TEXAS WATER DEVELOPMENT BOARD



Report 195

# GROUND WATER RESOURCES OF PART OF CENTRAL TEXAS WITH EMPHASIS ON THE ANTLERS AND TRAVIS PEAK FORMATIONS

VOLUME 2

RECORDS OF WELLS; DRILLERS' LOGS; WATER LEVELS IN WELLS; CHEMICAL ANALYSES OF GROUND WATER; CHEMICAL ANALYSES OF OIL-FIELD BRINES; AND WELL LOCATION MAPS

January 1976

### TEXAS WATER DEVELOPMENT BOARD

**REPORT 195** 

## GROUND WATER RESOURCES OF PART OF CENTRAL

#### TEXAS WITH EMPHASIS ON THE ANTLERS

### AND TRAVIS PEAK FORMATIONS

Volume 2

Records of Wells; Drillers' Logs; Water Levels in Wells; Chemical Analyses of Ground Water; Chemical Analyses of Oil-Field Brines; and Well Location Maps

By

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### TEXAS WATER DEVELOPMENT BOARD

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#### PREFACE

This report is prepared in two volumes. Volume 1 contains interpretive information presented as text and related figures and tables, Volume 2 contains basic data on the occurrence and availability of ground water including well location maps, records of wells, drillers' logs, water levels in wells, and chemical analyses of water. These data are supportive to the interpretive information contained in Volume 1. A full explanation of the well-numbering system used herein may be found in the first volume.

COUNTY	RECORDS OF WATER WELLS	RECORDS OF STRATI- GRAPHIC TESTS	DRILLERS' LOGS OF WELLS	WATER LEVELS IN WELLS	CHEMICAL ANALYSES OF WATER	ANALYSES OF OIL- FIELD BRINES	WELL LOCATION MAPS
	(TABLE 1)	(TABLE 2)	(TABLE 3)	(TABLE 4)	(TABLE 5)	(TABLE 6)	
Bell	1	7	8	39	43	_	49
Bosque	51	56	57	68	71	_	75
Brown	77	79	80	81	83	84	85
<b>urnet</b>	87	89	90	94	96	_	97
Callahan	99	101	102	103	104	105	107
Comanche	109	128	129	161	165	169	171
Coryell	173	178	179	194	196	-	199
Eastland	201	211	212	220	222	224	227
Ellis	229	230	231		232	-	233
Erath	235	244	245	260	263	267	269
Falls	271	273	274	278	279		281
Hamilton	283	288	289	298	300	_	303
Hill	305	312	313	332	336	-	339
Hood	341	342		343	344	_	345
Johnson	347	348	349	-	350	-	351
Lampasas	353	357	358	364	366	-	369
Limestone	371	372	_	-	373	_	375
McLennan	377	387	388	418	424	_	431
Milam	433	434	435	437	438	—	439
Mills	441	443	444	447	448	-	449
Navarro	451	452	_	_	453	-	455
Somervell	457	459	460	462	464	-	465
Travis	467	476	477	492	495	-	501
Williamson	503	508	509	521	525		529

#### PAGE NUMBERS

### **BELL COUNTY**

#### Table 2.-Selected Oil, Gas, and Stratigraphic Tests.

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
AX-40-45-903	A. B. Johnson	Howard No. 1	1951	2,262	740	E
51-801	-	Ed Huess No. 1	1943	910	980	D
59-801	Gilchist Drilling Co., et al.	Curb Fee No. 1	1949	2,022	825	E
901	Shell Oil Co.	Massie No. 1	1955	1,714	608	E
63-801	Pryor Dillard	Simek No. 1	1951	1,114	443	Е
58-02-102	F. A. Dunham	Hunt No. 1	1954	3,960	765	S
07-401	Hobsco, Inc.	N. P. Moeller No. 1	1941	2,004	485	E
14-401	M. A. Romero and T. M. Murchinson	Dallas Skinner No. 1	1958	1,210	535	E
802	do.	Robert Bunker No. 1	1958	1,225	520	E

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#### **BELL COUNTY**

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#### Table 3.-Drillers' Logs of Selected Wells

		ICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
	Well AX-40-51-801			Well AX-40-51-80	1–Continued	
	Owner: Ed Huess Driller: Ralph Roberts			Lime and sand	14	792
Yellow clay		18	18	Lime	18	810
Hard rock and yellow	clay	10	28	Blue shale	5	815
Hard white lime	Cita y	37	65	Red beds	6	821
Slate		65	130	Lime	10	831
Blue shale		45	175	Blue shate	11	842
Lime		6	181	Blue shale	28	870
Blue shale		29	210	Brown shale	10	880
Lime, shells and slate		40	250	Blue shale	10	890
Blue slate		40	290	Red beds	10	900
Gray slate		30	320	Sand and slate	10	910
Gray slate		30	350		0 50 400	
Shale		5	355	Well AX-4		
Water sand, little wate	r	5	360	Owner: U.S. Army ( Driller: Ward and )		
Shale	•	10	370	Surface	4	4
Lime		15	370	White lime	28	32
Shale		15		Blue lime	148	180
Lime, shale			400	Blue shale	60	240
		25	425	Blue lime	442	682
Sand, lime, shale		25	450	Soft lime	203	885
Sandy lime		50	500	Sand, Trinity	32	917
Lime, shale		20	520			
Sandy lime, shale		15	535	Well AX-4	0-53-201	
Shale		55	590	Owner: Temo Driller: R. A. A		
Sandy shale		55	645	Soil and chunk rock	4	4
Blue shale		15	660	Chalk	8	12
Sandy shale		25	685	Blue lime	39	51
Brown sand		20	705	Shale	4	55
Blue shale		25	730	White lime	35	90
Lime		38	768	Dark gray lime		
Blue shale		6	774	Shale	85	175
Sand, water		3	777		12	187
Gravel		1	778	Dark gray lime	14	201

ladie S.	Drillers Logs			THICKNESS	DEPTH
	THICKNESS (FEET)	DEPTH (FEET)		(FEET)	(FEET)
Well AX-40-53-201Co	ontinued		Well AX-40-53-201-	-Continued	
Shale	5	206	Blue sandy shale	22	1,047
Lime and shale	18	224	Red, green and blue shale	9	1,056
Shale	4	228	Red shale	2	1,058
Shale and lime	6	234	Red beds	22	1,080
Dark gray lime	16	250	Red and green shale	7	1,087
Shale	5	255	Sand and water	20	1,107
Dark gray lime	45	300	Well AX-40	53-504	
Lime and shale	19	319	Owner: U.S. Army C		
Shale	3	322	Driller: Ward and W	ard Drilling Co.	
Dark gray lime	38	360	White lime	5	5
White lime, little water - 1 gpm	42	402	Cave	1	6
Dark gray lime			White lime	21	27
(little water - good drilling)	20	422	Blue lime	101	128
White lime	13	435	Blue shale with lime	100	290
Dark gray lime	47	482	streaks	162	
Glen Rose lime	157	639	Soft lime	572	862
Shale	3	642	Sand, Trinity	17	879
Glen Rose lime	84	726	Well AX-4	0-53-703	
Dark gray lime	34	760	Owner: U.S. Army Corps of Engineers		
Glen Rose lime	12	772	Driller: J. L.	Myers Sons	
Shale	5	777	Surface	1	1
White lime	6	783	Lime	59	60
Dark gray sticky lime	34	817	Shale	67	127
Blue shale	11	828	Lime	64	191
Lime	57	885	Lime and shale	277	468
Sandy lime	12	897	Lime	139	607
Blue shale	7	904	Lime and shale	43	650
Sand and water	51	955	Sandy lime	22	672
Blue sandy shale	26	981	Lime	98	770
Green sandy shale	7	988	Shale	8	778
Lime	7	995	Sand	33	811
Green shale	9	1,004	Lime and shale	146	957
Blue shale	18	1,022	Sand	44	1,001
Red shale	3	1,025			

THICKNESS (FEET)			
(FEET)	(FEEI)	(FEET)	(FEET)

#### Well AX-40-53-704

	Owner: J. G. Nash Driller: J. L. Myers Sons	
No record	871	871
Lime and shale	147	1,018
Lime	3	1,021
Sand	37	1,058
Rock	4	1,062
Sand	10	1,072
Rock	9	1,081

#### Shale, breaks 60 630 White lime 75 705 Gray lime 80 785 Shaly lime 19 804 Sandy lime 11 815 Hard and soft sand 40 855

Well AX-40-53-706-Continued

#### Well AX-40-53-901

Owner: Temple Municipal Airport Driller: Wiegand Brothers Drilling Co.

Well AX-40-53-70	5	
Owner: U.S. Army Corps of Driller: J. L. Myers S		:
Lime	74	74
Lime and shale	394	468
Lime	228	696
Lime and shale	92	788
Sandy lime	35	823
Lime and shale	110	933
Sand and shale	24	957
Sand	38	995
Sandy shale	6	1,001

#### Well AX-40-53-706

#### Owner: U.S. Army Corps of Engineers Driller: James Mathew Adams

Soil	1	1
Lime	27	28
Lime, hard	22	50
Lime	51	101
Blue clay	12	113
Blue lime	23	136
Blue lime and clay	54	190
Gray-white lime	40	230
Blue gray lime	25	255
White lime	315	570

	Draining Co.	
Rotary space	2	2
Hard lime	8	10
Gray shale	40	50
White lime	12	62
Broken lime	33	95
Lime	110	205
Shale	7	212
Lime	8	220
White lime	30	250
Sticky shale	20	´ 270
Lime	10	280
Gray shale	15	295
Lime	35	330
Gray shale	15	345
Sandy lime	25	370
Sandy lime, shale	50	420
Hard white lime	25	445
White lime	41	486
Sandy lime	24	510
White lime	10	520
Gray shale	15	535
Broken lime	230	765
White lime	25	79 <b>0</b>
Broken lime	50	840
White lime	25	865

	THICKNESS	DEPTH		THICKNESS	DEPTH
	(FEET)	(FEET)		(FEET)	(FEET)
Well AX-40-53-901-Con	itinued		Well AX-40-54-502—Continued		
Broken lime	13	878	Lime broken with shale	323	340
Hard lime	77	955	Webite chalk	112	452
Lime	30	985	Black shale	118	570
Blue shale	10	995	White lime	110	680
Lime	4	999	Iron pyrite	30	710
White sand	5	1,004	Lime and blue shale	395	1,105
Hard gray lime	6	1,010	Broken lime	355	1,460
Lime	2	1,012	Lime and sand	340	1,800
Green shale	2	1,014	Sand and shale	70	1,870
White sand	18	1,032	Sand and gravel	175	2,045
Sticky shale	20	1,052		701	
Lime	8	1,060	Well AX-40-54-		
Well AX-40-53-9	<b>h</b> 7		Owner: Peppers Creek Wate Driller: C. M. Stoner D		
Owner: Temple Municip			Soil	6	6
Driller: J. L. Myers			Austin Chalk	64	70
Surface soil	3	3	Eagle Ford Shale	225	295
Lime	417	420	Lime	90	385
Broken lime	128	548	Lime and sand	95	480
Broken lime and shale	190	738	Lime	830	1,310
Broken lime	139	877	Sand	60	1,370
Lime	80	957	Sandy shale and lime	155	1,525
Broken lime	53	1,010	Sand	65	1,590
Sand	28	1,038	Shale	10	1,600
Sandy lime	15	1,053	Sand	50	1,650
Broken lime	66	1,119	Yellow shale	19	1,669
Travis Peak Sand	149	1,268			
Lime	8	1,276	Well AX-40-55-7		
Shale and lime	16	1,292	Owner: Oenaville and Belfalls W Driller: J. L. Myers		<b>D</b> .
Lime	63	1,355	Surface soil	4	4
	22		Clay	48	52
Well AX-40-54-502			Shale	278	330
Owner: Little Elm Water So Driller: Watts Drillin			Chalk rock	467	797
Topsoil	8	8	Shale	205	1,002
Caliche	9	17	Broken lime	58	1,060

THICKNESS (FEET)		THICKNESS (FEET)	
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Well AX-40-55-701-Continued					
Lime	578	1,638			
Shale and lime	145	1,783			
Broken lime	93	1,876			
Lime	87	1,963			
Broken lime	202	2,165			
Sand	55	2,220			
Broken lime	18	2,238			
Shale and lime	69	2,307			
Broken lime	120	2,427			
Sandy lime	26	2,453			
Broken sand	107	2,560			
Sand and gravel	53	2,613			
Sand and shale	39	2,652			

#### Well AX-40-59-102

Owner: City of Killeen Driller: A. N. Edwards

Clay and gravel	14	14
Shale and gumbo	14	28
Black rock and shale	14	42
Light gray lime	33	75
White lime	10	85
Light gray lime and some crystal	15	100
White lime	17	117
Light gray lime	128	245
Lime and some sand, first water, 1 bailer	11	256
Light gray lime	89	345
Lime and water sand, second water	7	352
Mixture lime and sand	8	360
Hard gray lime	67	427
Blue and gray lime mixture	20	447
Gray lime	83	530
Hard white lime	8	538

White gray lime	10	548
Water-bearing sand	20	568
Blue gumbo and some sand	76	644
Red bed	31	675
Lime and shale	13	688
Gray lime	10	698
Gray lime and mixture of red bed	10	708
Coarse gravel, some sand, all colors	7	715
Mixture chocolate and red shales	15	730
Chocolate and yellow shale	20	75 <b>0</b>
Hard blue lime with gray streaks	22	772

Well AX-40-59-102-Continued

#### Well AX-40-59-301

Owner: Harvey Bacon, Jr. Driller: Fowler Drilling Co.

	Driffer: Fowler Driffing Co.	
Gray limestone	676	676
Water sand	32	7 <b>0</b> 8
	Well AX-40-59-701	
	Owner: Wineford Cosper Driller: J. B. Farquharson	
Yellow clay	20	20
Sandy lime	12	32
Austin Chalk	38	70
Austin Chalk with bentonite streaks	310	380
Sand	7	387
Austin Chalk with bentonite streaks	193	580
Sand	21	601

THICKNESS (FEET)		THICKNESS (FEET)	
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#### Well AX-40-60-302

#### Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons

Open hole no record	433	433
Lime and shale	145	578
Lime	133	711
Sandy lime	9	720
Sand	18	738
Sandy lime	64	802
Lime	26	828
Lime and shale	38	866
Shale	23	889
Sand	12	901
Sandy shale	12	913
Sand	43	956

#### Well AX-40-60-501

#### Owner: Dog Ridge Water Supply Corp. Driller: J. L. Myers Sons

Lime	206	206
Lime with streaks of shale	664	870
Shale	10	880
Sand with streaks of shale	272	1,152

#### Well AX-40-60-601

#### Owner: U.S. Army Corps of Engineers Driller: Layne Texas Co.

Surface soil	19	19
Lime and shale with hard streaks	62	81
Shale with lime streaks	19	100
Shale with lime shells and streaks of gravel	30	130
Lime with shale streaks	37	167
Lime with shale streaks	36	203
Lime and shale	30	233
Lime with shale streaks	69	302

Hard lime	38	340
Lime with shale streaks	60	400
Lime with shale streaks	46	446
Lime with shale streaks	30	476
Lime with shale streaks	29	505
Sandy shale and lime shells	25	530
Lime with sticky shale	43	573
Sandy shale	76	649
Sandy shale	2	651
Lime	27	678
Sandy shale with sand streaks	10	688
Sand and shale	2	690
Sand and shale (core)	20	710
Lime	4	714
Sand (water)	33	747
Rock	3	750
Streaks of sand shale and lime	12	762
Shale with lime shells	34	796
Sandy shale with lime streaks	65	861
Lime and shale	33	894
Lime and shale	12	906
Sand	14	920
Sand and shale	10	930
Sand	7	937
Hard	1	938
No record	10	948
Core	17	965

Well AX-40-60-601-Continued

#### Well AX-40-60-701

Owner: T. E. Sanderford Driller: J. L. Myers Sons

Surface soil	3	3
Rock	90	93

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-701–Co	ontinued		Well AX-40-60-801-C	ontinued	
Lime	114	207	Sand and shale	21	932
Rock	312	5 <b>19</b>	Shale and lime	_	
Lime	29	548	(red clay)	8	940
Sandy lime	38	586	Red clay	8	948
Sand	37	623	Well AX-40-60	-901	
Sandy lime	8	631	Owner: U.S. Army Corp Driller: Wiegand Brothe		
Shale and lime	75	706	Rotary space	5	5
Sandy lime	29	735	Surface soil and clay		
White shale	35	770	Gravel	17	22
Red bed	17	787		3	25
Sand	38	825	Limestone	11	36
			Gravel	2	38
Well AX-40-60-	801		Sand	4	42
Owner: U.S. Army Corps Driller: Wiegand Brother			Hard limy shale and rock	48	90
Surface clay	22	22	Lime with shale streaks	25	115
Gravel	5	27	Sand and boulders	9	124
Lime rock and gravel	14	41	Gravel	3	127
Lime rock and clay	24	65	Lime, hard sand	89	216
Lime and blue shale	25	90	Lime, shale streaks	15	231
Lime rock and shale	135	225	Rock	3	234
Shaly lime			Lime, shale streaks	104	338
	94	319	Lime, shale streaks	138	476
Shaly lime	226	545	Lime and shale	27	503
Lime shale streaks	22	567	Lime, shale streaks	77	580
Lime, sandy shale	97	664	Lime, sand streaks	20	600
Sand and sandstone	30	694	Lime and shale	115	715
Limestone and shale	34	728	Shale with lignite	5	720
Hard lime and sandstone	27	755	Shale and sand (core)	4	724
Lime and streaks of shale	76	831	Soft sand		
Cored: shale sand and lime	19	850	Lime and shale	32	756
Hard lime	2	852		74	830
Lime, streaks of shale		0.7.4	Shale with lime shells	30	860
and sand	22	874	Soft shale	10	870
Lime streaks and shale	6	880	Shale and lime	19	889
Sand (cored)	31	911	Lime and shale	5	894

Table	3.—Drillers' Log	s of Selecte	d Wells in Bell CountyContinued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-901-0	Continued		Well AX-40-60	)-903	
Core: fully recovered	18	912	Owner: U.S. Army Co Driller: Wiegand Brot	rps of Engineers hers Drilling Co.	
Red bed	18	930	Soil	4	4
Sand	36	966	Clay and gravel	41	45
Sand (cored)	16	982	Sand and gravel	61	106
Red shale (cored)	17	999	Rock	3	109
Well AX-40-6	0-902		Limestone	5	114
Owner: U.S. Army Corps of Engineers			Sand gravel	40	154
Driller: Wiegand Broth			Limestone	33	187
(Complete drillers' lo			Lime, sand, gravel streaks	44	231
Topsoil	15	15	Lime	119	350
River red sand	21	36	Shaly lime	40	390
Lime and shale	13	49	Lime - broken gravel	61	451
Hard lime, shale and boulders	24	73	Lime, rock	32	483
Lime, rock and shale	59	132	Lime, shale streaks	122	605
	4	136	Limestone	15	620

Lime and shale	13	49	Lime - broken gravel	61	451
Hard lime, shale and boulders	24	73	Lime, rock	32	483
Lime, rock and shale	59	132	Lime, shale streaks	122	605
Hard shale, rock and lime	4	136	Limestone	15	620
Lime and shale	80	216	Lime and shale	63	683
Shale, lime, rock	80	296	Hard sand and shale	43	726
Lime and shale	280	576	Limestone	8	734
Shale - rock and streaks		604	Sticky shale and lime shells	17	751
of lime	28	604	Cored	10	761
Shale, rock and lime	72	676	Sticky shale	14	775
Shale, rock and lime, sandy shale	20	696	Lime, shale streaks	87	862
Cored: shale, sand rock,	8	704	Sand (cored)	25	887
sandy shale and lime			Soft gray sand, loose	6	893
Sand	5	709	Firm sand (red)	2	895
Sandy shale	6	715	Sandy red clay	9	904
Rock	3	718	Very course sand	8	912
Cored: sand, thin layers of shale and lignite	19	737	Red clay (drilled)	7	919
Sandy shale and sand	8	745	Red clay (core)	4	923
Hard lime and thin layers of sand	47	792	Cored	9	932

THICKNESS	DEPTH
(FEET)	(FEET)

#### Well AX-40-60-904

Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.

Rock and clay	28	28
Rocks and shale	12	40
Hard black shale rock	12	52
Hard black shale rock	133	185
Rock and shale breaks	20	205
Shale and rock breaks	20	225
Shale, rock, layers of lime	28	253
Shale and lime rock	40	293
Shale and lime	84	377
Blue shale, rock and lime	16	393
Shale and hard lime	20	413
Hard lime, blue shale	13	426
Hard shale and lime	7	433
Lime and shale	120	553
Lime, shale breaks and sand	22	575
Shale, lime rock	15	59 <b>0</b>
Sandy shale and lime	37	627
Blue shale	20	647
Rock and shale	35	682
Lime rock	6	688
Lime rock and shale	20	708
Sandy shale	12	720
Sandy rock, shale	13	733
Sand, cored 740 to 754	34	767
Shale	4	771
Cored 4 feet, sandy shale and sand	6	777
Hard shale	30	807
Sand, shale, lime	17	824
Shale, sand streaks	7	831
Sandy shale, fine sand	48	879
Cored, sand rock and shale,	20	899
sandy shale	3	902
Hard shale		

Red bed	4	906
Sand, shale breaks	38	944
Sand and shale	7	951
Sand (good)	12	963
Hard lime and shale	5	968

Well AX-40-60-904-Continued

THICKNESS DEPTH

(FEET)

(FEET)

#### Well AX-40-60-905

Owner: U.S. Army Corps of Engineers Driller: Wiegand Brothers Drilling Co.

Hard, limy shale	52	52
Limy shale with hard streaks	377	429
Shale and hard shells	55	484
Lime	41	525
Shale and shells	22	547
Shale and lime	143	690
Sand	23	713
Shale with streaks of	40	702
hard lime	10	723
Sandstone	3	726
Sandy shale	20	746
Sticky shale with		
hard streaks	24	770
Sandy shale	50	820
Sand and shale	21	841
Sand	8	849
Limy shale and sand	5	854
Red clay	5	859
Sandy shale	22	881
Sand (soft)	24	905
Sand (hard)	14	919
Sand (soft)	15	934
Sand (hard)	5	939
Red bed	16	955
Hard sandstone	1	956

Table	3Drillers' Log	s of Selected	d Wells in Bell County-Continued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-60-	907		Well AX-40-60-908-	Continued	
Owner: U.S. Army Corr			Lime	81	838
Driller: Ward and Ward			Lime	34	872
Surface soil	5	5	Lime	8	880
Porous rock	63	68	Sand	12	892
Rock	74	142	Rock	4	896
Shale	93	235	Sand	37	933
Rock	48	283	Shale with streaks of sand	6	939
Shale and lime rock	20	303		4	943
Rock	12	315	Sandy shale	- 11	954
Shale and lime rock	35	350	Sand		
Rock soft	120	470	Lime	16	97 <b>0</b>
Rock hard	270	740	Well AX-40-61-105		
Glen Rose sand	25	765	Owner: U.S. Army Co Driller: J. L. M		
Shale	30	795	Open hole no record	523	523
Rock	86	881		305	828
Trinity Sand	41	922	Lime	31	859
Shale	94	1,016	Lime and shale		866
Sand	9	1,025	Sand	7	
Shale	45	1,070	Sandy lime	7	873
Sand	30	1,100	Lime and shale	152	1,025
Shale	10	1,110	Sand	55	1,080
Shale		.,	Well AX-40	)-61-107	
Well AX-40-	60-908		Owner: Bob James	and Lee Curtis	
Owner: Boy Scout			Driller: J. L. I		
Driller: J. L. M		405	Surface soil	1	1
Rock	125	125	Rock	5	16

12	5 <sup>′</sup>	125	
			Rock
11	8 3	243	
			Lime
4	8 :	291	
			Lime - shale
10	1	392	
	-	514	Sand
12	2		Broken lime - caliche
	1	595	Broken time - canche
8			Lime
F	51	656	Line
	•		Lime - shale
e	6	722	
			Sand - shale
	8	730	
			Lime - shale
2	27	757	

Lime

Lime

Rock

Lime

Lime

Lime

Lime

Sand

Lime

100

66

13

498

139

12

46

126

116

182

195

693

832

844

890

1,016

	Inters Log				<b></b>
T	HICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-107-Contin	ued		Well AX-40-61-401-C	ontinued	
Shale	14	1,030	Broken shale and rock	50	391
Sand	59	1,089	Shale and lime	19	410
Lime	4	1,093	Hard lime	48	458
M-11 A X 40 61 201			Lime	36	494
Well AX-40-61-301	- I		Hard lime	33	527
Owner: Dr. P. M. Bass Driller: J. L. Myers So			Lime	18	545
Soil	5	5	Lime and shale	43	588
Broken limestone and shale	85	90	Broken lime and chalk rock	59	647
White rock	22	112	Lime and shale	54	701
Gerogetown Limestone	80	192	Broken lime and chalk	69	770
Goodwin Limestone	66	258	Lime	64	834
Hard limestone	94	352	Lime	22	866
Limestone	80	432	Sand	68	934
Broken limestone and shale	299	731	Broken shale and lime	11	945
Broken limestone and sand	161	892	Lime	19	964
Sandy limestone and limestone	418	1,310	Sandy lime	16	980
Sand	25	1,335	Shale	13	993
Sandy limestone	100	1,435	Lime and shale	22	1,015
Sand	25	1,460	Sand	150	1,165
Hard sandrock	24	1,484	Gravel and sand	4	1,169
Limestone	з	1,487	No record	8	1,177
			Sand	10	1,187
Well AX-40-61-401			Shale	3	1,190
Owner: City of Belto Driller: J. L. Myers So			Well AX-40-6	1-403	
Surface soil	3	3	Owner: City of		
Gravel	4	7	Driller: Unkr		
Sand	8	15	Soil	22	22
Rock	11	16	Sand and lime	26	48
Sand and grave	9	25	Lime chalk	44	92
Rock	45	70	Lime	23	115
Hard lime	74	144	Lime	20	135
Rock	156	300	Shale gray	45	180
Broken shale and lime	41	341	Shale dark	15	195

THICKNESS (FEET)		THICKNESS (FEET)	
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#### Well AX-40-61-403-Continued

•••••••••••••••••••••••••••••••••••••••		
Lime	5	200
Lime shale broken	60	260
Gray shale and lime shells	35	295
Lime	35	330
Gray shale and lime	85	415
Lime chalk	117	532
Lime chalk	66	598
Lime shale broken	64	662
Lime	48	710
Lime shale broken	55	765
Shale blue	13	778
Lime	69	847
Trinity Sand no. 1	23	870
Sandy shale	5	875
Trinity Sand	12	887
Sand water	33	920
Shale dark	28	948
Sandy lime	17	965
Shale blue	2	967
Sand lime	8	975
Blue shale	109	1,084
Red shale	2	1,086
Trinity Sand no. 2	44	1,130
Sand	36	1,166
Sand and gravel	4	1,170
Shale blue	2	1,172
Well AX-40-61-40	4	
Owner: City of Belt	on	
Driller: Unknown		

Sand rock with iron		
pyrites (hard)	10	450
Limestone (Glen Rose)	100	550
White mud (Glen Rose)	25	575
White limestone (Glen Rose)	250	825
White mud	25	850
Sandstone	40	890

Well AX-40-61-404-Continued

Well AX-40-61-501

Owner: City of Belton Driller: J. L. Myers Sons

Surface soil	32	32
Rock	265	297
Broken shale	346	643
Broken lime	146	789
Lime	141	930
Sandy shale	210	1,140
Sand	78	1,218
Lime and shale	44	1,262

#### Well AX-40-61-502

#### Owner: Taylor Bedding Manufacturing Co. Driller: Layne Texas Co.

Topsoil and clay	21	21
Rock	15	36
Rock and layers of shale	54	90
Hard shale and lime	137	358
Shale and lime	123	481
Hard shale and lime	58	539
Hard shale and lime	378	917
Top Trinity Sand	72	989
Hard sand and shale and lime	36	1,025
Sandy layers of shale and sandy lime	59	1,084
Shale and lime	20	1,104
Sandy shale and shell	23	1,127

Driller: Unknown

Soft limestone	25	25
Blue marl or slate	300	325
Blue limestone	50	375
White putty or mud	15	390
White limestone (soft)	50	440

THICKNESS			
(FEET)	(FEET)	(FEET)	(FEET)

Well AX-40-61-502-Continued			
Hard sand and shale breaks	19	1,146	
Blue and pink shale	10	1,156	
Coarse sand and fine gravel	56	1,212	
Hard shale and lime	9	1,221	
Sand	3	1,224	
Hard rock and lime	2	1,226	
No record	35	1,261	

#### Well AX-40-61-503

Owner: Brazos River Electric Co-op. Driller: J. L. Myers Sons

Surface soil	5	5
Clay	12	17
Sand and gravel	10	27
Rock	103	130
Rock and shale	290	420
Lime and shale	94	514
Broken shale	76	590
Rock	52	642
Lime rock	56	698
No record	20	718
Lime and shale	231	949
Sand	10	959
Sand and shale	96	1,055
Lime	91	1,146
Sandy lime and shale	42	1,188
Broken lime	10	1,198
Broken sand	145	1,343
Rock	12	1,355
No record	10	1,365
Well AX-40-61-50	4	

Owner: Brazos River Electric Co-op Driller: J. L. Myers Sons		
Surface soil	12	

Gravel

Rock	187	211
Rock and shale	148	359
Rock	25	384
Broken shale and rock	57	441
Broken shale and lime	58	499
Broken shale and rock	70	569
Broken shale and lime	72	641
Lime	65	706
Broken shale and lime	45	751
Lime with shale streaks	83	834
Broken	67	901
Lime	32	933
Sandy lime	15	948
Sand	34	982
Broken sand and lime	32	1,014
Sandy lime and shale	77	1,091
Lime	47	1,138
Sandy	18	1,156
Sand	92	1,248
Rock	8	1,256

Well AX-40-61-504-Continued

#### Well AX-40-61-507

Owner: City of Temple Driller: Layne Texas Co.

Soil, clay and lignite layers	31	31
Brown lime	70	101
Hard, gray lime	51	152
Gray lime and shale	33	185
Gray shale and lime	12	197
Blue shale	18	215
Blue shale and lime	12	227
Blue shale	21	248
Gray lime and blue shale layers	76	324

12

24

12

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued					
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-61-50	)7Continued		Well AX-40-61-509-	-Continued	
Gray lime and shale	94	418	Hard, brown lime	105	152
Gray shale and lime	505	923	Hard, gray lime and rock	16	168
	60	983	Blue shale and lime	50	218
Brown and blue candy shale				30	248
Gray lime and blue shale	52	1,035	Blue shale		-
Gray shale and lime	63	1,098	Gray lime and blue shale	71	319
Gray and blue shale			Gray lime and shale	50	369
and lime	22	1,120	Blue shale	20	389
Gray and blue sandy shale	27	1,147	Hard, gray lime	44	433
Sand with shale				135	568
layers (good)	16	1,163	Gray lime and blue shale		
Hard shale - lime and	10	1 1 7 2	Hard, gray lime and shale	54	622
candy shale	10	1,173	Gray lime	43	655
Hard, candy shale	16	1,189	Gray lime and shale	47	712
Hard, coarse sand	27	1,216		39	751
Hard, coarse candy shale			Hard, gray lime and shale		
and gravel	13	1,229	Gray lime	22	773
Red, blue and yellow shale	6	1,235	Gray lime and shale	132	905
Shale (hard)	З	1,238	Gray lime	46	951
			Sandy brown shale	47	998
Well AX	-40-61-508			80	1,078
Owner: Ci	ty of Temple		Gray lime and blue shale	50	1,070
	L. Myers Sons		Hard, gray and blue shale	23	1,101
Clay	6	6	and sandy shale layers		.,
	16	22	Hard, sandy shale and shale and lime	35	1,136
Clay and gravel				24	1,160
Lime	29	51	Hard shale and sandy shale	24	1,100
Lime and shale	69	120	Coarse sand and shale	31	1,191
Lime	511	631	Coarse sand	21	1,212

Clay	6	6
Clay and gravel	16	22
Lime	29	51
Lime and shale	69	120
Lime	511	631
Shale	341	972
Sand and shale	45	1,017
Lime	147	1,164
Sand	81	1,245
Hard, sandy lime	36	1,281

#### Well AX-40-61-509

Owner: City of Temple Driller: Layne Texas Co.		
Rock and gravel	16	16
Hard, blue shale and rock	31	47

### Owner: Belton Sand and Gravel Co. Driller: J. L. Myers Sons

Well AX-40-61-510

17

22

10

1,229

1,251

1,261

Surface soil	4	4
Sand and gravel	12	16
Shale	59	75

and gravel

Coarse sand and blue shale

Sand, shale, gravel, and lime

Hard lime and shale

	THICKNESS (FEET)	DEPTH (FEET)	
Well AX-40-61-510-0	Continued		
Broken lime	91	166	
Lime and shale	79	245	
Lime	266	511	
Broken lime	133	644	
Lime	208	852	
Broken lime and shale	125	977	
Broken lime	74	1,051	
Sandy shale	51	1,102	
Lime	150	1,252	
Broken lime	30	1,282	
Sand	55	1,337	
Sand rock	11	1,348	
Sand	23	1,371	
Shale	6	1,377	
Sandy lime	11	1,388	
Well AX-40-61-	601		:
Owner: Dan Stea Driller: J. L. Myer	ikley s Sons		5
No record	4	4	
Lime	21	25	
Rock	20	45	s
Shell rock	90	135	c
Shale	216	351	F
Rock	99	450	F
Sand and shale	80	530	R
Rock	22	552	Ľ
Hard lime	23	575	8
Lime and shale	175	750	Sa
Lime	460	1,210	Sa
Shale	28	1,238	Li
		.,200	

	(FEET)	(FEET)
Well AX-40-61-601-Co	ontinued	
Broken lime	142	1,380
Sandy lime	55	1,435
Sandy shale and lime	115	1,550
Broken lime	15	1,565
Sand	110	1,675
Rock	10	1,685

THICKNESS

DEPTH

#### Well AX-40-61-901

Owner: Taylors Valley Water Supply Corp. Driller: West-Tex Tool Service

Shale	310	310
Shaly lime	210	520
Lime and shale	115	635
Shale and sand	145	780
Lime and shale	330	1,110
Limy shale	375	1,485
Sandy shale	115	1,600
Sand	250	1,850

#### Well AX-40-62-101

Owner: City of Temple Driller: J. L. Myers Sons Surface soil 5 5 Clay and gravel 5 10 Rock 345 355 Rock and shale 197 552 Rock 1,000 1,552 Lime 343 1,895 Broken sandy lime 71 1,966 Sand 31 1,997 Sandy lime 44 2,041 ime 95 2,136

	Simere Loge	••••••			
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-40	1		Well AX-40-62-401-C	continued	
Owner: Veterans Administrat Driller: J. L. Myers S (Complete log not shu all descriptions are from unless indicated other Description of sam;	Sons own; cuttings wise.		Pale bluish-gray chalk in small medium fragments. Strata becoming somewhat harder and more massive. Very pale bluish-gray chalk	10	100
by Helen Jeanne Plum			in very fine fragments.		
- •			Strata probably rather soft		
Austin Formatio	n		and thinly laminated. Microfossils frequent.	10	110
Soft, white, weathered chalk			Pale bluish-gray finely broken		
in small particles; Inoceramus			chalk. Few microfossils.	10	120
prisms, few ostracode,	10	10	chaik. I bu million of our		
rare forams.	10	10	Pale bluish-gray chalk in		
			uniformly small fragments.	10	130
Soft, white, and yellowish					
chalk in small fragments;			Pale bluish-gray chalk in		
Inoceramus prisms, few			uniformly very small		
microfossils. Subsurface			fragments.	10	140
layers probably thinly stratified or laminated,					
since material broke up into			Pale bluish-gray chalk in very		150
thin small fragments.	10	20	small to fine fragments.	10	150
thin small regilients.					
Unweathered, pale bluish-gray			Very pale bluish-gray chalk in	10	160
chalk in fine fragments.			uniformly small fragments.	10	100
Subsurface layers probably					
thinly laminated. Few			Pale bluish-gray chalk in		
ostracodes and forams.	10	30	uniformly small fragments,		
			some of which carry many minute grains of green		
Pale bluish-gray, finely			glauconite and some mica.	10	170
laminated chalk in small			gradeonite and some mout		
uniform fragments. Inoceramus			Bluish-gray chalk in uniformly		
prisms, few ostracodes,	10	40	small fragments, of which		
few forams.	10		more than half are fairly		
= t t t the man finally			rich in grains of green		
Pale bluish-gray, finely laminated chalk that broke up			glauconite and a trace		100
into uniformly fine fragments			of mica.	10	180
in drilling. Forams numerous;					
few ostracodes, echinoid			Pale gray and white chalk in		
spines.	10	50	small fragments, few		
			scattered fragments of		
Pale bluish-gray and little			yellow quartz. More than		
yellowish chalk in uniformly			half the fragments of chalk		
fine fragments indicating			carry numerous grains of green glauconite.	10	190
probable thinly laminated			green gladconne.		
layers of chalk in subsurface.			Bluish-gray and white chalk		
Numerous forams and few	10	60	in uniformly small fragments,		
ostracodes.	10	00	of which some are rich in		
Carly			glauconite. Scattered grains		
Pale bluish-gray, finely			of yellow quartz.	10	200
broken chalk that points to thinly laminated strata in					
subsurface. Few microfossils.	10	70	Pale bluish-gray chalk, much		
Subsulface. 1 ett interererer			of it carrying considerable		
Very pale bluish-gray, thinly			glauconite. Scattered grains	10	210
laminated chalk, which broke			of yellow chert or quartz.	10	2.0
up into small uniform			Bala bluich grou chalk in yory		
fragments in drilling with			Pale bluish-gray chalk in very		
few larger angular			fine fragments carrying sparsely scattered grains of		
fragments.	10	80	green glauconite.	10	220
Laminated, pale bluish-gray					
chalk in small fragments, not					
so uniform in size as in much					
of above section. Subsurface		90			
layers slightly more massive.	10	90			

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401	-Continued		Well AX-40-62-401-0	Continued	
Bluish-gray and white chalk in uniformly small fragments somewhat larger than those of many of the samples above.			Pale gray to white chalk in uniformly small fragments, some of which carry considerable glauconite.		
Glauconite frequent in many fragments. Microfossils abundant in chalk but not			Scattering of yellow chert and quartz.	10	320
many loose specimens of forams or other microfossils.	10	230	Gray to white chalk up to fragment size of nearly belf on inch. Some fragments		
Pale bluish-gray to almost white chalk in moderately			half an inch. Some fragments are slightly argillaceous.	10	330
small fragments. Glauconite grains frequent to common in many fragments. Microfossils			White chalk in fragments of various sizes up to half an inch.	10	340
abundant.	10	240			
Pale bluish-gray chalk in			White chalk in large fragments.	10	350
uniformly small fragments of size somewhat larger than			White chalk in large fragments.	10	360
those found in many of above samples.	10	250	White and light-gray chalk in large fragments.	10	370
Pale bluish-gray cnalk in uniformly rather small fragments. Some of which			White chalk in fragments of diverse sizes.	10	380
carry scattered grains of glauconite and abundance of			White and light-gray chalk in diverse sizes of fragments.	10	390
microfossils. Scattering of yellow chert or quartz.	10	260	Light-gray and white chalk in diverse sizes of fragments up to more than half an inch.		
Pale bluish-gray chalk in fragments of rather uniform size but considerably larger			Few shell fragments.	10	400
than those in most preceeding samples. Considerable yellow chert. One specimen of			in all sizes of fragments up to half an inch. Scattering of pyrites.		
Hamulus.	10	270	Trace of shells.	10	410
Pale gray to white chalk in rather large fragments of uniform size. Scattering of			Light-gray and white fragments of chalk up to more than half an inch.	10	420
yellow chert and quartz.	10	280		10	420
Pale bluish-gray to white chalk in small to moderately			Light-gray and white chalk in diverse sizes of fragments.	10	430
large fragments.	10	290	White and light-gray chalk in diverse sizes of fragments.	10	440
Pale gray to white chalk in fragments from very small to moderately large. Some			Light-gray and white chalk in diverse sizes of fragments,		
fragments carry scattered grains of glauconite; few are rich in finely divided			up to nearly an inch. White and considerable gray	10	450
pyrite.	10	300	chalk in diverse sizes of fragments. The gray tone		
Pale gray to very white chalk in fragments up to nearly half an inch. Very little			of many of these fragments is obviously due to a trace of argillaceous		
glauconite in some fragments; finely divided pyrite frequent.	10	310	matter, whereas the paler gray of much of the chalk in the overlying section was due to disseminated glauconite or to an abundance of calcitized fossils that		
			shasehad the links	10	460

absorbed the light.

10

460

	THICKNESS	DEPTH		THICKNESS	DEPTH
	(FEET)	(FEET)		(FEET)	(FEET)
			Well AX-40-62-401-0	Continued	
Well AX-40-62-4010	Continued				
White chalk with considerable			Small fragments of dark-gray,		
distinctly gray chalk, which			very finely laminated,		
under magnification shows			carbonaceous shale,		
argillaceous matter in			considerable calcitic matter,		
minute streaks along the			numerous bundles of short		
planes of lamination, or it			Inoceramus prisms, trace	10	560
may be diffused through the		,	of fish remains.	10	500
material.	10	470	- · · · · · · · · · · · · · · · · · · ·		
			Gray, very minutely laminated,		
White and gray chalk in			microscopically mottled		
fragments of all sizes up			(salt-and-pepper) shale with abundance of disseminated		
to nearly an inch. The gray			carbonaceous matter. Few		
fragments are distinctly				10	570
slightly argillaceous, and			chips of greenish shale.	10	
a few black carbonaceous			Typical Eagle Ford gray shale		
particles can be observed.			with carboneous matter.	10	580
Pyrite is frequent.	10	480	with carboneous matter.		
			Typical dark, finely laminated,		
			salt-and-pepper shale with		
Eagle Ford For			considerable carbonaceous		
top at about	485'		matter. Abundance of		
			amber-colored, short		
Mixture of white chalk, gray			Inoceramus prisms in stout		
argillaceous chalk, some			bundles; considerable		
light greenish-gray			calcitic matter in		
calcareous hard shale.			irregular fragments.	10	59 <b>0</b>
Scattering of pyrite.	10	490	megular magmenta.		
o bis shalls considerable					
Some white chalk, considerable			Buda Form	ation	
greenish-gray, hard, dense			absent		
shale; all fragments small.					
Few fragments are typical of the Eagle Ford Formation					
in texture and color.	10	500	Del Rio Forr	nation,	
In texture and color:			top at abou	t 600'	
Finely broken bluish-green,					
dense shale and considerable			Wet sample carried much finely		
chalk, which has probably			divided argillaceous matter		
fallen from above.			that was almost a slime, a		
Considerable pyrite. Some of			characteristic of Del Rio		
shale very finely laminated			shales. Washed sample looks		
and carries a trace of			much like above Eagle Ford		
carbonaceous matter.	10	510	but carries a trace of		
			dull-gray thinly laminated		
Finely broken gray shale,			splintery shale with a		
considerable chalk,			greasy sheen. In fine		
scattering of pyrite.			material no Del Rio	10	600
Texture of shale fragments			forams found.	10	000
is characteristic of Eagle			the task of the second second		
Ford but carbonaceous matter			Wet sample rich in fine slimy		
is very subordinate.	10	520	matter. Washed sample carries		
			numerous fragments of a		
Finely broken, greenish-gray			dull lead-gray, splintery		
and gray shale, some			shale of very smooth texture.		
particles rich in			In fine material are thin		
carbonaceous matter.	10	530	lenticular pellets of shale		
			with a greasy sheen. No	10	610
Finely broken, gray shale			Del Rio forams.	10	0.0
fragments with considerable			Dull many fine toutured		
carbonaceous matter. Some			Dull-gray, fine-textured,		
pyrite.	10	540	splintery shale abundant.		
			In fine material the thin		
Gray shale in very small			lenticular pellets common.		
fragments; scattering of			One characteristic Del Rio foram; <i>Gyroidina nitida.</i>	10	620
chalk probably from above.	10	55 <b>0</b>	toram; Gyrolaina nillaa.		

Table 3	-Drillers' Logs	or Selected	wens in Den County-Continued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401-Co	ntinued		Well AX-40-62-401-0	Continued	
Some lead-gray, smooth			Sample composed very largely		
splintery shale. Minute thin lenticular pellets common in fine material. <i>Gyroidina</i>			of angular fragments of white spherulitic limestone.	10	730
nitida.	10	630	Abundance of angular fragments of white spherulitic limestone.	10	740
Much lead-gray to almost black splintery shale. Numerous minute lenticular shale			Abundance of white spherulitic limestone.	10	75 <b>0</b>
pellets in fine material. Three species of Del Rio			Great abundance of angular fragments of white		
forams: Gyroidina nitida, Valvulineria asterigerinoides,			spherulitic limestone.	10	760
Textularia rioensis.	10	640	spilor antio millotte ini		
			Sample almost wholly angular fragments of white spherulitic		
Considerable bluish-gray to lead-gray splintery smooth			limestone.	10	770
shale; numerous minute thin					
lenticular pellets in fine material. Gaudryinella			White spherulitic limestone.	10	780
delrioensis, Valvulineria			White spherulitic limestone.	10	790
asterigerinoides, Textularia rioensis, Gyroidina nitida.	10	650	Edwards Form top at about		
Considerable lead-gray					
splintery shale. Numerous			Bare trace of pale-buff,		
minute, thin pellets in fine			dense, crystalline limestone	10	800
material. Globigerina			bearing few miliolids.	10	000
washitensis, Textularia			Sample composed largely of		
rioensis, Valvulineria asterigerinoides, Gyroidina			buff limestone. Some		
nitida, Textularia rioensis.	10	660	fragments are dense and crystalline and carry		
Considerable lead-gray			miliolids; others are sugary and somewhat porous.	10	810
splintery shale; numerous minute lenticular pellets					
in fine material. <i>Textularia</i>			Buff limestone, some fragments		
rioensis, Globigerina			dense, but most are sugary in texture and commonly		
washitensis, Gyroidina			porous.	10	820
nitida, Valvulineria asterigerinoides.	10	670	porous.		
usterigerinoiaes.		••••	Buff limestone from dense to	10	
Great abundance of dull			porous and sugary.	10	830
lead-gray, splintery shale and in fine material many minute			Comanche Peak	Formation	
thin lenticular pellets of					
greasy-looking shale.			Amongst the many fragments		
Gyroidina nitida,			of typical Edwards limestone are numerous fragments		
Valvulineria asterigerinoides, Textularia rioersis.	10	680	composed of what appear to		
Textuaria ricersis.			be oolites separated by a		
Georgetown For	nation,		translucent matrix. The		
top at about 6	685′		oolites for the most part are loose and chalky and fall		
Frequent fragments of white,			out of place leaving a		
spherulitic limestone.	10	690	pitted fragment. Close examination shows that many		
Abundance of white, spherulitic			of the oolites are really		
limestone.	10	700	miliolids, so disintegrated that their structure is		
Sample largely typical			difficult to detect. Perhaps		
spherulitic white limestone.	10	710	all the oolites are really miliolids.	10	840
Sample composed almost wholly					
of typical white spherulitic		700			
limestone.	10	720			

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401Co	ontinued		Well AX-40-62-401-Co	ontinued	
Much "oolitic" yellow limestone as above described.			Sample largely splintery gray shale of very smooth texture;		
One small test of a <i>Dictyoconus</i> . Several small			little dense white limestone.	10	1,000
rotund sponges.	10	850	No description.	10	1,010
Richly "oolitic" yellow limestone.	10	860	Sample almost wholly thinly laminated, dull-gray shale		
Buff "oolitic" yellow			of fine smooth texture.	10	1,020
limestone.	10	870	Sample largely splintery dull-gray, fine-grained shale		
Highly "oolitic" yellow			and an appreciable amount of		
limestone.	10	880	light-gray to buff and white limestone fragments many of		
"Oolitic" buff limestone. Sponges, miliolids,			which appear to have fallen		
Globotruncana, Globigerina			from above.	10	1,030
washitaensis.	10	890	Splintery dull-gray shale with		
"Oolitic" buff limestone.	10	900	numerous small fragments of limestone, some of which		
Granular, sugary, gray-buff to			may represent breaks in the shale section. Numerous		
white limestone with			very small heavy shell		
deteriorated fossil fragments as white splotches on rock			fragments indicate a shell		
surfaces.	10	910	bed has been penetrated.	10	1,040
			Great abundance of dull-		
Grayish-buff, sugary, crystalline limestone. One			brownish and translucent		
fine test of Dictyoconus walnutensis	. 10	920	angular fragments of shells, probably <i>Gryphaea</i> , mixed		
Walnut Format	ion		with some shale and small amount of limestone.	10	1,050
Mixed with the buff to white			Great abundance of finely		
sugary limestone is a small			broken shells ( <i>Gryphaea</i> )		
amount of splintery, slightly greenish-gray shale.	10	930	some shale, very little		
	10	500	limestone.	10	1,060
Considerable splintery shale, slightly greenish-gray, very			Glen Rose Form	ation	
smooth texture, some dense			Some broken shells; large		
white limestone different			amount of dense, white		
from any above and probably constituting a limestone			limestone carrying fragments		
break in the shale section			of heavy shells.	10	1,070
at this point.	10	940	Much dense, hard, white limestone in small fragments,		
Considerable greenish,			the surfaces of which are		
splintery shale mixed with dense, white limestone.	10	950	well marked by limestone and		
			splotches representing imbedded fossils. Few loose		
Splintery shale and white limestone.	10	060	shells; very little		
innestone.	10	960	splintery shale.	10	1,080
Dense white limestone and			Great abundance of dense white		
splintery greenish-gray shale.	10	970	limestone mostly finely		
		570	broken; few larger fragments. Limestone marked by numerous		
Dense white limestone and some			fossil inclusions and some		
splintery greenish-gray to dark-gray shale.	10	980	mineral matter. Some		
		500	dull-gray splintery shale.	10	1,090
Mostly dense white limestone with appreciable amount of greenish-gray shale.	10	000			
איפטוואו־אומא אומופ,	10	990			

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Weil AX-40-62-401Cc	ontinued		Well AX-40-62-401Co	ontinued	
Sample about 2/3 dense, white limestone and 1/3 gray, splintery shale, much of which seems to have washed			Much dense, hard, white, mottled limestone and considerable bluish-gray shale.	10	1,190
down from above, since the fine portion carries frequent Del Rio forams, and some of the sha e surfaces reveal imbedded tests of <i>Gumbelina</i> , which do not belong so low in the section			Much dense, white, hard, crystalline, mottled limestone, some fragments being a microscopic coquina in which miliolids are frequent. Some gray shale; some		
as Glen Rose, so far as present records indicate.	10	1,100	bluish-green shale.	10	1,200
Much dense, white limestone in finely ground condition. Considerable gray splintery			Much hard, dense, white, crystalline, mottled limestone; some fragments a microscopic coquina. Some		
shale, much of it from above.	10	1,110	bluish-green shale.	10	1,210
Much finely broken, dense, hard, white limestone rich in fossil fragments. Considerable shale that looks suspiciously as if			Dense, hard, crystalline, mottled, white limestone carrying numerous miliolids. A few fragments are slightly sugary. Blue-green shale		
much had fallen from above.	10	1,120	common.	10	1,220
Much finely broken, hard, white limestone rich in imbedded fossil matter.			Dense, hard, crystalline, mottled white limestone and considerable blue-green		4
Considerable gray splintery shale much of which looks			shale.	10	1,230
like contamination. Much dense, white limestone	10	1,130	Dense, hard, crystalline, mottled limestone, some fragments rich in miliolids		
and considerable dull gray splintery shale. Many limestone fragments comprise			and other fossil fragments. Bluish-green shale common. Mostly dense, hard, crystalline,	10	1,240
a fine coquina. Some of the shale present probably belongs to this section, as	10	1,140	woatty dense, halo, or y stamme, mottled and coquina-like white limestone with miliolids and other fossil material.		
the greenish color-is now. Dense white limestone and	10	1,140	Little splintery gray and blue-green shale.	10	1,250
considerable splintery shale. Very finely broken, dense,	10	1,150	Dense, hard, crystalline, mottled limestone and		
white, crystalline limestone with abundance of dark inclusions giving the			abundance of splintery gray and greenish shale.	10	1,260
surfaces a mottled appearance. Many finely broken shell fragments are imbedded in the limestone. Dull-gray			Dense, hard, crystalline, mottled, white limestone; some rich in miliolids. Few fragments of white sugary		
splintery shale abundant.	10	1,160	limestone. Considerable gray and greenish shale.	10	1,270
Much dense, white, hard limestone rich in dark inclusions giving a mottled appearance to the fragments.			Dense, hard, crystalline, mottled, white limestone, many fragments with miliolids.		
Considerable splintery shale.	10	1,170	Considerable gray and greenish splintery shale.	10	1,280
Much dense, crystalline, mottled, white limestone and shell fragments. Much dull-gray, splintery shale and buish greeps splintery					
and bluish-green splintery shale.	10	1,180			

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)	
Well AX-40-62-401-Co	ntinued		Well AX-40-62-401—Continued			
Dense, hard, mottled			About equal proportions of			
crystalline, white limestone			white crystalline mottled			
with many rotund miliolids.			limestone and splintery	10	1,410	
Considerable gray and greenish,			greenish-gray shale.	10	1,410	
splintery shale.	10	1,290	About equal proportions of			
			hard, mottled, crystalline or			
Hard, white, mottled			coguina-like white limestone			
limestone that is largely a			and greenish-gray and			
microscopic coquina.			gray shale.	10	1,420	
Considerable gray and	10	1,300	<b>0</b> . <b>-</b> , <b>- -</b>			
greenish shale.		.,	White limestone broken down in			
Hard, crystalline, white			drilling almost to a sand grade			
limestone and much highly			in the sample, which comprises			
mottled white and dark-gray			largely the component			
limestone, as the dark			microfossils of the original			
inclusions increase in			probably lightly cemented			
proportion. Many dark stains			mass of material in the			
and irregularly distributed			coquina-like limestone.			
streaks and patches carry a			"Sand" comprises to a large			
resinous sheen. Greenish			extent separate miliolid tests.	10	1,430	
shale abundant.	10	1,310	Very little shale.	10	1,430	
			Sample is a limestone "sand"			
Hard, crystalline limestone,			as the result of drilling the			
some fragments a white coquina,			coquina-like limestone composed			
others rich in dark-gray			of microfossils and small			
mottled areas and inclusions in a dense matrix. Greenish			fragments as well as small			
shale common.	10	1,320	granules of calcareous matter.			
sitale common.			Many of the grains are			
Mostly white limestone, much of			miliolids.	10	1,440	
it mottled by imbedded fossils						
and gray inclusions. Streaks			"Lime sand" composed of			
of pyrite and some loose			minute fossils and fossil			
crystals of pyrite.			fragments as well as granules			
Bluish-green shale.	10	1,330	of white limestone. Many of	10	1 450	
			the grains are miliolids.	10	1,450	
Mottled, crystalline, hard,			Sample is almost a perfectly			
white limestone. Much	10	1,340	uniform "lime sand" in grade,			
bluish-green shale.	10	1,540	composed of small granules of			
			limestone, miliolids, and			
Hard, mottled, crystalline, dense, white limestone rich			other fossil fragments. In			
in miliolids. Much gray and			acid the material dissolves			
slightly greenish shale.	10	1,350	almost entirely leaving a faint			
signery greener energy			trace of dark argillaceous			
White limestone and much			matter, probably the dark			
greenish-gray splintery shale.			inclusions of the mottled			
Miliolids abundańt.	10	1,360	limestone, so common		4 460	
			throughout this limestone formation.	. 10	1,460	
White, hard, mottled limestone		4 070	The shy bushes approved			
and greenish splintery shale.	10	1,370	Finely broken, angular limestone fragments and very			
			little shale. Limestone is			
Great abundance of white			hard, crystalline, mottled,			
coquina-like mottled limestone			and some fragments are sugary			
and dense crystalline mottled			and somewhat porous.	10	1,470	
limestone with milolids. Some splintery greenish shale.	10	1,380	·····			
abitilitat à Argernan angles			Finely broken, hard,			
Hard, crystalline, dense and			crystalline, mottled, white			
coquina-like mottled limestone			limestone and some sugary			
and much greenish shale.	10	1,390	white limestone; very little			
-			shale. Miliolids abundant;			
About equal proportions of			also other forams (as yet			
white hard limestone and			unnamed) are frequent.	10	1,480	
greenish-gray splintery						
shale.	10	1,400		,		

	THICKNESS	DEPTH		THICKNESS	DEPTH
	(FEET)	(FEET)		(FEET)	(FEET)
Well AX-40-62-401-0	ontinued		Well AX-40-62-401-C	ontinued	
Sample composed largely of fine "lime sand" with few angular chips of hard, white			Hard, dense, mottled, white limestone; large proportion of blue to greenish		
limestone. "Sand" consists of grains of broken limestone			splintery shale. Hard, dense, crystalline,	10	1,600
or components of the granular limestone as well as miliolids and other forams.	10	1,490	mottled, white limestone and much bluish-green to		
Finely broken limestone in		.,	gray shale.	10	1,610
angular chips and much of the "sand" encountered			Hard, dense, crystalline, mottled, white limestone and		
above. Very little shale.	10	1,500	some sugary white limestone; considerable splintery		
Hard, dense, crystalline, mottled, white limestone			greenish-gray shale.	10	1,620
and considerable bluish-green shale.	10	1,510	Hard, dense, crystalline, white limestone full of fossil remains; some sugary		
Hard, dense, crystalline, mottled, white limestone and little sugary limestone.			porous white limestone. Some splintery bluish to greenish shale.	10	1,630
Considerable blue-green shale.	10	1,520	Hard, dense, crystalline,		1,000
Dense, hard, crystalline, mottled, white limestone and coquina-like limestone.			mottled, white limestone; some sugary porous limestone. Some greenish shale.	10	1,640
Much blue-green shale. Few scattered fragments of sugary limestone.	10	1,530	Hard, dense, crystalline, mottled, white limestone;		
Finely broken, hard, white,	10	1,000	some sugary white limestone likely to be porous in		
crystalline, mottled limestone and coquina-like limestone. Considerable			places. Some bluish and greenish shale. Miliolids.	10	1,650
blue-green shale.	10	1,540	Dense, hard, crystalline, mottled, white limestone and		
Hard, crystalline, dense, white limestone and coquina-like limestone with many			some sugary white porous limestone. Considerable splintery gray shale.	10	1,660
miliolids. Considerable blue-green shale.	10	1,550	Hard, dense, crystalline, mottled limestone and		
Hard, white, mottled, crystalline limestone and			some sugary limestone. Considerable dark-gray		
coquina-like white limestone. Considerable blue-green splintery shale. Few			shale and little bluish-greenish shale.	10	1,670
shell fragments.	10	1,560	Sample is white and mottled limestone ground to sand		
Hard, white, mottled, coquina-like limestone with			grade with few scattered angular chips. Much of limestone is sugary but most		
miliolids; much blue and greenish shale.	10	1,570	is dense and granular. Miliolids common. Some		
Hard, crystalline, mottled, dense, white limestone with milolide: considerable			splintery shale. Finely broken white and	10	1,680
milolids; considerable bluish-green shale.	10	1,580	mottled limestone with some fair-sized chips. Both hard,		
Hard, crystalline, mottled, white limestone;			dense, white limestone and sugary limestone. Some bluish-green		
much blue-green shale. Miliolids common.	10	1,590	bluish-green, splintery shale.	10	1,690

Table	3.—Drillers' Log	s of Selecte	d Wells in Bell CountyContinued		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401-0	Continued		Well AX-40-62-401-(	Continued	
Dense, hard, mottled,			Porous, sugary, light-brown		
white limestone; few			limestone; some dense,		
sugary fragments.	10	1,700	mottled, white limestone,		
			which may have washed down		
Hard, dense, mottled,			from above, thick section.		
white limestone; some sugary,			Few loose quartz grains.		
porous limestone.			Very little shale.	10	1,830
Very little shale.	10	1,710	•	10	1,830
			Abundance of light-brown,		
Hard, dense, crystalline,			porous, sugary limestone,		
mottled, white limestone;			considerable dense, mottled,		
some sugary porous limestone.			white limestone in the finer		
Very little shale.	10	1,720	grade of sample. Little		
			bluish shale. Very few		
Finely ground, white limestone			quartz grains.	10	1,840
with some small chips of large					•
size. Almost no shale.	10	1,730	Finely ground, dense, mottled,		
Vory finally ground white			white limestone and		
Very finely ground, white limestone, or ''lime sand.''			light-brown sugary limestone.		
Almost no shale.	10	4 - 40	Almost no shale.	10	1,850
Amost no anale.	10	1,740	<b>a</b>		
Hard, dense, mottled, white			Great abundance of		
limestone and some sugary			light-brown, porous, sugary		
limestone. Very little shale.	10	1,750	limestone; little dense,		
	10	1,750	white, mottled limestone.		
Hard, dense, crystalline,			Very small amount of shale.	10	1,860
mottled, white limestone;			Much light harves		
considerable porous sugary			Much light-brown, porous,		
limestone. Little			sugary limestone and some		
splintery shale.	10	1,760	dense, mottled, white limestone. Very little shale.		
		.,	innestone. Very little shale.	10	1,870
Both dense and porous,			Considerable dense, white,		
white limestone. Some			mottled limestone and		
splintery shale.	10	1,770	almost an equal amount of		
		•	light-brown sugary, porous		
Porous, sugary limestone			limestone. Considerable		
more abundant than in previous			shale.	10	1,880
samples. Little shale.	10	1,780		10	1,380
			Finely broken and ground		
Sugary, porous, somewhat			limestone, both the dense		
brownish limestone abundant			white and the brown sugary		
together with mottled, dense,			types. Numerous large		
white limestone. Few quartz			splinters of shale.	10	1,890
grains. Very little shale.	10	1,790			
			Finely ground limestone, both		
Light-brown sugary limestone,			the dense, mottled white		
very porous and composed of			type so abundant in above		
minute calcite crystals.			section and the links have		

section and the light-brown

sugary type frequent in the

lower portion of the above section. Considerable

splintery bluish-green shale.

Finely ground limestone, both

the hard, dense, white and

light-brown. Some splintery

the porous, sugary,

shale.

10

10

1,900

1,910

No record

minute calcite crystals.

Most of it highly cavernous.

Few angular quartz grains.

Abundance of sugary, porous,

light-brown limestone with

generous portion of dense

white mottled limestone in

possibly washed down from above. Very little shale.

finer portion of sample,

10

10

10

1,800

1,810

1,820

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401Co	ntinued		Well AX-40-62-401–Con	tinued	
Numerous thin plates of laminated, very fine grained, light-gray sandstone			Much ground limestone and considerable greenish shale; little fine-grained sandstone.	10	2,020
accompanied by the usual ground limestone fragments. Considerable pyrite and shale.	10	1,920	Much limestone and shale; little fine-grained sandstone.	10	2,030
Core: (1,922-1,926 ft.)			Ground limestone and shale		
Micaceous, friable, laminated, gray silt with argillaceous matter in thin streaks and			with little fine-grained, gray sandstone.	10	2,040
pockets in zones. (25 in.) Hard, calcareous silt with			Much loose quartz sand; considerable splintery shale.	10	2,050
considerable mica and little shale. (4 in.) Firely laminated gray shale with partings and thin streaks			Loose sand in abundance; considerable splintery, gray and greenish shale.	10	2,060
of micaceous silt; calcareous zone in portions of this length. (18 in.) Almost			Much loose quartz sand; considerable splintery green		0.070
wholly blue-green, splintery shale. Trace of fine-grained			shale.	10	2,070
sandstone.	10	1,930	Fine, light-gray quartz sand, some thinly laminated shale.	10	2,080
Largely greenish, splintery shale with some very fine-grained, light-gray			Core: (2,080-2,090 ft.)		
sandstone. Largely greenish, splintery	10	1,940	Dense, bluish-green shale with few silty and micaceous partings and irregularly		
shale with some fine-grained, light-gray sandstone.	10	1,950	distributed calcareous zones and areas. (7 in.)		
Largely greenish, splintery shale			White, friable, fine sand. (3 in.) Very dense, blue-green shale with few		
and some fine-grained, light-gray sandstone.	10	1,960	silty partings in places, irregularly distributed calcareous areas. (21 in.)		
Mostly greenish, splintery shale, some fine-grained sandstone, some hard, white			Friable, fine, white sand not particularly well		
mottled limestone. Dominantly greenish, splintery	10	1,970	bedded. (18 in.) Fine to coarse quartz sand and fine gravel. Trace of shells;		
shale, little fine-grained, gray sandstone, considerable finely-ground white limestone			very little shale. Large fragments of angular quartz fragments of small gravel		
possibly washed down from above.	10	1,980	sizes are to a large extent probably ground-up pebbles.	10	2,090
Much greenish, splintery shale, little fine-grained sandstone, considerable			Mixture of fine to coarse sand and small gravel, which is angular and probably		
finely-ground limestone.	10	1,990	ground-up pebbles. Considerable thinly laminated, gray shale.	10	2,100
shale; trace of fine-grained sendstone, little finely-ground limestone.	10	2,000	Fine to coarse sand, little small gravel or possibly		
Greenish, splintery shale; fine-grained, gray sandstone;			ground-up pebbles. Much thinly laminated gray shale.	10	2,110
little ground limestone (perhaps washed down from above.)	10	2,010	Fine gray sand, coarse sand, fine gravel; considerable thinly laminated gray shale. Much of the so-called small		
			gravel is probably ground-up pebbles of a conglomeratic layer.	10	2,120

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well AX-40-62-401-Co	ntinued		Well AX-40-62-401-C	ontinued	
the first stand some			Fine to coarse quartz material,		
Largely fine gray sand, some coarse sand and fine gravel,			much of it representing		
which may be ground-up			pebbles in a layer somewhere		
pebbles in conglomeratic			in the penetrated section.	10	2,235
layers.	10	2,130	Fine to coarse sand.		
Some fine and much coarse			Coarse sand and some shale.	10	2,245
sand, little small gravel,			Coarse yellow to pink quartz		
which is probably largely			grains of considerable size,		
ground-up pebbles. Little			much of it ground-up		
thinly laminated dark-gray shale.	10	2,140	boulders. Fine to coarse sand.	5	2,250
			Core: (2,250-2,256 ft.)		
Almost wholly very coarse					
sand or very small gravel. Trace of shale.	10	2,150	Sample in pint jar consists		
			of partially cemented fine		
Largely coarse sand with			gravel and sand.		
some very fine gravel.			Coarse quartz fragments and		
Considerable laminated			little laminated shale. Fine to coarse sand.	10	2,260
dark-gray shale.	10	2,160	Fine to coarse sand.		_,
Core: (2,161-2,166.5 ft.)			Coarse quartz fragments, some		
			of them ground-up pebbles		
Core completely lost, except			in a conglomeratic layer.	10	2,270
for a small handful of			Fine to coarse sand.	10	2,270
rounded peobles from size			No record.	5	2,275
of a pea to size of small			No record.		
egg. Pebbles consist of hard			Core: (2,275-2,281 ft.)		
greenish siltstone, chert, quartz. Fine to coarse sand about					
half the sample; rest,			"Core from bottom of core		
laminated dark-gray shale.	5	2,165	head, sand and conglomerate."		
			A jar of soft material and		
Fine to coarse sand, few			packages of hard material. The soft sample in the jar		
small fragments dark-gray,	2	2,168	consists of clayey gravel		
laminated shale.	3	2,108	that ranges from small and		
			rather large quartz pebbles.		
Fine sand to coarse sand, considerable fine gravel			In packages are three		
that is probably to a large			portions, one boulder of gray		
extent ground-up pebbles.	10	2,178	siltstone loosely bound by		
			a calc cement; another a		
Fine to coarse sand and fine			rather fine conglomerate		
gravel, which is quite			in a matrix of well-cemented sand; the third a large		
obviously the result of	10	2,188	irregular boulder of a		
grinding up pebbles.	10	2,100	pale-gray, "chalky," slightly		
state to ever and and small			micaceous, soft, and fine		
Fine to coarse sand and small gravel, of which much is			silt, which is represented		
apparently ground-up pebbles.	10	2,198	also in the hard core taken	6	2,281
			at 2,288.6-2,291 ft.	Ŭ	2,201
Very coarse quartz fragments			No record.	7	2,288
that must be ground-up pebbles in a conglomeratic					
layer. Considerable fine to			Core: (2,288-2,288.6 ft.)		
coarse sand.	10	2,208			
			A box of several portions of		
Very coarse quartz fragments			the core and a jar of some		
that are undoubtedly			soft, loose material submitted for study. The		
ground-up pebbles. Fine	7	2,215	several portions packaged		
to coarse sand.	,	_,	consist of squeezed dark		
Very coarse quartz fragments			gray shaly silt and pockets		
that are probably ground-up			of white coarse sand		
pebbles. Fine to coarse sand.	10	2,225	carrying few pebbles. One		

THICKNESS (FEET)	THICKNESS (FEET)	
• · · · • • · · · ·		

#### Well AX-40-62-401-Continued

#### Well AX-40-62-801-Continued

14

36

557

593

Well AX-40-62-401-C	Dintinueu				
portion carries a large			Sandy lime	25	2,005
white boulder of thinly					0.070
laminated, shaly, white			Shale - lime	65	2,070
material that looks like			Shale - sand streaks	140	2,210
highly altered chert.					_,
Material in jar consists of few hard quartz boulders			Sand (Hosston Sand)	65	2,275
and some dark, laminated,					
gray silty shale.	.6	2,288.6	Sand and shale (Hosston Sand)	60	2,335
			Cred (Herrien Sand)	20	2,355
Core: (2,288.6-2,291 ft.)			Sand (Hosston Sand)	20	2,000
Representative portions of			Sandy - shale - gravel	11	2,366
the core packed in jar and					
in two small packages. Two					
portions consist of a			Well AX-58-02-	301	
coarse conglomerate composed			Owner: -Bisse	<b>+</b> +	
of a heterogeneity of			Driller: Layne Te		
material in all sizes of boulders from fine and					
coarse sand in the matrix			Air	4	4
upward to gravel from size					
of a pea to almost egg			Soil	7	11
dimensions. Boulders are				8	19
largely quartz, jasper, and			Clay and sandy clay	0	15
flint with a few gray			River bed and sand	14	33
siltstones and several deeply imbedded, irregular					
boulders of a soft, chalky,			White rock and lime	<sup>′</sup> 13	46
pale-gray clay. The portion				_	
in the jar is a soft gray,			Blue shale	7	53
somewhat silty clay.	2.4	2,291	Lime rock - hard	3	56
			Lime rock - hard	5	50
Well AX-40-6	2-801		Hard lime and shale	14	70
Owner: Bell County	WCID No. 1		Rock	20	90
Driller: J. L. My	ers Sons		Lime rock and hard shale	32	122
	35	35	Line fock and hard share	02	
Yellow clay	55	55	Rock and hard gray shale	154	276
Chalk rock	400	435			
			Rock and breaks of shale	18	294
Chalk	110	545		25	319
		050	Hard white lime	25	319
Shale	305	850	Hard sandy lime and shale	19	338
Lime	145	995			
Lime	140	000	Hard sandy lime and shale	20	358
Shale and lime streaks	35	1,030			
			Blue shale	44	402
Lime	170	1,200	Sandy shale	7	409
	95	1 0 2 5	Sandy shale	,	405
Shale	35	1,235	Sandy lime and shale	53	462
Lime	5	1,240			
Enno	2		Hard lime and shale breaks	10	472
Shale - lime	58	1,298		05	40.7
			Hard shale pink	25	497
Lime	422	1,720	Hard blue and brown and		
Lime - shale	150	1,870	pink shale and streaks of lime	46	543
LITIE - STOLE	100	.,			

Hard rock

Hard blue and brown shale

75

35

Lime

Sand

1,945

1,980

#### ated Wells in Bell County-Continued ... f Cal

Table 3.—Drillers' Logs of Selected Wells in Bell County—Continued						
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)	
Well AX-58-02-301Co	ntinued		Well AX-58-04	-803		
Hard limerock	7	600	Owner: Texas Highway Driller: Hervey Meadows an	v Department d Son Well Driller		
Hard black shale and layers of lime	28	628	Black dirt	6	6	
			СІау	17	23	
Well AX-58-04	-602 V		Hard blue rock	66	89	
Owner: Salado Water S Driller: Hervey Meadows an	Supply Corp. d Son Well Driller		Hard gray lime	30	119	
Black soil	2	2	Hard sand	21	140	
Red soil	6	8	Hard limestone glass	35	175	
White rock	10	18	Brown lime	5	180	
Blue rock	24	42	Well AX-58-05-	202		
Brown water sand	54	96				
Blue rock	9	105	Owner: Armstrong Water Driller: Watts Drill			
			Topsoil	1	1	
Well AX-58-04		~ '	White soapstone	35	36	
Owner: Salado Water Driller: Hervey Meadows ar	Supply Corp. nd Son Well Drille	r	Blue slate	6	42	
Soil	.5	.5	Chalk lime AUSter	107	149	
White chalk	3	3.5	Blue shale SF	201	350	
White rock	13.5	17	White lime	34	384	
Blue rock	17	34	Lime and shale	134	518	
Hard broken lime	51	85	Lime (hard)	68	586	
Blue rock	25	110	Shale and lime streaks	186	772	
Brown water sand	50	160	Lime (hard)	16	788	
			Lime and shale	230	1,018	
Well AX-58-0			Glen Rose lime and sand	176	1,194	
Owner: Texas Highwa Driller: Hervey Meadows a	ay Department and Son Well Drill	er	Shale and lime	124	1,318	
Black dirt	6	6	Sand, shale, and small lime streaks	162	1,480	
Clay	10	16	Lime (hard)	28	1,508	
Blue rock	24	40	Shale and lime	48	1,556	
White and gray lime	49	89	Shale and lime	48	1,604	
Hard white and brown lime	45	134	Lime, shale, and sand streaks	28	1,632	
Limestone glass and sand	41	175		74	1,706	
Brown lime	5	180	Shale	32	1,738	
			Sand and gravel	2	1,740	
			Lime (hard)	2	1,740	

THICKNESS	DEPTH	THICKNESS	DEPTH
(FEET)	(FEET)	(FEET)	(FEET)

#### Well AX-58-05-402-Continued Well AX-58-05-402 731 Owner: Ellis Holland 41 Hard lime and granite Driller: Trim and Son Contractors 738 7 Chalky lime 1 1 Surface 12 750 Hard white lime 8 7 Chalk 780 30 Gray lime - hard 20 12 Chalk and lime 2 782 Soft gray lime Chalk and shale, seep 35 784 2 15 Gray shale (trace oil) water 30 ft. 40 75 9 793 Gray shale and lime (pyrites) Hard lime 796 з 78 з Hard lime Gray shale 281 8 804 203 Chalk, lime, and marl Hard lime 7 811 14 295 Black shale (pyrites) Grav shale 300 16 827 5 Hard lime Hard lime 10 310 8 835 **Black shale** (pyrites) Gray shale 321 849 14 11 Soft lime Lime 76 397 8 857 Black shale (pyrites) Gray shale 402 863 6 5 Lime shell (Buda) Hard lime 18 420 6 869 Black shale (pyrites) Black shale 975 3 423 Broken lime and gray shale 106 Lime shale (Buda) 503 80 Black shale (480 ft. trace oil) White and gray hard lime - few black lime stratas 1 504 Fresh water stratas 1,075 ft. 455 1,430 Pyrite shell 525 7 1,437 21 Blue gray shale Black shale (pyrites) 27 552 Lime (Georgetown) Hard gray lime -1,520 fresh water 1,495 ft. 83 554 2 Gray marl 2 1,522 Gray shale 564 10 Lime 68 1,590 Gray sand - fresh water Gray marl shale 580 4 1,594 16 (570 ft. trace oil) Gray shale 12 592 9 1,603 Gray lime Lime 1,700 605 97 13 Gray shale Grav shale and lime 617 1,705 12 5 Hard lime (Edwards) Gray sand 625 42 1.747 8 Soft lime (trace oil) Gray sandy shale 638 1,765 13 18 Hard lime Gray sand - fresh water 12 650 10 1,775 Hard lime Lime gravel (good water) 651 18 1,793 1 Flint Sandy shale 682 Yellow lime (bottom Edwards) 31 12 1,805 Hard gray lime

Soft gray sand - fresh water

1,820

15

690

8

Sandy lime

HICKNESS (FEET)	6 DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)		
Well AX-58-05-402Continued			Well AX-58-05-901—Continued			
5	1,825	Gumbo with clay	90	990		
2	1,827	Water sand, sulphur water (Edwards lime)	54	1,044		
Well AX-58-05-403			22	1,066		
Owner: Leon River Farms Driller: Hervey Meadows and Son Well Driller			49	1,115		
1	1	Water sand	5	1,120		
21	22	Gray lime	20	1,140		
5 <b>2</b>	74	Lime shows little water	90	1,230		
142	216	Blue shale	18	1,248		
274	490	White lime	102	1,350		
220	710	Lime streaks white clay (water)	150	1,500		
95	805	Lime	250	1,750		
35	840	Lime	45	1,795		
150	990	Gumbo	5	1,800		
590	1,580	Water sand	5	1,805		
50	1,630	Lime streaks white clay	107	1,912		
I		Trinity water sand	53	1,965		
		Gumbo	5	1,970		
	8	Black gumbo	23	1,993		
			.07.701			
		Surface soil	4	4		
		Yellow clay	12	16		
		Black shale	82	98		
		Gray shale	238	336		
		Black shale	203	539		
		Gray shale	49	588		
		Chalk	283	871		
		Chalk and shale	10	881		
	806	Shale	16	897		
30	836	Chalk and shale	35	932		
64	900	Chalk	182	1,114		
	(FEET) ued 5 2 rms n Well Drill 1 21 52 7 142 274 220 95 35 150 590 50 10 50 10 170 95 82 13 86 30	(FEET)       (FEET)         ued       5       1,825         2       1,827         nms       1       1         21       22       74         142       216       274         142       216       274         142       216       31         274       490       220         35       840       35         35       840       30         150       990       590         50       1,580       50         50       1,630       31         44       75       150         50       200       50       200         50       250       110       360         110       360       250       110         30       720       86       806         30       836       30       336	Well AX 58 05-901-uedWell AX 58 05-901-51,825Gumbo with clay21,827Water sand, sulphur water (Edwards lime)a1Water sand, sulphur water (Edwards lime)11Water sand2122Gray lime5274Lime shows little water142216Blue shale274490White lime220710Lime streaks white clay (water)95805Lime35840Lime150990Gumbo501,630Gumbo160990Elek gumbo751,630Black gumbo88Ourse:75150Surface soil Yellow clay50250Black shale75150Gray shale17530Black shale75150Gray shale170530Black shale170530Black shale170530Gray shale170530Black shale171360Gray shale172530Black shale173720Chalk184721Chalk195625Gray shale196806Shale197530Gray shale198631Chalk199199Gray shale199199Gray shale199199199<	Interest of (FEET)(FEET)uedWell AX-58-05-01-Continued51.825Gumbo with clay9021.827Water sand, sulphur water (Edwards lime)6421.827Gumbo with clay9011Water sand, sulphur water (Edwards lime)6211Water sand52122Gray lime902274Lime shows little water90142216Blue shale18274490White lime10220574Lime streaks white clay (water)16035840Lime5035840Lime5036990Gumbo50375840Lime streaks white clay10736990Gumbo50371,630Gumbo50388Gumbo50391,630Gumbo50475Currer clay (water)17475Sufface soil4475Currer clay (water)20501,630Gumbo5631Currer clay (water)20751,50Gumbo575150Gumbo2075150Gumbo2075150Gumbo2075150Gray shale2075150Gray shale2075150Gray shale </td		

THICKNESS DEPTH THICKNESS DEF (FEET) (FEET) (FEET) (FE	
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## Well AX-58-07-701---Continued

## Well AX-58-07-701-Continued

Well AX-56-07-701C	ommaca				
Chalk and shale	57	1,171	Lime and shale	73	2,568
Black shale	62	1,233	Soft lime	21	2,589
Lime and shale	10	1,243	Lime	160	2,749
Shale	22	1,265	Shale and lime	16	2,765
Lime	82	1,347	Porous lime	11	2,776
Lime and shale	30	1,377	Lime and shale	62	2,838
Lime	120	1,497	Lime	5	2,843
Lime and shale	27	1,524	Sand and shale	15	2,858
Lime	215	1,739	Sand	8	2,866
Shale	3	1,742	Shale and sandy shale	30	2,896
Lime and shale	24	1,766	Lime and shale	14	2,910
Lime	123	1,889	Sand with few layers of shale	100	3,010
Lime and shale	250	2,139	Hard shale	11	3,021
Shale and lime	18	2,157	Sand and gravel	86	3,107
Lime	222	2,379	Shale	6	3,113
Lime and shale	56	2,435	Sand	59	3,172
Shale and lime	32	2,467	Hard shale	6	3,178
Lime	28	2,495			

## **BOSQUE COUNTY**

## Table 2.-Selected Oil, Gas, and Stratigraphic Tests

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BB-32-58-301	American Liberty Oil Co.	Elmer Smith No. 1	1950	5,855	1,122	E
40-02-103	do.	Clanton No. 1	1949	4,468	980	E
701	American Republic Corp.	F. T. Shaffer No. 1	1950	5,246	1,136	E
10-102	Shell Oil Co.	Mathews No. 1	1965	840	1,160	E
12-403	do.	Ellie Moore No. 1	1966	675	700	Е
404	do.	Ellie Moore No. 2	1966	701	729	E
13-302	SouthLand Oils and American Liberty Co.	R. T. Greenwade No. 1	1949	7,240	664	E
20-702	O. C. Proffitt	J. W. Henry No. 1	1953	6,222	933	E
21-101	American Liberty Oil Co.	Herbert Reichert No. 1	1948	7,706	850	E

## **BOSQUE COUNTY**

## Table 3.-Drillers' Logs of Selected Wells

THICKNESS	DEPTH
(FEET)	(FEET)

## Well BB-32-58-502

Owner: Flat Top Ranch Driller: C. Glenn Wallen and Son

Gray lime	30	30
Blue lime	50	80
Blue sandy shale	20	100
Hard sand rcck, water 8 gpm	15	115
Hard blue shale	35	150
Hard blue sand lime	50	200
Gray hard lirne	2	202
Hard gray sandy lime	225	427
Soft blue shale	20	447
Coarse sand (water)	68	515

## Well BB-32-59-402

#### Owner: City of Walnut Springs Driller: J. L. Myers Sons

Rock	131	131
Sand	15	146
Rock	22	168
Sand	12	180
Rock	14	194
Green putty sand	26	220
Chalk rock	16	236
Lime	248	484
Shale	8	492
Sandy lime	14	506
Sandy shale	7	513
Sand	12	525
Shale	15	540
Sand	46	586
Gravel	24	610
Rock	1	611

## Well BB-32-61-102

Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.

Clay	10	10
Gravel	8	18
Rock	40	58
Sand	14	72

Well BB-32-61-102—Continued			
Shale	37	109	
Sand	11	120	
Shale	10	130	
Paluxy sand	10	140	
Rock	325	465	
Shale	7	472	
Rock	53	525	
Glen Rose sand	22	547	
Rock	14	561	
Water sand	22	583	

THICKNESS

(FEET)

DEPTH

(FEET)

## Well BB-32-61-401

#### Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.

Surface soil	22	22
Sandy clay and gravel	25	47
Rock	26	73
Shale	47	120
Upper Paluxy sand	16	136
Shale	22	158
Lower Paluxy sand	10	168

## Well BB-32-61-701

#### Owner: Bogey Estill Driller: Rufus Hampton Smith

Gravel	20	20
Blue shale	10	30
White rock	120	150
Blue shale	15	165
Paluxy sand	15	180
Glen Rose lime with streaks of shale and lime	340	520
First Trinity	50	570
Red bed	110	680
Second Trinity	100	780
Red and blue shale	45	825

Shale

Table 3	3.—Drillers' Logs o	of Selected	Wells in Bosque County-Continue	a	
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-32-6	51-703		Well BB-32-61-705-	-Continued	
Owner: Lakeside Wate Driller: J. L. M	r Supply District		Sand	10	750
Lime and clay	6	6	Shale	7	757
Broken lime	136	142	Well BB-32-6	51-706	
Shale	18	160	Owner: Bestview Wa Driller: Leon D		
Sand	48	208	_	5 f	5
Lime	381	589	Soil and gravel	20	25
Lime and shale	31	620	Gray lime	140	165
Sand	13	633	Lime shells and shale	5	170
Broken sand	8	641	Sandy lime	10	180
Sand	19	660	Sandy shale	40	220
Broken sand	6	666	Water sand		220
Sand	24	690	Sandy shale - lime	2	222
Broken sand	32	722	Well BB-32-	61-707	
Red bed	24	746	Owner: U.S. Army Co Driller: Un		
Well BB-32	-61-704		Rock	145	145
Owner: Lakeside Wat	er Supply District		Shale	48	193
Driller: J. L. N			Rock	49	242
Surface soil	2	2	Shale and rock streaks	13	255
Rock	37	39	Sand and sandstone	11	266
Broken lime and shale	51	90	Shale and rock streaks	11	277
Rock	40	130	Sandy shale	5	282
Shale	54	184	Sandy shale	12	294
Sand	16	200	Sand	11	305
Rock	414	614	Rock	333	638
Sand	120	734	Shale and rock streaks	30	668
Lime and shale	30	764	Rock	10	678
Well BB-32	2-61-705		Shale and rock	15	693
Owner: Lakeside Wa	ter Supply District		Rock	10	703
Driller: C. M. Sto			Shale and rock streaks	10	713
Soil	1	1	Sandy shale	10	723
Lime	194	195	Shale and rock streaks	15	738
Sand	35	230	Light colored sandy shale	10	748
Lime	378	608	Red shale	15	763
Sandy lime and shale	70	678	Sand	9	772
Sand	32	710	Red shale and rock streaks	11	783
Shale	12	722	Sand	10	793
Sand	12	734	Hard sand and sandstone	20	813
	6	740			

Red shale

37

850

740

THICKNESS	DEPTH
(FEET)	(FEET)

## Well BB-32-61-801

Owner: U.S. Army Corps of Engineers Driller: Ward and Ward Drilling Co.

Surface soil	29	<b>2</b> 9
Rock	19	48
Shale	124	172
Water sand	46	218

#### Well BB-40-01-302

#### Owner: O, H. McGavock Driller: Iredell Drilling

Topsoil and clay	35	35
Large gravel	15	50
Limestone and plue clay	150	200
Paluxy sand	20	220
Blue shale and lime	35	255
Trinity sand	35	290

#### Well BB-40-01-303

#### Owner: H. F. Myers Driller: Iredell Drilling

Topsoil	18	18
Lime	124	142
Blue shale	40	182
Sand (fine)	15	197
Blue shale	15	212
Sand (fine)	20	232
Blue shale	30	262
Sand (coarse with washed gravel)	53	315

#### Well BB-40-02-101

#### Owner: City of Iredell Driller: Rufus Hampton Smith

Sand	4	4
Yellow clay	7	11
Blue shale	9	20
Glen Rose lime with streaks of sand	220	240
Lime with streaks of shale	35	275
Water sand (Trinity)	50	325

THICKNESS (FEET)	DEPTH (FEET)

### Well BB-40-02-102

#### Owner: City of Iredell Driller: Unknown

Soil	20	20
Limestone	10	30
Soft blue marl	80	110
Blue marl	6	116
Soft white stone	50	166
Sandstone, limestone and marl	100	266
Soft sand rock, hard sand rock	45	311
Fine grained sandstone	6	317
Pack sand (flow of water)	18	335

### Well BB-40-02-104

#### Owner: B. F. Strong Driller: Iredell Drilling

Topsoil and gravel	25	25
Shale	15	402
Lime and shale breaks	160	200
Blue shale	18	218
Sandy shale	14	232
Sand	7	239
Blue shale	4	243
Sand and shale breaks	14	257
Rock	3	260
Sand	37	297
Sand and gravel	23	320
Red clay	10	330
Sand and clay	30	360
Red clay	50	410

#### Well BB-40-02-105

#### Owner: City of Iredell Driller: Iredell Drilling

Topsoil and gravel	26	26
Blue shale	14	40
Lime	160	200
Sand	10	210

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-02-105-	Continued		Well BB-40-03-601-	-Continued	
Shale and lime strips	60	270	Rock	1	551
Sand and gravel	56	326	Shale	32	583
	0.400		Gumbo	4	587
Well BB-40-0			Shale	21	608
Owner: Elliott E Driller: Iredell			Rock	2	610
Topsoil and clay	20	20	Gray shale	5	615
Silica sand	15	35	Gumbo	11	626
Shale and lime	95	130	Shale	10	636
Fine sand	20	150	Rock	1	637
Lime and shale	150	300	Shale	8	645
Shale	75	375	Sand	79	724
Gravel and sand	50	425	Sand and gravel	9	733
	2.004		Lime	1	734
Well BB-40-0			Shale	25	759
Owner: City of Driller: J. L. My			Well BB-40-0	3-603	
Surface soil	10	10	Owner: City of		
Gravel	2	12	Driller: C. M. Stone		
Lime	24	36	Chalk rock	6	6
Rock	8	44	Shell rock	164	170
Sand	10	54	Sand	20	190
Rock	16	70	Lime rock	370	560
Shale	11	81	Sandy lime	25	585
Rock	10	91	Sand	46	631
Sandy shale	4	95	Green shale	4	635
Sand	10	105	Red shale	17	652
Lime rock	6	111	Sand	8	660
Chalk rock	189	300	Red bed	25	685
Lime rock	158	458	Broken red and gray shale	45	730
Chalk rock	2	460	Sand	108	838
Lime	15	475	Well BB-40-0	3-802	
Sandy shale	5	480	Owner: Texas Parks and W Driller: Watts Dr		
Sand	10	490	Lime and caliche	45	45
Sandy shale	20	510	Lime	45 75	45 120
Water sand	7	517	Lime and blue shale	180	300
Rock	4	521	Sand	20	320
Sandy shale	5	526	Lime	360	6 <b>80</b>
Sand	10	536	Sand	10	690
Shale	14	550	Lime and shale	20	710
				20	/10

Rock Blue rock

White lime

Table 3.—Drillers' Logs of Selected Wells in Bosque County—Continued					
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-03-802C	ontinued		Well BB-40-04-801-C	ontinued	
Sand			Black shale	40	400
Red clay			Hard sand	10	410
Sand			Glen Rose lime	312	722
Well BB-40-03	-901		Hard black shale	78	800
Owner: Texas Highway			Sandy lime	40	840
Driller: Watts Dril			Hard lime	20	860
Topsoil	3	3	First Trinity sand	40	900
Shell rock	8	11	Red bed shale	100	1,000
Blue lime	19	30	Red bed red sand	20	1,020
Hard gray lime	15	45	Red sand and shale	95	1,115
Blue shale	3	48	Hard black shale	5	1,120
Hard blue lime	12	60	Well BB-40	-04-802	
Blue shale and lime	49	109	Owner: N. P. P	owell Ranch	
Lime	361	470	Driller: J. L. N		
Lime and blue shale	30	500	Clay	2	2
Sand	5	505	Rock	376	378
Lime and blue shale	27	532	Sand	18	396
Trinity water sand	38	570	Rock	19	415
Well BB-40-04	-403		Lime 400		815
Owner: N. P. Pow			Broken sand	45	860
Driller: J. L. Mye			Sand	58	918
Surface soil	2	2	Red bed	30	948
Rock	38	40	Sand with streaks of shale	46	994
Lime	312	352	Sand	98	1,092
Sand	19	371	Broken lime	38	1,130
Lime	373	764	Well BB-40	-04-803	
Sandy lime	57	801	Owner: N. P. P		
Sand	61	862	Driller: J. L. N	Ayers Sons	
Red bed	24	886	Surface soil	3	3
Sand and shale	15	901	Rock	9	12
Lime	35	936	Lime	327	339
Well BB-40-04	-801		Lime and streaks of shale	18	357
Owner: N. P. Powe			Fine sand	18	375
Driller: Hervey Meadows and	d Son Well Driller		Lime	231	606
Soil	1	1	Sandy lime	91	697
Rock	16	17	Lime	22	719

730

810

11

80

Sand

Lime and streaks of sand

100

360

83

THICKNESS	DEPTH
(FEET)	(FEET)

## Well BB-40-04-803-Continued

Rock	8	818
Red bed	22	840
Hard sand	14	854
Lime and streaks of sand	22	876
Red bed	26	902
Sand	36	938
Lime and streaks of shale	33	971

#### Well BB-40-05-301

#### Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.

Topsoil and clay	3	3
Lime	117	120
Lime and blue shale	140	260
Lime gravel and sand	25	285
Lime and blue shale	455	740
Gravel and sand	10	750
Red clay	175	925
Sand-water bearing	52	977

### Well BB-40-05-401

Owner: James Walker Driller: Iredell Drilling

Topsoil	10	10
Surface rock	5	15
Limestone	35	50
Blue shale	35	85
Limestone	5	90
Blue shale	5	95
Blue rock	5	100
Blue shale	25	125
Lime and blue shale	50	175
Sandy shale and water	35	210
Lime	25	235
Lime and sandy shale	55	290
Lime solid	150	440
Brown lime and blue shale	230	670
Trinity sand	21	691

## Well BB-40-05-701

DEPTH

(FEET)

THICKNESS (FEET)

**Owner: Ronnie Jones** Driller: J. L. Myers Sons

Rock	126	126
Lime	274	400
Sand	8	408
Lime	454	862
Sandy lime	28	890
Lime	4	894
Sand	18	912
Red bed	36	948
Green shale	13	961
Lime	9	970
Rock	3	973
Red bed	19	992
Shale and streaks of sand	36	1,028
Sand	55	1,083
Hard rock	3	1,086
Sand	21	1,107

## Well BB-40-05-704

#### Owner: N. P. Powell Ranch Driller: J. L. Myers Sons

Surface soil	1	1
Rock	264	265
Lime	631	896
Sand	42	938
Red bed	24	962
Sand and shale	23	985
Red bed	15	1,000
Hard sand and shale	105	1,105
Streaks shale and sand	60	1,165
Rock	22	1,187

#### Well BB-40-05-905

#### Owner: U.S. Army Corps of Engineers Driller: Watts Drilling Co.

Yellow lime	6	6
White lime	12	18
Gray lime	130	148

		OFOTI		THICKNESS	DEPTH
	THICKNESS (FEET)	DEPTH (FEET)		(FEET)	(FEET)
Well BB-40-05-905-0	Continued		Well BB-40-10-80	2Continued	
Shale and lime	41	189	Fine sand	12	620
Lime	89	278	Red shale	7	627
Sand and shale	44	322	Well BB-4	0-11-401	
Lime and shale	500	822		Bruce Parks	
Red bed	88	910		ance Erickson	
Sand and gravel	170	1,080	Yellow clay and gravel	20	20
Shale	20	1,100	Hard shell rock	30	50
Well BB-40-10	0-802		Blue gumbo	10	60
			Paluxy sand	20	80
Owner: City of Cr. Driller: R. A. Adar	ns and Son		Very hard lime	15	95
Yellow clay	45	45	Blue shale	3	98
Blue gumbo	55	100	Hard gray lime	302	400
Blue lime and gumbo streaks	10	110	Blue shale	15	415
Blue lime	30	140	Green sandy shale	20	435
Gray lime	30	170	Trinity sand and water	35	470
Blue shale	12	182	Red clay	5	475
Blue lime and shale streaks	10	192	Red rock	3	478
Paluxy sand - water	28	220	Well BB-	40-11-402	
Glen Rose lime	3	223	Owner: Clarence Fields		
Glen Rose lime (hard)	167	390	Driller: Clarence Frickson		
Lime and shale streaks	7	397	Yellow clay	35	35
Hard lime	8	405	Blue soapstone	2	37
Soft lime	2	407	Sandy clay	10	47
Lime	73	480	White rock and clay	4	51
Green shale and lime streaks	7	487	Sand rock	9	60
Soft sticky lime	28	515	Paluxy sand	18	78
Blue shale	8	523	Rock	12	90
Hard lime	7	530	Blue shale	2	92
Black shale	5	535	Very hard rock	18	110
Sandy lime	10	545	Well BB	3-40-12-101	
Sandy shale	5	550	Owner: M	ildred Hogstel	
Hard sand	7	557		arence Erickson	
Green shale	10	567	Coarse gravel	26	26
Hard sand rock	7	574	Blue shale	8	34
Beach sand and water	16	590	Hard white rock	46	80
Hard sand rock	5	595	Blue gumbo	10	90
No record	2	597	Hard blue shell	5	95

## ted Wells in Bosque County-Continued

Т	able 3.–Drillers' Logs	of Selecte
	THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-12	2-101-Continued	
Green sand	2	110
Paluxy sand (lots of water)	18	128
White lime rock	2	230
Well B	B-40-12-703	
	City of Clifton . L. Myers Sons	
Lime	115	115
Broken lime	133	248
Walnut shell bed	15	263
Hard sandrock	2	265
Sandy shale	31	296
Lime	116	412
Broken lime	48	460
Lime	242	702
Broken lime	31	733
Sand	31	764
Broken sand	12	776
Red bed	46	822
Sand	18	840

Broken sand

Broken sand

Sand

Sand

Shale

THICKNESS (FEET)	DEPTH (FEET)

### Well BB-40-12-802

Owner: City of Clifton Driller: E. E. Erickson

Gravel	30	30
Blue shale or soapstone	12	42
Lime	40	82
Blue shale	4	86
Hard lime	12	98
Blue shale	10	108
Hard caprock	2	110
Green sand	4	114
Paluxy sand (lots of water)	18	132
Gumbo	5	137
White lime	60	197
Honeycomb lime (more water)	15	212
White lime with a few breaks	338	550
Very hard lime	11	561
Shale and gumbo	26	587
Black gumbo	3	590
Hard caprock	3	593
Green shale and green sand	7	600
Sand (flowing lots of water)	46	646

## Well BB-40-12-803

Owner: City of Clifton Driller: E. E. Erickson

Gravel	35	35
Rock	55	90
Black gumbo	3	93
Green shale	2	95
Paluxy sand	25	120
Black gum	3	123
Rock	15	138
Black gum	2	140
Lime rock	43	183
Honeycomb lime	4	187
Lime rock	343	530
Shale and gravel sand	10	540
Green shale	28	568
Shale and sand	2	570

### Well BB-40-12-704

20

22

30

24

6

860

882

912

936

Owne	er: \	N. L	Ga	untt	
Driller:	Fra	ink	Bake	r Place	e

Yellow clay	40	40
Blue rock	215	255
White rock	15	270
Soapstone	45	315
Paluxy sand	10	325
Black shale	15	340
Lime rock	430	770
Green shale	5	775
Hard sand	5	780
Trinity sand	32	812

THICKNESS	DEPTH	
(FEET)	(FEET)	

## Well BB-40-12-805-Continued

Well BB-40-12-803–Co	ntinued		Well BB-40-12-805–Co	ntinued	
Caprock	_		Lime	40	82
Trinity sand	40	610	Blue shale	4	86
Green shale	10	620	Hard lime	12	98
White and red clay	2	622	Blue shale	10	108
Red rock	56	678	Hard caprock	2	110
Water sand	8	686	Green sand	4	114
Shale and gray gum	12	698	Paluxy sand (lots of water)	18	132
Shale and gray goin			Gumbo	5	137
Well BB-40-12-8	304		White lime	60	197
Owner: City of C Driller: Clarence E	lifton rickson		Honeycomb lime (more water)	15	212
Gravel	35	35	White lime with a few breaks	338	550
Blue rock	55	90	Very hard lime	11	561
Black gumbo	4	94	Shale and gumbo	26	587
Green gumbo	2	96	Black gumbo	3	590
Paluxy sand and water	25	121	Hard caprock	3	593
Black shale	3	124	Green shale and sand	7	600
White rock	13	137	Trinity sand (lots of water)	46	646
Black gumbo	2	139	Red bed	10	656
Hard rock	1	140	Sand	131	787
Hard lime	160	300	Well BB-40-13	.301	
Green shale	10	310	Owner: Lake Whitney Enterprises		
White rock	90	400	Driller: J. L. My		
Granite lime	27	427	Rock	151	151
Gray lime	103	530	Lime	51	202
Granite	20	55 <b>0</b>	Broken lime	160	362
Green gumbo	25	575	Lime	2	364
Coarse sand Trinity water	40	615	Sand	17	381
Green gumbo	2	617	Hard lime - sand	127	508
Hard brown lime	5	622	Sandy lime	245	753
				127	880
Hard brown lime	4	626	Lime		
Hard brown lime Green and white clay	4 2	626 628	Lime Sand	18	898
Green and white clay				18 75	898 973
Green and white clay Red gumbo and red rock	2	628	Sand		
Green and white clay Red gumbo and red rock Coarse sand and water	2 56	628 684	Sand Mixed shale	75	973
Green and white clay Red gumbo and red rock Coarse sand and water Gray and black shale	2 56 13 5	628 684 697	Sand Mixed shale Sandy shale	75 41	973 1,014
Green and white clay Red gumbo and red rock Coarse sand and water Gray and black shale Well BB-40-1	2 56 13 5 <b>2-805</b>	628 684 697	Sand Mixed shale Sandy shale Sand	75 41 19	973 1,014 1,033
Green and white clay Red gumbo and red rock Coarse sand and water Gray and black shale	2 56 13 5 <b>2-805</b> Clifton	628 684 697	Sand Mixed shale Sandy shale Sand Hard sand	75 41 19 25	973 1,014 1,033 1,058
Green and white clay Red gumbo and red rock Coarse sand and water Gray and black shale Well BB-40-1 Owner: City of	2 56 13 5 <b>2-805</b> Clifton	628 684 697	Sand Mixed shale Sandy shale Sand Hard sand Sand	75 41 19 25 89	973 1,014 1,033 1,058 1,147
Green and white clay Red gumbo and red rock Coarse sand and water Gray and black shale Well BB-40-1 Owner: City of Driller: Clarence	2 56 13 5 2-805 Clifton Erickson	628 684 697 702	Sand Mixed shale Sandy shale Sand Hard sand Sand	75 41 19 25 89	973 1,014 1,033 1,058 1,147

THICKNESS (FEET)		THICKNESS (FEET)	
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## Well BB-40-13-303

Owner: Lake Whitney Enterprises Driller: J. L. Myers Sons					
Surface	1	1			
Lime	174	175			
Lime and shale	171	346			
Sand	21	367			
Lime	467	834			
Sand	48	882			
Lime and shale	196	1,078			
Sand	64	1,142			

#### Well BB-40-13-801

#### Owner: A. R. Bearden Driller: Frank Baker Place

Soil and yellow clay	37	37
Blue rock	118	155
White lime	60	215
Blue shale and lime	160	375
White lime	15	390
Blue shale and soapstone	60	450
Paluxy sand	15	465
Black shale	5	470
Glen Rose lime	430	900
Sandy lime	50	950
Trinity sand	50	1,000

### Well BB-40-18-303

#### Owner: Artesian Water Co. Driller: J. L. Myers Sons

Soil	2	2
Clay	10	12
Rock with shale streaks	134	146
Limestone	386	532
Broken sand and shale	5	537
Sand with rock streaks	33	570
Shale	5	575

## Well BB-40-19-402

### Owner: Mrs. George Adams Driller: C. M. Stoner Drilling Co.

	 -
Soil	2
White rock	38

Well BB-40-19-402-Continued					
Shell rock	145	185			
Broken shell rock and shale	30	215			
Sandy shale	5	220			
Sand	5	225			
Sandy shale	15	240			
Lime rock	372	612			
Sand	20	632			
Sandy shale	6	638			
Sand	55	693			
Red bed	77	770			
Sand	10	780			
Shaly sand	30	810			
Sand	20	830			
Brown shale	5	835			
Sand	5	840			
Yellow shale	15	855			

### Well BB-40-20-303

#### Owner: A. L. Haster Driller: Frank Baker Place

Soil and yellow clay	24	24
Blue rock	201	225
White rock	20	245
Blue shale and soapstone	50	295
Paluxy sand	25	320
Black shale	2	322
Glen Rose lime	393	715
Blue shale	5	720
Glen Rose lime	56	776
Hard sand	14	790
Soft sand (Trinity)	25	815

## Well BB-40-20-703

#### Owner: Mosheim Water Supply Corp. Driller: Hervey Meadows and Son Well Driller

Soil	1	1
Rock and clay	4	5
Yellow clay	2	7
White rock	22	29
Blue rock	6	35
Edwards limestone (fossils)	305	340

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BB-40-20-703Cor	ntinued		Well BB-40-21-202–Co	ntinued	
Shale	320	660	Broken white lime and blue shale	190	300
Glen Rose limestone	20	680	Paluxy sand	25	325
Sand and shale	20	700	Black shale	2	327
Glen Rose limestone and fine sand	97	797	Well BB-40-2	1 702	
		050	Well BB-40-2	1-702	
Top of first Trinity	53	850	Owner: City of Driller: Frank I		
Sand and black shale	6	856			25
			Soil and Clay	25	25
Well BB-40-20	-901		Blue rock	62	87
Owner: Fred B Driller: Frank Bal			Blue shale	33	120
Soil and yellow clay	16	16	Gray lime	44	164
Blue shale	94	110	Soapstone	44	208
White lime	20	130	Paluxy sand	12	220
Blue shale and soapstone	35	165	Dark shale	8	228
Paluxy sand	40	205	Gray lime	238	466
White lime	90	295	Blue shale	14	480
Porous (water)	5	300	White lime	225	705
White lime	10	310	Green shale	3	708
AAULTE HILLE			Hard sand (Trinity)	32	740
Well BB-40-2	1-202		Soft sand	20	760
Owner: Edwin M Driller: Frank Ba			Red bed (hard)	1	761
Soil and yellow clay	19	19			
Blue rock	91	110			

## **BROWN COUNTY**

## Table 2.-Selected Oil, Gas, and Stratigraphic Tests

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BR-31-57-530	Coastal States Gas Producing Co.	S. L. Rankin No. 1	1960	3,009	1,737	E
921	Coal Tullous and Co.	Ben Moore No. 1	_	1,394	1,755	S
41-02-401	C. W. Phayer	Ross No. 1	1950	2,833	1,850	E
19-132	Clarence F. Chang and Associates	Sallie Baker No. 1	1950	1,972	1,520	D

## **BROWN COUNTY**

## Table 3.-Drillers' Logs of Selected Wells

THICKNESS	DEPTH
(FEET)	(FEET)

## Well BR-41-01-234

Owner: May Water Supply Corp. Driller: Curtis Alford Drilling and Well Service

Soil and caliche	5	5
Blue soapstone	15	20
Yellow and brown shale	13	33
Sandy (little water)	37	70
Sand	25	95
Gravel and sand	5	100
Soapstone, blue and gray	18	118

## Well BR-41-19-132

Owner: Sallie Baker Driller: Clarence F. Chang and Associates

Surface clay	5	5
Blue shale	18	23
Sandy lime	9	32
Sand	19	51
Lime and broken lime	54	105
Shale	4	109
Fresh water sand	8	117
Red bed	41	158
Sandy lime	6	164
Broken shale and sandy lime	186	350

Well BR-41-19-132-Continued				
Shale and shell	80	430		
Blue shale and sandy lime	42	472		
Lime	3	475		
Gray shale and black	45	520		
Lime shell	4	524		
Sand slight salt water	68	592		
Shale and shell	20	612		
Sand and sand shale, salt water increase	68	68		
Dark shale with sandy streaks and lime shells	289	969		
Sandy lime and black shale	156	1,125		
Lime	73	1,198		
Sandy shale	51	1,249		
Sandy lime	11	1,260		
Black shale	15	1,275		
Black slate	384	1,659		
Shale and sandy lime	26	1,685		
Lime black and brown	131	1,816		
Black slate and shells	84	1,900		
Sandy lime	10	1,910		
Lime and chert	62	1,972		

THICKNESS DEPTH

(FEET)

(FEET)

## **BURNET COUNTY**

## Table 2.-Selected Oil, Gas, and Stratigraphic Tests

## D, Drillers'; E, Electric. Logs in Texas Water Development Board files

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
вт-58-01-301	E. A. Dunnam	John Hunt No. 1	1958	1,245	915	E
302	E. A. Dunnam and Henson Drilling Co.	Day No. 1	1955	4,793	909	E
601	Parker Petroleum Co. Inc.	Williams No. 1	1956	3,559	968	E
602	Bur-Tex Oil Co.	W. C. Dillingham No. 1	1929	1,071	1,065	D

## **BURNET COUNTY**

## Table 3.--Drillers' Logs of Selected Wells

THICKNESS DEPTH (FEET) (FEET)

Well BT-57-08-801

Owner: Bill Bryson Driller: Twin City Oil and Gas Co. (Complete log not shown)

THICKNESS	DEPTH
(FEET)	(FEET)

Well BT-57-15-740

Owner: M. K. Orman Driller: Smart Drilling and Supply

(Complete log not shown)					
White and yellow clay	25	25			
White soft lime	15	40			
Gray hard lime	22	62			
Gray lime and shells	63	125			
Gray clay and shells	115	240			
Gray sand (water at 264 ft)	80	320			
White soft sand	26	346			
Gray hard lime	10	356			
Gray shale	10	366			
Gray shells	14	380			
Red clay	5	385			
Gray hard shells	40	425			
Gray sand (water at 435 ft)	20	445			
White hard lime	15	460			
'Black hard lime	28	488			
Black soft slate	5	493			
Black hard lime	57	550			
Black soft slate	25	575			
Brownish gray lime coarse	15	590			
Light gray lime fine	60	650			
White sandy lime fine	25	675			
White soft lime coarse	25	700			
White lime fine	105	805			
Light gray lime coarse	45	850			
Light gray lime medium	5	855			
Brownish grayish lime coarse	20	875			
White lime fine	40	915			
Brownish gray lime	25	940			
Gray lime medium	10	950			
Brownish gray lime medium	45	995			
Brownish gray lime coarse	35	1,030			
Gray lime medium	20	1,050			
Brownish gray coarse	22	1,062			
Light brownish gray lime medium	18	1,090			
Gray fine lime	3	1,093			

Yellow clay	14	14
Gray shale	8	22
Soft sandy	3	25
Gray sandy rock	5	30
Sandy shale	10	40
Hard rock	2	42
Soft	3	45
Sandy rock	10	55
Hard and soft sandrock	15	70
Red bed	15	85
White rock	5	90
Gravel granite	5	95
Hard rock	5	100
Yellow	13	113
Hard - water	7	120
Hard	8	128

### Well BT-57-16-801

Owner: Burnet County WCID No. 1 Driller: Wright Drilling Co.

No record	310	310
Sand	5	315
Sand	115	430
Good sand	30	460
Cap rock	8	468
Sand	5	473
Cap rock	29	502
Sand	5	507

### Well BT-57-24-101

Owner: City of Bertram Driller: Wright Drilling Co.

Black loam top soil	2	2
White limestone	4	6
Caliche	15	21
White limestone	10	31
Blue shale	16	47
Sugar sand - some water	17	64

lable 3	-Drillers Logs	or Selected	Wens in Barnet County - Fina		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BT-57-24-101Co	ntinued		Well BT-57-24-202-	Continued	
Blue shale	7	71	Soft sandy shale	10	300
Layers of limestone		025	Broken formations	25	325
and shale	164	235	Green shale	2	327
Dry sand	5	240	Fine sand - little water	8	335
Shale	16	256		3	338
Coarse sand and water	11	267	Gray sandy shale		
Shale	23	290	Water sand - rock ledges	22	360
Sand	6	296	Coarse water sand -	10	370
Layers of sand and limestone	52	348	crystal rock	13	383
Limestone	47	395	Green sandy shale	15	000
Sand rock	45	440	Shell bed - crystal rock	2	385
Coarse sand	11	451	Green shale - shells	-	390
Gray shale	29	480	- sticky	5	
Gray shale			Light green sandstone	10	400
Well BT-57-24	-202		Coarse sand	2	402
Owner: Burnet County Driller: Layne Te	WCID No. 1 exas Co.		Green sandstone - crystal rock	31	433
Top soil	1	1	Hard sandstone	7	440
White limestone	16	17	Crystal rock with some shale	13	453
Soft gray shale	3	20	Hard blue lime rock	4	457
Rock ledges, sand shale	32	52	Sticky green shale	12	469
Green sandy shale	7	59			
Water sand, very fine	10	69	Well BT-57-	24-204	
Sand rock	1	70	Owner: City o Driller: Un		
Shale rock ledges - 6 in. thick	8	78	White limestone, water	33	33
Hard shell bed	3	81	White limestone	6	39
Broken formation -	••	450	White limestone and shale	40	79
shale rock	69	150	Fine grain sand, water	11	90
Sand shale	5	155	Shale, limestone	160	250
Broken formation shale shell beds	70	225	Gray limestone	73	323
Hard rock	7	232	Blue shale	20	343
Sandy shale	5	237	Gray limestone	62	405
Shell beds	7	244	Gray mud	5	410
Crystal rock (white)	16	260	Hard rock	5	415
Shell and shale	15	275	Break	1	416
Hard rock	5	280	Gray limestone	22	438
Sticky shale	4	284	Gray limestone	9	447
Crystal rock	6	290	Fine grain water sand	3	450
-					

DEPTH

(FEET)

1,410

1,427

1,767

2,395

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)
Well BT-57-24-204	-Continued		Well BT-57-24-204	4Continued
Dark gray limestone	10	460	Hard shale and rock	10
Water	4	464	Soft shale	17
Dark gray limestone	6	470	Hard shale	340
Shale, limestone	15	485	Schist (core showed	
Dark gray limestone	10	495	quartzite)	628
Green shale	8	503	Well BT-5	8-01-501
Shale and limestone	30	533	Owner: Ra	
Red bed	27	560	Driller: Central Texa	
Brown limestone	8	568	Soil and alluvium	20
Gray limestone	37	<b>60</b> 5	Limestone (Glen Rose)	86
Tan colored	35	640	Sand (Hensell)	22
Red shale and limestone	10	650	Very hard limestone (Ellenberger or	
Dark limestone	4	654	Cow Creek)	2
Shale caves badly	141	795	Well BT-5	8-01-502
Hard shale	35	830	Owner: R	•
Hard shale with soft spots	60	890	Driller: Central Tex	
Sandy shale	15	905	Soil	5
Sandy rock	15	920	Clay and caliche	10
Lead soft and sticky	2	922	Loose caving gravel	6
Blue rock	З	925	Limestone and dolomite	55
Sticky shale	6	931	Limestone with breaks of fine sand	24
Boulders and shale	17	948	Limestone with 1 to	
Shale	3	951	2 in. cavities	33
Boulders and shale	5	956	Well BT-5	58-01-503
Hard and soft shale	134	1,090		ay Cowan
Sandstone and shale	25	1,115		as Drilling Co., Inc.
Shale	19	1,134	Soil	10
Hard shale	4	1,138	Gravel	15
Shale	12	1,150	Blue shale	9
Slate and shale	10	1,160	Lime	56
Shale	30	1,190	Broken limestone (water)	35
Slate and shale	10	1,200	Limestone	20
Shale and slate	61	1,261	Well BT-	58-01-602
Hard rock	13	1,274		C. Dillingham
Shale and slate	46	1,320	Driller: Bur	-Tex Oil Co.
Hard rock	9	1,329	Surface soil	5
Sandy shale	21	1,350	Light gray lime	335
Hard sandy shale	50	1,400	Dark gray lime	5
-				

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well BT-58-01-602-0	Continued		Well BT-58-01-602-	Continued	
Gray water sand, contains water	10	355	Hard conglomerate lime, beds of large gravel	5	592
Light gray lima, shows oil asphalt	5	360	Hard brown and gray sand, contains water	8	600
Hard gray lime	40	400	Conglomerate of sandy lime, beds of large		
Lime and shale	60	460	gravel	28	628
Green sandy shale	5	465	Red mud	7	635
Gray lime	7	472	Dark gray shale	22	657
Glassy water sand had a thin streak			Hard gray sand (dry)	39	696
of gray sand at 500 ft., shows oil	43	515	Hard black shale	14	710
Light gray lime	28	543	Hard gray sand, contains small amount water	16	726
Gray sand (dry)	5	548	Hard black shale,		
Gray lime	12	560	small showing oil at 757 ft	345	1,071
Red sandy shale, shows rainbows	27	587			

## CALLAHAN COUNTY

## Table 2.-Selected Oil, Gas, and Stratigraphic Tests

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
BX-30-46-901	Frank Ausanka, et al.	Caldwell No. 2	1954	2,781	2,194	Е
54-301	Star Oil Co.	Caldwell No. A-1	1949	1,808	2,037	E
55-301	Sunray Oil Co.	C. E. Aspin No. 1	1948	4,151	1,994	E
601	Irvin Producing Co. and Western Natural Gas Co.	Ben Lester No. 1	1960	2,850	1,793	E
<b>70</b> 1	Harding Brothers	Cornelouis No. 1	1954	1,790	1,797	E

# CALLAHAN COUNTY

## Table 3.-Drillers' Logs of Selected Wells

			-		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
v	Nell BX-30-55-502		Well BX-30	-55-913	
	Owner: W.A. Gill er: J and L Drilling Co.		Owner: City of Driller: J and L		
Sill	2	2	Caliche and gravel	15	15
Pack sand	18	20	Yellow sandy clay	25	40
Sand water	20	40	Sand with some gravel	20	60
Shale	8	48	Red shale	10	70
Shale					

## COMANCHE COUNTY

## Table 2.-Selected Oil, Gas, and Stratigraphic Tests

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
DY-31-57-607	Lone Star Gas Co.	J. C. Watkins No. 1	1940	2,796	1,590	S
41-02-602	Frank Gilliam	C. C. Ross No. 1	1950	2,589	1,490	E
604	John W. Bartlett	D. E. Steel No. 1	1955	2,714	1,480	R
03-501	Orville H. Parker	Ferrill No. 1	1949	2,870	1,508	E
11-201	Texas Crude Oil	Dudley Ranch No. 1	1950	2,775	1,704	S
301	Sun Oil Co.	E. E. Bryson No. 1	1929	3,135	1,520	D
411	Lloyd N. Smith	Gail Dudley No. 1	1950	2,684	1,834	E
802	Humble Oil and Refining Co.	J. M. Foreman No. 1	1955	4,380	1,667	E
901	Jack C. Staley, et al.	R. M. Ratlife No. 1	1955	3,005	1,654	E
13-501	J. J. Lynn	R. E. Manning No. 1	1949	4,002	1,176	E
14-401	Humble Oil and Refinin <b>g</b> Co.	Macksville Oil Unit	1956	4,300	1,126	E
19-301	United North and South Development Co.	J. B. Aldridge, et al. No. 1	1950	4,913	1,680	E
20-201	Humble Oil and Refinin <b>g</b> Co.	Mrs. Frankie W. Durham No. 1	1957	3,319	1,445	E
21-301	Placid Oil Co.	Pettit No. 1	1942	3,276	1,445	E

## COMANCHE COUNTY

## Table 3.-Drillers' Logs of Selected Wells

	(FEET)	(FEET)		(FE
Well DY-31-5	51-308		Well DY-31-51	-604-Continued
Owner: Robert Driller: Continental Wa			Sand and gravel Yellow clay	
Sand - sandy clay	20	20	Pink clay	
Sand - sandstone	40	60	Blue shale	
Blow - sand	50	110		
Sand - sandstone	32	142	Well (	DY-31-51-605
Sandstone	18	160		r:R.A.Barnett Box Drilling Contra
Well DY-3	1-51-309		Soil	
Owner: Robert C. Atchison Driller: Continental Water Well Drilling Co.			Sand	
			Sandstone	

THICKNESS DEPTH

Sand	15	15
Sandy clay	21	36
Sand	74	110
Sand - gravel	5	115
Sand - sandstone	67	182
Gray sandstone	15	197
Blue shale	3	200

## Well DY-31-51-603

Owner: George Wa Driller: N. L. Box Drilling		
Soil	3	3
Yellow clay	3	6
Sand	9	15
Gravel and clay	30	45
Yellow clay	10	55
Blue shale	1	56

## Well DY-31-51-604

## Owner: George Warren Driller: N. L. Box Drilling Contractor

Soil	3	3
Sand and clay	16	19
Gravel	4	23
Lime	2	25

_		
Yellow clay	2	46
Pink clay	10	56
Blue shale	2	58
Well DY-31-51-	605	
Owner: R. A. Baı Driller: N. L. Box Drillin		
Soil	3	3
Sand	7	10
Sandstone	5	15
Sand	12	27
Water gravel	12	39
Sand and clay	14	53
Gravel	18	71
Yellow clay	3	74
Blue shale	1	75

THICKNESS DEPTH

(FEET)

19

(FEET)

44

### Well DY-31-51-608

## Owner: Mrs. Rainey Driller: Robert Lee-Bob-Barnhill

Topsoil - sand	2	2
Shale, yellow	31	33
Sand rock - white	2	35
Shale, yellow	7	42
Sand, soft white, water	22	64
Red shale	11	75
Coarse sand (water)	16	91
Yellow shale	14	105

## Well DY-31-51-609

## Owner: R. A. Barnett Driller: N. L. Box Drilling Contractor

Soil	5	5
Sand - water (10 gpm)	7	12
Lime	2	14

	THICKNESS (FEET)	DEPTH (FEET)			DEPTH
Well DY-31-51-609-Cor		•	Well DY-31-61-612	-Continued	
Sand and gravel	14	28	Sand and gravel	25	38
Lime	8	36	Blue and yellow clay	7	45
Broken lime and gravel	16	52	Well DY-31	F1 613	
Gravel	14	66	Owner: Arno		
Tight coarse sand	6	72	Driller: Continental Wa		
Blue shale	6	78	Sand	3	3
			Clay	9	12
Well DY-31-51-0			Sand - gravel - (water)	8	20
Owner: R. A. Ba Driller: N. L. Box Drillin			Sandstone	2	22
Sand	10	10	Clay	2	24
Water sand	10	20	Sandstone - clay stringers	4	28
Tight gravel	4	24	Clay	10	38
Lime	2	26	Sandstone	26	64
Tight gravel	8	34	Blue shale	2	66
Tight sand	4	38	Sandstone	22	88
Tight sand and gravel	22	60	Blue shale	12	100
Blue shale	3	63	Well DY-3	1-51-805	
Well DY-31-51	-611		Owner: Ray Williams		
Owner: R. A. Ba			Driller: Sam H. Smith Sand	3	3
Driller: N. L. Box Drillin		6	Clay	7	10
Sand	6	12	Sand and gravel	2	12
White sand - little water	6		Sandy clay	83	95
Lime and sand	12	24 26	Conglomerate	65	160
Gravel	2	28 43	Clay	10	170
Tight sand and gravel	17	43 54			
Tight sand and gravel	16	70	Well DY-3	1-51-806	
Sand and gravel	5	75	Owner: J. Driller: M. and		
Blue shale	5	75	Red sandy clay	15	15
Well DY-31-51	-612		Yellow clay	25	40
Owner: George			Water sand	15	55
Driller: N. L. Box Drilli	ng Contractor	2	Sand and shale	10	65
Soil	6	8	Clay	5	70
Clay	5	13	Blue shale	58	128
Sandstone	C	13			

Table 3.—Drillers' Logs of Selected Wells in Comanche County—Continued							
	THICK (FE	(NESS ET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)	
Well	DY-31-51-806–Continued			Well DY-31-52-405—Continued			
Sand		12	140	Sand - water- 30 gpm	8	15	
Broken sand		10	150	Lime	1	16	
Sand		15	165	Red shale	4	20	
Blue shale		10	175	Sand - water - 20 gpm	25	45	
Blue gumbo shale		55	230	Small gravel - 35 gpm	7	52	
Black shale		6	236	Blue shale	6	58	
Sandy lime		14	250	W-H DV 21 52	406		
Shale		1	251	Well DY-31-52			
				Owner: Herman Driller: Lightfoot an			
	Well DY-31-52-403			Soil	1	1	
	Owner: Cedric Bettis Driller: A. L. Varner			Yellow and blue clay	16	17	
Sand		3	3	Lime	5	22	
Clay		12	15	Red clay	14	36	
Sand and gravel		5	20	Sand and gravel (water)	10	46	
Red bed		32	52	Lime	4	50	
Lime		11	63	Sand and gravel (water)	10	60	
Water sand and gr	avel	5	68	Sandy lime	2	62	
Lime		4	72	Sandy and gravel (water)	5	67	
Sand and gravel		8	80	Red clay	3	70	
Lime		5	85	Yellow and blue clay	10	80	
Yellow clay		10	95				
				Well DY-31-5			
	Well DY-31-52-404			Owner: Hermar Driller: Ardean Kimmell	n Gilder Irrigation Service		
	Owner: Cedric Bettis Driller: A. L. Varner			Surface	6	6	
Sand		3	3	Sandy shale	12	18	
Clay		22	25	Sand and gravel	17	35	
Sand		20	45	Sand	13	48	
Sand and gravel		15	60	Hard sand	8	56	
Yellow clay		9	69	Gravel	11	67	
Blue shale		1	70	Conglomerate	11	78	
	Well DY-31-52-405			Well DY-31-	52.408		
	Owner: Herman Gilder Driller: Lightfoot and McCr	um		Owner: N. B. C Driller: Lightfoot ;	Gilbreath		
Soil		3	3	Sandy soil	2	2	
Red and blue cla	ау	4	7	Blue sand, clay	18	20	

THICKNESS (FEET)		THICKNESS (FEET)	
(FEET)	(FEET)	(FEET)	(FEE

## Well DY-31-52-408-Continued

Water sand	4	24
Sandy lime	2	26
Red clay	2	28
Sandy blue clay	6	34
Red bed	14	48
Lime	2	50
Blue sandy clay	10	60
Gravel (water)	11	71
Yellow clay	9	80

## Well DY-31-52-409

## Owner: N. B. Gilbreath Driller: Lightfoot and McCrum

Sand	1	1
Red and blue clay	17	18
Water sand	7	25
Lime	2	27
Red sandy clay	8	35
Red bed	5	40
Sand	5	45
Red bed	10	55
Blue and white clay	5	60
Sand and gravel (water)	13	73
Yellow and blue clay	11	84

#### Well DY-31-52-410

## Owner: N. B. Gilbreath Driller: Lightfoot and McCrum

Red and blue clay	7	7
Blue sandy clay	8	15
Lime	2	17
Sandy clay (red)	10	27
Red clay	8	35
Sand	7	42
Red bed	13	55
Sand and gravel (water)	16	71
Yellow clay	9	80

Well DY-31-52-5	01
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## Owner: N. L. Box Driller: N. L. Box Drilling Contractor

Soil and clay	10	10
Red bed	20	30
Sand	12	42
Water gravel	6	48
Lime	2	50
Hard lime	3	53
Broken lime	5	58
Water gravel	6	64
Yellow clay	6	70
Sandstone	7	77
Yellow clay	13	90

## Well DY-31-52-502

### Owner: Clarence Craig Driller: N. L. Box Drilling Contractor

Sand and sandstone	11	11
Water sand	3	14
Red clay	16	30
Sand and clay	12	42
Sand and white clay	13	55
Tight sand (water)	17	72
Water gravel	13	85
Yellow clay	6	91

## Well DY-31-52-503

### Owner: N. L. Box Driller: N. L. Box Drilling Contractor

Sand and clay	20	20
Water sand	3	23
Red bed	17	40
Sand	5	45
Sand, clay, and lime	15	60
Sand, gravel, and lime	20	80
Yellow and blue clay	3	83

	-				
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-5	2-504		Well DY-31-52-507-	Continued	
Owner: Clyde Setzler		Sandy clay	2	61	
Driller: N. L. Box Dril	ling Contractor		Sand and gravel (water)	3	64
Red clay	32	32	Clay	1	65
Sand, dry	5	37		F0 00F	
Water sand and gravel	27	64	Well DY-31-		
Yellow clay	10	74	Owner: B. E. Driller: J. T.		
Well DY-31-5	52-506		Soil	5	5
Owner: Georg			Dry sand	30	35
Driller: Alford Ja			Water sand	35	70
Topsoil	4	4	Clay	18	88
Red clay	29	33	Well DY-31-	52-606	
Sand	10	43	Owner: B. E.		
Soapstone	3	46	Driller: Lightfoot		
Sand and gravel (water)	6	52	Red clay	15	15
Yellow clay	3	55	Sandy clay	10	25
Red shale	6	61	Sand (hard)	5	30
Yellow clay	9	70	Lime	3	33
Sandy oil shale	3	73	Sand	5	38
Blue shale	14	87	Water sand	40	78
Well DY-31-	52-507		Yellow clay	4	82
Owner: Georg Driller: Alford J			Blue shale	22	104
Topsoil	2	2	Well DY-31	-52-607	
Sandy clay	5	7	Owner: B. E. Driller: J. T.		
Dry sand	3	10	Soil	2	2
Rock	1	11	Clay	10	12
Yellow clay	5	16	Sandy shale	10	22
Red clay, shale	5	21	Lime	5	27
Dry sand	3	24	Sand	13	40
Yellow clay	3	27	Lime	5	45
Rock	2	29	Water sand	40	85
Red shale	5	34	Clay and shale	10	95
Dry sand	5	39	,		
Sand and gravel (water)	7	46	Well DY-31	-52-609	
Soapstone	2	48	Owner: C. H Driller: Robert Le		
Red shale	5	53	Sand and gravel, water	28	28
Soapstone	3	56	Hard sand	2	30
Sand (water)	3	59	Gravel, water	13	43

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-609-Con	ntinued	
Red shale	11	54
Sand and shale	9	63
Sand	24	87
Red shale	3	90
Gravel	8	98
Hard sand	8	106
Shale	25	131

## Well DY-31-52-610

#### Owner: B. E. Hanson Driller: Lightfoot and McCrum

•		
Red clay	15	15
Sandy clay	10	25
Sand - hard	5	30
Lime	з	33
Sand	5	38
Water sand	40	78
Yellow clay	4	82
Blue shale	22	104

#### Well DY-31-52-611

## Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service 2

(Sand

<b>(</b>		
Brown shale	4	6
Sand	9	15
Gravel	20	35
Sand	10	45
Gravel	11	56
Hard gravel	4	60
Brown shale	10	70
Blue shale	7	77

## Well DY-31-52-612

#### Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service

Surface	5	5
Brown shale	5	10
Gravel	8	18
Sand	9	27
Gravel	9	36

Well DY-31-52-612—Continued		
Brown shale	22	58
Light blue shale	7	65
Sand	8	73
Gravel	9	82
Brown shale	10	92

DEPTH

(FEET)

THICKNESS

(FEET)

## Well DY-31-52-613

#### Owner: L. V. Park Driller: Ardean Kimmell Irrigation Service

Sand	4	4
Conglomerate	5	9
Sand	36	45
Shale	4	49
Hard gravel	4	53
Shale	17	70
Sand	22	92
Brown shale	4	96
Sand	9	105
Hard sand	3	108
Light blue shale	8	116

### Well DY-31-52-701

#### Owner: R. Robinson Driller: N. L. Box Drilling Contractor

Clay, sand, and sandstone	21	21
Red bed	26	47
Sand - little water	7	54
Sand and gravel	13	67

#### Well DY-31-52-704

#### Owner: Claude DeVoll Driller: Lightfoot and McCrum

Red clay	15	15
Blue sandy clay	10	25
Sandy lime	1	26
Blue clay	4	30
Lime	2	32
Sand	15	47
Sand (water)	10	57
Sandy lime	4	61
Gravel (water)	11	72
Blue clay	8	80

THICKNESS	DEPTH
(FEET)	(FEET)

## Well DY-31-52-705

## Owner: Claude DeVoll Driller: Lightfoot and McCrum

Red clay	20	20
Sandy clay (red)	4	24
Lime	1	25
Sand	18	43
Lime	1	, 44
Sand (water)	16	60
Lime	1	61
Red sandy clay	10	71
Sand and gravel (water)	36	107
Yellow clay	9	116
Blue clay	3	119

## Well DY-31-52-707

## Owner: Dale George Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Gravel	4	6
Shale	6	12
Sand and gravel, water at 26 ft	18	30
Sand	22	52
Sand, rock	1	53
Sand, soft	14	67
Hard sand	1	68
Gravel	7	75
Shale	7	82

## Well DY-31-52-708

## Owner: Dale George Driller: Robert Lee-Bob-Barnhill

Soil 2	2
Gravel 5	7
Sandy shale 5	12
White shale 16	28
Sand and water 7	35
Red sand 9	44
Sand, red - oil 1	45
Sand 7	52
Sand, rock 1	53

Well DY-31-52-708-Continued		
Sand	11	64
Sand, rock	2	66
Sand	3	69
Gravel	9	78
Shale	7	85

THICKNESS

(FEET)

DEPTH (FEET)

## Well DY-31-52-709

## Owner: Dale George Driller: Lightfoot and McCrum

Sand	21	21
Red clay	11	32
White sand	13	45
Hard sand	4	49
Sand	11	60
Red clay	3	63
Gravel and sand (water)	16	79
Sand (water)	6	85
Sandy lime	12	97
Blue sandy clay	6	103
Blue shale	7	110

#### Well DY-31-52-801

## Owner: Cedric Bettis Driller: N. L. Box Drilling Contractor

Sand and clay	26	26
Water sand	5	31
Red bed	10	41
Sand and clay	9	5 <b>0</b>
Sand	6	56
Coarse sand	9	65
Coarse sand	17	82
Red bed	2	84
Lime and gravel	9	93
Coarse sand	8	101
Yellow clay	6	107

## Well DY-31-52-802

## Owner: E. Joiner Driller: N. L. Box Drilling Contractor

Sand and clay	12	12
Sand and gravel, dry	8	20

Table 3.–Dr	illers' Logs of	Selected	VV 6113 1
	THICKNESS (FEET)	DEPTH (FEET)	
Well DY-31-52-802Con	tinued		
Sand and clay	13	33	S
Red clay	2	35	ŀ
Sand, water	8	43	5
Lime	2	45	5
Sand and wet clay - 6 gpm	12	57	I
Broken lime	3	60	(
Red clay	20	80	I
Blue and red clay	5	85	
Sand and clay	3	88	
Sand and gravel	9	97	
Water gravel, bailed 40 gpm	7	104	
Yellow clay	3	107	
Well DY-31-52-	803		
Owner: Cedric E Driller: A. L. Va			
Soil and sand	4	4	
Clay and gravel	8	12	
Sand	10	22	
Red bed	26	48	
Broken lime	10	58	
Lime	2	60	
Sand and gravel	29	89	
Yellow clay	6	95	
Clay	2	97	
- ·			

## Well DY-31-52-804

## Owner: John W. Boswell Driller: Johnny Weir Drilling

Sand	2	2
Clay	12	14
Dry sand	26	40
Sand and gravel	5	<b>4</b> 5
Hard	5	50
Clay	5	55
Hard	5	60
Clay	5	65
White and gray water sand	9	74
Hard	6	80
Clay	10	90

	(FEET)	(FEET)
Well DY-31-52-804-Co	ontinued	
Sand and small gravel	5	95
Hard	2	97
Sand	10	107
Sand and gravel	12	119
Hard	5	124
Gravel	5	129
Hard	4	133
Clay	7	140

DEPTH

THICKNESS

## Well DY-31-52-805

Owner: John W. Boswell Driller: Johnny Weir Drilling

Sand	5	5
Red clay	7	12
White clay	23	35
White sand and gravel (little water)	10	45
Red clay	10	55
Hard	5	60
Red clay	18	78
Hard	3	81
Red clay	17	98
Sand and gravel	13	111
Hard	3	114
Sand and gravel	8	122
Clay	9	131

## Well DY-31-52-806

Owner: John W. Boswell Driller: Johnny Weir Drilling

Sand	15	15
Hard sand	10	25
Sandy clay	10	35
Red and pink clay	12	47
Sand (dry)	13	60
Sand (little water)	14	74
Sand	7	81
Hard	3	84
Red clay	6	9 <b>0</b>
Sand - small gravel	11	101
Hard	3	104

	liers Lugs of	00100104	······································		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-52-806-Cont	inued		Well DY-31-52-906-	-Continued	
Clay	5	109	Brown shale	7	80
Gravel	14	123	Sand and gravel	23	103
Gravel	17	140	Sand	11	114
Clay	6	146	Well DY-31	-52-907	
Well DY-31-52-9	<b>1</b> 1		Owner: Ray	Joiner	
Owner: R. L. Geo			Driller: Johnny		
Driller: N. L. Box Drilling	Contractor		Soil	5	5
Sand and gravel	18	18	Gravel	15	20
Water, sand and gravel	16	34	White clay	10	30
White clay	5	39	Gray sand	10	40
Red bed	8	47	Lime rock	10	50
Lime, sand, and	47	64	Red clay	20	70
white clay	17		Lime	5	75
Water sand	5	69	Gravel	9	84
Coarse sand	4	73	Lime	6	90
White clay	3	76	Red sand and gravel	5	95
Coarse sand	6	82	Lime, very hard	5	100
Broken lime	15	97	Gravel	3	103
Purple clay	5	102	Clay	7	110
Well DY-31-52-	903		Well DY-3	1-52-908	
Owner: R. L. Ge Driller: N. L. Box Drillin	orge g Contractor		Owner: Ra Driller: Johnny		
Sand and gravel	16	16	Soil	5	5
Yellow clay	14	30	Sand and gravel	10	15
Light blue clay	16	46	Lime	8	23
Water sand	20	66	Sand	12	35
Sand and gravel	11	77	Lime	25	60
Water sand	16	93	Red clay	25	85
Blue shale	8	101	Gravel	9	94
Well DY-31-52	906		Hard lime	4	98
Owner: Alvis Kir	nmell		Gravel	2	100
Driller: Ardean Kimmell Ir	rigation Service	•	Yellow and blue clay	11	111
Sand	2	2			
Brown shale	8	10	Well DY-3		
Sand and gravel	17	27	Owner: Ard Driller: N. L. Box I		
Sand	8	35	Clay and gravel	14	14
Shale, gray	22	57	Sand and clay	4	18
Sand	16	73	Red bed	4	22

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-407-Cor	itinued	
Sand and clay (little water)	5	27
Sand and gravel, 12 gpm	5	32
Sand and clay	12	44
Water sand and white clay	16	60
Water gravel (bailed 60 gpm)	21	81
Broken lime	11	92
Hard lime and gravel	4	96
Hard broken sand	12	108
Hard sand	10	118
Blue shale	2	120
Well DY-31-53-408		
Owner: Ardean Kimmell Driller: Ardean Kimmell Irrigation Service		
<b>•</b> • • •		

Sand and clay	28	28
Fine sand	2	30
Fine sand	30	60
Medium sand - clay	12	72
Coarse sand and gravel	20	92

## Well DY-31-53-409

Owner: Alvis Kimmell Driller: Ardean Kimmell Irrigation Service		
Sand	2	2
Red clay	6	8
Gravel	11	19
Sand, rock	5	24
Red clay	6	30
Sand, hard	15	45
Sand, soft	40	85
Gravel	15	100
Shale	3	103

## Well DY-31-53-410

Owner: Ardean Driller: Ardean Kimmell		
Surface	6	6
Gravel	5	11
Heavy sand	8	19
Brown shale	11	30

	(FEET)	(FEET)
Well DY-31-53-410-C	ontinued	
Water sand - soft	35	65
Hard sand	14	79
Sand and gravel	6	85
Brown shale	12	97
Blue shale	2	99

THICKNESS DEPTH

## Well DY-31-53-414

#### Owner: Ardean Kimmell Driller: Ardean Kimmell Irrigation Service

	igation Service	
Surface	3	3
Red clay	3	6
Sand and gravel	19	25
Sand and shale	10	35
Gravel	3	38
Brown shale	17	55
Sand	37	92
Gravel	13	105
Shale (blue)	10	115

## Well DY-31-53-701

## Owner: James D. Gardner Driller: N. L. Box Drilling Contractor

	g oontraotor	
Sand, gravel, clay	30	30
Red and blue clay	8	38
Sand and clay	5	43
Sandstone and clay	24	67
Broken lime	7	74
Water sand and lime	13	87
Gray lime	5	92
Water gravel	5	97
Lime	2	99
Gravel and blue clay	11	110
Yellow and red clay	6	116

## Well DY-31-53-702

## Owner: James D. Gardner Driller: N. L. Box Drilling Contractor

No record	93	93
Lime and sand	7	100
Gravel	7	107
Blue clay	4	111

	THICKNESS	DEPTH		THICKNESS	DEPTH
	(FEET)	(FEET)		(FEET)	(FEET)
Well DY-31-53-702C	ontinued		Well DY-31-53-719-0	Continued	
Yellow and red clay	2	113	Lime	2	41
Yellow and blue clay	7	120	Sand and clay	19	60
Well DY-31-53	3-704		Water sand	19	79
Owner: James D.			Lime	2	81
Driller: N. L. Box Drilli			Hard sand, little gravel	4	85
Sand, clay, and gravel	18	18	Lime and gravel	6	91
Dry gravel	21	39		7	98
Water gravel	2	41	Lime and clay	13	111
White clay	6	47	Gravel	3	114
Broken lime	13	60	Lime	4	118
Red bed	3	63	Yellow clay	-	
Red, blue shale	22	85	Well DY-31-	53-720	
and lime	15	100	Owner: Deryl		
Sand water	5	105	Driller: Lightfoot	4	4
Sand and clay	5 12	117	Soil	22	26
Broken lime		123	Sand and gravel	4	30
Sand and gravel	6		Lime		
Lime	2	125	Red clay	15	45
Yellow clay	5	130	Sand and water gravel	12	57
Well DY-31-5	3-705		Lime	1	58
Owner: James D			Water gravel 10		68
Driller: N. L. Box Dril			Lime	1	69
Sand and clay	8	8	Water gravel	17	75
Sand and gravel, seep at 39 ft	31	39	Blue green clay	2	77
White clay and lime	16	55	Water sand and gravel	21	98
Red, blue shale			Yellow and blue clay	18	116
and lime	29	84	Well DY-31	-53-721	
Water sand	9	93	Owner: Dale	Johnson	
Blue clay	4	97	Driller: Lightfoot	and McCrum	
Water gravel	24	121	Soil	1	1
Yellow clay	5	126	Clay (red)	2	3
Well DY-31-	53-719		Caliche	5	8
Owner: James [	). Gardner		Sandy clay, white	12	20
Driller: N. L. Box Dr			Sand	5	25
Sandy clay	6	6	Sand and gravel (water)	15	40
Gravel and sand,	21	27	Red bed	11	51
little water	7	34	Sandy lime	1	52
Sand and clay	, 5	39	Sandy clay, white	8	60
Sand water	5				

			•		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-721-0	Continued		Well DY-31	-53-726	
Sand (water)	37	97	Owner: P. R		
Blue clay	8	105	Driller: N. L. Box Di		
Well DY-31-5	3-722		Soil and clay	10	10
Owner: Dale J			Sand clay	5	15
Driller: Lightfoot a			Gravel	15	30
Sand and gravel	34	34	Red bed	3	33
Red clay	28	62	Blue clay	7	40
Sand and gravel (water)	14	76	Sand and water	10	50
Sandy lime	2	78	Sandstone, hard	7	57
Sand and gravel (water)	8	86	Sand and gravel	38	95
Blue green clay	2	88	Blue shale	7	102
Gravel (water)	17	105	Well DY-31	-53-727	
Blue clay	7	112	Owner: P. R Driller: N. L. Box Dr	. George illing Contractor	
Well DY-31-5	3-724		Sand and clay	8	8
Owner: Alvis K Driller: Ardean Kimmell			Sandy clay	12	20
Surface	5	5	Gravel and sand - little water	10	30
Sand and gravel	15	20	Red bed	3	33
Sand	6	26	Gravel and clay	12	45
Brown shale	16	42	Sand and gravel	20	65
Conglomerate	5	47	Hard sandstone	13	78
Brown shale	11	58	Gravel and sand	17	95
Sand	15	73	Blue shale	7	102
Conglomerate	4	77	Well DY-31-	53-728	
Gravel	8	85	Owner: William	L. Owens	
Conglomerate	11	96	Driller: N. L. Box Dri	lling Contractor	
Well DY-31-5;	3.725		Soil	1	1
Öwner: Alvis K			Clay and gravel	15	16
Driller: Ardean Kimmell I			Sand and clay	6	22
Surface	5	5	Yellow clay	2	24
Gravel	10	15	Sand and clay	8	32
Yellow clay	5	20	Water sand	28	60
Brown shale	12	32	Gravel and clay	21	81
Sand	8	40	Purple clay	2	83
Brown shale	16	56	Well DY-31-	53-729	
Sand	8	64	Owner: William		
Hard gravel	10	74	Driller: N. L. Box Dril Soil and clay		_
Brown shale	6	80	Lime	3	3
				2	5

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-53-729Con	tinued	
Gravel and clay	7	12
Sand (water at 20 ft)	13	25
Gravel	7	32
Gravel and clay	31	63
Purple clay	3	66

## Well DY-31-53-730

#### Owner: Dale Johnson Driller: Lightfoot and McCrum

Soil	1	1
Red clay	8	9
Sand and gravel	21	30
Water sand and gravel	5	35
Sand	11	46
Red bed	9	55
Sand	29	84
Blue green clay	1	85
Sand and gravel	18	103
Blue shale	7	110

## Well DY-31-53-731

### Owner: Deryl Johnson Driller: Lightfoot and McCrum

_		
Soil	1	1
Sand	26	27
Sandy lime	4	31
Red bed	9	40
Water sand and gravel	30	70
Blue green clay	2	72
Sand and gravel	16	88
Sandy lime	2	90
Sand and gravel	6	96
Blue shale	6	102

## Well DY-31-57-605

### Owner: Oscar White Driller: Windham and Michael 10 Surface soil 4 Shale 8 Sandy shale 38

Dry sand

Well DY-31-57-605Continued			
Water sand	20	80	
Gravel	5	85	
White shale	6	91	
Gravel	12	103	
Gray lime	2	105	

DEPTH

(FEET)

THICKNESS

(FEET)

## Well DY-31-58-703

Owner: T. E. Simonton Driller: T. E. Simonton

Surface soil, sand	5	5
Shale	25	30
Sand	10	40
Shale	10	50
Sand	16	66
Gravel	2	68

## Well DY-31-59-203

#### Owner: Dean Pounds Driller: Carl A. Taylor

Soil	15	15
Sand rock	10	25
Sand and sand rock ledges	13	38
Sand rock	17	55
Conglomerate	20	75

#### Well DY-31-59-204

Owner: Dean Pounds Driller: Carl A. Taylor

Soil	16	16
Sand rock	9	25
Crushed lime, soft	15	40
Sand rock	15	55
Conglomerate	20	75

## Well DY-31-59-301

#### Owner: Tom Johnson Driller: N. L. Box Drilling Contractor

Sand	10	10
Water sand	2	12
Red bed	8	20
Blue shale	109	129
Sandy lime	14	143

10

14

22

THICKNESS	DEPTH	THICKNESS	DEPTH
(FEET)	(FEET)	(FEET)	(FEET)
		Well DY-31-59-307	

•		-		
Blue shale		24	167	
Water sand		46	213	s
Blue shale		6	219	F
	Well DY-31-59-303			L
	Weil D 1-51-55 666			S
	Owner: L. E. Farley Driller: Lightfoot and McCr	um		L
Soil		2	2	S
Sand		6	8	E
Sand (water)		2	10	E
Sand		12	22	Ċ
Blue clay		88	110	E
Blue shale		15	125	١
Lime		1	126	1
Blue shale		64	190	

Well DY-31-59-301-Continued

#### Well DY-31-59-305

	Owner: Wendell Pounds Driller: Carl A. Taylor		
Soil		3	3
Sandy clay	2	22	25
Sand rock	2	20	45
Sand rock, hard	3	30	75
Sand rock, shells	1	10	85
Sand rock		5	90
Sand rock, <b>so</b> ft		5	95
Shale		5	100

## Well DY-31-59-306

	Owner: Wendell Pounds Driller: Carl A. Taylor	
Soil	3	3
Sand rock	52	55
Hard sand rock	15	70
Soft sand rock	10	80
Hard sand rock	10	90
Soft sand rock	5	95
Shale	5	100

Driller: Lightfoot and McCrum		
Soil	2	2
Red and blue clay	13	15
Lime	2	17
Sand	2	19
Lime	1	20
Sand (water)	12	32
Blue and yellow clay	73	105
Blue shale	22	127
Gray sandy lime	25	152
Blue shale	17	169
Water sand (hard) water	28	197
Blue shale	8	205

Owner: Tom Johnson

## Well DY-31-59-601

#### Owner: Herbert W. Buchanan Driller: N. L. Box Drilling Contractor

Soil	4	4
Purple clay	40	44
Lime, trace of water	1	45
Blue clay	7	52
Lime	12	64
Water sand	23	87
Blue clay	8	95

#### Well DY-31-60-201

Owner: C. W. Crawford Driller: N. L. Box Drilling Contractor

Sand and clay	21	21
Broken lime	4	25
Sand and clay	17	42
Lime	3	45
Sandy clay	5	50
Water gravel	5	55
Lime	3	58
Gravel	3	61
Red claγ	2	63
Water gravel	7	70
Yellow clay	4	74

Table 3	-Driners Logs			THICKNESS	DEPTH
	THICKNESS (FEET)	DEPTH (FEET)		(FEET)	(FEET)
Well DY-31-60-	202		Well DY-31-60-204-	-Continued	
Owner: C. W. Cra Driller: N. L. Box Drillir			Clean sand and fine black gravel	13	78
Sand and clay	23	23	Rock	1	79
Lime	2	25	Coarse sand and some	2.5	81.5
Sand and clay	10	35	large gravel	2.5	84
Sand (little water)	17	52	Yellow clay		85
Lime	6	58	Gray clay		
Broken lime	3	61	Well DY-31	-60-206	
Water gravel	9	70	Owner: Bill Driller: N. L. Box Dr	l Dendy rilling Contractor	
Yellow clay	4	74	Clay and sand and gravel	30	30
Well DY-31-60	.203		Dry gravel	15	45
Owner: L. M. R			Water sand and gravel	17	62
Driller: L. M. Ri			Lime	2	64
Pack sand, soft sand, only small seep at 50 ft	50	50	Red bed	7	71
Red clay	18	68			
Sand with 1 gpm water	3	71	Well DY-31		
Hard rock, 2 ft red rock	4	75	Owner: Bill Driller: N. L. Box D		
Sand and gravel (6 gpm)	5	80	Clay	6	6
Hard rock	1	81	Sand and clay	16	22
Coarse sand, more water	5	86	Lime	1	23
Hard rock	1	87	Water sand	12	35
Sand and gravel	7.5	94.5	Lime	2	37
Rock	1	95.5	Broken lime and sand	25	62
Sand and gravel	7	102.5	Red bed	10	72
Rock	1.5	104	Water gravel	19	91
Yellow clay, brown	11	115	Yellow clay	7	98
clay to blue clay			Well DY-3	31-60-214	
Well DY-31-6	60-204		Owner: N		
Owner: L. M. F Driller: L. M. F			Driller: N. L. Box [	Drilling Contractor	
Soft sand rock	41	41	Clay	12	12
Hard rock	5	46	Sand	14	26
Gray clay	2	48	Broken lime	3	29
Fine white sand	6	54	Red bed	13	42 49
White sand, 2 in. rock	1	55	Sand and sandstone (water)	7	
Rock	4	59	Sand	6	55 67
Brown sand and			Sand and gravel	12 3	70
fine gravel	1	60	Sandy clay	3	70
No record	5	65	Lime	ı	,,

THICKNESS (FEET)		THICKNESS (FEET)	
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### Well DY-31-60-214-Continued

Sand and small gravel	16	87
Purple clay	13	100

#### Well DY-31-60-215

### Owner: N. L. Box Driller: N. L. Box Drilling Contractor

Soil	1	1
Clay	4	5
Broken lime	9	14
Sand and clay	6	20
Sand (water)	11	31
Red bed	13	44
Sand	21	65
Gravel	29	94
Blue shale	6	100

### Well DY-31-60-218

#### Owner: N. L. Box Driller: Texas Water Development Board

Sand - fine to medium grain, silty, clayey, brown and yellow	3	3
Sand - fine to coarse grain, pebbly, brown and red	3	6
Sand - see sand (6 ft) red	2	8
Conglomerate - pebble size, sandy, well to poorly cemented, muiti-colored, white, pink, black, mineral composition - quartz varieties (rose and smokey quartz,		45
and chert)	7	15
Sandstone - fine grain, poorly cemented, yellow	1	16
Conglomerate - see conglomerate (15 ft)	2	18
Sand - fine to medium grain, clayey gray and yellow	14	32
Sandstone - fine to medium grain, calcareous cement, well cemented, gray	1	33
Clay - sandy, silty, red and gray	4	37
Sandstone - fine grain, gray	2	39
Clay - sandy, silty, red and gray	3	42
Sandstone - see sandstone (39 ft)	.5	42.5

	(FEET)	(FEET)
Well DY-31-60-218-Con	tinued	
Clay - sandy, silty, red, gray and yellow	3.5	46
Sand - fine to medium grain, thin clay lenses present, loose to consolidated, gray	9	55
Sand - fine to coarse grain, thin sandstone lenses present, loose to consolidated, poor sorting, gray	9	64
Clay - silty, green	2	66
Sand - see sand (64 ft)	5	71
Sandstone - fine to very coarse grain, pebbly, poor sorting, gray	3	74
Sand - fine to very coarse grain, pebbly, poor sorting, gray	2	76
Conglomerate - see conglomerate (15 ft)	.5	76.5
Clay - sandy, silty, gray to green	1.5	78
Sandstone - fine to coarse grain pebbly well cemented, poor sorting, gray	1	79
Clay - silty, green	.33	79.33
Sandstone - fine to medium grain, well cemented, gray	.17	79.5
Siltstone - sandy, clayey, gray	.5	80
Conglomerate - see conglomerate (15 ft)	2	82
Siltstone - clayey, green and white	1	83
Conglomerate - pebble size, sandy, poorly cemented, mineral composition, see conglomerate (15 ft)	3	86
Sand - fine to very coarse grain, gray	2	88

2

з

2

1.5

.5

4

90

93

95

96.5

97

101

Conglomerate - pebble size,

green and gray

yellow to gray

Sand - see sand (93 ft)

sorted, blue to gray

Sandstone - fine grain, well

(90 ft)

Clay - blue

sandy, clayey, poor sorting, well to poorly cemented,

Sand - fine to medium grain,

Conglomerate - see conglomerate

THICKNESS	DEPTH
(FEET)	(FEET)

## Well DY-31-60-303

Owner: Fred Cuze
Driller: N. L. Box Drilling Contractor

Sand and clay	17	17
Shells and sand, little water	8	25
Red clay	16	41
Dry sand	5	46
Tight sand, white	3	49
Broken lime	9	58
Red and blue clay	6	64
Yellow clay	17	81
Red bed	8	89
Hard lime	10	99
Blue shale and shells	11	110

### Well DY-31-60-305

#### Owner: City of DeLeon Driller: Unknown

Sand and gravel	2	2
Clay and gravel	10	12
Packed sand and clay	14	26
White sand rock	з	29
Packed sand	20	49
Sand rock	3	5 <b>2</b>
Red bed, clay, and shale	12	64
Packed sand	8	72
Concrete rock	5	77
Sand and gravel	4	81
Blue shale	19	100
Blue sand rock	4	104
Blue shale	30	134
Blue sand and rock	12	146
Sandy shale and blue rock	32	178

## Well DY-31-60-325

### Owner: J. J. Mathis Driller: Ardean Kimmell Irrigation Service

Surface	5	5
Sand	10	15
Brown shale	17	32
Conglomerate	14	46
Sand	12	58

Gravel	16	74
Yellow clay	4	78
Gravel	7	85
Yellow clay	9	94
Well DY-31-60-326		
Owner: J. J. Mathis Driller: Ardean Kimmell Irrigat	ion Service	
Surface	4	4
Sand	7	11
Brown shale	14	25
Sand	38	63
Gravel	14	77
Brown shale	10	87

Well DY-31-60-325-Continued

THICKNESS

(FEET)

DEPTH (FEET)

## Well DY-31-60-327

# Owner: J. J. Mathis

Driller: Ardean Kimmell Irrigation Service

Surface	4	4
Brown shale	20	24
Sand	31	55
Gravel	20	75
Brown shale	11	86

### Well DY-31-60-328

### Owner: J. J. Mathis Driller: Ardean Kimmell Irrigation Service

Surface	4	4
Yellow clay	8	12
Sand	23	35
Gravel	29	64
Sand and gravel	6	70
Brown shale	10	80

### Well DY-31-60-401

### Owner: O. G. Gilchrist Driller: N. L. Box Drilling Contractor

Sand and clay	9	9
Sand (little water at 20 ft)	11	20
Sand and limestone	6	26
Red clay	16	42
Blue clay	2	44
Yellow clay	11	55

THICKNESS	DEPTH
(FEET)	(FEET)

# Well DY-31-60-501

Owner: Billy Gray
Driller: N. L. Box Drilling Contractor

Soil	4	4
Sand and clay	15	19
Sand and gravel	7	26
Lime and gravel	31	57
Clay	3	60
Sand and gravel	19	79
Blue shale	6	85

#### Well DY-31-60-601

#### Owner: Elmon Kerby Driller: Ardean Kimmell Irrigation Service

Surface	6	6
Red - brown shale	18	24
Soft sand	6	30
Conglomerate	6	36
Sand	14	50
Gravel	24	74
Brown shale	19	93
Yellow clay	30	123
Blue shale	1	124

### Well DY-31-60-602

### Owner: Elmon Kerby Driller: Ardean Kimmell Irrigation Service

Surface	5	5
Gravel	7	12
Brown shale	13	25
Sand	8	33
Brown shale	9	42
Sand	8	5 <b>0</b>
Sand and gravel	14	64
Yellow clay	4	68
Brown shale	7	75

# Well DY-31-60-603

Owner: Elmon Kerby Driller: Ardean Kimmell Irrigation Service

Surface	5	5
Brown shale	30	35
Sand	10	45

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-60-603Cor	ntinued	
Sand and gravel	10	55
Gravel	13	68
Brown shale	10	78
Well DY-31-60-6	604	
Owner: Fred Will Driller: Edwin Davis and I		
Red bed - red shale	20	20
Sand, very fine with streaks of sandy shale	20	40
Sand, very fine with increased sandy shale	5	45
Sand, very fine - some shale	5	50
Sand and small gravel	5	55
Sand and small gravel	5	60
Sand and red shale	5	65
Sand	5	70
Sandy shale	5	75
Sand - sandy shale - some gravel	5	80
Sand and gravel	5	85
Sand and increase gravel	5	90
Gravel - pick up first blue shale	5	95
Blue - red brown shale	5	100
Red - brown shale	20	120
Well DY-31-60-605		
Owner: Tommy Taylor Driller: Smith and Wolf Drilling Co.		

Topsoil	3	3
Gray clay	7	10
Sandy shale	12	22
Sand	19	41
Rock	2	43
Water sand	30	73
Clay	7	80

#### Well DY-31-60-606

	mmy Taylor I Wolf Drilling Co.	
Surface	6	6
Gray clay	6	12

DEPTH

THICKNESS

	(FEET)	(FEET)
	Well DY-31-60-606Continued	
Rock	2	14
Blue clay	3	17
Rock	3	20
Red bed	11	31
Sandy shale	27	58
Water sand	24	82
Gray clay	8	9 <b>0</b>

## Well DY-31-60-607

Owner: Tommy Taylor Driller: Smith and Wolf Drilling Co.

Driner. Smith and Won Brining Con		
Red clay	8	8
Brown sandy clay	17	25
Rock	9	34
Red clay	21	55
Water sand	8	63
Brown clay	7	70
Layer of rock	17	87
Yellow clay	11	98

# Well DY-31-60-608

# Owner: Tommy Taylor Driller: Smith and Wolf Drilling Co.

	•	0
Red sandy clay	9	9
Rock	10	19
Gray sandy clay	12	31
Gray sand	17	48
Rock	5	53
Clay	9	62
Rock	12	74
СІау	6	80
Yellow clay	5	85

## Well DY-31-60-801

### Owner: Gayle McGinnis Driller: N. L. Box Drilling Contractor

Sand and clay	18	18
Gravel	7	25
White clay	2	27
Gravel	7	34
Yellow clay	4	38

Well DY-31-60-805		
Owner: Gayle McGinnis Driller: N. L. Box Drilling Contractor		
No record	13	13
Coarse gravel	16	29
Fine water sand	9	38
Blue clay	1	39
Well DY-31-61-103		

DEPTH

(FEET)

THICKNESS

(FEET)

## Owner: Robert Hodges Driller: N. L. Box Drilling Contractor

Sand and clay	28	28
Dry gravel	8	36
Clay	6	42
Lime	1	43
СІау	5	48
Water sand	5	53
Sand and white clay	17	70
Water sand	6	76
Tight coarse sand	6	82
Tight gravel and sand	11	93
Broken lime	5	98
Broken lime and clay	15	113
Purple clay	3	116

# Well DY-31-61-104

### Owner: Robert Hodges Driller: N. L. Box Drilling Contractor

2	2
4	6
9	15
34	49
8	57
10	67
12	79
7	86
	4 9 34 8 10 12

#### Well DY-31-61-105

Owner: Rob Driller: N. L. Box D		
Soil	2	2
Clay	8	10

	THICKNESS (FEET)	DEPTH (FEET)	
Well DY-31-61-105-0	Continued		
Sand and gravel, little water	18	28	C
Sand and white clay	20	48	Driller:
Gravel	17	65	Sand and clay (little water at 20 ft)
Sand and gravel	13	78	Sand - increase in
Yellow clay	12	90	water at 30 ft
Sandstone	3	93	Gravel and sand - wate
Mixed clay	90	183	Yellow and blue clay
Sandy shale	2	185	
Blue shale	2	187	( Driller:

## Well DY-31-61-106

Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Soil	2	2
Red clay	11	13
Gravel	2	15
White clay	8	23
Sand and clay	21	44
Water sand	11	55
Sand and clay	7	62
Sand	6	68
Sand and clay	7	75
Coarse sand	11	86
Yellow clay	6	92

#### Well DY-31-61-107

### Owner: Robert Hodges Driller: N. L. Box Drilling Contractor

Sand and clay	8	8
Dry gravel	7	15
Clay	2	17
Sand, little water	3	20
Gravel	17	37
Sand and gravel	13	50
Sand	6	56
Sand and gravel	5	61
Sand	4	65
Tight sand	8	73
Gravel	17	90
Clay	5	95

Well DY-31-61-10	8	
Owner: Robert Hoc Driller: N. L. Box Drilling	-	
Sand and clay (little water at 20 ft)	20	20
Sand - increase in water at 30 ft	32	52
Gravel and sand - water	23	75
Yellow and blue clay	8	83

THICKNESS DEPTH (FEET)

(FEET)

# Well DY-31-61-109

Owner: Robert Hodges N. L. Box Drilling Contractor

Soil and clay	8	8
Sandy clay	7	15
Dry sand	11	26
Hard sand	4	30
Sandy clay and gravel	7	37
Hard sand	3	40
Water sand and gravel	47	87
Blue shale	10	97

### Well DY-31-61-110

#### Owner: Robert Hodges Driller: N. L. Box Drilling Contractor

Soil	2	2
Clay	6	8
Sand and clay	12	20
Sand and gravel	15	35
Sand and gravel - water	15	5 <b>0</b>
Hard sand	10	60
Sand and gravel	32	92
Blue shale	8	100

### Well DY-31-61-111

Owner: Robert Hodges Driller: N. L. Box Drilling Contractor		
Soil and clay	10	10
Sandy clay	15	25
Dry sand and gravel	20	45
Sand water	10	55
Gravel and sand	43	98
Blue shale	7	105

.

THICKNESS DEPTH (FEET) (FEET)

## Well DY-31-61-112

Owner: Bill Wood Driller: Lightfoot and McCrum

Red and blue clay	12	12
Sandy clay	6	18
Sand	7	25
Sandy clay	5	30
Sand	13	43
Water sand and gravel	14	57
Blue and yellow shale	8	65

#### Well DY-31-61-113

#### Owner: Bill Wood Driller: Lightfoot and McCrum

Difficit Eight to the		
Red clay	4	4
Gravel	4	8
Red clay	4	12
Red and blue sandy clay	15	27
Lime	1	28
Red and blue sandy clay	12	40
Sand and gravel	17	57
Blue and yellow shale	9	66

# Well DY-31-61-114

Owner: Bill Wood Driller: Lightfoot and McCrum				
Red clay	12	12		
Red sandy clay	15	27		
Sand and clay	10	37		
Lime	1	38		
Water sand and gravel	16	54		
Yellow and blue shale	9	63		

### Well DY-31-61-115

### Owner: Bill Wood Driller: Lightfoot and McCrum

Red clay	10	10
Red and blue sandy clay	15	25
White sandy clay	15	40
Sand	5	45
Sand and marl (water)	10	55
Yellow clay	12	67

THICKNESS	DEPTH
(FEET)	(FEET)

## Well DY-31-61-116

Owner: Bill Wood Driller: Lightfoot and McCrum

Red clay	6	6
Red and blue sandy clay	14	20
White sand and clay	23	43
Water sand and gravel	12	55
Yellow clay	14	69

## Well DY-31-61-117

Owner: Bill Wood Driller: Lightfoot and McCrum

Red clay	5	5
Red and blue sandy clay	13	18
Sand	13	31
Sand (water)	5	36
Sand and gravel (water)	14	50
Yellow clay	11	61

#### Well DY-31-61-119

#### Owner: Bill Wood Driller: Comco Drilling Co.

Limestone	2	2
Sand and clay stringers	23	25
Sand	10	35
Gravel and sand	11	46
Yellow shale	14	60

### Well DY-31-61-120

Owner: P. R. George Driller: N. L. Box Drilling Contractor

Soil and clay	10	10
Sand and clay (little water)	40	5 <b>0</b>
Hard sand	10	60
Sand and gravel	34	94
Blue shale	6	100

## Well DY-31-61-201

Owner: George Caraway Driller: N. L. Box Drilling Contractor		
Clay and sand	22	22
Dry sand and gravel	21	43
Water sand and gravel	6	49

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-201-C			Well DY-31-61-70	6-Continued	
White clay	2	51	Sand and gravel	8	28
Water gravel	6	57	Yellow clay	11	39
Clay	4	61	Fine sand	6	45
			Shale and rock	6	51
Well DY-31-6	1-405		Sand streaks	21	72
Owner: Humble Pi Driller: N. L. Box Drill			Clay streaks	24	96
Surface soil	1	1	Rock	2	98
Red clay	1	2	Yellow sand	4	102
Gravel	4	6	Sand streaks	14	116
Sandy clay	10	16	Rock	2	118
Hard, sandy lime	2	18	Coarse sand	17	135
Clay	8	26	Yellow clay and shale	5	140
Sand, small amount water 36 to 41 ft (2 gpm)	10	36	Well DY-3	31-61-801	
Broken lime	5	41	Owner: E. G		
Red clay	5	46	Driller: N. L. Box I	23	23
Sand and clay	12	58	Sand and clay	23	32
Fine grained white sand	6	64	Lime and sand		43
Coarse sand	17	81	Sand and clay	11	
Gravel - water	22	103	White sand	17	60
Yellow clay	6	109	Sand, limy clay	23	83 93
	1 705		Red clay	10	
Well DY-31-6			Sand and clay	11	104
Owner: Henry V Driller: Lightfoot a			Gravel	4	108
Sandy clay	2	2	Yellow clay	2	110
Red clay	8	10	Gravel	5	115
Sand and sandy clay	35	45	Sandy lime	1	116
Sandy lime	5	50	Gravel	9	125
Sand	5	55	Yellow clay	2	127
Lime	2	57	Well DY-	31-61-902	
Sand	11	68		e Campbell	
Water sand	12	80		n Water Well Driller	-
Gravel	20	100	Brown soil	3	3
Blue and yellow clay	10	110	White clay	5	8
			Yellow clay	24	32
Well DY-31-			White sand	8	40
Owner: John I Driller: Petit and Ki			Yellow sand	20	60
Sand rock	15	15	Red and green clay	8	68
Clay	5	20	Gray clay	7	75

Table 3.–	Drillers' Logs (	or Selected	Wens in Comanche County-Cont		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-31-61-902-Co	ntinued		Well DY-41-03-601-	-Continued	
Red clay	2	77	Sand, water	31	125
Green clay	13	90	Brown shale	25	150
White sand	20	110	Brown shale	40	190
White sand and gravel	35	145	Shale	8	198
Yellow sand and clay clods	15	160	Lime	4	202
White sand and gravel	15	175	Blue shale	63	265
Red and green clay	5	180	Lime	2	267
			Blue shale	13	280
Well DY-41-02-			Blue shale with sand	120	400
Owner: D. C. F Driller: Harris Drill			Shale and sand, dry	32	432
Soil	3	3	Shale and sand, dry	32	464
Blue shale	61	64	Well DY-41	1 03 903	
Dry sand and sandy shale	17	81	Owner: W. C		
Water sand	21	102	Driller: Hoff Ir		
Sand rock	3	105	Surface soil	5	5
Water sand	3	108	Caliche	17	22
Blue shale	3	111	Red rock	6	28
W # DX 41 02	201		Red rock with sand	7	35
Well DY-41-03			Sandy shale 10		45
Owner: B. E. Ha Driller: Comco Dri			Sand with water 48		93
Sand and sandy clay	35	35	Shale and brown,	10	103
Sand and gravel (water)	15	50	yellow lime Sandy shale	10	113
Shale	20	70	Sandy shale		
Sand (water)	20	90	Well DY-4	1-04-501	
Shale	11	101	Owner: Eltor Driller: Hoff I		
Well DY-41-03	-601		Soil, red bed, caliche	17	17
Owner: L. L.			Sand rock	7	24
Driller: Watt F		-	Shale	4	28
Soil	5	5	Sand rock	11	39
Light shale	20	25	Sandy shale	6	45
Red shale	30	55	Colored gravel	5	50
Sand	9	64	Water	10	60
Red shale	8	72	Shale	4	64
Sand, small amount water	1	73	Well DY-4	41.04.502	
Red shale	7	80	Owner: Elto		
Gravel, water	13	93		nard Drilling Co.	
Lime	1	94	Sand	22	22
			Lime	2	24

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-04-502	2-Continued		Well DY-41-04-50		
Yellow clay	4	28	White sandy shale	13	57
Lime	3	31	White water sand	5	62
Sand with shale streaks	29	60	Yellow sandrock	12	74
Sand with small	25	80	Yellow sandy shale	16	90
gravel (water)	11	71	White sandy shale	6	96
Sand with shale streaks	25	96	Sand and gravel	12	108
Lime	1	97	Yellow shale	6	114
Water sand	5	102	Wall DX 4	1 04 500	
Water gravel	8	110	Well DY-4		
Yellow clay	6	116	Owner: R. <del>I</del> Driller: Harri		
			White sandy shale	18	18
Well DY-4	1-04-504		Brown water sand	7	25
Owner: Lle Driller: Picket			Rock	2	27
Top, sand	3	3	Red sandy shale and red bed	13	40
Sandy clay	17	20	Water sand	5	45
Clay	10	30	White sandy shale	15	60
Sand	10	40	White water sand	5	65
Red shale	2	42	Yellow sand rock	10	75
Sand rock	4	46	Yellow sandy shale	15	90
Red clay	14	60	White sandy shale	6	96
Sand and small gravel, water	18	78	Sand and gravel	12	108
Sand rock	2	80	Yellow shale	5	113
Gravel	7	87	Well DY-4	1-04-601	
Yellow clay	5	92	Owner: Rhe		
Red rock	2	94	Driller: Hoff I		
Gravel, water	26	120	Soil	1	1
Clay	6	126	Red clay	3	4
Well DY-4			White clay	15	19
Owner: R. H			Red clay and some sand	14	33
Driller: Harris			Sand rock	8	41
White, sandy shale	18	18	Gravel	2	43
Brown water sand	4	22	Gray sandy shale	9	52
Rock	1	23	Yellow lime	1	53
Water sand	2	25	Dry sand rock	4	57
Rock	1	26	Red bed	13	70
Red sandy shale and red bed	13	39	Sand	9	79
Water sand	5	39 44	Gravel	1	80
	5				

	2111010				
	THICKNESS (FEET)				
Well DY-41-04-601–Co	ntinued				
Red bed	1	81			
Gray sandy shale	5	86			
Lime	5	91			
Sand	7	98			
Gravel	2	100			
Sandy lime	5	105			
Broken lime, sandy shale, and red bed	5	110			
Gravel	10	120			
Hard sandy lime	5	125			
Well DY-41-04	Well DY-41-04-602				
Owner: Rhea T. Driller: Hoff Irriga					
No record	30	30			
Shale - sand	15	45			
Red bed - red rock	15	60			
Gray shale - lime shale and sand rock	11.5	71.5			
Gray shale - sandrock	10.5	82			
Red rock	2	84			
Light shale	6	90			
Sand - gravel	30	120			
Yellow and purple gumbo	10	130			
Well DY-41-04	1-603				

### Owner: Rhea T. Hoff Driller: Hoff Irrigation Co.

Soil	2	2
Clay and shale	8	10
Sand	8	18
Shale	16	34
Lime	4	38
Shale	4	42
Sand	4	46
Shale with coal and gravel	2	48
Sand	5	53
Red bed	17	70
Gray shale	7	77
Sand and lime	23	100
Red bed	1	101

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-04-603Cor	ntinued	
Light shale	1	102
Sand to coarse gravel	18	120
Light shale	3	123
Yellow clay	7	130
Well DY-41-04-0	604	
Owner: Rhea T. Driller: Hoff Irrigat		
Surface and red bed	25	25
Lime shells	9	34
Shale	6	40
Sand	13	53
Yellow shale	1	54
Sand and gravel	28	82
Green shale	4	86
Well DY-41-04	701	
Owner: Comanche Pu Driller: Hoff Irriga		
Surface	3	3
Gravel	7	10
Red clay	10	20
Gray shale	12	32
Water sand	20	52
Red bed	6	58
Sandy shale	19	77
Sand	5	82
Sandy shale	3	85
Lime	2	87
Shale	1	88
Well DY-41-05-105		

# Owner: U.S. Army Corps of Engineers Driller: J. L. Myers Sons

Surface soil	8	8
Clay	12	20
Sand	2	22
Sand rock	24	46
Shale	12	58
Gravel	5	63
Lime	3	66

	THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-05-1050	Continued	
Clay	4	70
Sand	12	82
Shale	93	175
Well DY-41-05-204		

#### Owner: Joe Dorsey Driller: N. L. Box Drilling Contractor

Sand and clay	13	13
Broken lime and gravel	8	21
Water sand and gravel	8	29
Red bed	8	37
Sandstone and lime	9	46
Sand and clay	9	55
Limy sand and gravel	26	81
Yellow clay	16	97

## Well DY-41-05-210

### Owner: Mary Kay Hamlett Driller: Lightfoot and McCrum

Sand	2	2
Sandy clay (red)	17	19
Sand (white) (water)	21	40
Red clay	5	45
Sand (water)	5	50
Blue and yellow clay (sand)	10	60
Red clay	2	62
Sand (water)	23	85
Sand and gravel (water)	29	114
Yellow and blue clay	11	125

## Well DY-41-05-211

#### Owner: Mary Kay Hamlett Driller: Lightfoot and McCrum

Sand	1	1
Red clay	14	15
Sand	15	30
Sand (water)	8	38
Red clay	8	46
Blue clay (sand)	9	55
Sand (water)	10	65
Blue clay	10	75

Well DY-41-05-211—Continued		
Sand (water)	10	85
Gravel (water)	10	95
Sand and clay	6	101
Gravel (water)	14	115
Yellow and blue clay	11	126

THICKNESS

(FEET)

DEPTH

(FEET)

## Well DY-41-05-214

#### Owner: Joe Dorsey Driller: Holdridge Drilling Co.

Sand	2	2
Brown clay	14	16
Lime, gravel, and sand	9	25
Sandstone and lime	3	28
Sand and gravel	8	36
Gravel and shale	4	40
Red clay	20	60
Sand	8	68
Sand rock	2	70
Sand	20	90
Sand rock and gravel	4	94
Brown and blue clay	11	105

### Well DY-41-05-502

### Owner: R. W. Evans Driller: Curtis Alford Drilling and Well Service

Soil	4	4
Sand and caliche	11	15
Sand	9	24
Sand rock	2	26
Sand	14	40
Sand rock	11	51
Water sand	36	87
Lime shell	3	90
Water sand and gravel	32	122
Blue shale	18	140

#### Well DY-41-06-601

# Owner: W. A. Springer Driller: J. T. Brown Water Well Driller il 1

Topsoil	1	1
White clay and shale rock	6	7

	THICKNESS (FEET)	DEPTH (FEET)	THICK (FE
Well DY-41-06-601–Co	ntinued		Well DY-41-07-701—Continued
Yellow clay and flat rock	11	18	Dry sand
Blue clay and flat rock	37	55	Sand
Gray clay	90	145	Broken rock and sand
Red and green clay	25	170	Soapstone
White sand	42	212	Sandy shale
Green clay	1	213	Soapstone
			Dry sand
Well DY-41-06			Shale
Owner: Sherman H Driller: Tatum Dril			Well DY-41-11-301
Caliche	23	23	Owner: E. E. Bryson
Blue shale	37	60	Driller: Sun Oil Co.
Gray sandy shale	8	68	Yellow clay
Crystalized sandstone	2	70	Gray shale
Green sandy clay	10	80	Broken lime
Red water sand	8	88	Blue shale
Green sandy clay	6	94	Broken lime
Red bed	11	105	Blue shale
Blue clay	17	122	Sand (4 bwph)
Water sand	13	135	Shale
Crystalized sandstone	1	136	Sand (20 bwph)
Water sand	10	146	Pink shale
Blue shale	4	150	Sandy shale
W U D V 44 07 1	701		Sand
Well DY-41-07-			Red rock
Owner: Travis Li Driller: Alford Jar			Water sand
Topsoil	5	5	Sandy shale
Red clay	2	7	Gray shale
Caliche	3	10	Broken lime
Rock	3	13	Light shale
Dry sand	4	17	Broken lime
Yellow clay	2	19	Lime
Dry yellow clay	2	21	Blue shale
Yellow clay	6	27	Gritty lime
Sand	11	38	Gritty shale
Blue sandy shale	4	42	Blue shale
Blue sand (little water)	2	44	Lime
Coal, black	11	55	Blue shale

Sandy blue shale

sand	7	73
	7	80
en rock and sand	20	100
ostone	3	103
ly shale	5	108
ostone	2	110
sand	4	114
e	4	118
Well DY-41-11-301		
Owner: E. E. Bryson Driller: Sun Oil Co.		
ow clay	10	10
y shale	30	40
ken lime	25	65

DEPTH

(FEET)

THICKNESS (FEET)

Sand

Table 3Drillers' Logs of Selected Wells in Comanche County-Commute					
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-11-301–Co	ntinued		Well DY-41-11-30	1-Continued	
Shale	85	935	Black lime	48	2,450
Sand	55	990	Lime	45	2,495
Blue shale	15	1 , <b>00</b> 5	Black lime	135	2,630
Broken lime	15	1,020	White lime	250	2,880
Sandy shale	20	1,040	Sand	25	2,905
Sand	10	1,050	Brown lime	20	2,925
Sandy shale	25	1,075	White sand	15	2,940
Dark shale	45	1,120	White lime	20	2,960
Sandy shale	10	1,130	White sand	15	2,975
Sandy lime	30	1,160	White lime	25	3,000
Sandy shale	15	1,175	White sand, water	15	3,015
Sandy lime	20	1,195	White lime	5	3,020
Sand (1 bwph)	65	1,260	Dark sand	5	3,025
Sandy shale	30	1,290	Sand (water)	15	3,040
Dark shale	10	1,300	White sand	5	3,045
Sandy shale	5	1,305	White sand	5	3,050
Lime	100	1,405	Lime	5	3,055
Sand	10	1,415	White lime	5	3,060
Broken lime	15	1,430	White sand	28	3,088
Sand	15	1,445	Lime	2	3,090
Dark shale	25	1,470	Sand, water	45	3,135
Sand	25	1,495		/-41-12-101	
Sandy shale	15	1,510		y of Comanche	
Sand	15	1,525		eorge Bolton	
Sandy lime	35	1,560	Soil	8	8
Sand	45	1,605	Sand and gravel	12	20
Blue shale	5	1,610	Blue clay	70	90
Sandy lime	20	1,630	Coal and fine sand	7	97
Sandy shale	45	1,675	Blue clay	26	123
Sand	10	1,685	Wall D	(-41-13-301	
Dark shale	30	1,715		Water Supply Corp.	
Sandy shale	75	1,790		rews and Foster	
Dark shale	450	2,240	Rock	12	12
Black shale	45	2,285	Sand	6	18
Dark shale	70	2,355	Shale	20	38
Soft dark shale	5	2,360	Rock	2	40
Black lime	34	2,394	Shale and rock	10	50
Black shale	8	2,402	Shale	8	58

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-13-301Conti	nued		Well DY-41-14-107-	Continued	
Sand	12	70	Red rock and clay	44	143
Rock	6	76	Rock	7	150
Shale and sand breaks	4	80	Sand and gravel streaks	10	160
Red bed	53	133	Sand and gravel	20	180
White shale	3	136	Blue shale	3	183
Shale	4	140	Well DY-41-	14-108	
Sand	8	148	Owner: Bren		
Rock	2	150	Driller: Iredel		
Shale	2	152	Surface sand	15	15
Sand and gravel	8	160	Sand and rock shelf	15	30
Rock and shale breaks	20	180	Hard sand and shale	55	85
Shale and rock	25	205	Red clay	45	130
Rock	50	255	Sandy shale	2	132
Well DY-41-14	-106		Sand and gravel and rock layers	34	166
Owner: U. L. Kir Driller: Petit and Kigh			Green shale	14	180
No record	20	20	Well DY-41	-14-302	
Sand	17	37	Owner: Glen I Driller: Roy		
Blue shale	59	96	Surface soil	9	9
Red clay and rock	16	112	Sandy red clay	3	12
Coarse sand	8	120	Sand and gravel -		40
Lime rock	7	127	weak water	6	18
Gray clay	21	148	White caliche - shale breaks	7	25
Rock	7	155	Red clay	5	30
Shale and gravel streaks	11	166	White shale	5	35
Gravel	14	180	Blue shale - light color	7	42
Blue shale	2	182	Water sand - weak	3	45
Well DY-41-1	4-107		Hard sandstone	5	50
Owner: U. L. Ki			Water sand	10	60
Driller: Petit and Kigh		10	Blue sandy shale	2	62
No record	16	16	Red clay	23	85
Sand and sand rock	17	33	Blue shale	5	90
Blue clay and shale	17	50	Red clay	12	102
Hard sand streaks	12	62	Blue shale	2	104
Blue clay	6	68	Water sand - good water	3	107
Red clay	21	89	Blue shale	5	112
Blue clay	3	92	Water sand	1	113
Shale and lime rock	7	99			

	THICKNESS	DEPTH		THICKNESS	DEPTH
	(FEET)	(FEET)		(FEET)	(FEET)
Well DY-41-14-302-C	ontinued		Well DY-41-	14-303	
Hard limerock	4	117	Owner: Euel E Driller: Curtis Alford Dril		•
Blue-green shale	8	125	Soil	2	2
Hard limerock	8	133	Red clay	3	5
Blue shale	7	140	Brown and yellow shale	16	21
Sand and gravel - good sand	23	163	Sand	7	28
Hard limerock	2	165	Gravel	4	32
Hard sand	5	170	Hard lime rock	2	34
Blue sandy shale	27	197	Gravel and sand	30	64
Black shale	9	206	Hard lime	1	65
Blue sandy shale	9	215	Gravel and sand	10	75
Black shale	5	220	Blue shale	5	80
Blue sandy shale	10	230	Hard lime	5	85
Black shale	5	235	Blue sand	10	95
Blue sandy shale	15	250	Hard red sand	10	105
Black shale	30	280	Hard red sand rock	19	124
Hard sandy shale	4	284	Water sand	14	138
Black shale	22	306	Lime rock	3	141
Light blue shale	32	338	Red bed	9	150
Hard gray sand			Well DY-41	-14-304	
1 barrel salt water (rainbowed)	152	490	Owner: Rose		
Black shale	60	550	Driller: Tatum		
Light sandy shale	15	565	Caliche and limestone	18	18
Black shale	43	608	Blue shale	47	65
Sandy blue shale	127	735	Water sand	13	78
Gray sand - light gas show	28	763	Sandy shale	7	85
Black shale	9	772	Water sand	22	107
White sand (6 barrels salt water)	9	781	Blue shale	5	112
Sandy shale	9	790	Well DY-4	1-14-305	
Black shale (real black)	8	798	Owner: J. N.		
Light blue shale	32	830	Driller: Tatum		
White sand (dry)	18	848	No record	72	72
Hard gray sand	8	856	Sand and gravel	10	82
Black shale - coal black	15	871	Sandy clay and sandstone	8	90
Hard sand with layers	29	900	Sandy clay	16	106
blue shale	29	500	Limestone	4	110
			Red and blue clay	23	133

Water sand

143

10

THICKNESS	DEPTH
(FEET)	(FEET)

## Well DY-41-14-305-Continued

Crystal sandstone - hard	3	146
Red and blue clay	14	160
Coarse water sand	8	168
Limestone	2	170
Sand and gravel	8	178
Limestone	6	184
Green sandy clay	4	188

#### Well DY-41-14-402

#### Owner: Russell Hayes Driller: Iredell Drilling

Topsoil and clay	15	15
Sand and rock shelf	15	30
Hard sand rock	55	85
Red clay	45	130
Sandy shale	2	132
Sand and gravel with rock breaks	35	167
Green shale	18	185

### Well DY-41-14-701

#### Owner: Gayle Isham, Jr. Driller: Tatum Drilling Co.

Topsoil and pack sand	10	10
Yellow caliche	8	18
Brown sand	12	30
Yellow sand	14	44
Gray shale	119	163
Sandy shale	6	169
Gray shale	24	193
Sandy shale	28	221
Water sand	13	234
Soapstone	8	242
Hard rock	3	245
Sandy shale	27	272
Red bed	11	283
Sand and water sand	42	325
Soapstone	10	335

THICKNESS	DEPTH
(FEET)	(FEET)

### Well DY-41-14-803

Owner: Elsie M. Rea Driller: L. W. Little Drilling Co.

Surface	2	2
Hard white limestone	88	90
Green shale	8	98
Hard white limestone	38	136
Fine dark sand	10	146
Black shale	2	148
Blue green shale	20	168
White sand	9	177
Hard blue limestone	13	190
Red shale	22	212
Sand	18	230
Hard white flint rock	8	238
Red shale, hard	17	255

## Well DY-41-15-101

#### Owner: H. C. Aytes Driller: Leon Drilling Co.

Soil	4	4
Caliche - gravel	16	20
Sandy shale	30	50
Water sand	20	70
Hard sand	5	75
Sand - gravel - water	15	90
Hard sand	10	100
Sand - gravel - water	25	125
Sand - lime - hard	5	130
Lime shells - red shale	18	148
Water sand	24	172
Lime - sandy	4	176

#### Well DY-41-15-401

#### Owner: F. L. Stephens Driller: Tatum Drilling Co.

Sandy red clay	30	30
Crystal limestone	2	32
Water sand	13	45
Sandy clay	8	53
Water sand (12 gpm)	34	87

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well DY-41-15-401Continued		Well DY-41-15-401—Continued			
Red and blue clay	68	155	Sand and gravel	9	196
Fine sand	8	163	Red and blue clay	6	202
Red bed	24	187	Yellow rock	3	205

# COMANCHE COUNTY

# Table 6.—Chemical Analyses of Oil-Field Brines

# (Analyses are given in parts per million except pH)

SYSTEM	PRODUCING ZONE	FIELD	AVERAGE DEPTH (FT)	AREA SHOWN ON FIGURE 18, VOLUME I	CALCIUM (Ca)	MAG- NESIUM (Mg)	SODIUM (Na)	BICAR- BONATE (HCO <sub>3</sub> )	SULFATE (SO4)	CHLORIDE (CI)	TOTAL DISSOLVED SOLIDS	рН
_ a	-	Smith- Morgan		K-6	1,360	313	8,300	83	4	15,300	26,300	7.3

<sup>a</sup> Analyses obtained by Texas Water Development Board.

# CORYELL COUNTY

# Table 2.-Selected Oil, Gas, and Stratigraphic Tests

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
НВ-40-25-501	Amerada Petro- leum Corp.	N. F. Tate No. 1	1949	4,868	976	E
27-801	Gulf Oil Corp.	V. L. Turner No. 1	1965	6,010	1,062	R
28-403	Shell Oil Co.	Rabbe No. 1	1965	970	970	Е
41-501	do.	Saunders No. 1	1965	490	965	E
801	Smith and Leonard	W. D. Bowlin No. 2	1965	3,493	831	E
45-201	General Crude Oil Co.	Ernest Day No. 1	1957	3,035	720	E
49-201	Gulf Oil Corp.	Virgil Lockhart, et al. No. 1	-	-	940	D
801	-	J. K. Summers No. 1	1962	1,550	1,040	R
51-501	N. A. Schwald, Sugarloof Moun- tain Oil Co.	Thomas Young No. 1	1920	2,895	845	D
41-39-602	Shell Develop- ment Co.	Leslie Sheldon No. 1	_	150	1,310	S

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# CORYELL COUNTY

## Table 3.-Drillers' Logs of Selected Wells

THICKNESS	DEPTH
(FEET)	(FEET)

### Well HB-40-19-803

Owner: Curtis Watson
Driller: Clarence Erickson

Large hitch rocks	6	6
Clay	2	8
Hard blue rock	72	80
White crystal-like lime	80	160
White lime	90	250
Hard blue rock	30	280
Shell rock and layers shale	15	295
Green gum	11	306
Paluxy sand and water	22	328
Black gum	2	330
Hard lime	4	334

#### Well HB-40-25-401

#### Owner: Joe Faubion Driller: R. A. Adams and Son

Surface soil	2	2
Yellow clay	20	22
Shale and lime	8	30
Sand and water	20	50
Glen Rose lime	57	107

Well HB-40-25-902

Owner: Levita Water Supply Corp. Driller: James Mathew Adams

Sand - clay	20	20
Lime	176	196
Shale breaks	12	208
Coarse lime sand - water	74	282
Shale	13	295
Lime and shale (green)	65	360
Brown lime	20	380
White lime .	15	395
Red bed - green shale	40	435
White sand	10	445

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-25-902-Co	ntinued	
Red bed with green shale	37	482
No record	106	588
Well HB-40-26-	101	
Owner: R. A. Ao Driller: R. A. Adams		
No record	37	37
Glen Rose lime	303	340
Trinity sand and shale	83	423
Well HB-40-26-	102	
Owner: Jonesboro Water Driller: C. M. Stoner f		
Soil	1	1
Rock and clay	9	10
Clay	10	20
Rock	20	40
Sand	5	45
Rock	315	360
Sandy shale and lime	45	405
Sand	15	420
Sandy shale and lime	20	440
Broken sand and sandy shale	70	510
Sand	10	520
Hard red sand rock	20	540
Red bed	25	365
Green sand shale	5	570
Sand	42	612
Gravel	6	618
Yellow shale	4	622

## Well HB-40-26-401

Owner: R. L. Campbell Driller: R. A. Adams and Son

Surface soil and yellow clay	12	12
Blue lime	28	40

	THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-26-401-Co	ontinued	
Black shale	2	42
Lime	23	65
Sand	3	68
Sand - little water	7	75
Water and sand	10	85
Water and sand	5	90
Glen Rose lime	30	120
Well HB-40-26-7	700	
Owner: E. E. Vern Driller: James Mathew	nillion	
No record	6	6
Glen Rose lime	239	245
Gray shale	14	259
Glen Rose lime	39	298
Trinity sand	2	300
Brown lime	25	325
Red bed - green shale	19	344
Hard white sand	23	367
Red bed - green shale	9	376
Second Trinity sand - gravel	23	399
Red bed - green shale	7	406
Hard gray sand	10	416
Red bed green shale	13	429
Gray sand - coarse	19	448
Red bed	22	470
Brown sand	15	485
Yellow lime	3	488
Small gravel sand	6	494

#### Well HB-40-27-102

15

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Owner: Turnersville Water Supply Corp. Driller: J. L. Myers Sons					
Soil	1	1			
Blue limestone	303	304			
Sand	29	333			

Yellow lime

Well HB-40-27-102-	-Continued	
Lime	18	351
Blue lime	248	599
Shale	69	668
Sand	2	670
Lime	59	729
Sand	28	757
Sandy shale	5	762
Sand	12	774
Sandy shale	9	783
Sand	10	793
Red bed	79	872
Shale (broken sand)	40	912
Sand	28	940
Shale	63	1,003

THICKNESS

(FEET)

DEPTH

(FEET)

## Well HB-40-28-402

#### Owner: Joe Tubbs Driller: Frank Baker Place

No record	110	110
Broken white lime and blue shale	195	305
White lime	25	330
Blue shale and soapstone	50	380
Paluxy sand	10	390
Black shale	2	392
White lime	18	410

### Well HB-40-35-103

#### Owner: Gatesville State School for Boys Driller: Kenton Preston

Sandy soil	5	5
Gravel	10	15
Yellow clay	5	20
Blue shale	20	40
Gray shale	40	80
Blue shale	40	120
Gray shale	15	135
Austin chalk	123	258
Blue shale	2	260

598

611

620

624

627

635

659

666

705

770

771

	THICKNESS (FEET)	DEPTH (FEET)	
Well HB-40-35-103-Co	ontinued		
Austin chalk	250	510	Lime, hard
Hard sandy shale	10	520	Harder lime
Blue shale	10	530	Broken lim shells
Austin chalk	55	575	Broken lim
Sand - 4 f.w.	15	590	Green shale

8

13

9

4

з

8

24

7

39

65

1

Shale

Sand

Shale

Red bed

Gray shale

Gray shale

Red bed

Shale

Sand shale black

Sand and gravel

Red bed

Lime, hard shells	20	490
Harder lime	7	497
Broken lime, hard shells	23	520
Broken lime	39	559
Green shale	3	562
Sand (water)	5	567
Hard sandy lime	4	571
Gray shale	9	580
Water sand	27	607
Hard sandstone	3	610
Gray shale	1	611
Shale	3	614
Red bed	23	637
Water sand	13	650
Broken sand	10	660
Red bed	40	700
Water sand	45	745
Gravel and sand	17	762

Well HB-40-35-104-Continued

DEPTH

(FEET)

THICKNESS (FEET)

### Well HB-40-35-107

Owner: Mountainview State Driller: J. L. Myer		
Lime	230	230
Broken lime	410	640
Shale	25	665
Sand and shale	25	690
Broken sand and shale	78	768
Shale	20	788
Broken sand and shale	92	880
Shale	18	898

#### Well HB-40-35-403

Owner: City of Gatesville Driller: Kenton Preston 5 5 Soil 15 20 Caliche 60 40 Blue shale 70 10 Sand (dry)

VVeli HD-40-30-104	Well	HB-40-35-10	4
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Owner: Gatesville State School for Boys Driller: Layne Texas Co.

Shell, gravel, and clay	20	20
Hard gray shale	8	28
Gray shale	12	40
Broken lime soft	53	93
Shale	2	95
Lime	10	105
Soft broken lime	17	122
Lime	13	135
Soft broken lime	60	195
Soft broken lime	5	200
Soft lime and shale	50	250
Broken lime and shale	50	300
Broken lime	55	355
Broken lime and shale	45	400
Broken lime and hard shells	35	435
Broken lime and shale	35	470

Shale

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-403-Co	ontinued		Well HB-40-35-404	-Continued	
Lime (chalky)	430	500	Sand	15	710
Sand, 10 bph	15	515	Sand, gravel,	20	730
Shale (green)	10	525	and shale Hard sand and	20	,00
Red bed	125	650	gravel	5	735
Red bed (broken)	20	670	Yellow clay	7	742
Red bed (sandy)	20	690	Blue shale	13	755
Red sand	5	695	Well HB-40	)-35-405	
Sand (water)	10	705	Owner: City o		
Sand and gravel - water	97	802	Driller: R. A. A		
Yellow clay - sandy	13	815	Solid clay sand	12	12
Yellow clay	13	828	Gray lime	348	360
			Sandy lime	20	380
Well HB-40-35-404 Gray lime		5	385		
Owner: City of G Driller: Layne Te			Shale	5	390
Surface soil	2	2	Sandy lime	33	423
Gravel	2	4	Sand	14	437
Yellow clay and			Sandy shale	10	447
caliche	16	20	Water sand	19	466
Blue shale	25	45	Sandy shale	4	470
Lime	5	50	Red bed (sand and gravel)	70	540
Sand (water)	6	56	Water sand	10	550
Blue shale	2	58	Pink shale	33	583
Sand	12	70	Water sand	8	591
Lime	5	75	Sandy shale	39	630
Lime (white)	115	190	Water sand	23	653
Sand	20	210	Red bed	17	670
Lime (white)	40	250	Shale	30	700
Gray shale	100	350		0.05.400	
Lime and shale	110	460	Well HB-40-35-409		
Shale and sandy lime	33	493	Owner: City Driller: Layr	ne Texas Co.	
Sand (water)	32	525	Rocky lime	20	20
Red bed	85	610	Blue gray shale	169	189
Red shale	20	630	Sandy shale	4	193
Red bed	34	664	Lime and rock	172	365
Gray sand	11	675	Brown shale and lime	116	481
Gray sand and lime	10	685	Hard shale	40	521
Sand and gravel	10	695	Broken shale	15	536

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-409-C	ontinued		Well HB-40-35-70	1–Continued	
Hard shale and	75	611	Sand	5	623
lime	5	616	Red bed	11	634
Broken shale	5	010	Sand	5	639
Hard shale and lime	14	630	Red bed	19	658
Sand and lime	39	669	Sand	8	666
Lime layers - sand and gravel	33	702	Red bed	31	697
Hard shale	8	710	Sand	21	718
Red sandy clay	-		Red bed	3	721
and shale	11	721	Sand	8	729
Hard shale	2	723	Red bed	3	7 <b>32</b>
Red sandy clay and lime	50	773	Sand	20	752
Hard sandy lime	22	795	Red bed	4	756
Lime		800	Sand	22	778
Hard sandy shale	4	804	Red bed	7	785
Hard shale	2	806	Sand	15	800
Sand, shale	-		Blue black shale	21	821
layers - gravel	45	851	Well HB-	40-35-801	
Hard lime	4	855		U.S. Army	
Hard sand and	14	869		ne Texas Co.	
gravel	14		Surface sand	2	2
Hard shale, breaks, sandy shale	47	916	Sandy red clay	6	8
Well HB-40-3	5-701		Quicksand	10	18
Owner: Fort Gates Wate					
	ar Supply Corp.		Yellow sand and clay	2	20
Driller: J. B. Faro			Yellow sand and clay Clay and gravel	2 20	20 40
Driller: J. B. Fard Yellow clay		18			
	quharson	18 38	Clay and gravel	20	40
Yellow clay Blue shale Chalky lime with blue	quharson 18 20	38	Clay and gravel Clay and gravel	20 15	<b>40</b> 55
Yellow clay Blue shale Chalky lime with blue shale streaks	quharson 18 20 7	38 45	Clay and gravel Clay and gravel Shale	20 15 3	40 55 58
Yellow clay Blue shale Chalky lime with blue shale streaks Shale with lime streaks	quharson 18 20	38	Clay and gravel Clay and gravel Shale Blue shale	20 15 3 2	40 55 58 60
Yellow clay Blue shale Chalky lime with blue shale streaks	quharson 18 20 7	38 45	Clay and gravel Clay and gravel Shale Blue shale Gray lime	20 15 3 2 65	40 55 58 60 125
Yellow clay Blue shale Chalky lime with blue shale streaks Shale with lime streaks Blue shale with sand and lime streaks Chalky lime with shale,	quharson 18 20 7 37	38 45 82	Clay and gravel Clay and gravel Shale Blue shale Gray lime Lime and shale	20 15 3 2 65 85	40 55 58 60 125 210
Yellow clay Blue shale Chalky lime with blue shale streaks Shale with lime streaks Blue shale with sand and lime streaks	quharson 18 20 7 37	38 45 82	Clay and gravel Clay and gravel Shale Blue shale Gray lime Lime and shale Lime and shale	20 15 3 2 65 85 85	40 55 58 60 125 210 295
Yellow clay Blue shale Chalky lime with blue shale streaks Shale with lime streaks Blue shale with sand and lime streaks Chalky lime with shale, bentonite, and sand	quharson 18 20 7 37 38	38 45 82 120	Clay and gravel Clay and gravel Shale Blue shale Gray lime Lime and shale Lime and shale Lime and shale	20 15 3 2 65 85 85 65	40 55 58 60 125 210 295 360
Yellow clay Blue shale Chalky lime with blue shale streaks Shale with lime streaks Blue shale with sand and lime streaks Chalky lime with shale, bentonite, and sand streaks	quharson 18 20 7 37 38 38	38 45 82 120 444	Clay and gravel Clay and gravel Shale Blue shale Gray lime Lime and shale Lime and shale Lime and shale	20 15 3 2 65 85 85 65 50	40 55 58 60 125 210 295 360 410
Yellow clay Blue shale Chalky lime with blue shale streaks Shale with lime streaks Blue shale with sand and lime streaks Chalky lime with shale, bentonite, and sand streaks Chalky lime	quharson 18 20 7 37 38 324 113	38 45 82 120 444 557	Clay and gravel Clay and gravel Shale Blue shale Gray lime Lime and shale Lime and shale Lime and shale Lime and shale	20 15 3 2 65 85 85 85 65 50 55	40 55 58 60 125 210 295 360 410 465
Yellow clay Blue shale Chalky lime with blue shale streaks Shale with lime streaks Blue shale with sand and lime streaks Chalky lime with shale, bentonite, and sand streaks Chalky lime Blue gumbo shale	quharson 18 20 7 37 38 324 113 13	38 45 82 120 444 557 570	Clay and gravel Clay and gravel Shale Blue shale Gray lime Lime and shale Lime and shale Lime and shale Lime and shale Lime and shale	20 15 3 2 65 85 85 65 50 55 25	40 55 58 60 125 210 295 360 410 465 490
Yellow clay Blue shale Chalky lime with blue shale streaks Shale with lime streaks Blue shale with sand and lime streaks Chalky lime with shale, bentonite, and sand streaks Chalky lime Blue gumbo shale Sand	quharson 18 20 7 37 38 324 113 13 13 18	38 45 82 120 444 557 570 588	Clay and gravel Clay and gravel Shale Blue shale Gray lime Lime and shale Lime and shale Lime and shale Lime and shale Lime and shale Shells and lime	20 15 3 2 65 85 85 65 50 55 25 10	40 55 58 60 125 210 295 360 410 465 490 500

		-				
		THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well H	IB-40-35-801Co	ntinued		Well HB-40-35-8	02–Continued	
				Soft water sand		
Lime and shale (top of first				(bottom of first		
Trinity sand)		2	522	Trinity sand)	57	540
Sand		13	535	Red bed	45	585
Sandy lime		15	550	Red bed	60	645
Shale		20	570	Water sand	17	662
Red bed		40	610	Hard broken lime	5	667
Red bed		50	660	Gravel and sand (bottom second		
Red bed		20	680	Trinity sand)	13	680
Red bed (top				Red bed	10	690
second Trinity sand)		5	685		-40-35-803	
		30	715	Weil HB		
Sand		25	740		U.S. Army yne Texas Co.	
Sand Broken sand		5	745	Surface soil	1	1
Dark shale		10	755	Red clay	7	8
Dark shale				Sand and gravel	17	25
	Well HB-40-35	-802		Sand and gravel	25	50
	Owner: U.S. A Driller: Layne Te			Lime and shale	65	115
Surface soil		15	15	Lime and shale	40	155
				Lime and shale	105	260
Gravel and water sand		12	27	Lime and shale	50	310
Lime		3	30	Lime and shale	40	350
Sand (dry)		25	55	Lime and shale	55	405
Broken lime and shale		40	95	Lime and shale	40	445
White lime		35	130	Lime and shale	40	485
Shale		35	165	Sandy shale	9	494
Lime		40	205	Sandy shale (top	-	
Gray shale and				first Trinity sand)	2	496
shells		20	225	Sand	5	501
Broken lime		45	270	Sand	6	507
White lime		45	315	Sand (bottom first Trinity sand)	10	517
Gray shale		40	355	Sandy shale	13	530
Broken lime		10	365	Red bed	5	535
Lime		40	405	Red bed	20	555
Shale		10	415	Red rock and shale	20	575
Gray shale and shells		40	455	Red rock and shale	22	597
Gray shale (top				Red rock and shale	13	610
of first Trinity sand)		28	483	Red rock and shale	25	635

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-35-8030	Continued		Well HB-40-35-80	5-Continued	
Sand, shale (top			Gray lime and shell	85	125
second Trinity sand)	30	665	Lime and shale	395	520
Sand (bottom second Trinity	45	710	Sandy lime	7	527
sand)	45	721	Sandy shale (top first Trinity		
Dark shale		721	sand)	11	538
Well HB-40-3	5-804		Sand	2	540
Owner: Jack Driller: Layne T			Sand (bottom first Trinity sand)	7	547
Surface soil	4	4	Lime	4	551
Yellow clay and	6	10	Red rock	5	556
gravel	10	20	Red bed	119	675
Yellow clay	11	31	Hard, sandy shale (top second Trinity		
Blue rock	88	119	sand)	25	700
Lime and shale	55	110	Sand	48	748
Broken lime and shale	31	150	Shale	11	759
Glen Rose sand lime	36	186		40-36-602	
Lime and shale	297	483	Owner: Oglesby \ Driller: Key Water Well	Nater Supply Corp. Drilling-Development	Co.
Sandy lime	15	498	Lime	424	424
Shale (top first Trinity sand)	6	504	Sandy lime	314	738
Sand	31	535	Sand	382	1,120
Sand and shale (bottom first Trinity sand)	8	543	Hard lime	100	1,220
Red bed	80	623	Well HB	-40-41-601	
Sand	17	640		nnny Woodlief 3. Farquharson	
Red bed	20	660	Yellow clay	25	25
Sandy shale (top second Trinity	20	680	Sandy shale and shale streaks	45	70
sand)			Sandy lime	3	73
Sand (bottom Trinity sand)	51	731	Chalky lime with		110
Broken shale	4	735	shale streaks	37 85	195
Dark shale	10	745	Chalky lime	1	196
Well HB-40	35-805		Black shale	·	
Owner: U.S Driller: Layne	. Army		Chalky lime with very few shale stringers	198	394
Surface soil (black)	5	5	Blue shale	4	398
Yellow clay	10	15	Chalky lime	4	402
Yellow clay and gravel	10	25	Good water sand	14	416
graver Blue shale and			Hard lime and flint rock	27	443
shells	15	40			

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-41-60	1-Continued			Well HB-40-43-201	(1221)
Chalky lime	17	460		Owner: U.S. Army	
Blue shale with lime streaks	20	40.5		oriller: Layne Texas Co.	
Red bed	22	482	Yellow clay and rock	60	60
Water sand	84	566	Gray lime and		
Red bed	14	480	shell	266	326
Blue shale	20	600	Hard gray lime	34	360
	4	604	Gray lime	65	425
Lime	9	613	Gray lime and breaks of shale		
Well HB-40	-41-702		Sandy lime (top of	45	470
Owner: N. C. Storm	and Joe Perkins		first Trinity		
Driller: J. B. F			sand)	35	505
Black dirt	2	2	Sand	3	508
Yellow clay	6	8	Sand	30	538
Hard lime	6	14	Sand (bottom of first Trinity		
Chalky lime	11	25	sand)	14	552
Austin chalk	33	58	Shale	13	565
Sand	4	62	Red rock	10	575
Austin chalk	168	230	Shale	25	600
Sand	6	236	Shale	5	605
Austin chalk	102	338	Sand	5	610
Trinity sand	14	352	Red bed	30	640
Lime	6	358	Blue shale	25	665
Red bed	6	364	Red rock	5	670
			Hard shale	5	675
Well HB-40-	41-903		Red rock (top of		
Owner: Ernest Driller: Fowler (			second Trinity sand)	18	693
Yellow clay	15	15	Sand	8	701
White rock	20	35	Gravel sand	30	731
Gray limestone	40	75	Shale and broken		
Gray mud	15	9 <b>0</b>	sand	4	735
Gray limestone	125	215	Sand (bottom of second Trinity		
Gray mud	7		sand)	13	748
Gray limestone		222	Blue shale	9	757
Hard, brown rock	33	255	Dark shale	3	760
Sand	5	260	Dark shale	5	765
Guild	11	271	,	Well HB-40-43-202	

Owner: U.S. Army Driller: Layne Texas Co. Yellow clay 14 14 Hard lime 35 49

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-202-Continued			Well HB-40-43-20	2-Continued	
Blue shale	27	76	Water sand and		
Lime	64	140	gravel (second Trinity sand)	34	762
Broken lime	30	170	Red bed	10	772
Shale and lime	20	190		40-43-203	
shells	20	190		J.S. Army	
Broken sand and shale	8	198		ne Texas Co.	
Sand and shells	17	215	Yellow shale	20	20
Broken lime	45	260	Blue shale	53	73
White lime	15	275	Lime	4	77
Broken lime	45	320	Blue shale	13	90
Blue shale	15	335	Broken lime	15	105
Broken lime and shale	30	365	Blue shale	10	115
Lime	31	396	Lime	54	169
Shale	4	400	Lime and shale	13	182
Lime	25	425	Lime	6	188
Sandy shale and			Broken lime	42	230
shells	30	455	Hard lime	30	260
Blue shale	5	460	Broken lime	21	281
Broken lime	20	480	Lime and shale	29	310
Shale	10	490	Lime	139	449
Lime	25	515	Hard lime	28	477
Broken lime	10	525	Lime	17	494
Shale and lime	23	548	Hard lime	6	500
Blue shale (top of first Trinity			Broken lime	15	515
sand)	4	552	Lime	41	556
Water sand	14	566	Broken lime	15	571
Sand and gravel (bottom of first			Lime	2	573
Trinity sand)	34	600	Gray shale	6	579
Gray shale	5	605	Gray sand	4	583
Red bed	40	645	Shale	2	585
Lime	13	658	Blue shale	5	590
Broken lime and shale	7	665	Broken sand	6	596
Blue shale	5	670	Sand and gravel	49	645
Red gumbo	25	695	Red, sticky shale	3	648
Red bed	10	705	Red shale	5	653
Blue shale	14	719	Blue shale	10	663
Red bed	9	728	Gray shale	2	665
	5	. 20	Red shale	15	680

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-43-203—Continued			Well HB-40-43-20	5-Continued	
Blue shale	10	690	Quicksand	23	30
Red bed	22	712	Blue rock	10	40
Red shale	44	756	Lime and shale	460	500
Red and blue	9	765	Shell	10	510
shale	9	765	Lime and shale		
Sand, <b>se</b> cond Trinity	20	785	(top of first Trinity sand)	7	517
Red bed	10	795	Sand	8	525
Well HB-40-43	204		Broken sand	5	530
			Sand	3	533
Owner: U.S. A Driller: Layne Te			Lime	4	537
Red and yellow clay	20	20	Red rock and lime	133	670
Lime and blue shale	55	75	Broken sand	2	672
Gray lime and shale	90	165	Sandy shale (top		
Lime and shale	120	285	of second Trinity sand)	3	675
Gray lime and shale	60	345	Sand	55	730
Gray lime and shale	15	360	Shale (break in	5	705
Lime	25	385	sand)	5 10	735 745
Lime and shale	148	533	Coarse sand	5	
Shale (top of first Trinity sand)	15	548	Sandy shale Dark shale	5	750 - 755
Red bed	7	555			
Sandy shale	10	565	Well HB-	40-43-206	
Red rock	10	575		U.S. Army me Texas Co.	
Shale	20	595	Yellow clay and		
Sandy shale	5	600	gravel	30	30
Red bed	35	635	Blue shale	30	60
Red bed (hole caving)	15	650	Sand	15	75
Red bed	35	685	Lime	12	87
Sand (top of second		740	Sandy lime and shale	43	130
Trinity sand)	27	712	Broken lime	20	150
Shale	1	713	Blue shale	20	170
Red rock	12	725	Sand	5	175
Sand	23	748	Sandy shale	7	182
Sandy lime	5	753	Sandy shale and	_	
Sand	5	758	lime	8	190
Well HB-40-4	3-205		Lime (soft)	45	235
Owner: U.S.			Gray shale	20	255
Driller: Layne T		2	Blue shale and shells	5	260
Sandy soil	2	2	Gray shale	10	270
Sandy clay	5	7			

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well H	B-40-43-206-Continued		Well HB-40-43-2	07Continued	
Sand	5	275	Gray lime and shale	40	100
Gray shale	33	308	Gray lime and shale	130	230
Hard lime	7	315	Lime and shale	265	495
Broken lime	25	340	Sandy lime	10	505
Hard lime	7	347	Sandy shale (top		
Hard lime	23	370	of first Trinity sand)	13	518
Sandy shale and			Sand	32	550
shells	32	402	Sand, coarse		
Lime	8	410	(bottom of first Trinity sand)	12	562
Broken lime and shale	15	425	Shale	3	565
Broken lime	35	460	Bed rock and shale	55	620
Gray shale	5	465	Shale (top of		
Lime	10	475	second Trinity sand)	40	660
Sandy shale and	20	505	Sand	5	665
shells	30	505	Broken sand	25	690
Broken sand and shale	30	535	Sand	35	725
Sand (water)	27	562	Sand, coarse		
Sand	15	577	(bottom of second Trinity sand)	10	735
Red bed	28	605	Shale	10	745
Lime	5	610		40 42 602	
Blue shale	5	615		-40-43-603	
Blue shale	15	630		ater Supply Corp. ows and Son Well Driller	
Red bed	10	640	Soil	3	3
Red bed	18	658	Rock and chalk	17	20
Blue shale	5	663	Blue rock	40	60
Red bed	5	668	Lime	55	115
Blue shale	14	682	Shale mixed with	200	405
Sand and shale	8	690	lime	380	495 788
Soft water sand	15	705	Glen Rose lime	293	873
Sand and gravel	15	720	Hensell sand	85	0/3
Brown shale	15	735	Red bed - peat gravel	22	895
	Well HB-40-43-207		Red bed, peat gravel, quartzite, pyrites, and shale	75	970
	Owner: U.S. Army Driller: Layne Texas Co.		Hosston sand	20	990
Surface soil	2	2	Shale	3	993
Yellow clay	5	7			
Yellow lime	18	25			
Blue rock	35	60			

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
	Well HB-40-44-502		Well HB-40-49-20	)1Continued	
	Owner: Temco Feed Mills Driller: R. A. Adams and Son		Lime, shale, and sand	10	460
Soil and chunk rock	3	3	Limestone, shale, and sand	10	470
Gray lime	42	45	Limestone, shale, and sand	10	480
Dark shale	5	50	Shale, lime, and		
Gray lime	140	190	sand	10	490
Shale	8	198	Shale, lime, and sand	10	500
Lime	73	271	No record	10	510
White lime	109	380	Hard shale and		
Shale	24	404	sand	10	520
Glen Rose lime	86	490	Sand, lime, and shale	10	530
Shale	1	491	Sand, lime, and		
Lime	101	592	shale	10	540
Shale	2	594	Well HR-	40-49-403	
Lime	181	775		H. Cassens	
Shale	20	795		er Drilling Co.	
Lime	63	858	Yellow clay	20	20
Blue sandy shale	8	866	Blue shale and	50	
Sand	6	872	fine sand	50	70
Sandy lime	6	878	Gray rock	10	80
Sand and gravel	25	903	Gray lime	55	135
Black shale	2	905	Blue clay	7	142
			Gray lime	48	190
	Well HB-40-49-201		Gray clay	10	200
	Owner: Gay Lockhart Driller: Gulf Oil Corp.		Gray lime	30	230
	(Complete log not shown)		Blue clay	10	240
No record	260	260	Gray lime	75	315
Lime	20	280	Blue rock	20	335
Lime and sand	20	300	Brown limestone (water)	15	350
Lime	20	320	Blue mud	5	355
Lime and sand	30	350	White mud and		
Lime and shale	50	400	sand	33	388
Lime, sand, and shale	10	410	Hard brown rock	15	403
Lime, sand, and			Red bed (shale and sand)	93	496
shale	10	420			
Lime and sand	10	430		40-51-501	
Lime and sand	10	440	Driller: Sugarloat	omas Young Mountain Oil Co.	
Lime and sand	10	450	(Complete la	og not shown)	
			Yellow clay	28	28
			Lime	8	36

THICKNESS (FEET)		THICKNESS (FEET)	
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Well HB-40-57-302

## Well HB-40-51-501-Continued

Well HB-40-51-501-Continued			Wen HB-40-57-302		
Blue slate	14	50		f Copperas Cove /ne Texas Co.	
White lime	10	60	Shale and rock	15	15
Blue slate	40	100	Yellow shale - hard		
White lime	5	105	layers	11	26
Blue slate	295	400	Shale and shells	220	246
Lime	12	412	Gray shale and hard layers		
White slate	58	470	lime rock	17	263
White lime	12	482	Gray shale	22	285
White slate	18	500	Gray shale and layers hard		
White lime, water	55	555	lime	35	320
Hard lime	9	564	Shale	11	331
White slate	36	600	Shale and lime	15	346
Red slate	10	610	Lime and shale	121	467
White slate	20	630	Lime	17	484
White sand 630 ft little water	6	636	Shale and lime	6	490
White shale 636 ft	6	642	Shale and thin layers sand	12	5 <b>02</b>
White sand, little			Sandy lime and		
water	8	650	shale	4	5 <b>0</b> 6
Red shale	10	660	Lime and shale	18	524
White lime	5	665	Sandy lime and shale	14	538
Blue shale	5	670	Hard shale and		
Lime	5	675	lime	16	554
Red shale	10	685	Hard lime and pink shale	34	588
Lime	15	700	Gray shale (soft)	14	602
Blue shale	10	710	Lime and shale		
Hard lime	5	715	(hard)	25	627
White paste	2	717	Sandy lime	8	635
Hard lime	13	730	Lime and shale	11	646
White lime	28	758	Well HE	8-40-57-303	
Red shale	3	761		Sam Millsap	
Gray lime	3	764	Driller: J.	L. Myers Sons	
Yellow shale	8	772	Caliche	19	19
Sand	6	778	Shale with lime streaks	22	41
Lime	6	784	Broken lime (caliche)	17	58
Gray slate	5	789	Shale and lime		
Lime	6	795	chalk	13	71
Brown lime	35	830	Broken lime	5	76
Gray lime	8	838			

	THICKNESS	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well HB-40-57-303-Co	(FEET)	(FEEI)	Well HE	3-40-57-305-Continued	-
			Solid blue	12	45
Shale and lime streaks	34	110	Gray, pretty hard	65	110
Sand and lime shale	8	118	Soft sand rock (cavey)	10	120
Lime shale (broken)	20	138	Hard, gray shale	1	121
Shale and streaks of lime	51	189	Hard, brown lime (some water)	352	473
Lime shale, gray	29	218	Hard	57	530
Shale, gray	7	225	White soft	20	550
Limy shale	13	238	Soft pink	11	561
Gray shale	7	245	Red	5	566
Limy shale	13	258	Gray dark shale	4	570
Shale and lime streaks	112	370		Well HB-41-39-303	
Limy shale	25	395		Owner: L. S. Passmore	
Shale, gray	7	402		Oriller: J. L. Myers Sons	
Shale and lime	16	418	Rock	14	14
Shale, gray	8	445	Clay	9	23
Limy shale	16	461	Rock and shale	17	40
Sandy lime	8	469	Rock	5	45
Lime	14	483	Sandy shale	25	70
Lime, broken and	15	498	Lime and shale	50	120
shale Sandy lime	14	512	Shale and rock	49	169
Shale soft white	1	513	Chalk rock	131	300
Sandy lime	6	519	Shale and rock	35	335
Sandy shale	4	523	Mixed shale	15	350
	2	525	Lime rock	10	360
Lime, soft White sandy shale	12	537	Lime	66	426
	2	539	Sandy shale	4	430
Shale red	- 7	546	Sand	5	435
White sandy shale Sandy shale and			Sandy shale	9 11	444 455
sand	8	554	Shale	23	478
Red shale	3	557	Sandy lime Rock and lime	23	478 506
Sandy shale red	6	563		4	510
Shale red	10	573	Rock		532
Well HB-40-5	7-305		Shale	22	332
Owner: Willie Driller: Smart Drillin				Well HB-41-40-202 Owner: Floyd Elam	
Yellow	25	25	C	Driller: Tatum Drilling Co.	
Gummy blue	8	33	Caliche	18	18
			Blue shale	24	42

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well H	B-41-40-202-Continued		Well HB-41-40	-902–Continued	
Brown water sand	10	52	Lime	34	474
Gray shale	43	95	Red shale	28	502
- •			Brown lime	3	505
	Well HB-41-40-901		Red shale	37	542
	Owner: R. A. Manning Driller: Edwin Dyson		Brown lime	3	545
Clay - rock	120	120	Red shale	7	552
Paluxy sand	10	130	Sand	13	565
Gray lime	250	380	White lime	5	570
Sandy shale	10	390			
Gray lime	25	415	Well HB-41-4	48-102	
Sandy shale	5	420	Owner: Gerald ( Driller: Fowler [		
	15	435	Fine sand and blue mud	570	570
Hard, gray lime			Fille salu and blue indu		
Blue shale	5	440	Brown limestone	100	67 <b>0</b>

# EASTLAND COUNTY

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

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JD-30-56-201	Haynes B. Ownby Drilling Co.	Mrs. Lelia Clark No. 1-A	1953	2,858	1,733	E
412	Kerlyn Oil Co.	Fentem No. A-1	1945	3,785	1,775	s
701	Durham and Young Oil Co.	H. L. Vestal No. 1	1949	2,571	1,813	E
802	Jake T. Lake Trustee	A. A. Tyler No. 1	1949	2,501	1,705	R
903	A. R. Dillard and Frank Wood	Pearl Dill No. 1	1948	3,204	1,736	D
31-43-905	Great Western Drilling Co.	Roane No. 1	1964	3,087	1,401	R
44-604	H. M. Gogle	Lone Star Produc- ing Co. No. 1	1955	1,876	1,505	E
605	Grace Oil Co.	Letha King No. 1	1955	1,839	1,491	E
811	Standard Oil of Texas	L. E. Clark No. 1	1954	2,803	1,327	E
49-703	Smart and Brooks	P. C. Larkin No. 1	1940	3,165	1,679	S
57-202	Coastal States Gas Producing Co.	J. E. Watkins No. 2	1961	3,006	1,654	E
203	Trumter Petroleum Corp.	W. S. Carter, et al. No. 1	1953	1,756	1,658	E
. 303	Coastal States Gas Producing Co.	Bertha Beal No. 1-A	-	2,790	1,532	S

# EASTLAND COUNTY

## Table 3.--Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)	Tł
Well JD-30	-48-902		Well JD-31-35-602
Owner: D. D Driller: Jack Leon			Owner: Morris Campbe Driller: Robert Lee-Bob-Ba
Sand	6	6	Soil
Sandy clay	40	46	Sand and grav <b>e</b> l (water at 18 ft)
Gravel with clay streaks	6	52	Gravel
Coarse sand	9	61	Yellow shale
Blue shale	2	63	Blue shale

Well JD-30-56-103

Owner: W. B. Holcomb Driller: J. and L. Drilling Co.

Soil	10	10
Sand	20	30
Water sand	18	48
Yellow	4	52
Brown	10	62
Red	3	65

Well JD-30-56-510

Owner: Oscar Schaefer Driller: Jack Leonard Drilling Co.

Topsoil	4	4
White sandy clay	8	12
Hard sand	19	31
White and blue clay	4	35
Sand and gravel	23	58
Red bed	1	59

### Well JD-31-35-601

#### Owner: Morris Campbell Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Shale	4	6
Sand	11	17
Gravel (water)	2	19
Coarse sand	9	28
Gravel	3	31
Shale	19	50

Owner: Morris Campbell Driller: Robert Lee-Bob-Barnhill	
3	

DEPTH

(FEET)

з

THICKNESS

(FEET)

Sand and grav <del>el</del> (water at 18 ft)	20	23
Gravel	7	30
Yellow shale	7	37
Blue shale	13	50

## Well JD-31-35-604

### **Owner: Morris Campbell** Driller: Robert Lee-Bob-Barnhill

Soil	3	3
Sand	15	18
Gravel (water)	20	38
Yellow shale	6	44
Blue shale	6	50

## Well JD-31-36-702

#### Owner: Bob Rebels Driller: Robert Lee-Bob-Barnhill

Soil	3	3
Gravel	15	18
Hard sand	1	19
Gravel (water)	19	38
Red shale	12	50
Hard sand	3	53
Soft sand	5	58
Brown shale	10	68
Purple shale	12	80

### Well JD-31-42-505

Owner: W. H. Hoffmann Driller: W. H. Hoffmann

Sandy soil	15	15
Sand and streaks of shale	20	35
Sand (little water)	7	42
Sand and gravel (water)	7	49
Red bed	23	72

THICKNESS	DEPTH
(FEET)	(FEET)

.

## Well JD-31-42-505-Continued

Sand and gravel (water)	11	83
Lime	7	90
Blue shale	3	93
Lime	23	116
Shale	2	118
Broken lime and shale	5	123
Gray shale	27	150

### Well JD-31-42-507

#### Owner: W. H. Hoffmann Driller: W. H. Hoffmann

Sandy soil	6	6
Gray sand	12	18
Yellow sand	7	25
Yellow sandy clay	17	42
Gravel	8	50
Red bed	6	56
Gray lime	4	60
Gray shale	13	73
Gray lime	5	78
Sand and red sandy soil	13	91
Red sandy shale	21	112
Blue shale	13	125
Gray sandy shale	53	178
Gray - blue water sand	13	191
Lime	4	195
Blue shale	7	202

### Well JD-31-42-508

### Owner: R. G. Lyerla Driller: W. F. Smith Drilling Co.

Topsoil	2	2
Clay	2	4
Pack sand	25	29
Water sand and gravel	6	35
Shale	8	43

Topsoil

### Well JD-31-42-509

DEPTH

(FEET)

3

THICKNESS

(FEET)

Owner: R. G. Lyerla Driller: W. F. Smith Drilling Co.
3

Pack sand	12	15
Sand rock	5	20
Water sand	10	30
Shale	1	31

# Well JD-31-42-901

#### Owner: Rollo Tinkler Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Red shale	8	10
Sand (water at 38 ft)	32	42
Hard sand	2	44
Gravel (water)	20	64
Shale	21	85

### Well JD-31-42-902

### Owner: Rollo Tinkler Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Shale red	10	12
Sand (water at 34 ft)	24	36
Shale red	8	44
Sand hard	5	49
Gravel (water)	19	68
Shale tan	5	73
Sand hard	9	82
Shale brown	10	92

## Well JD-31-42-903

Owner: J. F. Guy Driller: J. T. Carson

Clay	10	10
Gravel	2	12
Hard sand	18	30
Sandy lime	5	35
Water sand and gravel	50	85
Blue shale	6	91

		THICKNESS (FEET)	DEPTH (FEET)			THICKNESS (FEET)	DEPTH (FEET)
	Well JD-31-42-90	4		Well	ID-31-42-908—Conti	nued	
	Owner: J. F. Gu			Gravel - water		30	58
-	Driller: J. T. Carso			Shale		12	70
Clay		2	2				
Hard sand		10	12		Well JD-31-43-404 Owner: C. N. Adam		
Sand Sandy lime		7 2	19 21		Driller: J. T. Carso		
Sand and gravel		2 41	21 62	Soil		2	2
No record		10	72	Hard sand		18	20
		10	72	Red rock		18	38
	Well JD-31-42-90	5		Water - sand and grav	el	47	85
	Owner: J. F. Gu Driller: J. T. Carso	•		Gray shale		10	95
Clay		3	3	Blue shale		5	100
Dry sand		14	17		Well JD-31-43-702	2	
Water sand and grave	91	41	58		Owner: C. N. Adam	IS	
Sandy shale		10	68		Driller: J. T. Carso	n	
				Sand		2	2
	Well JD-31-42-90	6		Yellow clay		14	16
	Owner: J. F. Guy Driller: J. T. Carso			Mud and gravel		9	25
Clay		3	3	Red clay		5	30
Sand		12	15	Water sand		15	45
Hard sand - water		3	18	Lime		5	50
Sand - water		19	37	Gravel - water		25	75
Hard sand - water		27	64	Blue shale		65	140
Brown shale		18	82	Lime		2	142
		-		Blue shale		8	150
	Well JD-31-42-90				Well JD-31-43-703		
	Owner: J. F. Guy Driller: J. T. Carso				Owner: C. N. Adam		
Clay		4	4	Soil	Driller: J. T. Carsor		
Dry sand		12	16	Clay		2 3	2
Sand and gravel - wat	ter	37	53	Yellow clay		20	5
Shale		12	65	Hard sand		10	25 35
	Well JD-31-42-90	8		Water sand		17	52
	Owner: J. F. Guy	/		Blue shale		24	52 76
	Driller: J. T. Carso						
Soil		1	1		Well JD-31-43-704		
Clay		7	8		Owner: C. N. Adam Driller: J. T. Carsor		
Dry sand		11	19	Soil		2	2
Hard sand		9	28	Hard sand		18	20
						-	

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-43-704-Co	ntinued		Well JD-31-43-90	4-Continued	
Red rock	11	31	Yellow clay	2	72
Sand and gravel	44	75	Blue shale	12	84
_	13	88	Sandy lime	13	97
Blue shale			Gray shale	8	105
Well JD-31-43-	804		Pink shale	20	125
Owner: Durwood Driller: Curtis Alford Drilling	Burgess and Well Service	3	Gray shale	3	128
Soil and sand	10	10	Sandy lime	3	131
	4	14	Pink shale	13	144
Sand rock	6	20	Lime	9	153
Gray sand		26	Gray shale	7	160
Sand, little water	6		Sandy shale	15	175
Hard rock	2	28		12	187
Sand and gravel	20	48	Brown shale		
Sandy, red	14	62	Sandy shale	13	200
Yellow, sandy	1	63	Gray shale	5	205
	14	77	Sandy lime	20	225
Sandy water Red	3	80	Sand, salt water	12	237

### Well JD-31-43-903

Owner: Norman Parks				
Driller:	N. L.	Box	Drilling Contractor	

Sand	14	14
Water sand	6	20
Gravel	3	23
Gravel and clay	7	30
Lime	2	32
Gravel and clay	22	5 <b>4</b>
Red bed	5	59
Yellow clay	15	74
Lime	1	75
Blue shale	2	77

## Well JD-31-43-904

### Owner: Norman Parks Drilling: N. L. Box Drilling Contractor

Soil	2	2
Red clay	3	5
Water sand	12	17
Sand and gravel	27	44
Yellow clay	2	46
Sand and gravel	24	70

## Well JD-31-44-501

### Owner: Sam Powers Driller: N. L. Box Drilling Contractor

Red clay	3	3
Sand and clay	13	16
Tight sand 44 to 51 ft (water, 8 gpm)	35	51
Sand and clay	19	70
Coarse sand and gravel	13	83
Fine sand	22	105
Gravel	10	115
Yellow clay	5	120
Brown and blue shale	5	125

## Well JD-31-44-601

### Owner: Felix Sparks Driller: N. L. Box Drilling Contractor

Clay	6	6
Sand - little water at 28 ft	22	28
Sand and clay, increase water 38 ft	10	38
Sand and clay	8	46
Water sand	14	60
Sand and gravel	9	69

THICKNESS DEPTH

	(FEET)	(FEET)
Well JD-31-44-601-Continued		
Lime and gravel	4	73
Gravel and clay	9	82
Yellow clay	51	133
Broken lime	5	138
Blue shale	49	187

### Well JD-31-44-801

### Owner: Magnolia Petroleum Co. Driller: Unknown

Topsoil	1	1
Mixed clay	21	22
Water sand - 1 bph	6	28
Red clay	12	40
Water sand - 50 bph	26	66
Yellow clay	44	110
Blue shale	93	203
Lime	11	214
Blue shale	16	230
Lime	7	237
Water sand - 3 bph	12	249
Blue shale	34	283

### Well JD-31-44-804

### Owner: L. E. Sharp Driller: Lightfoot and McCrum

Sand	1	1
Red clay	5	6
Sand and gravel	13	19
Red clay	16	35
White sand	10	45
Sandy lime	2	47
Gravel	24	71
Yellow and blue clay	8	79

### Well JD-31-44-805

#### Owner: L. E. Sharp Driller: Lightfoot and McCrum

Sand	1	1
Red bed	4	5
Sand and gravel	11	16
Water sand	3	19

Well JD-31-44-805-Continued		
Red clay	16	35
White sand	10	45
Hard sand	3	48
Gravel	23	71
Yellow and blue clay	9	80

THICKNESS

(FEET)

DEPTH

(FEET)

# Well JD-31-51-103

#### Owner: T. H. Birdsong III Driller: Curtis Alford Drilling and Well Service

Soil	2	2
Gray shale	6	8
Sandy	16	24
Sand rock	1	25
Sandy lime	13	38
Lime and sand	14	52
Gravel and sand water	12	64
Yellow and red shale	18	82

### Well JD-31-51-104

## Owner: T. H. Birdsong III Driller: Curtis Alford Drilling and Well Service

Sand	27	27
Sand rock	1	28
Sand, little water	11	39
Hard sand rock	2	41
Sand and gravel water	9	50
Hard, sandy lime rock	2	52
Gravel and sand water	14	66
Yellow and red shale	15	81

# Well JD-31-51-105

#### Owner: –Preston Driller: Robert Lee-Bob-Barnhill

Sand	6	6
Yellow shale	6	12
Sand (water at 17 ft)	5	17
Lime	10	27
Shale, white	5	32
Sand (increase of water)	8	40
Shale, blue	10	50

THICKNESS	DEPTH
(FEET)	(FEET)

# Well JD-31-51-205

	er: City of Gorman ller: H. B. Norton	
Clay	4	4
White sand	26	30
Brown sand	10	40
White sand	18	58
Sand rock	2	60
Red clay	9	69
Water sand	5	74
Clay	3	77
Water sand	10	87
Brown clay	5	92
Water sand	12	104
Blue clay	3	107
Sandy clay	6	113

# Well JD-31-51-211

### Owner: O. R. Buchanan Driller: Curtis Alford Drilling and Well Service

Sand and clay	3	3
Sand and gravel	22	25
Red bed clay	з	28
Sand	10	38
Sand rock (little water)	2	40
Hard, sandy lime rock	3	43
Hard sand (little water)	12	55
Red bed	3	58
Hard sand rock	2	60
Sandy	4	64
Sand and gravel	19	83
Gray shale	7	9 <b>0</b>

# Well JD-31-51-212

#### Owner: O. R. Buchanan Driller: Robert Lee-Bob-Barnhill

Shale	2	2
Shale and sand	6	8
Sand	29	37
Hard sand	1	38
Soft sand	5	43
Hard sand	2	45

	(FEET)	(FEET)	
Well JD-31-51-212Continued			
Soft sand	2	47	
Hard sand	1	48	
Soft sand (water at 49 ft)	21	69	
Gravel	5	74	
Hard sand	4	78	
Gravel	10	88	
Shale	12	100	

THICKNESS

DEPTH

# Well JD-31-51-214

### Owner: Charles Underwood Driller: Robert Lee-Bob-Barnhill

Soil	2	2
Sand	12	14
Hard sand	3	17
Water sand	3	20
Hard sand	3	23
Soft sand	2	25
Hard sand	7	32
Water gravel	8	40
Hard sand	5	45
Soft sand	7	52
Hard sand	4	56
Red shale	12	68

#### Well JD-31-51-215

### Owner: Lizzie Jackson Driller: Texas Irrigation Sales, Inc.

Sand and topsoil	2	2
Gray limestone	1	3
Sand and gravel	9	12
Sand and gravel	6	18
Yellow clay	3	21
Sand and gravel	12	33
Yellow clay	12	45
Blue shale	43	88
Dark shale	8	96

### Well JD-31-51-222

Owner: City of Gorman Driller: C. E. Reynolds

Dry sand	41	41
Dry hard sand	4	45

	THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-51-222-Con	tinued	
Dry sand, red	3	48
Gray lime	6	54
Water sand	16	70
Shale, red	1	71
Shale, blue	4	75
Sand and gravel - water	10	85
Gray shale	1	86
Sand and gravel - water	10	96
Blue shale	2	98

### Well JD-31-51-224

Owner: R. F. Hodge Driller: Curtis Alford Drilling and Well Service			
Soil	3	3	
Red clay	2	5	
Sand	14	19	
Sand rock	3	22	
Sand, little water	1	23	
Hard sand rock	1	24	
Soapstone, blue	11	35	
Rock	2	37	
Sand and gravel - water	23	60	
Red and yellow shale	5	65	
Hard sand	13	78	
Red and blue shale	11	89	

#### Well JD-31-51-306

#### Owner: Norman Parks Driller N. L. Box Drilling Contractor

Soil and clay	6	6
Water sand	4	10
Sand and clay	8	18
Gravel	26	44
Red clay	4	48
Gravel	9	57
Clay	4	61
Sandy lime	5	66
Gravel	9	75
Broken lime	18	93
Blue shale	16	109

	(FEET)	(FEET)
Well JD-31-51-306—Continued		
Sandy lime	2	111
Brown shale	21	132
Sandy lime	8	140
Blue shale	20	160
Red bed	12	172
Shale and lime	97	269

THICKNESS

DEPTH

### Well JD-31-51-307

#### Owner: Norman Parks Driller: N. L. Box Drilling Contractor

-		
Soil	1	1
Clay	5	6
Sand	8	14
Gravel	3	17
Sand and gravel	8	25
Gravel and clay	18	43
Yellow clay	10	53
Gravel and clay	8	61
Red clay	7	68
Blue clay	8	76
Purple clay	13	89

## Well JD-31-52-103

### Owner: Rayford Burgess Driller: Ardean Kimmell Irrigation Service

Surface	6	6
Sand	9	15
Sand and gravel	8	23
Brown shale	5	28
Hard gravel	19	47
Conglomerate	38	85
Blue shale	10	95

## Well JD-31-52-104

### Owner: Rayford Burgess Driller: Ardean Kimmell Irrigation Service

Surface	6	6
Yellow clay	9	15
Sand	9	24
Yellow clay	11	35
Sand and gravel	11	46

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JD-31-52-104-Co	ntinued		Well JD-31-57-118-	-Continued	
Blue shale	4	50	Sand and gravel - water	15	80
Brown shale	6	56	Hard lime rock	9	89
Blue shale	13	69	Yellow and brown shale	6	95
Well JD-31-57-	118		Well JD-31-57-429		
Owner: City of Ris Driller: Curtis Alford Drilling		)	Owner: Weldo Driller: Curtis Alford Dri		9
Soil	4	4	Soil	.5	.5
Red clay	6	10	Red clay	2.5	3
Sand	10	20	Sand	32	35
Water sand	10	30	Sand rock	2	37
Red bed	4	34	Water sand - little water	10	47
Blue soapstone	11	45	Sand and gravel (tested 12 gpm)	11	58
Soapstone	5	50	Red bed	6	64
Water sand	5	55	Sand rock	2	66
Sand and shale	5	60	Water sand - bailed	-	20
Sandy lime, hard	2	62	28 to 30 gpm	11	77
Hard sand - water	3	65	Lime rock	3	80

# **ELLIS COUNTY**

# Table 2.-Selected Oil, Gas, and Stratigraphic Tests

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JK-33-49-101	Lesco, Inc.	R. S. Lesage No. 1	1944	2,898	710	E
50-601	L. H. Hughey and S. L. Carpenter	Martha Cass Fester No. 1	1946	3,007	435	E
58-101	Geologic Enterprises	Bennett No. 1	1962	1,900	505	-

# **ELLIS COUNTY**

# Table 3.-Drillers' Logs of Selected Wells

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JK-33-57-2	201		Well JK-33-57-201-	-Continued	
Owner: City of M	ilford		Soapstone	19	2,136
Driller: R. H. Dearing			Sand, hard, mineral	9	2,145
Topsoil	3	3	No record	15	2,160
Rock, white	307	310	Sand, hard, mineral	8	2,168
Shale, blue	330	640	Shale, blue	7	2,175
Sand	9	649	Sand, hard, mineral	32	2,207
Shale	15	664	Limestone, hard	43	2,250
Sand	14	678	Shale	25	2,275
Shale	36	714	Limestone	10	2,285
Sand	6	720	Marl, red	19	2,304
Shale	25	745	Shale	36	2,340
Sand	53	798	Marl, red	25	2,365
Shale	178	976	Limestone	35	2,400
Limestone, hard	224	1,200	Mari, red	18	2,418
Marl, white	25	1,225	Sandrock	10	2,428
Limestone, hard	89	1,314	Marl, red	7	2,435
Marl, white	56	1,370	Sand	15	2,450
Limestone, hard	75	1,445	Marl, red	20	2,470
Shale	10	1,455	Sand, good	118	2,588
Sand rock, very hard	7	1,462	Sand rock, very hard	4	2,592
Sand, good	23	1,485	M-11-112 22	57 202	
Shale	7	1,492	Well JK-33		
Lime, hard	58	1,550	Owner: City Driller: J. L.		
Soapstone	15	1,565	Surface soil	4	4
Marl	55	1,620	Chalk, rock	311	315
Limestone, soft	30	1,650	Shale	351	666
Limestone, hard	174	1,824	Sand	19	685
Marl, white	11	1,835	Shale	63	748
Limestone, hard	160	1,995	Sand	15	763
Marl	7	2,002	Shale	4	767
Limestone, hard	26	2,028	Sand	27	794
Limestone, soft	47	2,075	Sand, broken	28	822
Soapstone	20	2,095	Sand	30	852
Limestone, hard	10	2,105	Sand and shale	8	860
Sand, mineral	5	2,110	Shale	40	900
Limestone, hard	7	2,117			

# **ERATH COUNTY**

# Table 2.-Selected Oil, Gas, and Stratigraphic Tests

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

WELL	OPERATOR	LEASE AND WELL	DATE DRILLED	DEPTH (FT)	APPROXIMATE LAND SURFACE ELEVATION (FT)	TYPE LOG
JP-31-38-801	Coastal States Gas Producing Co.	Davis No. 1	1960	3,509	1,261	E
44-906	Foster Brothers	C. P. Putty No. 1	1948	2,935	1,411	S
47-403	W. H. Woods, Trustee	R. J. Sikes No. 1	1947	4,300	1,370	E
48-803	McCarthy Oil and Gas Corp.	W. C. Hendricks No. 1	1946	7,166	1,041	E
53-102	Leonard Refineries	J. E. Clayton No. 1	1948	3,067	1,373	E
413	Taxoline Co. Inc.	Jones No. 1	1965	3,580	1,445	E
602	Frank Buttram	Whitfield No. 1	1951	3,750	1,485	E
54-401	Arkansas - Louisiana Gas Co.	Treasure Rector No. 1	1962	3,899	1,493	E
802	Dale Smith and Louisiana Machine Co.	J. L. Kiker No. 1	1952 🥠	4,135	1,377	D,E
62-402	Haynes B. Ownby Drilling Co.	Robert C. Crouch No. 1	1949	3,859	1,516	E
64-202	Burgin Oil Co.	Mrs. M. W. Robert- son No. 1	1956	2,365	1,137	E
501	do.	Nelms No. 1	1956	2,775	1,230	E
801	American Liberty Oil Co.	D. A. Fellers No. 1	1949	4,440	1,098	E
901	Humble Oil and Refining Co.	Wright No. 1	1956	2,479	1,149	E
32-57-403	Shell Develop- ment Co.	L. W. Weeks No. 1	-	165	1,193	S

# **ERATH COUNTY**

# Table 3.-Drillers' Logs of Selected Wells

Red shale

THICKNESS DEPTH (FEET) (FEET)

### Well JP-31-39-502

### (FEET) (FEET) Well JP-31-39-902-Continued 4 Sand and gravel 8

THICKNESS

DEPTH

24

32

Owner: – Fruehauf
Driller: Terry Drilling and Supply Co.

Mixed Soil	32	32
Red bed	10	42
Gray shale	24	66
Hard sand	29	95
Water sand	15	110
Sand and gravel	5	115
Red bed	20	135
Yellow shale	10	145
Gray shale	15	160
Sand rock (very hard)	15	175
Blue shale	15	190
Sandy shale, blue	19	209
Sand	23	232
Blue shale	21	253
Sandy lime	13	266
Sandy shale	7	273
Blue shale	5	278
Sandy shale, blue	4	282
Blue shale, hard	9	291
Broken lime shells	17	308

#### Well JP-31-39-901

### Owner: Morgan Mill Water Supply Corp. Driller: Jack Leonard Drilling Co.

Topsoil	3	3
Gray sandy clay	13	16
Gray sand	6	22
Coarse sand and gravel	9	31
Red bed	4	35

#### Well JP-31-39-902

Owner:	Morgan	Mill Wate	or Supply Corp.
Drille	ər: Jack	Leonard	Drilling Co.

Topsoil	2	2
Gray sandy clay	13	15
Small gravel	5	20

Well JP-31-44-901					
Owner: Richard Kr Driller: Terry Drilling and					
Mixed soil	7	7			
Caliche	24	31			
Sand rock	32	63			
Water sand	8	71			
Blue shale	15	86			
Lime shells	9	95			
Sand and gravel (hole full of					
water)	44	139			
Blue shale	19	158			
Sand rock	6	164			
Blue shale	25	189			
Red bed	30	219			

### Well JP-31-46-203

### Owner: Phillips Petroleum Co. Driller: Jones Drilling Co.

Soil	3	3
Red clay	2	5
Yellow clay	23	28
Sand and shale - seep water	64	92
Blue shale	44	136
Hard lime	36	172
Sand and shale	58	230
Sand	60	290
Water sand	48	338
Red clay	34	372
Water sand	22	394
Shale	3	397

## Well JP-31-46-204

### Owner: Phillips Petroleum Co. Driller: Jones Drilling Co.

Caliche	3	3
Clay	27	30

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-46-204Con	tinued		Well JP-31-47-402	-Continued	
Sand - little water	65	95	Blue shale	25	382
Blue shale	35	130	Water gravel	8	390
	40	170	Water	2	392
Sandy shale	60	230	Well JP-31-	47-701	
Sandy shale	57	287	Owner: Raym		
Sand and gravel			Driller: Jones I		
- water	50	337	Soil	2	2
Red bed	33	370	Clay	3	5
Trinity water sand	25	395	Yellow clay	15	20
Shale	1	396	Gray shale	40	60
Well JP-31-46-9	01		Blue shale	11	71
Owner: L. L. Ho	oke		Gray shale	4	75
Driller: Jones Drilli	-		Blue shale	90	165
Sand and clay	40	40	Red shale	10	175
Water sand	5	45	Gray shale	5	180
Hard lime	105	150	Red bed	12	192
Lime and shale	120	270	Blue shale	11	203
Shale	27	297	Sandy shale	17	220
Water sand (Paluxy)	77	374	Pack sand (water show)	13	233
Lime and shale	14	388	Sand (Paluxy)	50	283
Water sand (Trinity)	27	415	Blue shale	15	298
Shale	5	420	Broken lime shells	4	302
Water sand	10	430	Red bed	18	320
Shale	5	435	Sand (Travis Peak)	32	352
Well JP-31-47-4	02		Red bed	3	355
Owner: Kenneth R Driller: Jones Drilli			Well JP-31	-52-301	
Topsoil	1	1	Owner: Leo Driller: N, L, Box D		
Soil	2	3	Sand, clay, and		
Lime rock	12	15	sandstone	27	27
Red bed	29	44	Water gravel	11	38
Blue shale	37	81	White clay and sand	8	46
Sandy shale	32	113	Tight gravel	12	58
Lime rock	71	184	Tight sand and		
Blue shale	46	230	white clay	12	70
Red bed	29	259	Coarse sand	10	80
Sticky shale	42	301	Red and yellow clay	15	95
Limestone	56	357			

	Table 3Drillers Logs	of Selected	Wens in Liath Ocumy Contine		
	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well	JP-31-52-301—Continued		Well JP-31-53-203	3-Continued	
Coarse sand and	47	440	Sand	25	97
gravel	17	112	Water gravel	13	110
Yellow clay	6	118	Red bed and shale	12	122
	Well JP-31-52-304		Red bed	8	130
	Owner: Joe Ben Koonce		Sand	6	136
	Driller: J. T. Carson	2	Red bed	22	158
Soil	2	2 10	Sand and water	14	172
Clay, red	8	45	gravel	5	177
Yellow clay	35	45	Red bed	0	
Sand and gravel - water	17	62	Well JP-3	1-53-404	
Sandy shale	28	90		on and Taylor T. Carson	
Red shale	10	100	Sand	30	30
Gravel - water	22	122	Gravel	20	50
Sand - water	4	126	Gravel	15	65
Blue shale	4	130	Water gravel	25	90
	Well JP-31-52-305		Sand	10	100
	Owner: Joe Ben Koonce		Water gravel	40	140
	Driller: J. T. Carson		Sand and gravel	10	150
Sand	20	20	Blue shale	10	160
Shale	27	47			
Sand - water	13	60	Well JP-3	31-53-405	
Shale	20	80		son and Taylor oot and McCrum	
Red shale	5	85	Soil	3	3
Sand	5	90	Sandy clay	3	6
Red shale	15	105	Sand	34	40
Sand - water	15	120	Blue shale	2	42
Blue shale	5	125	Sand and gravel	22	64
	Well JP-31-53-203		Gravel (water)	15	79
	Owner: Louis Bays		Blue shale	4	83
	Driller: Jones Drilling Co.		Gravel	15	98
Surface	5	5	Sandy shale	3	101
Red clay	10	15	Shale, blue and		
Chalky shale	15	30	green	9	110
Sticky shale	9	39	Shale, red	11	121
Yellow clay	5	44	Gravel (water)	14	135
Sand and clay	7	51	Shale, blue	6	141
Sand, dry	18	69			
Red bed	3	72			

THICKNESS	DEPTH
(FEET)	(FEET)

THICKNESS	DEPTH
(FEET)	(FEET)

### Well JP-31-53-503

Owner: Wayne Keith	
Driller: J. T. Brown Water Well Drilling	

Brown topsoil	1	1
Red clay	2	3
Yellow clay	22	25
White clay and sand	7	32
Sand rock	10	42
White sand	8	50
Gravel and sand	27	77
Red clay	14	91

Well JP-31-53-406

## Well JP-31-53-411

### Owner: Mrs. Ross Decker Driller: Lightfoot and McCrum

Sand	1	1
Blue and yellow clay	7	8
Sand and gravel	35	43
Water gravel	7	50
Blue clay	5	55
Water sand and gravel	60	115
Red and blue clay	5	120
Sand	10	130
Sand and blue sandy clay	17	147
Sandy lime	4	151
Blue shale	6	157

#### Well JP-31-53-412

#### Owner: Mrs. Ross Decker Driller: Lightfoot and McCrum

Sand	1	1
Blue and red clay	8	9
Sand and gravel	37	46
Water sand and gravel	74	120
Blue and red clay	10	130
Sand and blue clay	30	160
Blue shale	9	169

Owner: B. W. Mathis Driller: J. T. Brown Water Wel		
Red clay	6	6
Brown sand	2	8
Blue clay	5	13
White sand and blue clay	7	20
Blue clay and lime rock	12	32
White sand	8	40
Sand, gravel, clay clods	11	51
Sand and small gravel	5	56
Gravel and sand	29	85
Water gravel	11	96
Gravel and blue clay clods	6	102
Red bed	6	108
Gravel, sand, and sticky clay	30	138
Water gravel and sand	32	170
Yellow, green, and red clay	7	177

#### Well JP-31-53-508

#### Owner: Wayne Keith Driller: J. T. Brown Water Well Drilling

Top, brown sand	2	2
Red clay	5	7
Yellow clay	18	25
Yellow clay and gravel	5	30
White sand	10	40
White sand and gravel	22	62
White sand, gravel, and water	13	75
Sand rock	8	83
White sand and gravel	42	125
Red and green clay	10	135

THICKNESS	DEPTH
(FEET)	(FEET)

## Well JP-31-53-509

Owner: Ray L. Baldwin Driller: J. T. Brown Water Well Drilling

Brown sand	1	1
Red clay	6	7
White clay and gravel	25	32
White sand	11	43
White sand and gravel	17	60
Blue clay clods and gravel	8	68
White sand and gravel	12	80
Water gravel and sand	3	83
Water gravel and green clods	29	112
Red clay	28	140
Gravel, green and blue clods	25	165
Brown clay	5	170

## Well JP-31-53-601

Owner: Ted Robbins Driller: N. L. Box Drilling Contractor				
Top, sand	4	4		
White sand	5	9		
Yellow clay	7	16		
Blue shale	5	21		
Yellow and white clay	24	45		
Gray sand and limestone pack	16	61		
White lime rock	9	70		
Blue and gray shale	60	130		
Dark gray clay	30	160		
Dark gray sand	20	180		
Black sand	32	212		
Gray sand	53	265		
Sand and gravel	32	297		
Red clay	9	306		
Sand, gravel, and blue clay	11	317		

# Well JP-31-53-714

THICKNESS

(FEET)

DEPTH (FEET)

Owner: S. E. Keith, Jr. Driller: J. T. Brown Water Well Drilling

Top, brown sand	2	2
Red clay	4	6
Yellow clay	19	25
Brown sand and gravel	7	32
Gravel	10	42
White sand, gravel, and clods	14	56
Red clay	22	78

### Well JP-31-53-715

Owner: R. E. House Driller: N. L. Box Drilling Contractor

Clay	3	3
Sand and gravel	17	20
Sandstone	3	23
Sand and gravel (little water) 28 to 32 ft	9	32
Sand and clay	13	45
Fine water sand (water 20 gpm)	5	50
Lime	3	53
Red bed	22	75
Lime	11	86
Coarse sand	23	109
Yellow clay	4	113

# Well JP-31-53-716

### Owner: R. E. House Driller: N. L. Box Drilling Contractor

Clay	3	3
Sand and gravel	29	32
Shells, sand, and clay	14	46
Red bed	8	54
Light gravel	5	59
Red bed and tight sand	11	70
Fine sand	10	80
Coarse sand	10	90

	THICKNESS	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-53-716-C	ontinued		Well JP-31-53-80	3–Continued	
Gravel	17	107	White sand	15	50
Yellow and red	_		Red clay	10	60
clay	6	113	Trinity gravel	30	90
Well JP-31-53	-732		Brown clay	11	101
Owner: Don Rat Driller: Wilmer O			Weil JP-3	31-53-804	
Surface soil	3	3		Bill Keith bot and McCrum	
Sandy clay	17	20	Black soil	5	5
Dry sand and gravel	25	45	Sand and sandy lime	3	8
Water sand and gravel	8	53	Sandy, blue clay	12	20
Hard, gray sand	12	65	Sand and gravel	8	28
Red shale	5	70	Blue green and	3	31
Gray shale	10	80	yellow clay	3	31
Red shale	15	95	Sandy clay and gravel	9	40
Water sand and	30	125	Sand and gravel	20	60
gravel	2	125	Water sand	6	66
Red clay	2	127	Red bed	32	98
Well JP-31-53	3-733		Sand and gravel (water)	25	123
Owner: Onie Driller: Wilmer C			Blue shale	9	132
Red sandy shale	8	8	Well JP-	31-53-806	
Quicksand	17	25	Owner:	Bill Keith	
Water sand	5	30	Driller: Lightf	oot and McCrum	
Gray, sandy shale	15	45	Blacksoil	4	4
Gray, sandy lime	10	55	Blue and red clay	13	17
Red shale	45	100	Gravel	2	19
Gray, sandy shale	5	105	Sand and gravel	34	53
Water sand	10	115	Water gravel	14	67
Yellow shale	5	120	Red bed	38	105
Well JP-31-5	3-803		Sand	7	112
Owner: J. P. T			Blue and red clay	38 5	150 155
Driller: J. T. Brown Wa			Sand (hard)	5	155
Brown sand	4	4	Blue and yellow clay	5	160
White sand	4	8 20	Blue shale	20	180
Red clay	12 4	20			
White sand	4	24 27			
Blue rock	8	35			
Brown sand	0				

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-53-8	307		Well JP-31-53-809-	-Continued	
Owner: P. T.			Red clay	10	115
Driller: Lightfoot a	na McCrum 3	3	Brown clay clods and sand	5	120
Soil Sandy clay	7	10	Brown clay	15	135
Sand	40	50			
Water sand and			Well JP-31		
gravei	18	68	Owner: Jo Driller: J. T. Brown V		
Red bed	30	98	Brown topsoil	3.5	3.5
Sand and gravel	17	115	Yellow clay, gravel,		40
Blue and green clay	2	117	and sand	14.5	18
Sand and gravel	8	125	White soapstone clods	13	31
Yellow and blue clay	10	135	Yellow sand	25	56
Well JP-31-5	3-808		Dark brown sand	5	61
Owner: Bill			Blue clay	9	70
Driller: Lightfoot a			Dark gray sand	18	88
Sand	2 8	2 10	Red and green clay	13	101
Red clay	52	62	White sand	13	114
Sand and gravel Gravel (water)	5	67	Travis Peak gravel		
Yellow clay	2	69	and sand	114	228
Red bed	35	104	Well JP-3	1-54-604	
Blue and yellow clay	2	106	Owner: W. L. Pa Driller: Jones		
Sand	5	111	Topsoil	1	1
Sand and gravel	12	123	Sub <b>soil</b>	5	6
Yellow and blue			Sandy soil	14	20
clay	11	134	Sandy shale	40	60
Well JP-31-5	i3-809		Top water	5	65
Owner: C. T Driller: J. T. Brown W			Blue shale	25	90
	2	2	Lime rock	140	230
Brown sand	6	- 8	Sandy shale	70	300
Red clay Brown clay and	Ū	· ·	Water sand	10	310
sand	10	18	Water gravel	15	325
White sand	27	45	No record	3	328
Gravel	20	65	Well JP-3	81-54-802	
Green clay	5	70		. Kiker No. 1	
White clay clods and sand	15	85	Driller: Dale Smith and (Complete lo	l Louisiana Machine C og not shown)	.0.
Red clay	10	95	Soil	6	6
Brown clay and sand	10	105	Clay	6	12

THICKNESS (FEET)	 THICKNESS (FEET)	
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# Well JP-31-54-802-Continued

# Well JP-31-55-104 Owner: City of Stephenville

Sand	5	17	Owner: City of Driller: Jones		
Shale, sandy	68	85	Soil	5	5
Shale, gray	105	190	Sandy loam	10	15
Shale, sandy	5	195	Broken lime and	10	15
Wood logs	11	206	shale	166	181
Shale, sandy	19	225	Red bed	2	183
Sand	8	233	Red bed and shale	14	197
Shale, red	10	243	Sandy shale	50	247
Shale, sandy	12	255	Water sand	40	287
Sand, gravel, water	36	291	Water gravel	3	290
Shale, brown	4	295	Sandy shale	29	319
Shale, blue	5	300	Gumbo clay	6	325
Sand	15	315	Blue shale	20	345
Shale, red	5	320	Gumbo clay	4	349
Sand, hard, red, water	50	370	Red and blue shale	16	365
Gravel	6	376	Sandy shale	13	378
Shale	66		Water sand and gravel		
Gravel and sand	11	442	(Trinity)	22	400
Shale		453	Shale	2	402
	2	455	Well JP-31-	55-105	
Gravel, sand, and shale	17	455 472	Owner: City of S	Stephenville	
Gravel, sand, and			Owner: City of S Driller: Texas V	Stephenville Vater Wells	3 5
Gravel, sand, and shale	17 100	472	Owner: City of S Driller: Texas V Ground level	Stephenville Vater Wells 3.5	3.5
Gravel, sand, and shale Shale	17 100 - <b>55-103</b>	472	Owner: City of S Driller: Texas V Ground level Surface	Stephenville Vater Wells 3.5 4.5	8
Gravel, sand, and shale Shale Well JP-31	17 100 -55-103 Stephenville	472	Owner: City of S Driller: Texas V Ground level Surface Rock	Stephenville Vater Wells 3.5 4.5 1	8 9
Gravel, sand, and shale Shale Well JP-31 Owner: City of	17 100 -55-103 Stephenville	472	Owner: City of S Driller: Texas V Ground level Surface Rock Caliche, clay	Stephenville Vater Wells 3.5 4.5 1 12	8 9 21
Gravel, sand, and shale Shale Well JP-31 Owner: City of Driller: Texas	17 100 - <b>55-103</b> Stephenville Water Wells	472 572	Owner: City of S Driller: Texas V Surface Rock Caliche, clay Rock	Stephenville Vater Wells 3.5 4.5 1 12 2	8 9 21 23
Gravel, sand, and shale Shale Well JP-31 Owner: City of Driller: Texas Ground level	17 100 - <b>55-103</b> Stephenville Water Wells 3.5	472 572 3.5	Owner: City of S Driller: Texas V Ground level Surface Rock Caliche, clay Rock Caliche, clay, rock	Stephenville Vater Wells 3.5 4.5 1 12 2 27 27	8 9 21 23 50
Gravel, sand, and shale Well JP-31 Owner: City of Driller: Texas Ground level Surface	17 100 -55-103 Stephenville Water Wells 3.5 3.5	472 572 3.5 7	Owner: City of S Driller: Texas V Surface Rock Caliche, clay Rock Caliche, clay, rock Sand and clay	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5	8 9 21 23 50 55
Gravel, sand, and shale Well JP-31 Owner: City of Driller: Texas Ground level Surface Clay	17 100 -55-103 Stephenville Water Wells 3.5 3.5 3.5	472 572 3.5 7 12	Owner: City of 3 Driller: Texas V Ground level Surface Rock Caliche, clay Rock Caliche, clay, rock Sand and clay Rock, clay	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 5 10	8 9 21 23 50 55 65
Gravel, sand, and shale Well JP-31 Owner: City of Driller: Texas Ground level Surface Clay Caliche and clay	17 100 -55-103 Stephenville Water Wells 3.5 3.5 5 8	472 572 3.5 7 12 20	Owner: City of S Driller: Texas V Ground level Surface Rock Caliche, clay Rock Caliche, clay, rock Sand and clay Rock, clay Sand, clay	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 10 10	8 9 21 23 50 55 65 75
Gravel, sand, and shale Well JP-31 Owner: City of Driller: Texas Ground level Surface Clay Caliche and clay Sand with lime streaks	17 100 -55-103 Stephenville Water Wells 3.5 3.5 5 8 20	472 572 3.5 7 12 20 40	Owner: City of 3 Driller: Texas V Ground level Surface Rock Caliche, clay Rock Caliche, clay, rock Sand and clay Rock, clay	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 10 10 10 5	8 9 21 23 50 55 65 75 80
Gravel, sand, and shale Shale Well JP-31 Owner: City of Driller: Texas Ground level Surface Clay Caliche and clay Sand with lime streaks Shale and lime streaks Lime, sand, and	17 100 -55-103 Stephenville Water Wells 3.5 3.5 5 8 20 30	472 572 3.5 7 12 20 40 70	Owner: City of S Driller: Texas V Ground level Surface Rock Caliche, clay Rock Caliche, clay, rock Sand and clay Rock, clay Sand, clay Sand, rock	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 10 10	8 9 21 23 50 55 65 75
Gravel, sand, and shale Shale Well JP-31 Owner: City of Driller: Texas Ground level Surface Clay Caliche and clay Sand with lime streaks Shale and lime streaks Lime, sand, and shale streak	17 100 -55-103 Stephenville Water Wells 3.5 5 8 20 30 30 174	472 572 3.5 7 12 20 40 70 244	Owner: City of S Driller: Texas V Ground level Surface Rock Caliche, clay Rock Caliche, clay, rock Sand and clay Rock, clay Sand, rock Rock, clay Shale, lime Shale, streaks, red	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 10 10 10 5 5	8 9 21 23 50 55 65 75 80 85
Gravel, sand, and shale Shale Well JP-31 Owner: City of Driller: Texas Ground level Surface Clay Caliche and clay Sand with lime streaks Shale and lime streaks Lime, sand, and shale streak Sand - some gravel	17 100 -55-103 Stephenville Water Wells 3.5 5 8 20 30 174 24	472 572 3.5 7 12 20 40 70 244 268	Owner: City of 2         Driller: Texas v         Ground level         Surface         Rock         Caliche, clay         Rock         Caliche, clay, rock         Sand and clay         Rock, clay         Sand, clay         Sand, rock         Rock, clay         Sand, rock         Rock, clay         Shale, lime	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 10 10 10 5 5	8 9 21 23 50 55 65 75 80 85
Gravel, sand, and shale Shale Well JP-31 Cowner: City of Driller: Texas Ground level Surface Clay Caliche and clay Sand with lime streaks Shale and lime streaks Shale and lime streaks Shale and streak Shale streak	17 100 -55-103 Stephenville Water Wells 3.5 3.5 5 8 20 30 174 24 1	472 572 3.5 7 12 20 40 70 244 268 269	Owner: City of 2 Driller: Texas vGround levelSurfaceRockCaliche, clayRockCaliche, clay, rockSand and clayRock, claySand, claySand, rockRock, clayShale, limeShale streaks, redSand, shale streaks	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 10 10 10 5 5 5 5 5 5	8 9 21 23 50 55 65 75 80 85 160
Gravel, sand, and shale Shale Well JP-31 Owner: City of Driller: Texas Ground level Surface Clay Caliche and clay Sand with lime streaks Shale and lime streaks Shale and lime streaks Lime, sand, and shale streak Sand - some gravel Rock Red bed	17 100 -55-103 Stephenville Water Wells 3.5 5 8 20 30 174 24 1 1 31	472 572 3.5 7 12 20 40 70 244 268 269 300	Owner: City of S         Driller: Texas V         Ground level         Surface         Rock         Caliche, clay         Rock         Caliche, clay, rock         Sand and clay         Rock, clay         Sand, clay         Sand, rock         Rock, clay         Shale, lime         Shale streaks, red bed	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 10 10 10 5 5 5 5 5 75 20	8 9 21 23 50 55 65 75 80 85 160 180
Gravel, sand, and shale Shale Well JP-31 Cowner: City of Driller: Texas Ground level Surface Clay Caliche and clay Sand with lime streaks Shale and lime streaks Shale and lime streaks Shale and lime streaks Shale and streak Shale streak Shale streak Shale streak Shale streak Shale streak Shale streak Shale streak	17 100 -55-103 Stephenville Water Wells 3.5 3.5 5 8 20 30 174 24 1 31 31 61	472 572 3.5 7 12 20 40 70 244 268 269 300 361	Owner: City of 2 Driller: Texas vGround levelSurfaceRockCaliche, clayRockCaliche, clay, rockSand and clayRock, claySand, claySand, rockRock, clayShale, limeShale streaks, redSand, shale streaks	Stephenville Vater Wells 3.5 4.5 1 12 2 27 5 10 10 10 5 5 5 5 75 20 28	8 9 21 23 50 55 65 75 80 85 160 180 208

THICKNESS	DEPTH
(FEET)	(FEET)

Well JP-31-55-105-Continued

THICKNESS	DEPTH
(FEET)	(FEET)

### Well JP-31-55-107

# Owner: City of Stephenville

				www. City of Stanhanvilla
Shale, clay	20	270		wner: City of Stephenville ller: Fort Worth Drilling Co.
Shale, red clay	10	280	Yellow	20
Red bed	20	300	Lime	5
Sand	20	320	Blue shale	5
Sand, shale	10	330	Lime	5
Sand, gravel	31	361	Blue shale	20
Clay and lime	31	392	White lime	25
We	əll JP-31-55-106		Brown, hard lime	5
Owner: Driller: F	City of Stephenville Fort Worth Drilling Co.		Gray shale	18 2
Shale, blue	20	20	White lime	3
Lime	10	30	Blue shale	7
Shale, blue	5	35	White lime	
Lime	20	55	Brown shale	5
Lime, white	15	70	White lime	40
Lime, hard	10	80	Sandy shale	54
Shale, gray	5	85	Sand	23
Lime, white	21	106	Water	21 2
Shale, blue	2	108	Blue shale	
Lime, white	7	115	Red shale	10 20
Shale, brown	5	120	Sandy shale	5
Lime, white	15	135	White lime	20
Shale, blue	5	140	Sandy shale	5
Lime	10	150	Blue shale	5
Shale, blue	20	170	Red shale	10
Shale, sandy	44	214	Sand	10
Sand	23	237	Blue shale	15
Water	7	244	Water sand	8
Sand	11	255	Red shale	Ū
Shale, blue	15	270		Well JP-31-55-111
Shale, sandy	20	290		Owner: City of Stephenville Driller: — Hamilton
Shale, blue	5	295	Soil	7
Shale, sandy	20	315	Lime	2
Shale, blue	26	341	Caliche	21
Sand	4	345	Blue shale	55
Sand	19	364	Water	5
Shale, blue	2	366	11010	-

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
We	ell JP-31-55-111-Continued		Well JP-31-55-113	3-Continued	
Lime	80	170	Shale	7	60
Shale	5	175	Lime and shale	110	170
Red bed	2	177	Shale	10	180
Shale	78	255	Red bed	5	185
Lime	5	260	Lime	10	195
Shale	10	270	Shale	10	205
Water sand	35	305	Caliche	3	208
Red shale	5	310	Blue shale	7	215
Sandy shale	20	330	Lime	10	225
Red shale	25	355	Water sand	10	235
Water sand	22	377	Shale	10	245
			Water sand	35	280
	Well JP-31-55-112		Shale	5	285
	Owner: City of Stephenville Driller: – Hamilton		Red bed	10	295
Sand	3	3	Red and blue shale	50	345
Red shale	7	10	Sandy lime	15	360
Caliche	15	25	Sand	30	390
Blue shale	18	43	Molt IP	21 55 114	
Lime and shale	142	185	Well JP-31-55-114 Owner: City of Stephenville		
Red bed	5	190		es Drilling Co.	
Shale	5	195	Sandy loam	5	5
Lime	5	200	Sandy clay	10	15
Shale	30	230	Broken lime and shale	166	181
Sand and shale	30	260	(Glen Rose)		183
Lime	2	262	Red bed	2	103
Water sand	23	285	Red bed and shale streaks	14	197
Shale	60	345	Sandy shale, sticky	50	247
Sandy lime	12	357	Water sand (Paluxy)	40	287
Red shale	20	377	Water gravel	3	290
Water sand	11	388	Sandy shale	29	319
Brown shale	3	391	Gumbo, red, sticky	6	325
			Blue shale	20	345
	Well JP-31-55-113		Gumbo, red, sticky	4	349
	Owner: City of Stephenville Driller: — Hamilton		Red and blue shale	16	365
Soil	8	8	Sand and gravel	3	368
Lime	2	10	Blue shale	23	391
Caliche	20	30			

53

23

Lime

THICKNESS	DEPTH
(FEET)	(FEET)

## Well JP-31-55-301-Continued

Well JP-31-55-204		Well J	Well JP-31-55-301—Continued		
	Owner: City of Stephenville Driller: J. B. Tatum		Red bed	6	60
Topsoil	6	6	Brown shale	15	75
Clay	6	12	Red bed	10	85
Lime	2	14	Sandy shale	27	112
Shale	21	35	Sand - water	4	116
Lime	7	42	Broken lime and blue shale	19	135
Sand and water	3	45	Blue shale	8	
Shale	11	56	Broken lime and		
Lime	4	60	blue shale	5	148
Broken lime	30	90	Shale conglomerate	17	165
Shale	8	98	Broken lime	10	175
Shale	17	115	Sandy shale	13	188
Broken lime	23	138	Blue gumbo shale	7	195
Shale	10	148	Lime rock - hard	54	249
Red bed	4	152	Gumbo shale, blue	1	250
Shale	16	168	Lime rock and blue shale	50	300
Lignite	2	170	Sandy shale	15	315
Dry sand	10	180	Sand, dry	10	325
Red rock	4	184	Sandy shale	17	342
Hard sand	26	210	Sand and shale	3	345
Water	5	215	Sand, water	50	395
Shale	5	220	Sand and lime	10	405
Dry sand	20	240	Lime and red sand	15	420
Clay and sand	33	273	Lime, gravel	15	435
Red bed	3	276	Sand	15	450
Sand and water	14	290	Lime rock, shale	20	470
Blue shale	10	300	Red sand and lime	20	490
Red bed	7	307	Water sand	7	497
Sand and gravel	44	351	Gravel, water	16	513
	Well JP-31-55-301		Red bed	7	520
	Owner: H. S. Foster			Well JP-31-55-302	
Dril	ller: Terry Drilling and Supply Co			Owner: H. S. Foster	
Topsoil and rock	3	3		Driller: Unknown	
Brown rock	19	22	Surface	5	5
Broken lime and blue shale	23	45	Caliche	15	20
White lime	5	50	Dry Sand	10	30
Green shale	4	54	Sand rock	22	52

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	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-302	-Continued		Well JP-31-55-402	-Continued	
Water sand	15	67	Blue shale, sandy (increase	10	60
Lime	6	73	in water)	14	7 <b>4</b>
Blue shale	20	93	Lime, hard		
Sandy lime, water	11	104	Blue shale	16	90
Blue shale	4	108	Blue shale, hard	11	101
Lime	10	118	Blue shale	69	170
Sandy shale	7	125	Blue shale, hard	45	215
Sandy lime	15	140	Blue shale, sandy	50	265
Blue shale	5	1 <b>4</b> 5	Pack sand	10	275
Lime, hard	6	151	Paluxy water sand and gravel	20	295
Shale and lime	61	212	Red bed	20	315
Hard lime	28	240	Sand, fine, top Trinity	10	325
	5	245	Trinity sand	15	340
Dry sand	5	250	Red bed	3	343
Sandy lime	5	250			
Blue shale	2	259	Well JP-31	-55-407	
Red bed	2	235	Owner: Wolf Driller: Jones		
Sandy, blue shale		305		5	5
Sand and water	25		Sandy soil	13	18
Shale	5	310	Red clay	62	80
Sand and water	25	335	Sand	175	255
Shale	5	340	Shale - lime		265
Sand	30	370	Pack sand	10	205
Sand, gravel, and water	15	385	Water sand and gravel	43	308
Sandy lime	23	408	Streaks of water		
Sandy shale	8	416	sand and shale	50	358
Sandy shale	4	420	Red clay	22	380
Red shale	4	424	Travis Peak water sand	28	408
Water sand	36	460	Well JP-3	1-55-801	
Sand and gravel	17	477	Owner: City o	f Stephenville	
Red bed	11	488	Driller: Texas		
Well JP-31	1-55-402		Rock, clay, and calich <del>e</del>	20	20
Owner: B Driller: Terry Drilli			Blue rock and shale	14	34
	ng and Supply Co.	7	Lime rock and shale	119	153
Topsoil and clay	, 33	40	Gray shale and lime rock streaks	82	235
Caliche	3	43	Red and gray shale	36	271
Sand rock, hard	3	45 46	Gravel and sand	7	278
Water sand	-			52	330
Blue shale	4	50	Red and gray shale	52	330

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well JP-31-55-801-Co	ntinued		Well JP-31-62-104	-Continued	
Sand and shale	62	392	Sand	8	310
Shale, red and			Coarse sand	10	320
gray lime	62	454	Sand and shale breaks	10	330
Well JP-31-55-8	303		Gravel	17	347
Owner: Mrs. Fo Driller: Jones Drill			Gravel and shale breaks	10	357
Surface soil	3	3	Gravel	22	379
Yellow clay	12	15	Hard, sandy shale	18	397
Shale and lime	69	84	Sand	65	462
Hard lime	1	85	Hard shale	7	469
Shale and lime streaks	85	170	Well JP-31-	62-201	
Sandy shale	10	180	Owner: F.		
Shale	49	229	Driller: Jones		_
Sandy shale	11	240	Sandy soil	5	5
Sand	6	246	Red clay	13	18
Water sand	28	274	Sand	62	80
Water gravel	10	284	Shale and lime	175	255
Shale	12	296	Pack sand	10	265
Red bed, shale	7	303	Water sand and gravel	43	308
Red bed	27	330	Streaks of water sand and shale	50	358
Trinity sand and gravel	30	360	Red clay	22	380
0.4			Trinity water sand	28	408
Well JP-31-62	104		Well JP-3	1-62-301	
Owner: City of Driller: Texas Wat				od Baptist Church	
Rock and hard shale	29	29	Driller: J. T. Brown	Water Well Drilling	
Hard shale	21	50	Sand	20	20
Fine sand	15	65	Yellow clay clods	3	23
Shale and sand breaks	27	92	Yellow clay	12	35
Hard shale	61	153	Gray shale	115	150
Rock and shale	59	212	Dark gray shale	15	165
Shale	6	218	Gray shale, clay	37	202
Hard shale	17	235	Red and green clay	10	212
Shale	35	270	Red clay	4	216
Sandy shale	10	280	White sand	9	225
Rock	2	282	Green and red clay	5	230
Shale	10	292	White sand	14	244
Sandy shale	10	302	Green and red clay	8	252
			White sand	4	256

THICKNESS	DEPTH
(FEET)	(FEET)

Well JP-31-62-501

Owner: Liston Wiggins Driller: Texas Irrigation Sales, Inc.

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White caliche	12	12	Surface
White and blue sand, caliche rock	16	28	Broken roc
Limestone and sand	30	58	Clay
Blue and white		58	Shale
limestone and loose shale	30	88	Rock
Loose shale	78	166	Sand rock
Loose shale and sand	26	192	Shale, sand clay (smal
Loose shale and sand	14	206	Coal and cl
Limestone and shale (small gravel)	10	216	Sand gravel layers clay
Sand (small gravel)	10	226	
Red bed and sand	10	236	
Red bed and sand	10	246	
Small gravel and sand	10	256	Soil
Small gravel and sand	10	266	Sand
Small gravel and sand	10	276	Water sand
Sand, fine, white	10	286	Sand rock
Sand, fine, white	10	296	White lime
Sand, fine, white and larger gravel	10	306	Rose) Sand, water
Sand, white, larger	10	316	Lime shell
Sand and small gravel	10	326	Blue shaie
Sand and small gravel, red bed	10	336	Red bed
Sand and small gravel,			Blue shale
red bed	10	346	Sand, gravel
Red bed	10	356	Red bed
Red bed	10	366	
Red bed	10	376	
Red bed and lime	10	386	
Red bed and lime Red bed and trace	10	396	Surface sanc clay
of sand	10	406	Water sand
Lime and trace of sand	10	416	Yellow clay
Red bed, limestone, small gravel	10	426	Gravel
Red bed, blue shale,			Red clay

10

and limestone

THICKNESS	DEPTH
(FEET)	(FEET)

### Well JP-31-63-301

Owner: J. B. McConnell Driller: Bill Wolf and Son

Surface	16	16
Broken rock - clay	5	21
Clay	1	22
Shale	4	26
Rock	15	41
Sand rock	6	47
Shale, sand, rock, clay (small layers)	50	97
Coal and clay layers	21	118
Sand gravel, small layers clay to rock	84	202

## Well JP-31-64-301

### Owner: M. C. Lowry Driller: Terry Drilling and Supply Co.

Soil	5	5
Sand	27	32
Nater sand	10	42
Sand rock	8	50
Vhite lime (Glen		
Rose)	202	252
Sand, water	34	286
_ime shell	9	295
Blue shale	5	300
Red bed	10	310
Blue shale	5	315
and, gravel, water	32	347
Red bed	6	353

## Well JP-32-41-103

Owner: Stanley Allen Driller: A. L. Rodgers

Surface sand and clay	35	35
Water sand	10	45
Yellow clay	35	80
Gravel	5	85
Red clay	20	105
Water sand	35	140
Blue shale	6	146

436

Well JP-32-49	THICKNESS (FEET) -501	DEPTH (FEET)	Wel	THICKNESS (FEET) I JP-32-49-502	DEPTH (FEET)
Owner: E. L. Huffman Driller: Jones Drilling Co.			Owner: E. L. Huffman Driller: Jones Drilling Co.		
Surface soil	2	2	Surface sand	2	2
Yellow clay	13	15	Yellow clay	12	14
Sandy clay	30	45	Sand (water seep)	1	15
Water sand (55 gpm)	10	55	Sandy clay	45	60
Sandy shale	45	100	Lime and shell	204	264
Lime and shell	264	364	Water sand with shale breaks	100	364
Water sand with shale breaks	40	404	Red bed	21	385
Red bed	21	425	Water sand	10	395
Water sand	10	435	Red bed	18	413
Red bed	16	451	Water sand	79	492
Water sand	61	512			