout, yellowish white
Limestone, medium hard or soft, very argillaceous, yellowish white, with many small solution cavities partly filled with calcareous, yellow shaly clay or marl
Limestone, medium hard, massive, argillaceous, yellowish white, with many "pin-hole" vugs throughout and with small solution cavities filled and partly filled with calcareous, yellow shaly clay or marl
Limestone, hard, generally massive, argillaceous, light gray, with irregular (wavy) transitional phases, becoming argillaceous and darker gray; occasional small solution cavities filled with calcareous, gray shaly clay, especially in upper part
Limestone, hard, massive, argillaceous, light yellow, with very occasional small solution cavities filled with calcareous, yellow shaly clay or marl; a few calcite crystals scattered throughout the basal part. Note: This material is similar to that from 94.8 ft. to 99.1 ft. except for color
Limestone, hard, broken, argillaceous, light yellow, with a very thin diagonal parting of calcareous yellow shaly clay which shows slickenside
Limestone, hard, (almost medium hard), massive, somewhat chalky and slightly argillaceous, variably yellowish white and white, with occasional solution cavities filled with calcareous yellow shaly clay or marl
Limestone, hard, massive, argillaceous, light gray. Note: The "contact" shown at 106.3 ft. is transitional
Limestone, hard, argillaceous, light gray, with irregular (wavy) transitional phases becoming very argillaceous and darker gray, and with solution cavities partly filled with calcareous gray shaly clay and partly lined with calcite crystals
Limestone, hard (almost medium hard), massive, light gray in upper part; white in basal part, with transitional phases containing many pin-hole vugs. Note: The "contact" shown at 114.3 ft. is transitional
Limestone, hard, massive, argillaceous, variably light gray and white, with transitional phases becoming argillaceous and darker gray; very thin irregular (wavy) light partings of dark gray shaly clay, especially at about 128 ft. Note: The "contact" shown at 114.3 ft. is transitional
Limestone, hard (almost medium hard), massive, slightly argillaceous, somewhat chalky, white, with a very thin diagonal parting of dark gray shaly clay at 126.2 ft. which shows slickenside and with ¼ in. solution cavity or vug at 132.3 ft.
Limestone, hard, massive, variably argillaceous and partly argillaceous, variably light gray and white, with occasional fossils scattered throughout; some transitional phases contain very thin (wavy) tight partings of dark gray shaly clay and with an isolated ½ in. vug at 142.2 ft. Note: The "contact" shown at 134.2 ft. is transitional
Limestone, hard argillaceous, variably gray and dark gray, and almost hard, calcareous dark gray shale, with concretionary nodules of argillaceous, light gray limestone. Note: The "contact" shown at 174 ft. is transitional
Limestone, hard, massive, slightly argillaceous, somewhat chalky white
Limestone, medium hard, variably light gray and white, argillaceous, almost calcareous shale throughout and especially so from 181.8 ft. to 182.1 ft.
Shale, medium hard, calcareous, gray, with occasional small concretionary nodules of argillaceous, light gray limestone in basal part
Limestone, hard, massive, slightly argillaceous, somewhat chalky, white, with occasional irregular (wavy) transitional phases of argillaceous limestone
Limestone, hard, argillaceous, light gray, with many irregular (wavy) tight partings of hard, very calcareous, shaly clay

Note: After the classification by Jack Colligan, U. S. Army, Corps of Engineers. Published by permission of the District Engineer.

Well G17

[Owner, — Bretzke. 5 miles northwest of New Braunfels. Core test. Driller, U. S. Army, Corps of Engineers]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
6.0	6.0	6.0	6.0	6.0	6.0
5.5	6.5	5.5	6.5	5.5	6.5
7.2	7.2	7.2	7.2	7.2	7.2
3.6	10.8	3.6	10.8	3.6	10.8
2.2	13.0	2.2	13.0	2.2	13.0
5.5	13.5	5.5	13.5	5.5	13.5
1.0	16.0	1.0	16.0	1.0	16.0
22.0	22.0	22.0	22.0	22.0	22.0
3.6	25.6	3.6	25.6	3.6	25.6
2.4	28.0	2.4	28.0	2.4	28.0
1.4	29.4	1.4	29.4	1.4	29.4
2.1	31.5	2.1	31.5	2.1	31.5
1.5	33.0	1.5	33.0	1.5	33.0
1.4	34.4	1.4	34.4	1.4	34.4
6.0	35.0	6.0	35.0	6.0	35.0
2.0	37.0	2.0	37.0	2.0	37.0
7.0	44.0	7.0	44.0	7.0	44.0
1.0	45.0	1.0	45.0	1.0	45.0
12.0	57.0	12.0	57.0	12.0	57.0
21.0	78.0	21.0	78.0	21.0	78.0
9.0	87.0	9.0	87.0	9.0	87.0
2.7	89.7	2.7	89.7	2.7	89.7
3.0	90.0	3.0	90.0	3.0	90.0
8.8	93.8	8.8	93.8	8.8	93.8
2.2	96.0	2.2	96.0	2.2	96.0
1.0	97.0	1.0	97.0	1.0	97.0
1.0	98.0	1.0	98.0	1.0	98.0
1.0	99.0	1.0	99.0	1.0	99.0
8.0	107.0	8.0	107.0	8.0	107.0
8.8	107.8	8.8	107.8	8.8	107.8
2.2	110.0	2.2	110.0	2.2	110.0
1.8	111.8	1.8	111.8	1.8	111.8
1.0	112.8	1.0	112.8	1.0	112.8
0.8	119.6	0.8	119.6	0.8	119.6
1.8	121.2	1.8	121.2	1.8	121.2
3.0	125.0	3.0	125.0	3.0	125.0
4.4	129.1	4.4	129.1	4.4	129.1
5.5	131.0	5.5	131.0	5.5	131.0
2.6	133.6	2.6	133.6	2.6	133.6
3.4	137.0	3.4	137.0	3.4	137.0
1.1	137.1	1.1	137.1	1.1	137.1
4.0	140.1	4.0	140.1	4.0	140.1

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Well G40

[Owner, Mrs. Lydia Kirmse. 3 1/4 miles northeast of New Braunfels.]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
5	5	5	5
2	7	2	7
58	65	58	65

Well F3

[Owner, A. J. Walser. 13 1/2 miles northwest of New Braunfels. Driller, J. R. Johnson.]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
1	1	140	500
44	45	11	571
64	109	24	595
121	230	5	600
100	339	100	700
85	415	35	735
5	420	12	747

Well F13

[Owner, Henry Rompel, 10 miles northwest of New Braunfels. Driller, E. B. Kutchur.]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
17	17	32	135
8	25	75	210
25	50	18	228
22	72	12	240
2	74		
29	103		

Well F32

[Owner, E. J. Heidrick, 6 1/2 miles northwest of New Braunfels. Driller, J. R. Johnson.]

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
2	2	105	285
10	12	25	320
2	14	75	335
2	16	261	656
4	20	237	853
8	28	85	978
6	34	85	1,063
22	56	99	1,162
4	60	16	1,178
3	63	102	1,280
32	95	62	1,342
10	105	21	1,363
10	115	153	1,516
2	117	2	1,518
2	120	182	1,700
20	140	66	1,766
4	144	5	1,771
11	155	24	1,795
5	160	20	1,815
4	164	180	1,815
16	180	52	1,867
10	190		

Well G41, partial log

[Owner, Mrs. B. Gruene Estate. 3¼ miles northeast of New Braunfels. Drillers, Killern and Hicks.]

	Thick- ness (feet)	Depth (feet)		Thick- ness (feet)	Depth (feet)
Taylor marl.....	292	292	Edwards and Comanche Peak		
Austin chalk.....	193	485	limestone.....	450	1,059
Eagle Ford shale.....	20	505	Glen Rose limestone.....	(?)	(?)
Buda limestone.....	35	540			
Grayson (Del Rio) shale.....	40	580	Total depth.....		2,350
Georgetown limestone.....	20	600			

Well G46

[Owner, City of New Braunfels. In New Braunfels. Driller, ___ Cravens.]

	Thick- ness (feet)	Depth (feet)		Thick- ness (feet)	Depth (feet)
Surface rock.....	9	9	Georgetown limestone.....	30	58
Red clay.....	6	15	Edwards limestone.....	58	116
Gravel (water).....	13	28			

Well G49

[In New Braunfels. Core test and observation well. Driller, U. S. Army, Corps of Engineers.]

	Thick- ness (feet)	Depth (feet)
No samples.....	6.4	6.4
Limestone, gray white, crystalline.....	1.6	8.0
Limestone, gray white, lithographic, solution cavities filled with red clay or pink lime.....	4.0	12.0
Limestone, lithographic texture, brownish gray; some chert.....	1.2	13.2
Limestone, gray white vugs contain secondary calcite crystals; lower part, white with milliline fossils.....	7.1	20.3
Limestone, dense brownish gray.....	4.0	24.3
Limestone, white, milliline fossils.....	4.7	29.0
Limestone, brownish gray, fine texture; vugs (core less 1.8 ft) chert at 36 ft.....	7.0	36.0
Limestone, gray white, fine texture, cavities filled with red clay and calcite crystals.....	6.0	42.0
Limestone, brownish gray, coarsely crystalline; cavities contain red clay and calcite crystals.....	9.0	51.0
Limestone, dark gray, coarsely crystalline, some red clay.....	9.0	60.0
Limestone, gray white to pink, lithographic texture. Part of core replaced by dense calcareous pink clay. Contact between clay and limestone irregular. Logged as "broken limestone".....	10.0	70.0
Limestone, gray, coarsely crystalline; vugs and fractures filled with dogtooth spar and some real clay; about one half of core is secondary material.....	8.0	78.0
Limestone, gray, fine grained; vugs small, contain small crystal of calcite core less 1.3 ft.....	6.3	84.3
Limestone, fine-grained, and red clay; core less 1 ft.....	1.0	85.3
Limestone, mostly coarsely crystalline; large vugs lined with small calcite crystals; large crystals and red clay in lower part of core.....	3.8	89.1
Limestone, upper part badly broken, with much replacement by red clay; lower part fine in texture.....	1.4	90.5
Limestone, with red clay; 2-in. dark-gray bank containing fossils.....	2.0	92.5
Limestone, dense gray; no vugs or fossils; some fractures filled with red clay.....	10.0	102.5
Limestone, light gray, finely crystalline, Foraminifera and small megascopic fossils.....	4.0	106.5
Limestone, light gray, fine texture, small open vugs, red clay in fractures. (4 cores less 6 ft).....	16.9	123.4
Limestone, gray, medium texture, small vugs, no red clay.....	3.6	127.0
Limestone, gray, lithographic texture, breaks and large vugs filled with red clay.....	8.5	135.5
Limestone, gray, medium texture, fractures filled with red clay, some open vugs lined with small calcite crystals.....	2.0	137.5
Limestone, hard, dense, vuggy, gray to brownish gray; much pink argillaceous secondary material; some fossils.....	4.1	141.6
Limestone, gray, lithographic texture, not vuggy, rudistid(?) fossils.....	4.4	146.0
Limestone, light gray, fine texture, contains small white elongate pellets about ¼ in. in diameter. 2 cores, loss 1.1 ft.....	5.6	151.6
Limestone, fine texture, vuggy, partly replaced by pink calcareous material.....	8.7	160.3
Limestone, vuggy, without crystals, fine texture, much pink calcareous clay.....	2.6	162.9
Clay or marl, red (loss 4.7 ft).....	7.1	170.0

Well G49—Continued

	Thick- ness (feet)	Depth (feet)
Limestone, brownish gray to gray, vuggy, almost spongy, fine texture, elastic(?).....	4.5	174.5
Cavity.....	3.0	177.5
Limestone, gray to brownish gray, no cavities.....	2.5	180.0
Limestone, light gray, few small vugs. (2 cores).....	11.4	191.4
Limestone, dense, brownish gray, vugs lined with calcite crystals and clay, (4 cores), cavity ½ ft.....	19.0	220.4
Limestone, gray, lithographic texture, vuggy with calcite and clay fossiliferous (crinoid stems and <i>Pecten</i> (?) at 227 feet).....	7.1	227.5
Limestone, brownish gray, vugs lined with dripstone (?) or earthy lime.....	4.9	232.4
Limestone, gray to brownish gray, fine texture, vugs filled with earthy lime. (4 cores).....	18.6	251.0
Limestone, gray, lithographic texture, very few vugs and fossils.....	1.0	252.0
Limestone, mottled light and dark gray; fossils abundant; Probably equivalent of Walnut clay.....	1.0	253.0
Limestone, mottled light and dark gray, fewer fossils than above and no vugs.....	7.0	260.0
Limestone, gray to white, mottled with nearly black limestone, few fossils, no vugs.....	10.0	270.0
Limestone, medium-dark gray, finely porous to vuggy, largely dolomitized; few fossils (2 cores).....	18.9	288.9
Limestone, medium dark gray, vuggy, some calcite crystals. (2 ft of core lost).....	4.1	293.0
Limestone, gray, fine texture, mostly tight.....	7.2	300.2
Limestone, light gray, fine texture, somewhat dolomitized, large vugs nearly filled with calcite crystals.....	5.8	306.0
Limestone, mottled light and dark gray, mostly dense, with few cavities.....	5.0	311.0
Limestone, dense, light gray, few large vugs lined with calcite crystals.....	19.0	320.0
Total depth.....		320.0

Well G53

[Owner, A. Swanson. In New Braunfels]

	Thick- ness (feet)	Depth (feet)		Thick- ness (feet)	Depth (feet)
Gravel and red clay.....	28	28	Coarse honeycomb (water).....	4	132
Hard limestone.....	52	80	Hard limestone.....	16	148
Red clay.....	40	120	Very coarse honeycombed limestone, water.....	4	152
Hard limestone.....	8	128			

Well G58

[Owner, Emma Rose. 4½ miles northeast of New Braunfels]

	Thick- ness (feet)	Depth (feet)		Thick- ness (feet)	Depth (feet)
Top soil.....	3	3	Blue shale.....	2	30
Yellow clay and gravel.....	25	28	Gravel.....	2	32

Well G75

[Owner, W. S. Suttle. 1¾ miles southwest of New Braunfels. Driller, E. B. Kutcher]

	Thick- ness (feet)	Depth (feet)		Thick- ness (feet)	Depth (feet)
Yellow clay.....	60	60	Buda (limestone).....	70	540
Blue clay.....	255	305	Del Rio (Grayson shale).....	40	580
Austin chalk.....	150	455	Georgetown (limestone).....	20	600
Eagle Ford (shale).....	15	470	Edwards (limestone).....	5	610

Well H59

[Owner, Davenport School. 12 miles southwest of New Braunfels. Driller, Ted Nored.]

	Thick- ness (feet)	Depth (feet)
Austin chalk:		
Chalk, cream colored, slightly sandy, small amount of ferruginous and carbonaceous (?) material; <i>Inoceramus</i> prisms, ostracods, <i>Gleborotalia</i> ?	10	10
Similar to sample above	10	20
sponge spicules, echinoid spines	10	30
Similar to above, Foraminifera abundant, poorly preserved, <i>Inoceramus</i> prisms, calcareous tests. Sponge spicules, prisms, and echinoid spines	10	40
Somewhat sandy limestone, with some dark-gray shale particles; Foraminifera abundant and well preserved. Probably includes contact between Austin chalk and Eagle Ford shale	10	50
Eagle Ford shale:		
Shale, dark blue-gray sandy; secondary calcite, echinoid spines, abundant Foraminifera	10	60
Buda limestone:		
Limestone, cream colored, white under bright light, calcite crystals, some mica and ferruginous material; fossils poorly preserved	10	70
Similar to above, more shaly and ferruginous material; Foraminifera apparently abundant but poorly preserved	10	80
Limestone, cream colored with typical small brown specks; secondary calcite and a few grains of glauconite present. Sponge spicules, echinoid spines, and abundant poorly preserved Foraminifera	10	90
Similar to above. Some Foraminifera could probably be identified	10	100
Shale, blue, containing shell fragments, washed sample contains poorly preserved Foraminifera. Secondary calcite and a bright green material—probably glauconite	10	110
Grayson (Del Rio) shale:		
Shale, blue, containing shell fragments. Washed residue contains much pyrite, some replacing Foraminifera, Ostracoda, and other groups	10	120
Same as above	10	130
Clay, dark-blue. Rosettes of marcescite conspicuous	10	140
pyrite and many microfossils	10	150
Clay dark-blue; dries hard; washed residue, probably 0.05 of original volume. Secondary calcite and pyrite. Foraminifera abundant, poorly preserved shell fragments	10	160
Georgetown limestone:		
Clay, dark-blue; shell fragments. Washed sample contains much pyrite, many poorly preserved microfossils and fragments of yellow limestone	5	165
Probably top of Georgetown. Dry sample is hard blue-gray mud. Washed sample nearly white limestone containing some secondary calcite and a few poorly preserved Foraminifera. Millolite forms inconspicuous or absent. Individual pieces of limestone yellowish in contrast to white of Edwards limestone	4	169
No sample	11	180
Yellow chalky marl and limestone, somewhat granular but texture not coarse. Small shell fragments. Under microscope some grains are clear like quartz. Acid-treated residue contains limonite only	2	182
Limestone, yellow, powdery. Washed sample shows white and yellow iron-stained fragments of limestone, microfauna poorly preserved	5	187
Edwards limestone:		
Limestone, yellow, powdery. Washed residue shows hard yellow limestone and few grains of limonite; microfauna unrecognizable	5	192
Limestone, yellow. Dry drill cuttings powdery and marly. Washed sample: dense white and yellow limestone, with a few grains of quartz and limonite. Ostracoda and shell fragments	5	197
Limestone, yellow. Dry cuttings fine light yellow powder. Washed sample contains few grains of quartz and limonite. No evidence of fossils. May be interformational tufa	5	202
Similar to above except that small shell fragments were found	5	207
Gray and white limestone containing some clear quartz	4	211
Hard gray limestone, some lithographic limestone, shell fragments	6	217
Hard lithographic lime and shell fragments, some mica and quartz	5	221
Total depth		225

[Lithologic terms for some wells are those of drillers and may not correspond to Geological Survey usage.]

Drillers' logs of wells in Hays County, Tex.

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well C-25							
Owner: Texas-New Mexico Pipeline Co. Driller: E. R. Osborne.							
Chalk	5	5	Limestone, gray	14	260		
Limestone, gray	5	10	Limestone, blue	12	272		
Shale, blue	50	60	Shale, brown	10	282		
Shale, gray	10	70	Shale, red	3	285		
Limestone, yellow	25	95	Cavity	3	288		
Limestone, white	50	145	Limestone, gray	24	312		
Limestone, gray	75	220	Limestone, yellow, water	13	325		
Limestone, yellow	26	246	Limestone	6	331		
Well D-4							
Owner: A. A. Elsner. Driller: E. A. Bucklin.							
Topsoil	17	17	Lime, brown	29	520		
Lime, gray	33	50	Shale, red	18	538		
Shale, gray	10	60	Sand, red	7	545		
Lime, white	22	82	Sand, white	18	563		
Sand, water	18	100	Shale, red	3	566		
Lime, white ..	110	210	Lime, gray	34	600		
Gravel	21	231	Lime, white	10	610		
Lime, white	29	260	Sand, water	12	622		
Shale, gray	5	265	Lime, gray	23	645		
Lime, gray	15	280	Lime, mixed	10	655		
Lime, sandy	20	300	Lime, black	5	660		
Shale, gray	10	310	Lime, gray	65	725		
Sand, gray	32	342	Shale, sandy	45	770		
Shale, gray	48	390	Red beds	5	775		
Slate, blue	20	410	Shale, green	20	795		
Shale, sandy	48	458	Shale, brown	25	820		
Shale, green	8	466	Shale, gray	50	870		
Sand, red	3	469	Shale, black	45	915		
Sand, white	7	476	Shale, gray	55	970		
Lime, white	10	486	Shale, black	1,490	2,460		
Shale, mixed	5	491					
Well D-62							
Owner: Mrs. H. H. Phillips.							
No record	615	615	Limestone, hard gray	3	928		
Lime, alternating soft, and dobie with shell breaks	150	765	Limestone, brown	24	952		
Lime, coarse	110	875	Limestone, soft black	8	960		
Lime and fossils	20	895	Sand	35	995		
Shale, sandy blue	20	915	Shale, blue	16	1,011		

Drillers' logs of wells in Hays County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-24							
Owner: J. L. Dodgen. Driller: T. E. Owen							
Caliche	5	5	Lime, white	32	94		
Clay, yellow	15	20	Lime	188	282		
Shale, blue	45	62	Sand. water	30	312		
Well E-31							
Owner: Henry Armbuster. Driller: T. E. Owen							
Lime	32	32	Lime	163	248		
Clay, blue	53	85					
Well E-33							
Owner: Homer Heep. Driller: C. L. Tyler.							
Soil. black.....	1	1	Shale	34	87		
Clay and gravel	8	9	Limestone	31	118		
Clay, yellow	16	25	Clay	57	175		
Shale, blue	6	31	Limestone	67	242		
Chalk	22	53					
Well E-37							
Owner: J. A. Rogers. Driller: Saunders & Glass.							
Surface	4	4	Limestone	35	98		
Gravel	10	14	No record	57	155		
Chalk	24	38	Limestone, dark blue, water-				
Shale	25	63	bearing	190	345		
Well E-38							
Owner: J. A. Rogers. Driller: C. L. Tyler.							
Surface	4	4	Limestone	30	115		
Clay and gravel	9	13	Clay	56	171		
Chalk	30	43	Limestone	154	325		
Shale	42	85					

Drillers' logs of wells in Hays County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well E-46							
Owner: Mrs. Laura B. Negley. Driller: C. L. Tyler.							
Surface	4	4	Limestone	42	351		
Clay, yellow joint	50	54	Clay	58	409		
Shale, blue	7	61	Limestone	99	508		
Chalk	217	278					
Shale, black	31	309					
Well E-47							
Owner: Mrs. Laura B. Negley. Driller: C. L. Tyler.							
Surface	2	2	Limestone	44	289		
Marl	23	25	Clay	52	341		
Chalk	187	212	Limestone	89	430		
Shale	33	245					
Well E-48							
Owner: Mrs. Laura B. Negley. Driller: C. L. Tyler.							
Chalk	115	115	Clay	50	237		
Shale	26	141	Limestone	163	400		
Limestone	46	187					
Well E-50							
Owner: Mrs. Laura B. Negley. Driller: C. L. Tyler.							
Soil	3	3	Limestone	44	278		
Marl	26	29	Clay	51	329		
Chalk	172	201	Limestone	136	465		
Shale	33	234					
Well E-51							
Owner: F. W. Miller. Driller: C. L. Tyler.							
Soil	1	1	Limestone	41	161		
Shale, hard white	41	42	Clay	55	216		
Chalk	33	75	Limestone	98	314		
Shale	45	120					

Drillers' logs of wells in Hays County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-52. partial log							
Owner: M. G. Michealis. Driller: C. L. Tyler.							
Surface	2	2	Clay, yellow, cavity	3	70		
Dobie	17	19	Shale, black	17	87		
Clay, yellow	21	40	Limestone, light yellow	6	93		
Limestone, hard yellow	3	43	Total depth		325		
Shale, black	24	67					
Well E-55							
Owner: Jim Blair. Driller: C. L. Tyler.							
Surface	3	3	Clay	10	25		
Clay, red, and gravel	7	10	No record	275	300		
Limestone	5	15					
Well E-57							
Owner: F. W. Zimmerman. Driller: C. L. Tyler.							
Soil	1	1	Clay, yellow and lime shells	61	93		
Clay, yellow	9	10	Lime, soft pale blue	157	250		
Lime, blue	10	20	Strata, hard, some sand little				
Shale, blue	10	30	water	25	275		
Lime, gray	2	32	Strata, hard, water sand at 335 feet	73	348		
Well E-64							
Owner: Ed Montague. Driller: C. L. Tyler.							
Surface	2	2	Chalk	92	107		
Marl	13	15	Limestone	21	128		
Well E-76							
Owner: City of Buda. Driller: J. B. Virdell.							
Topsoil and gravel	20	20	Mud, blue	55	160		
Chalk rock	25	45	Limestone (Georgetown)	57	217		
Shale, hard, blue	19	64	Limestone (Edwards)	173	390		
Chalk rock	41	105					

Drillers' logs of wells in Hays County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well F-1							
Owner: Herman Heep. Driller: C. L. Tyler.							
Soil	3	3	Limestone	28	152		
Clay, red, and gravel	35	38	Clay	50	202		
Chalk	56	94	Limestone	99	301		
Shale	30	124					
Well F-10							
Owner: L. C. Coers. Driller: C. L. Tyler.							
Soil	2	2	Shale, black	32	459		
Clay, yellow	24	26	Limestone	44	503		
Shale, blue	170	196	Clay	59	562		
Marl and blue shale	35	231	Limestone	88	650		
Chalk	196	427					
Well F-19							
Owner: Will G. Barber. Driller: John H. Foster.							
Clay	20	20	Lime	53	481		
Shale	220	240	Clay	30	511		
Marl	50	290	Lime	59	570		
Chalk	118	408	Clay	42	612		
Shale	20	428	Lime	4	616		
Well F 20							
Owner: Will G. Barber. Driller: John H. Foster.							
Clay	10	10	Shale	20	510		
Shale	190	200	Lime	47	557		
Marl	26	226	Clay	53	610		
Chalk	264	490	Lime	194	804		
Well F-21							
Owner: Will G. Barber. Driller: John H. Foster.							
Clay	18	18	Shale	17	497		
Clay, hard packed	20	38	Lime	48	545		
Shale, hard packed	211	249	Clay	49	594		
Marl	14	263	Lime	55	649		
Chalk	217	480	Lime, white	16	665		

Drillers' logs of wells in Hays County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-22							
Owner: A. H. Whitten. Driller: C. L. Tyler.							
Soil, black	3	3	Limestone	40	368		
Clay, yellow	40	43	Clay	62	430		
Chalk	255	298	Limestone	72	502		
Shale	30	328					
Well G-15							
Owner: C. W. Burdett. Driller: T. E. Owen.							
Gravel, terrace	17	17	Limestone, sandy	60	277		
Limestone, blue	40	57	Limestone, soft white, fine				
Limestone, white	30	87	sandy	30	307		
Limestone, blue	50	137	Limestone, gray, sandy	67	374		
Limestone, yellow	20	157	No record	51	425		
Limestone, blue	30	187	Dolomite, brown	37	462		
Limestone and limestone pebbles	30	217	Shale, bluish-green	56	518		
			Limestone, white	7	525		
Well G-17							
Owner: W. A. Leath. Driller: T. E. Owen.							
Lime, white	240	240	Sand, hard-packed, white	8	248		
Well G-46							
Owner: Rector Williams. Driller: E. B. Kutscher.							
Dirt, red, and boulders	85	85	Rock, yellow, seep of water ...	3	214		
Clay, red and rock in layers	22	107	Clay, yellow	21	235		
Rock, hard, honeycombed	9	116	Rock, red, and clay	3	238		
Cave	4	120	Rock, yellow, water	52	290		
Caving material	28	148	Rock, yellow and blue	10	300		
Boulders	30	178	Sand, water	7	307		
Rock, loose, white	7	185	Sand and rock	8	315		
Rock, blue	26	211					

Drillers' logs of wells in Hays County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well G-51							
Owner: R. Wegner. Driller: E. B. Kutscher.							
Boulders	46	46	Rock, gray	28	199		
Rock, adobe	18	64	Rock, yellow	71	270		
Rock, softer	5	69	Rock, gray	2	272		
Rock, white crystalline ..	6	75	Rock, blue spotted	13	285		
Rock, dark red	20	95	Rock, blue	5	290		
Rock, honeycombed	9	104	Rock, gray	5	295		
Rock, brownish-red	6	110	Rock, yellow	15	310		
Rock, coarse pieces	14	124	Rock, gray mixed	25	335		
Rock, red	14	138	Rock, blue	26	361		
Rock, light red	16	154	Sand, gray, water	3	364		
Rock, white	6	160	Rock, blue	11	375		
Rock, blue	11	171	Rock, light blue	6	381		
Well G-53							
Owner: J. H. Robinson. Driller: E. B. Kutscher.							
Surface	10	10	Rock, yellow, honeycombed	80	250		
Boulders	10	20	Rock	34	284		
Clay, red, and boulders	80	100	Rock, yellow	41	325		
Rock, hard	12	112	Rock, yellow and blue	10	335		
Rock, cement	58	170	Rock, soft, dark blue	17	352		
(Small cave at 170 feet)			Sand, gray, water	10	362		
Well G-54							
Owner: Rector Williams. Driller: E. B. Kutscher.							
Boulders, small cave	20	20	Rock, yellow	3	163		
Boulders	22	42	Rock, pink	12	175		
Clay, yellow	3	45	Rock, red	23	198		
Rock, light red	10	55	Rock, white flinty	37	235		
Rock, pink	5	60	Rock, yellow	15	250		
Rock, white	15	75	Rock, blue	75	325		
Rock, hard, white	21	96	Rock, gray, cave at 360 feet.				
Rock, hard in layers	20	116	water at 369 feet	44	369		
Rock, white	44	160	Rock, sandy, gray	8	377		

Drillers' logs of wells in Hays County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-18							
Owner: Roy B. Brooks. Driller: C. L. Tyler.							
Marl, hard	3	3	Limestone, very hard, gray	13	247		
Chalk	163	166	Lime, soft blue	4	251		
Shale	31	197	Clay	49	300		
Limestone	37	234	Limestone	85	385		
Well H-21							
Owner: City of Kyle. Driller: O. A. Payte.							
Surface	5	5	Clay	52	310		
Marl, hard	13	18	Limestone	150	460		
Caprock, hard	4	22	Limestone, alternate strata flint,				
Chalk	160	182	cobbles and porous limestone,				
Shale	32	214	water-bearing	66	526		
Limestone	44	258	Limestone	69	595		
(Dry crevice at 227 feet)							
Well H-22							
Owner: -- Hill. Driller: C. L. Tyler.							
Soil, black	3	3	Marl, hard	21	56		
Clay, yellow	32	35	Chalk	44	100		
Well H-23							
Owner: Nicholas Thiele. Driller: -- Adare.							
Lime, white	290	290	Lime, gray; water from 368 to				
Clay, blue	50	340	372 feet	32	372		
Well H-30							
Owner: Geo. Heidenrich. Driller: -- Robertson.							
Topsoil	20	20	Rock	116	1,242		
Clay	241	261	Limestone	673	1,915		
Chalk	226	487	Shale, sticky	16	1,931		
Shale	30	517	Shale, sticky and hard limestone	46	1,977		
Limestone	57	574	Limestone, hard	38	2,015		
Clay	36	610	Limestone, sandy and shale	194	2,209		
Limestone	45	655	Shale, sticky	52	2,261		
Caliche	2	657	Sand	39	2,300		
Limestone	469	1,126	Shale, sticky blue	5	2,305		
(Continued on next page)							

Drillers' logs of wells in Hays County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well H-30--Continued							
Shale	5	2,310	Sand	149	2,597		
Limestone, sandy	5	2,315	Shale, red	13	2,610		
Limestone, hard	20	2,335	Rock, hard	6	2,616		
Shale and limestone	20	2,355	Rock	46	2,662		
Shale, gummy	21	2,376	Sand	15	2,677		
Limestone and shale	72	2,448	Shale	90	2,767		
Well H-36							
Owner: C. B. Donaldson. Driller: C. L. Tyler.							
Soil	2	2	Limestone, sulfur water	45	457		
Gravel	17	19	Clay	50	507		
Shale, blue	150	169	Limestone	23	530		
Chalk	213	382	Limestone, sulfur water		530		
Shale	30	412					
Well H-58							
Owner: A. Mulvihill. Driller: W. H. Glass.							
Gravel	12	12	Shale	23	218		
Clay, yellow	15	27	Limestone	41	259		
Clay, blue	5	32	Clay	76	335		
Chalk	163	195	Limestone	40	375		
Well H-64							
Owner: R. D. Kelley. Driller: R. D. Kelley.							
Soil, black	2	2	Shale, blue	1	718		
Gravel, caliche	14	16	Lime, hard crystallized	3	721		
Clay, yellow	31	47	Lime, hard	17	738		
Clay, blue sticky	43	90	Sand	2	740		
Clay, blue sandy	160	250	Lime and flint	4	744		
Clay, light blue	25	275	Sand, tight	2	746		
Sand and pyrite	55	330	Lime and flint	4	750		
Marl	25	355	Sand	5	755		
Chalk, hard	175	530	Lime and flint	10	765		
Serpentine	1	531	Lime, hard	5	770		
Lime, sandy	4	535	Lime, hard, flint	25	795		
Chalk, sandy	20	555	Lime, sandy	20	815		
Shale	27	582	Lime, hard	10	825		
Lime, sandy	48	630	Lime, sandy	6	831		
Clay, sticky, full of shells	50	680	Clay, white	18	849		
Lime, soft sandy	35	715	Lime and shale	16	865		
Lime, hard	2	717	Lime, porous	25	890		

Drillers' logs of wells in Hays County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-67							
Owner: City of San Marcos. Driller: J. R. Johnson							
Cellar	16	16	Limestone, solid	33	90		
Clay, yellow with blue strata	20	36	Boulders, flint	6	96		
Limestone, yellow	18	54	Limestone, yellow honeycombed,				
Limestone, broken, very porous	3	57	very porous	19	115		
Well H-72							
Owner: United States Department of the Interior.							
Soil	3	3	Lime, hard (sulfur)	21	595		
Clay, red	15	18	Lime, soft (sulfur)	30	625		
Lime, soft	8	26	Shale, blue	27	652		
Gravel, lime	4	30	Lime, sulfur	49	701		
Clay, blue	68	98	Lime, hard, white	29	730		
Lime, gray	30	128	Clay, white	5	735		
Cavern, water	2	130	Lime, hard, white	25	760		
Lime, white	52	182	Lime	5	765		
Lime, yellow (crystallized)	8	190	Lime, white	34	799		
Cavern, water	5	195	Lime, hard, blue	11	810		
Rock, volcanic	4	199	Lime, soft, white	198	1,008		
Shale, hard, blue	24	223	Lime, gray	104	1,112		
Flint, black	6	229	Shale, blue	7	1,119		
Lime, soft, white	97	326	Lime, gray, water	59	1,178		
Lime, hard, white	57	383	Lime, light yellow	113	1,291		
Lime, gray	27	410	Sand, coarse, gray	54	1,345		
Lime, rotten	25	435	Lime, hard, white	5	1,350		
Lime, hard, gray	51	486	Lime, hard, gray	55	1,405		
Shale, blue	5	491	Sand, hard, black	8	1,413		
Lime, soft, white	42	533	Lime, gray, sandy, fine	62	1,475		
Lime, hard, gray	41	574	Clay, blue	20	1,495		
Well H-76							
Owner: John Avey. Driller: E. B. Kutscher.							
Boulders	20	20	Rock, hard	4	190		
Rock, cement cave at 130 feet	110	130	Sand	6	196		
Rock, honeycombed	56	186	Rock	8	204		

Drillers' logs of wells in Hays County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well H-82							
Owner: Mrs. R. L. Jennings. Driller: O. A. Payte.							
Marl	40	40	Clay	55	335		
Chalk. white	160	200	Lime	35	370		
Shale	30	230	Lime, white	120	490		
Lime	50	280	Lime, gray	70	560		
Well H-98							
Owner: Chas. Fehlis. Driller: E. B. Kutscher.							
Surface material and yellow clay, water at 45 feet	60	60	Limestone	55	490		
Marl	172	232	Clay	40	530		
Chalk	173	405	Limestone	35	565		
Shale	30	435					

