TEXAS BOARD OF WATER ENGINEERS

C. S. Clark, Chairman

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MILAM COUNTY, TEXAS

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PREPARED IN COOPERATION WITH THE UNITED STATES DEPARTMENT OF THE INTERIOR. GEOLOGICAL SURVEY

MARCH 1937

REPRINTED MAY 1950

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Introduction by Samuel F. Turner Associate Hydraulic Engineer

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and to put down test holes where additional information was needed.

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells," sponsored by the State Board of Water Engineers. The Division of Ground Water of the U. S. Geological Survey cooperated in the technical direction of the project and the Bureau of Industrial Chemistry of The University of Texas furnished laboratory space and equipment and supervised the chemical analyses.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112 at Austin, Texas, sponsored by the State Board of Water Engineers. This release was typed and assembled by typists and draftsmen employed on this project.

The field work in Milam County was started on March 10, 1936. The project was shut down on June 30, was started again on July 27, and was completed on August 31, 1936. This project was Project 3763 of District 9 of the Works Progress Administration, Austin, Texas. W. I. Clark, Jr., a geologist, was project superintendent. Mr. Clark deserves great credit for his work and for the many extra hours he spent on the project. The Austin office of the Works Progress Administration made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendent, logs of the test holes drilled by the W. P. A. labor, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed are shown on the folded map in the back of the release.

The test wells were drilled by W. P. A. labor using a soil auger, drop auger, churn drill, and a sand bucket. Samples were collected at one foot intervals by the well driller in charge of the party. The project superintendent studied these samples and compiled the logs. -3-

Records of wells and springs in Milam County, Texas (All wells are dug unless otherwise indicated in "Remarks" column.)

	······	~~		and a second		1			Water	r Level
No	• ,	Distance	Owner	Driller	Date	Depth	Diam-	Height of	Depth	Date of
	1	from		1	com-	of	eter	measuring	below	measure
	į	Davilla			ple-	well	of	point a-	measu	r- men
		-			ted	(ft.)	well	bove gro-	ing po	oint
	!					/	(in.)	und(ft.)a	(fee	t)
d/	1	9 miles	Hard	Fobt. B.		2,808				
-		northeast		Penn						
	3	21 miles	Dallas Bank		1925	12	30	3.0	6.0	Apr. 27
		northeast	& Trust Co.							1936
	4	6½ miles	R.L. Batte		Old	30	30	0	27.6	do.
		north						L		<u> </u>
	6	(miles	R. Gersbach	*****	1934	17	30	3.0	16.3	do.
		northeast	T		+ 3078	7	110		77	Mon 70
	1) miles	Logan		1955	0	40	5.0	1.1	1936
******	g	ll mileast	Mewninney		614	20	76	25	20 5	1990
	Ŭ	northeast	N. U. Marrer					2.09	20.)	
	9	35 miles	W.R. Crver			Spring			Flows	do.
	2	northeast		1 1	1	010-1-16	P		T	
	10	3 miles	Tom		Old	15	60	0	13.1	do.
		northeast	Henderson		-					
	11	27 miles	T.B.	destant.	old	24	30	4.0	24.8	Mar. 28
		northeast	Burdette	1						1936
	12	$\frac{3\frac{1}{2}}{3\frac{1}{2}}$ miles	J.C.		Old	35	30	3.0	34.1	do.
		northeast	Johnsen				 		<u> </u>	ļ
	13	3≟ miles north	G.A. Krause	الستة امنية ا	Old	23	36	1.0	13.6	do.
	14	do.	do.			Spring	*		Flows	do.
	16	l_4^{\perp} miles	H.L. Harris		1906	14	30	2.0	12.7	do.
		northeast	<u></u>		1	- Jia			- 1.7- 7-	
	1 (j mi⊥e west	John Wilson		ί Οτα	48	30	1.5	40.0	d0.
	18	l <u>t</u> miles	77m. R.		Old	31	36	0	29.8	do.
		southwest	Rogers	 						
	, 20	2 miles	W. P.		j 1900	12	30	1.0	7.6	Mar. 30
		east	Ross 1st.	, }		1			- 30 -	1930
	21	00.	E.S. Flore	trady starts	1910	20	30	1.5	10.5	a0.
	22	3 miles	P•E•		1900	23	30	3.0	20.7	do.
		east	Holder							
	23	5호 miles east	Sam Mewhinney	*****	1905	18	30	3.0	16.3	do.
	24	5 miles	Henry		1915	15	60	3.0	12.3	Mar. 19
		east	McC ormick						-	1936
	26	5 2 miles east	Sam Mewhinne v	****	1912	1,500	10	0	Flows	Mar. 30 1936
	27	6 miles	Dr. J. R.		01d	14	30	3.5	6.8	Mar. 19
		east	Seibert						-	1936
<u>d</u>]	28	$6\frac{1}{2}$ miles	L. Sypert	Chicago Oil	64.00	705	8		P14.010	
	ا ارجب در در	east		& Gas Co.						
	29	7 miles	John		0ld	23	48	3.0	18.2	Mar. 19
		east	Young		1	·				1936

D/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric;
 S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

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Records obtained by W. I. Clark, Jr., Project Superintendent. (Chemical analyses of water from these wells and springs are in table of analyses.)

No.	Pump	Use	Topo-	Remarks
	and	of	graphic	
	power	water	situa-	
	b/	୍ର	tion	
1	; ;;;;::::::::::::::::::::::::::::::::			Drilled well, See log.
	1			
3	B,H	D,S	Base of	Brick curb; brick casing, top to bottom. Failed in 1928.
11	L R.N	ne	do	Apported water in gravery said over charky cray.
		טיע	u v.	drought. Reported water in sand and gravel.
6	B,H	D,SI	Ridge-	Concrete curb; 20 feet concrete casing at top. Nearly
_	1		top	fails in summer. Reported water in fine sand.
7	B,H	D,S	Flat	Wood curb; 3 feet wood casing at top. Never fails.
g		7 7	Contlo	Reported water in small gravel under 2 inches of rock.
0	Б, П	D.S	Gentie	Brick curb; 222 feet 100se brick casing at top. Never
0	Mono		srope	Tails. Reported water in Loose gravel.
2	Moue	D.2	HTTT	Estimated flow: 5 gailons a minute from fine sand and
10			side	gravel. Never Ialls.
TO	D, N	ס•ת	Gentre	No curb; no casing. Never fails. Reported water in thit te
77	TT CT	The second	srobe	Sandy Clay.
	Diu	D*2	u0.	fails in summer. Reported water in sandy gravel.
12	C, W	D.S	do.	Wood curb; brick casing, top to bottom. Cannot be pumped
				dry. Reported water in gravel and sand.
13	C.W	D.S	Ridge-	Brick curb; 22 feet brick casing at top. Cannot be pumped
_			top	dry, Reported water in gravelly sand.
14	None	D	Base of	Estimated flow: 2 gallons a minute from gravel with fine,
16	- ਹ ਹ	D at	Centlo	Congrete curb. congrete accing ten to bettom Never
10	10,11	D.D	slone	fails. Reported water in fine sand and gravel.
17	C.W		<u>00</u>	Brick curb: brick casing, ton to bottom. Never fails.
•	0		••••	Reported water in fine sond and gravel.
18	B.H	D.S	do.	Brick curb: brick casing, top to bottom. Reported 3
		2.5		barrels of water numped from well but refilled in hour.
20	B,H	D.S	do.	Concrete curb: concrete casing. top to bottom. Cannot be
			•	bailed dry. Reported water in fine sand and gravel.
21	B,H	D,S	do.	Concrete curb: 14 feet concrete casing at top. Never
				fails. Water in white sand and gravel under 7 feet of rock
22	C,H	D.S	do.	Concrete curb; 18 feet concrete casing at top. Never
				fails. Water in gravel under 22 feet of rock.
23	C.W	D.S	do.	Concrete curb; concrete casing, top to bottom. Never fails
- 10			Them and	Reported water in sandy gravel.
24	л, н	D, S	Tob or	wood curb; no casing. Never laits, Reported log: 5 leet
26	Nono	77	RHOIL	Of clay and gravel, 2 feet of rock, 3 feet of shale, and 5
20	Mone	N	Fiat	Drilled well, Gil test. Small ilow. Re- fieet of gravel.
07				ported water tastes salty. Some natural gas.
∠ [В,Н	D,S	Ridge-	Concrete curb; concrete casing, top to bottom. Nearly
	, 		top	fails in summer. Reported water in gravel.
20				Driffed Well. Oil test. See log.
20	R.H	T i	Gentle	Wood curb: concrete casing, ton to bottom. Mearly fails
<i>c.</i> 7			Q Q	Year arrest concrease program the second there is

 $\frac{d}{e}$ No water sample collected for anlysis. $\frac{d}{e}$ Water level reported.

		Dec		en 	5			antinuad		
		Kec	cords of Wells	and springs	in Mil	Lam Cou	in ty	Convinuea.	Wate:	r Tevel
No	• •	Distance	Owner	Driller	Date	Depth	Diam-	Height of	Depth	Date of-
	1	Davilla			Dle-	well	of	point a-	measu	r- ment
		20.1110		1	ited	(ft.)	well	bove gro-	ing p	oint
	!		1			1	(in.)	und(ft.)a	/(feet)
	30	니 niles east	Chas. Stegall		Old	12	30	3.0	11.9	Mar. 30, 1936
	31	2 1 miles east	Dr. T. S. Barclay		1929	43	30	3.0	45.3	Mar. 26, 1936
	32	13 miles southeast	Clarence Hines		1899	55	30	3.0	53.8	do.
	33	do,	H.H. Hines		Old	50	36	3.0	49.4	do.
	35	24 miles W.A. Turner south			Old	24	36	3.0	24.4	Apr. 4, 1936
-	36	25 miles southeast	R.L. Carlow		old	27	30	2.0	25.4	do.
	37	<u>3</u> 壹 miles south	J.D. Bell			Sprin	*	*****	Flows	d0,
****	38	4 miles south	F. Jechow		Old	23	48	3.0	24.0	do.
finad frond	40	4 <u>호</u> miles southeast	Joe Vanek	6-6-V	1926	18	30	2.0	17.3	Mar. 31, 1936
	42	6 miles south	Jess Isaac		1906	18	36	2.0	16.9	do.
ويتكرمه	43	7 miles southeast	Barclay Est.		old	16	48	1.0	11.7	Apr. 1, 1936
	44	do.	Harding Camp	guyina	old	30	30	3.0	29.0	do.
	45	6 miles southeast	Alton Oslik	ână ave	1922	13	48	3.0	4.9	do.
	46	6 <u>±</u> miles southeast	J.A. Heisch	من من المراجع المراجع معالم المراجع ال	1925	19	30	3.0	10,2	đo.
	48	do,	Geo. Gamble		1390	11	30	3.0	6.5	Mar. 20, 1936
	49	do.	Henry Von Gonten	and 244	1910	14	30	3.0	10.1	do.
<u>a</u> /	51	박출 miles southeast	J.D. Anderson	,	old	16	30	3.0	13.4	Apr. 4. 1936
	52	3 ^½ miles southeast	Rufe Graves		Old	22	30	2.0	20.2	Mar. 31, 1936
	53	33 miles southeast	Earl Straus	-11-	Old	1 111	30	2.0	44.1	Mar. 26, 1936
<u>a</u> /	54	52 miles southeast	Mrs. T.S. Barclay		1926	24	30	3•5	55°0	Mar. 13, 1936
	56	6 miles southeast	F.S. Bolton	2-12 E.S.	1910	17	30	2.7	14.3	Mar, 14, 1935
	58	do.	L.C. Applin		1840	15	30	2.8	4.7	ão.
	59	6 miles east	J.J. Brock		1925	10	30	1.7	11.1	Mar. 13, 1936
	60	do.	Paul Graves			Spring			Flows	Mar. 19, 1936
	61	6 1 miles east	J.C. Hardie	J. C. Hardie	1887	18	60	0	10.3	Mar, 13, 1936
	64	7 miles east	J.W. Brown		1890	15	36	2.0	9.0	Mar, 12, 1936

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₩.	I.	Clark,	Jr.,	Project	Superintendent.

No.	Pump	Use	Topo-	Remarks
	and	of	graphic	
	power	water	situa-	
	ј Ъ/	c/	tion	
	i 	-		
30	B,H	D,S	Gentle	Concrete curb; concrete casing, top to bottom. Never fails.
	1	:	slope	Reported water in sandy gravel.
31	B,H	D.S	do.	Concrete curb: concrete casing, top to bottom. Never fails.
	-			Reported water in gravel and clay.
32	C.W	S	do.	Wood curb: brick casing, top to bottom. Cannot be pumped
				dry. Reported water in loose gravel
33	B.H	D.S.	do.	C oncrete curh: concrete casing, top to bottom. Never fails.
~ ~ ~				Reported hard water in gravel.
35	B.H	D.S.	Ridge-	Brick curb: 8 feet brick casing at ton. Never fails. Re-
))	1/911	,	ton	norted water in loose gravel under 15 feet of rock.
36	2.11	- n.el	Centle	Concrete curb: concrete againg ton to bottom Never fails,
٥ر	1 10 11			Concrete curb, concrete casing, top to bottom, Nover raises
- 77	None		Baco of	Reput ded well lamisines 4 barrers of water an mout from gravel
1	MOTO	0,0	Dase of	Morrow foils
78	TT TT	7 0	riuge Contlo	Rever laits.
٥ر	+	D•2	Gentre	Brick curb; o feet orick casing at top, Never fairs, Mater
710			stope	In gravel under 14 leet of rock, Reported Lumisnes 9 bats
40	.5 : H		HITICOD	Concrete curb; concrete casing, top to bottom.reis an nour.
1.0			7 av. 47	Nearly fails in drought. Heported hard water in gravel.
42	в,н	L D	Gentle	Brick curb; brick casing, top to bottom, Never Ialls. He-
117			slope	ported water in sand.
43	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Cannot be
				bailed dry, Reported hard water in gravel.
44	B,H	D	do.	Concrete curb; concrete casing, top to bottom. Never ialls.
			-	Reported hard water in gravel.
45	B,H	D,S	do.	Brick curb; brick casing, top to bottom, Never fails. Re-
				ported water in yellow sandy gravel above clay.
46	3,H	D.S	do.	Concrete curb; concrete casing, top to bottom. Never fails.
				Reported hard water in sandy gravel under 1 foot of clay.
48	B,H	D,S	Valley	Concrete curb; concrete casing, top to bottom. Never fails.
		1	floor	Reported water in sandy gravel above blue shale.
49	B,H	D, S	Gentle	Brick curb; brick casing, top to bottom. Never fails. Re-
		, 	slope	ported hard water in white sand containing clay balls.
51	B,H	D,S	ão.	Concrete curb; concrete casing, top to bottom. Never Ails.
				Reported hard water in loose gravel under 3 feet of rock.
52	€,₩	S	do.	Concrete curb; 15 feet concrete casing at top, Mever fails.
				Reported water in fine sand and gravel under 4 feet of rock.
53	3,H	D,S	Hilltop	Concrete curb; concrete casing, top to bottom. Never fails.
				Reported water in gravel.
54	B,H	D.S	Rolling	Concrete curb; concrete casing, top to bottom. Never fails.
		1	upland	Reported water in white sand,
56	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom, Never fails.
	1			Reported water in yellow gravel,
58	B,H	D,S	do.	Concrete curb; stone casing, top to bottom. Mever fails.
-	1			Reported water in white sand over spapstone.
59	B.H	D	do.	Concrete curb; concrete casing. top to bottom. Fails _n
		-	-	drought. Reported water in vellow gravel.
60	None	s t	do.	Estimated flow: 5 gallons a minute from 2 openings in grav
		~		clav veined with gravel and sand. Never fails.
61	3.H	D.S.	Ridge-	Wood curb: no casing. Wailed twice in 30 years. Reported
-	1		top	water in 4 feet of white. sandy clay.
64	B.H I	 D	Rolling	Concrete curb: stone and wood casing, ton to bottom. Mayor
		-	upland	fails. Reported water in vellow. sandy gravel.

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Records of wells and springs in Milam County--Continued.

		••••••••••••••••••••••••••••••••••••••					,	Water	: Level
No.	Distance	Owner	Driller	Date	Depth	Diam-	Height of	Depth	Date of
	from	;		com-	of	eter	measuring	below	measure-
	Davilla			ple-	well	of	point a-	measu	- ment
		-		ted	(ft.)	well	bove gro-	ing po	oint
				-		(in.)	und(ft.)a	(feet))
	57 miles	Dan C. Davie		014	זער	30	25	9.6	Mar. 18.
	east	Juit de Juites		0.4.4		ر	2.9	<i></i>	1936
	98 miles	Feter Miick		1915	18	30	2.0	12.6	Mar. 20,
	east								1936
Ī	185 miles	Frank		1905	40	48	3.5	39.4	Mar. 18,
	east	Hertenberger		-		l			1936
	292 miles	B. J. Baskin		1900	28	30	3.0	28.3	do.
	east								
	39 miles	Bill Davis		Old	37	30	3.0	38.9	ão.
	east					-	-		
	6 do.	Emil Schroder	ا ماليدي مختصر بالماليين مكام موادية مكرومي ماليد من الموكين	Old	14	36	2.5	14.5	Mar. 19,
				• 1		-	-	-	1936
1	79 miles	W. G. Schwarz		1900	34	30	3.0	28.2	do,
	southeast	• •			-	1			
	8 do.	E. C. Fick		1900	18	. 30	3.0	14.4	do,
	9 95 miles	W. G. Schwarz	676-980		Sprin	g		Flows	ao,
	southeast					т 1			
	0 d.o.	Chas. R.		1924	20	30	2.0	18.5	do.
		Duncan				-			
8	1 10 miles	Mrs. W. F.	\$4=4	1900	15	30	4.0	8.9	do.
	southeast	Duncan			-	1			
	2 10 miles	M. M. Harris	••••••	1912	16	36	1.0	12.6	Mar. 27.
	east								1936
8	3 do.	Jim Bartlett		1936	15	30	3.0	10.8	Mar. 26,
	-						-		1936
8	5 105 miles	R. L. Tucker		Old	30	30	3.0	32.8	Mar. 37,
	east				-	1	-	-	1936
8	6 11 miles	Henry Platte	<u>میتوند بر میں میں میں ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک</u>	1926	20	30	3.0	20.1	Mar. 26,
	east			-					1936
8	7 do.	J.C. Charles		Old	25	36	3.0	23.8	Mar. 27,
		Est.				-	-	-	1936
8	8 115 miles	do.	المان المانية من من من من المانية المانية المانية. المانية المانية المانية المانية المانية المانية المانية ال المان جين	1890	30	36	3.0	30.3	do.
	east	1		-	-	-	-		
8	9 do.	State of	ant top		Sprin	g		Flows	do.
		Texas				Ĩ			
	0 do.	W.H. McCoy		1928	30	30	3.0	29.8	Mar. 26,
				-	-	-	-	_	1936
5	1 12 miles	Ross Davis		Old	33	30	3.0	32.0	Apr. 7.
-	east			1		-	-	-	1936
d/ 9	2 11 miles	do.	 مرتبعة <u>محمد بحمد برو</u> ر المراقع بين والمحاكم الم حيد منك	1925	340	6-5/8			
	east			1	-				
	3 13 miles	Ernest	Ernest	1925	20	30	0.5	15.5	Apr. 7.
	east	Gilliland	Gilliland			ĺ	-		1936

 a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
 b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine, W, windmill; H, hand; number indicates horsepower.

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W.	I.	Clark,	Project	Superintendent

No.	Pump	Use	Торо-	Remarks
	and	of	graphic	
	power	water	situa-	
	<u>b</u> /	<u>c</u> /	ti o n	
65	C,W	D	Gentle	Brick curb; brick casing, top to bottom. Never fails. Re-
ا سر، برمیر خو	! 	1	slope	ported water in small gravel containing fossils.
69	В,Н	S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy gravel.
71	C,W	S	Flat	Steel curb; brick casing, top to bottom. Reported log: 5
				feet black scil, 30 feet gray and yellow clay, 5 feet sandy
72	C,W	D,S	Hill-	Concrete curb; concrete casing, top to bottom. gravel.
			side	Never fails. Reported water hard.
73	B,H	D	Flat	Brick curb; brick casing, top to bottom. Strong supply. Re-
				ported hard water in yellow clay.
76	B,H		Gentle	Wood curb: brick casing, top to bottom. Nearly fails in
			slope	summer. Reported water in red clay with sand veins under
77	B.H	S	do.	Brick curb: brick casing, top to bottom. blue shale.
				Never fails. Reported hard water in gravel.
78	C.G.1	D.S	Slope	Wood curb: wood casing. top to bottom. Never fails. Re-
	, ,	,	·- · <u>r</u> ·	ported soft water in gravel.
79	None	S	Head of	Estimated flow: 2 gallons a minute from gravel and clay.
			vallev	Never fails.
80	B.H	D.S	Gentle	Concrete curb: concrete casing, top to bottom. 2 feet of
	,	,	slope	loose brick in bottom. Nearly fails in drought. Reported
81	B.H	D.S.	Slope	Brick curb. Never fails. Reported hard [water in gravel.
	,	-,2	Stebe	water in gravel over shale.
82	B.H	D.S	Gentle	Brick curb. concrete casing ton to hottom. Never fails. Re-
	- ,	-,-	slope	ported water in fine sandy gravel under 8 feet of grav clav.
83	B.H	DS	Head of	Concrete curb: concrete casing ton to bottom. Never fails.
	- ,	,	draw	Reported water in fine send and gravel under 10 feet of clav.
85	C.W	D.S	Ridge-	Concrete curb: concrete casing ton to bottom. Never fails.
	,	-,0	ton	Reported hard water in sandy gravel.
86	B.H	D.S	Gentle	Concrete curb. concrete casing ton to bottom Never fails.
00	,	-,0	slone	Reported water in 2 feet of sandy gravel under 15 feet of
87	C.W	DS	0 <u>0</u>	Brick curb: brick casing ton to bottom. Can- Chalky Clay.
0,	,	2,5	uUI	not he numed dry Reported water in white sendy gravel.
88	BH	DS	-05	Brick curb: brick casing top to bottom. Never fails. Re-
••	2,11	-,0	uv .	ported water in packed candy gravel under white chalky clay
89	None		Foot of	Estimated flow: 1 callon a minute from 1 openings in sandy
		River	terrace	clay under 2 fact of neeked group and clay
90	<u> २ म</u>	DS	Gentle	Congrete auth: congrete againg ten to better Never fails
.0	,12	2,0	GOLDE	but work supply . Perented water in growel
91	BH	N	do	Congrete supply. Reported water in graver.
21	11911	11	40.	in surror. Depended water in surd
92				In summer. Reported water in sand.
20		1		printed out well. Reported only water encountered was weak
0'7			Contla	Supply at 20-00 leet.
90	р,п.	л, с ,	Gentle	Concrete curb; concrete casing, top to botto . Nearly fails
	; , , ,		srobe	In arought. Reported water in sandy gravel below white,
- / T		- 4.4 -	T . 3 · 1	chaiky clay.
$\frac{C}{A}$	irrig	ation;	ind, ind	ustrial; P, public; D, domestic; S, stock; N, not used.

d/No water sample collected for analysis. e/Water level reported.

-9-Records of wells and springs in Milam County---Continued.

	*	ł	1	ł			1	Wate:	r Level
No.	Distance	Owner	Driller	Date	Depth	Diam-	Height of	Depth	Date of
	from		1	com-	of	eter	measuring	below	measure-
	Cameron		3	ple-	well	of	point a-	measu	r- ment
				ted	(ft.)	well	bove gro-	ing p	oint
فسلاده ويسعده					1	(in.)	und(ft.)a	/(feet)
100	7世 miles	Nichaus Estate		1935	160	6-5/8	1.0	60.1	Apr. 8,
	south			1	L	Ļ	1		1936
105	7 miles	Mrs. Ben		1910	32	30	4.0	32.9	Apr. b.
	south	Mcclelland				L			1936
٤∪⊥	OZ miles	J. W. Kemp		010	30	30	0	23.0	ao.
- 101	south			1077	- 000	C FTO	! 	1	
104	ao.	۵0.	Codenes	1933	200	0-5/0	1.9	40.2	a0.
105	đo	Tronk Unhert	1	1010	1 117	70	70	75 7	Ann. 11
	u0.	FISHA NUDELU		1 1910	עד		5.0	55+1	1926
- 106	-0 <u>5</u>	T.D. Leadwell		1935	150	6-5/8	0	60.0	May 2.
		1 Tenter					Ŭ	00.0	1936 e/
a7107	6 miles	P.T. Batte	Alexander		3.137				
	southwest	N. H. Darre	and Lyles		J, - J (
112	44 miles	Cole Ross			Spring			Flows	Mar. 16.
_	southwest	0			: 0 2	1			1936
113	45 miles	do.		1910	31	30	1.5	30.8	d.o.,
-	southwest			-	-	-	-	-	
115	6 miles	Sam Law	Bud		Spring			Flows	May 1,
	southwest	1 1							1936
<u>a/116</u>	do.	Baskin Bros.		1915	2,200				
117	5½ miles	Chester	\$19au	1925	9	30	3.0	7.6	May 19,
	west	Huffman							1936
118	6 miles	H.J. Havlik		01 d	16	36	3.0	13.8	do.
	West								30
119	og miles	Joe Harelica			Spring	5 5	*****	FLOWS	Mar. 10 ,
	southwest			1010		70		<u>- 76 7</u>	1930
120	uv.	uo.	******	1910	4 7	∪ر	5.0	20.2	u0•
121	9± miles	Jud Davis		1909	25	36	4.0	25.7	Apr. 14.
	west			±,00,0				-)• (1936
122	do.	Louis Walshak	n fan t	01 d	1 4	30	3.0	11.9	do.
		-		•					
123	9 miles	A.W. Zajicek	**	1898	17	72	2.0	6.5	June 11,
	west			-				-	1936
124	8 miles	C.P. Watt		1925	16	30	3.5	16.5	Apr. 14.
	west								1936
125	7 ^늘 miles	D.K. Hall	gada ana	010	13	48	4.0	12.0	do.
	west								
126	7 miles	Mrs. J. W.		1926	11	30	1.0	9•4	Apr. 2,
	west	McClendon							1936
15(b miles	F. J.		019	10	36	3.0	6.0	May 19,
100	West	Richardson							1936
120	45 miles	Mrs. F. Snoai		Ord	9	30	3.0	0•1	do.
120	UL miles	Chan Down 111-		107	·~ · · · · · · · · · · · · · · · · · ·				
+c]	West	VIDS. FOVILLE		-724	T++	∣ ∨ر	C.U	د ان	ulu .
a/ Me	asuring noi	nt was usually t	on of casin	a to	n of m	mn he	se, or tor	of we	11 curb

S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

				-10-	
W.	I.	Clark,	Jr.,	Project	Superintendent

)

No.	Pump and	Use of	Topo- ' graphic'	Remarks
	power	water	situa-	
	<u>b</u> /	<u>c</u> /	tion	
100	C,-,-	- D	Gentle	Drilled well. Water level measured after pumped 2 hours.
100	D TT		stope	Never fails. Reported water in gray sand at 150-152 feet.
102	, д, п	۵,۵	u U •	ported hard water in sand.
103	℃,₩	D,S	Top of knoll	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sand.
104	None	Ν	Gentle	Drilled well. Strong supply. Reported water in sand, unfit for irrigation because of mineral content.
105	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails.
106	C,G,-		do.	Drilled well. Reported mineralized water cased off at 75
107	None	N		feet. Strong supply of mineral water at 110 feet in 5 feet Drilled well. Oil test. Altitude 328 feet. of gray sand.
				See log.
112	None	S	Valley	Estimated flow: 2 gallons a minute from several openings in sandy gravel above blue shale. Nearly fails in drought.
113	C.G.2	D.S	Gentle	Concrete curb: concrete casing. top to bottom. Never fails.
	,-,	,	slope	Reported water in white sand and gravel.
115	None	S	Base of	Estimated flow: 10 gallons a minute from 3 openings in sand
			hill	under gravel hill. Never fails.
116	None	N	Gentle slope	Drilled well. Oil test. Known as Huffman No.1 on Zellnev farm. Reported strong flow of fresh water when drilled.
117	В,Н	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails.
118	R H	D g	Slope to	Brick outh brick cacing ton to bottom. Never fails, Re-
110	,	2,0	vallev	norted water in coarse gravel.
119	None	S	Hill-	Estimated flow. 5 gallons a minute from 2 openings in sandy
		-	side	gravel under conglomerate containing small fossils. Never
120	B,H	D,S	Flat	Brick curb; 21 feet brick casing at top. Reported fails.
123	DU	1D G	Contla	Water in sandy gravel under 4 leet of comented gravel.
1~1 	л, п	,5	slope	ported water in sandy gravel.
122	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Nearly fails in drought. Reported water in sandy gravel.
123	В,Н	D	dc.	Brick curb; brick casing, top to botton. Never fails. Re-
124		s	u o	Galvanized iron curb; galvanized iron casing, top to bottom
125		D C	do	Failed in 1934. Reported water in sandy clay.
1.00		5,5	u 0 .	Never fails. Reported water in fine quicksand.
126	C,W	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails Reported water in yellow gravel.
127	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Never fails. Re-
128	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails.
100	<u> </u>			Reported water in gravel under gravel and clay.
TSA	в,н	s,u	do.	Galvanized iron curb; galvanized iron casing, top to bottom. Never fails. Reported water in gravel under chalky, yellow
<u> </u>	1	_		clay.
c/ I	, irria	gaticn	; Ind, in	dustrial: P. public: D. demestic: S. stock: N. not used.

 \overline{d} No water sample collected for analysis. \overline{e} Water level reported.

-11-Records of wells and springs in Milam County--Continued.

No.	Distance from Cameron	Cwner	Owner Driller		Date Depth 1 com- of ple- well ted (ft.)		Height of measuring point a-, bove gro- und(ft.)a	Depth Date of below measure- measur- ment ing point (feet) 3.4 June 13,	
131	6 miles west	M. J. Dodd	بلان المراجع ا المراجع المراجع المراجع المراجع المراجع	1931	6	30	3.0	3.4	June 13, 1936
132	4 miles west	John Hollas		1930	10	30	2.0	3•7	do.
133	2 <u>3</u> miles west	Mondrick Est.		Old	31	30	2.0	8.8	do.
134	55 miles northwest	Mike Sipula		Old	31	60	4.0	13•7	May 21, 1936
135	6 miles northwest	Marak Indepen- dent School	••••••••••••••••••••••••••••••••••••••	Old	19	36	3.0	13.2	do.
136	5± miles northwest	Rob Fuller		Old	21	30	1.0	15.7	do.
137	6 <u>1</u> miles northwest	S. D. Lagrone	******	1906	26	30	2.0	16.3	do.
d/138	7 [±] miles northwest	J. F. Bartek	W. H. Birdwell	1934	1,924	6-5/8	****		
139	8 miles northwest	Monroe Est.		1925	17	30	2.0	13.2	June 11, 1936
140	8 <u>1</u> miles northwest	Emmit Coleman		1929	24	36	2.0	19.6	do.
141	10½ miles northwest	G.K. Heugatter		1932	17	30	2.0	10.9	do.
142	10 miles northwest	Frank Griffin	••••••••••••••••••••••••••••••••••••••	1925	25	36	3.0	18.3	do.
143	9 miles northwest	Walter Fuchs		1900	12	30	2.0	4.6	do.
146	4 miles north	G•₩. Baskin		1927	20	30	3.0	18.0	May 13, 1936
148	5章 miles north	Dave Link		Old	22	30	4.0	23.1	do.
149	/ miles northeast	Phoenix Life Ins. Co.	••••••	1925	18	30	0	10.1	d0.
150	o miles northeast	Albert Chamber	5		20	30	0.5	10.0	do.
191	45 miles north	Mrs. F. M. Delahunty	₽++	1928	13	40	2.0	0.2	d0.
	o miles northeast	L. C. Boyd	***	Old	12	30	2.0	2.0	June 5, 1936
	north	Hensley		010	10	30	3.0	4• (Apr. 18, 1936
+22	north	Mrs. Jell Kemp	6ng 100	489 v v	20		0.5	10.4	d0.
150	au.				Sprin			FTOM	ao.
-27	north	L.A. MICHALKA		1934	19		J.U	14.4	0.0.
- <u>7</u> 50	uu.	DI Dati		1919	15 	0ر 70	J•U	5.0	Apr. $1/,$ 1936
	north	R. D. Batte		1924	+4 		3.0	۲0•7	d0.
T.00	north	Utark Ketty		1931	57	60	1.U	1.9	do.

				-12-	
w.	I.	Clark,	Jr.,	Project	Superintendent

			•	
No.	Pump	Use	Topo-	Remarks
	and	of	graphic	
	power	water	situa-	
	<u>b</u> /	<u>c/</u>]	tion	
1121			TT - 2 - 0	A how the sector to better Mover fails
191	в,н	D,S	Head of	Concrete curb; concrete casing, top to bottom. Never fails.
172	DŤT	a	draw	Reported water in sandy graver.
100	<i>р</i> ,п	G	Gentre	in drought Depented hand mater in gandy gravel.
133	ਧੁਰ	D d	STODA 1	Wood aught. hnick acging ton to bettom. Nearly fails in
100	11,04	2,0	u u.	drought. Reported hard water in sandy gravel.
134	B,H	D,S	do.	Wood curb; brick casing, top to bottom. Never fails. Re-
i	·			ported hard water in gravel.
135	B,H	D,P	do.	Brick curb; brick casing, top to bottom. Never fails. Re-
1				ported water in gravel.
136	B,H	S	do.	Concrete curb; concrete casing, top to bottom. Strong supply.
				Reported hard water with salty taste in gravel.
137	B,H	D,S	Flat	Concrete curb; concrete and brick casing, top tc bcttom. Ne-
			1	ver fails. Reported water in sandy gravel under chalky clay.
138			Wide	Drilled well. Oil test. 1,568 feet of 6-5/8-inch steel cas-
			valley	ing. Reported flow of hot sulphur water shut off cil.See log.
139	B,H	D,S	Flat	Concrete curb; concrete casing, top to bottom. Never fails.
				Reported water in sandy clay.
140	B,H	S	do.	Brick curb; brick casing, top to bottom. Nearly fails in
	بد می در قد هر انتظار با استان داشتا			summer. Reported hard water in sandy gravel.
141	В,Н	D,S	do.	Brick curb; brick casing, top to bottom. Nearly fails in
				drought. Reported hard water in sandy gravel and clay.
142	в,н	S	đo.	Wood curb; wood casing, top to bottom. Nearly fails in sum-
1/7	TD 77		~~~~	mer. Reported hard water in sandy gravel and clay.
140	в,н	D,S	Gentle	Brick curb; brick casing, top to bottom. Never Iails, Re-
1/6	DIT	ļ	slope	ported hard water in sandy gravel.
740	ь,п		drow	Depart d hand meter in lease good group!
148	рц	l n a	Contlo	Wood aught wood coging tog to hittom Never fails Perert-
T=0	لللو فيد	2,0	glone	ad hand water in herd and helew block cumbe and gravel.
149	вн	+	do	No surb: concrete coging ten to better Nearly fails in
7-2.2	<u>د د</u>		u 0 •	No curo; concrete casing, top to bettom. Nearly fails in
150	C.W	I D S	<u>do.</u>	Concrete curb: concrete casing top to bottom. Never fails.
	• , 11	1,0,0	401	Reported water in sandy gravel below black gumbo and Clay.
151	B.H	D.S	.oh	Wood curb: wood casing ton to bottom. Never fails. Re-
	,	,~		norted water in small gravel below black gumbo and gravel.
152	B,H	S	Hill-	Wood curb: wood casing, top to bottom. Never fails. Re-
			side	ported water in gravel below white gravelly clay.
154	B,H	D,S	Edge of	Brick curb; brick casing, top to bottom. Never fails. Re-
			valley	ported water in sandy gravel.
155	B,H	D,S	Gentle	Concrete curb: concrete casing, top to bottom. Never fails.
			slope	Reported hard water in sandy gravel.
156	None	I,S	iEdge cf	Water flows from 3 openings in sandy gravel below clay. No-
		<u> </u>	valley	ver fails.
157	B,H	D,S	Gentle	Concrete curb; concrete casing, top to bottom. Never fails.
			slope	Reported water in sandy gravel below sandy shale.
158		S	do.	Wood curb; wood casing, top to bottom. Never fails. Report-
		ļ	<u> </u>	ed water in sand and small gravel containing fossil bunes.
159	в,Н	D	do.	Wood curb; concrete casing, top to bottom. Never fails. Re-
100	<u> </u>	 		ported water in small gravel.
трО	CI,E	, ⊥	do.	Concrete curb; concrete casing, top to bottom. Never fails.
	5	1		Reported produces 100 gallons a minute from gravel. Irri-

gates 12 acre nursery.

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]	-3-			
Records	of	wells	and	springs	in	Milam	CountyContinued.	

								Water	· Level
No.	Distance	Owner	Driller	Date	Depth	Diam-	Height of	Depth	Date of
	from			com-	of	eter	measuring	below	measure-
	Cameron	E		nle-	well	of	point a-	Imeasu	- ment
		1		ted	(Pt.)	well	hove gro-	ing no	vint
		1		Juca	. (1 0 •)	(in)	$\frac{10000}{100}$	llfoot	V LIL U
		1		1		(TUP)		(1000	/
161	l- miles	R.L. Batte		1936	20		0	17.7	Apr. 18,
	northeast						1		1936
162	iz mile	F. T.	······	- Old	17	30	3.0	17.7	Apr. 17.
206	north	Tohrendorf		, v -a	-,	50	J.¢		1936
7611		Fair Oncore			(marin	~			<u></u>
104	E WITE	Mrs. W. T.	8-9-m		Sprin	e 		I FITOMS	1 uU•
<u> </u>	east	Heiley		·					
165	4 miles	John McCierren	448 648	OTq	19,	30	2.0	14.3	June 4,
	southeast	Jr.		1					1936
169	6 miles	Clyde Hensley	*****	Old	23	- 30	1.5	22.8	Apr. 22,
	southeast				_				1936
170	do.	T.S. Henderson	د		13	36	1.0	10.8	do.
1-								ł	
171	ht miles	Don Dunnio			112	211	2.0	36.6	0.5
- 1-	OS mires	Den Durite			-72	27	2.00	0.00	
	southeast			1070		1.0		- 10 10	
1/2	/ miles	Max Kennedy	2000 (Control Control	1935	44	48	3.0	40.4	ao.
	east				l l				1
173	6 miles	Boaz Matocha		1928	64	30	3.0	65.1	do.
	east								
174	4 miles	Neal Ethridge		Old	17	30	2.0	15.8	do.
•	east					-		-	
175	do.	N. Y. Havs		1912	120	8	1.0	99.9	June 4.
-15		14. 14 1100 10				-	-+0	1 55-5	1936
7.76	6	T N. Dogor		1016	16		20	78 6	Ann 28
тįО	OMILES	T. N. LORGA	daug breit	1910	40		2 .0	50.0	Apr. 20,
	east			1000	-				1920
111	bž miles	αο.	Coffield	1959	3890	T 0	ar	FTOME	d0.
	east		and Hale						}
178	45 miles	John McDermott		Old	. 52	48	2.0	50.6	June 4,
	east								1936
179	6 miles	do.			Sprin	g		Flows	June 19,
15	east	1			1	5		-	1936
17180	-05		Inderwrit-		2754				
<u> </u>		1,0011	ere Oil Co						
707	3.0	T D TIL	015 014 00	1000	75	710		77 0	160 11
TOT	ao.	J.P. Wise		1923	22	40	0∎ر	22.2	May 4,
									1930
185	52 miles	J.H. McDonald		01d	28	36	3.0	23.6	June 5,
-	northeast								1936
183	62 miles	Jim sherfield	6-1 tra	1890	24	48	3.0	19.3	do.
-	northeast	1		_	· ·		_		\$ 2
184	74 miles	Н. Н.		1928	23	30	2.0	16.7	do.
	northeast	Hartsfield				<u> </u>			•
TRE	81 milos	A.C. Dinna		014		76		117 6	20
109	Nonthoost	v.c. Trhha	9-89-47	Urd		⊍ر	0 •€	+ 3 •0	u0.
101	nor meast			7000					7 -
τορ	72 miles	Mrs. Bill		79A0	56	; 0ر	5.0	50.0	ao.
	northeast	Lindsey							·

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
 b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric;
 S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

No.	Pump and	Use of	Topo- graphic	Remarks
	power	Water	situa-	
	<u>b</u> /	<u>c</u> /	ticn	
161		D	Gentle	Curb and casing not completed. Reported water in sandy, yel-
			slope	low gravel with fussil shells under 6 ¹ feet of soft lime-
162	B.H	D	do.	Concrete curb: concrete casing. top to bottom. stone.
		ļ	1	Never fails. Reported water in small gravel.
164	None	I	Hill-	Estimated flcw: 50 gallons a minute from 7 openings in fine,
			side	gray sand. Never fails. Used for irrigation and supplies
165	C,W	D,S,I	Hilltop	Concrete curb: concrete casing, top to fishing lake.
			-	bottom. Strong supply. Reported water in fine white sand.
169	B,H	D.S	Ridge-	Concrete curb: concrete casing, top to bottom. Reported
		1	top	water in white sand.
170	B,H	D,S	Side of	Rock curb: rock casing, top to bottom. Reported water enters
			hollow	at 8 feet in winter and in bottom from white quicksand in
171	B.H	D,S	Hilltop	Concrete curb: concrete casing, top tc bottom. summer.
			-	Reported water in white guicksand below 10 feet of slatey
172	B.H	D	Gentle	Wood curb: concrete casing, top to bottom. shale rock.
			slepe	Never fails. Reported water in yellow sand.
173	B.H	D.S	ão.	Concrete curb; concrete casing, top to bottom. Strong supply
				Reported water in sand.
174	B,H	D,S	Ridge-	Wood curb: concrete casing, top to bottom. Never fails. Re-
			top	ported water in sand.
175	C,W	D,S	Small	Drilled well. 8-inch casing, top to bottom, bottom 20 feet
			knoll	perforated. Strong well. Reported water in gray sand.
176	C,W	S	Gentle	Concrete curb: concrete casing, top to bottom. Never fails.
			slcpe	Reported water in fine sand.
177	Ncne	D,S	Flat	Drilled well. Former oil test. Plugged back to 820 feet.
			valley	Reported water flowing from 10 feet of gravel. Altitude 420
178	B,H	D,S	Gentle	Concrate curb; 15 feet concrete casing at feet. See log.
			slope	top. Never fails. Reported hard water in gray sand.
179	None	N	River	Estimated flow: 50 gallens a minute from 12 openings in sand
			bank	and gravel. Never fails.
180				Drilled well. Oil test. See log.
181	B,H	D,S	Flat	Concrete curb: concrete casing, top to bottom. Never fails.
				Reported water in fine red sand.
182	B,H	D,S	Gentle	Brick curb: brick casing, top to bottom. Never fails. Re-
			slope	ported water in gravel below gravelly clay.
183	B,H	D,S		Wood curb: 12 feet wood casing at top. Never fails. Report-
				ed water in sandy grovel.
184	C,W	D	Gentle	Concrete curb: concrete casing, top to bottom. Never fails.
			slope	Reported water in gravel below gravelly black sand.
185	B,H	D	dc.	Wood curb; concrete casing, top to bottom. Never fails. Re-
	1			ported water in sand.
186	B,H	D,S	do.	Concrete curb: concrete casing. top to bottom. Never fails.
			1	Reported water in brown quicksand.
c/ I	, irri	gaticn	; Ind, ir	dustrial: P. public: D. domestic: S. stock: N. not used.

-14-W. I. Clark, Jr., Project Superintendent

d/ No water sample collected for analyses. e/ Water level reported. -15-

								Wate	· Level
No.	Distance	Owner	Driller	Date	Depth	hiam-	Height of	nepth	Date of
	from	1		. com-	of	eter	measuring	below	measure-
	Bailev_		1	nle	well	of	noint a-	measu	r- ment
	ville	1 *	1	ted	(ft.)	well	bove grom	ຳກອະກາ	oint
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a) B	i 1		(100)	(in.)	und(ft.)a	(feet)
200	8 miles	J. C. Freeman	·	<u>610</u>	95	6	0.5	86.4	Tune 5.
1/201	south					 			1936
a/201	7 miles south	Stidlam	Reiter, Fos- ter & Simns		3,830				
202	6 miles	Mrs. B. F.		1836	60	30	2.0	48.9	May 20,
	south	Stidham	1			1			1936
203	45 miles	Sam Rose	Sam Rose	1936	30	30	3.0	29.3	do.
	south							1 1 2 6	
204	south	C. G. Crock	4 4444	019	50	36	4.0	43.2	ao.
206	ó miles	Jones Prairie	605.00	01d	61	36	3.0	41.2	do.
	southwest	School				<u> </u>			
207	6호 miles	Louis		Old	37	30	1.0	23•7	d.o.
208	southwest	Anderson		013		70		73 6	
200	o miles	Mrs. M. Mondrick		i Ora	15	1 30	2.0	12.0	uu.
210	34 miles	Tom Lehnman		014	30	36	3.0	31.2	June 16.
	west			0	50		50-		1936
d/211	3를 miles	- White	Milam Oil		1,368				
	west		& Gas Co.			1			
212	3 miles	C.B. Battle		019	13	48	3.0	8.4	do.
- 017	northwest				Chan and an			TTI OTTA	do
ربع	$\frac{1}{24}$ miles	WITTROU FRO			Shring	1		TTOMP	u0•
d/214	2 miles	A.O. Stuckey		616	38	48		0	do.
	northwest			U	2				
215	In Bailey	Bob Ford		1933	29	30	3.0	22.0	June 16,
	ville	·							1936
<u>d</u> /216	l ^z miles	Woodal Bros.	B. & B.		3,700				1-1 24
	southeast	No. T. D.	011 Co.	014	lie	70	10	70 0	Trans 16
2-1	uo.	Woodal		Ord	49	- JU	T•O	0.ور	1936 e/
218	3 miles	John H.		Old	70	48	3.0	67.2	June 16,
	south	Williams		: ا					1936
<u>d</u> /219	do.	H. C. White heirs		01 đ	110	6	1.0	104.0	June 17, 1936 e/
d/220	33 miles	H. M. Sneed	United Work	 	3,830				
<u> </u>	south	Est.	ers Oil Co.	i İ					
d/221	4 miles	M. Reesler		01 đ	41	48	3.0	38.2	May 20,
	south						1	700	1936
eee		Mrs. H. M. Sneed	and the	Ord	110	0	1.0	TOPO	1036 p/
	50 4 011	Sileou		1077					
223	og miles	AL Wniteside	AL	1933	700	36	υ	98.2	May 20, 1076
गुट्टरा	6 miles	County School	WILL DESIGE	610	21	76	3.0	20 5	<u> </u>
	south			بل سري	±ر	الار	ا ۲۰۰	<i>c</i> • <i>c</i>	uv.
al Mar		nt me a mana l'Irr	ton of contra	~ +o		ho ho			11

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
 b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric;
 S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

			-16-								
W.	I.	Clark	, Jr.,	Proje	ect	Superintendent					

and of graph: power water situation 200 B,H S Gentle 201 202 C,W D,S Gentle 203 B,H D,S Gentle 203 B,H D,S do. 204 B,H D,F dc. 206 B,H D,F dc. 207 C,H D,S Gentle 208 B,H D Flat 210 B,H D,S Gentle 211 212 B,H D,S Gentle 211 212 B,H D,S Gentle 213 None S Head 214 B,H D,S Gentle 215 B,H D Gentle 213 None S Gentle 214 B,H D Gentle 219 -	- Remarks
power water situation b/ c/ tion 200 B,H S Gentle 201 202 C,W D,S Gentle 203 B,H D,S Gentle 203 B,H D,S do. 204 B,H D,S dc. 206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 212 B,H D,S Gentle 211 212 B,H D,S Gentle 213 None S Head 214 B,H D,S Gentle 215 B,H D Gentle 216 217 C,W S Gentle 219	10
D/ C/ tion 200 B,H S Gentle 201 202 C,W D,S Gentle 203 B,H D,S Gentle 203 B,H D,S do. 204 B,H D,S dc. 206 B,H D,F dc. 207 C,H D,S Gentle 208 B,H D Flat 210 B,H D,S Gentle 211 212 B,H D,S Gentle 211 212 B,H D,S Gentle 213 Nume S Head 214 B,H D,S Gentle 215 B,H D Gentle 219 219 B,H D S	** 1
200 B,H S Gentle slope 201 202 C,W D,S Gentle slope 203 B,H D,S Gentle slope 203 B,H D,S do. 204 B,H D,S dc. 206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 B,H D,S Gentle 	
slope 201 202 C,W D,S Gentle 203 B,H D,S do. 204 B,H D,S dc. 206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 B,H D,S Gentle 211 212 B,H D,S Gentle 211 212 B,H D,S Gentle 213 Nume S Head 213 Nume S Head 213 Nume S Head 214 B,H D,S Gentle 215 B,H D Gentle 215 B,H D dc. 219 N dc. 220	e Bored well. Galvanized casing, top to bottom. Never fails.
201 202 C,W D,S Gentle slope 203 B,H D,S do. 204 B,H D,S dc. 206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 B,H D,S Gentle slope 211 212 B,H D,S Gentle slope 211 212 B,H D,S Gentle slope 213 Nume S Head 214 B,H D,S Hillt 215 B,H D Gentle slope 215 B,H D dc. 217 C,W S Gentle slope 218 B,H D dc. 220 221 B,H D,S Gentle slope 222 C,W D,S dc. <	Reported hard water in fine sand.
202 C,W D,S Gentle slope 203 B,H D,S do. 204 B,H D,S dc. 206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 B,H D Flat 212 B,H D,S Gentle 211 212 B,H D,S Gentle 211 212 B,H D,S Gentle 213 None S Head 214 B,H D,S Gentle 215 B,H D Gentle 216 217 C,W S Gentle 219 N do. 220 213 B,H D,S <	Drilled well. Oil test. Altitude 411 feet. See Log.
Slope 203 B,H D,S do. 204 3,H D,S dc. 206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 B,H D Flat 210 B,H D,S Gentle 211 212 B,H D,S Gentle 213 None S Head 214 B,H D,S Hillt 215 B,H D Gentle 214 B,H D Gentle 215 B,H D Gentle 216 217 C,W S Gentle 219 N do. 220 213 B,H D,S Gentle 219	e Brick curb; brick casing, top to bottom. Strong supply. Re-
203 B,H D,S do. 204 B,H D,S dc. 206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 B,H D Flat 211 212 B,H D,S Gentle slope 211 212 B,H D,S Gentle slope 213 None S Head draw 214 B,H D,S Hillte 215 B,H D Gentle 	ported water in fine sand.
204 3,H D,S dc. 206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 B,H D,S Gentle 211 212 B,H D,S Gentle 211 212 B,H D,S Gentle 213 None S Head 214 B,H D,S Hillte 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine, white sand under chalky clay.
206 B,H D,F dc. 207 C,H D,S dc. 208 B,H D Flat 210 B,H D,S Gentle slope 211 212 B,H D,S Gentle slope 213 None S Head draw 214 B,H D,S Hillte 	Wood curb; 15 feet wood casing at top, 20 feet concrete cas
207 C,H D,S dc. 208 B,H D Flat 210 B,H D,S Gentle 211 212 B,H D,S Gentle 211 212 B,H D,S Gentle 213 Nume S Head 213 Nume S Head 214 B,H D,S Hillt 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N do. 220 211 B,H D,S Gentle 212 B,H D dc. 223 B,H D dc. 224 B,H D dc.	Wood curb; 10 feet brick casing at top. Never fails. Re-
207 C,H D,S dc. 208 B,H D Flat 210 B,H D,S Gentle 211 212 B,H D,S Gentle 211 212 B,H D,S Gentle 213 Nume S Head 214 B,H D,S Hillte 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N dc. 220 221 B,H D,S Gentle slope 222 C,W D,S dc. 223 B,H D dc. 224 B,H D dc.	ported water in white sand.
208 B,H D Flat 21C B,H D,S Gentle 211 212 B,H D,S Gentle 212 B,H D,S Gentle 212 B,H D,S Gentle 213 None S Head 214 B,H D,S Hillte 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	Concrete curb; concrete casing, top to bottom. Never fails.
208 B,H D Flat 210 B,H D,S Gentle 211 212 B,H D,S Gentle 212 B,H D,S Gentle 212 B,H D,S Gentle 213 Nume S Head 214 B,H D,S Hillte 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	Reported water in white, sandy clay.
21C B,H D,S Gentle slope 211 212 B,H D,S Gentle slope 213 Nume S Head 213 Nume S Head 214 B,H D,S Hillt 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D Gentle 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	Brick curb; 8 feet brick casing at top. Never fails. Re-
210 B,H D,S Gentle 211 212 B,H D,S Gentle 213 None S Head 213 None S Head 214 B,H D,S Hillt 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N dc. 220 221 B,H D,S Gentle 219 N dc. 220 221 B,H D,S Gentle 223 B,H D,S do. 224 B,H D do.	ported water in sand below sandy clay and shale.
211 212 B,H D,S Gentle 213 None S Head 213 None S Head 214 B,H D,S Hillto 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N dc. 220 221 B,H D,S Gentle 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	e Brick curb; brick casing, top to bottom. Nearly fails in
212 B,H D,S Gentle 213 Nume S Head 213 Nume S Head 214 B,H D,S Hill 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	Drilled well Oil test See log
212 B,H D,S Gentle 213 Nume S Head 213 Nume S Head 213 Nume S Head 214 B,H D,S Hillt 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D do. 224 B,H D do.	Driffed Well. Oil test. See icg.
213 Nine S Head 214 B,H D,S Hillt 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	e Word curb; wood casing, top to bottom. Nearly fails in
213 None S Head 214 B,H D,S Hillto 215 B,H D Gentlo 215 B,H D Gentlo 216 217 C,W S Gentlo 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentlo 219 N do. 220 221 B,H D,S Gentlo 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	dr.ught. Turbid. Reported hard water in sandy gravel and
214 B,H D,S Hillt 215 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N dc. 220 221 B,H D,S Gentle 220 221 B,H D,S Gentle 222 C,W D,S dc. 223 B,H D dc. 224 B,H D dc.	cr Flows 8-inch pipe $\frac{1}{4}$ full continuously. Water from <u>Clay</u> .
213 B,H D Gentle 216 217 C,W S Gentle 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle 220 221 B,H D,S Gentle 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	on Brick casing ton to bettom. Fails in summer. Dry at time
215 B,H D Gentle slope 216 217 C,W S Gentle slope 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	cf measuring. Reported hard water in gravelly clay.
216 217 C,W S Gentle slope 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	e Wood curb; brick casing, top to bottom. Nearly fails in
216 217 C,W S Gentle slope 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	summer. Reported hard water in sandy clay and gravel.
217 C,W S Gentle slope 218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle slope 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	Drilled well. Oil test. Altitude 326 feet. See log.
218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	e Rock curb; rock casing, top to bottom. Never fails. Report-
218 B,H D dc. 219 N do. 220 221 B,H D,S Gentle 222 C,W D,S do. 223 B,H D do. 224 B,H D do.	ed hard water in sandy gravel.
219 N do. 220 221 B,H D,S Gentle 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	Wood curb; 12 feet wood casing at top. Never fails. Report-
219 N do. 220 221 B,H D,S Gentle 222 C,W D,S do. 223 B,H D dc. 224 B,H D do.	ed hard water in fine, gray sand below sandy shale.
220 221 B,H D,S Gentle 222 C,W D,S dc. 223 B,H D dc. 224 B,H D dc.	Bored well. 6-inch steel casing, top to bottom. Weak supply
221 B,H D,S Gentle 222 C,W D,S do. 223 B,H D do. 224 B,H D do.	Reported hard water in blue, sandy shale.
221 B,H D,S Gentle 222 C,W D,S dc. 223 B,H D dc. 224 B,H D dc.	Drilled well. Oil test. Dee 10g.
slope 222 C,W D,S do. 223 B,H D do. 224 B,H D do.	e Wood curb; 10 feet wood casing at top. Never fails. Report-
222 0, W D, S do. 223 B, H D do. 224 B, H D do.	ed water in send.
223 B,H D dc. 224 B,H D dc.	Drilled well. 8-inch steel casing, top to bottom. Never fails. Reported water in sand.
224 B,H D do.	Wood curb: concrete casing, top to bottom. Never fails. Re-
224 B,H D do.	perted water in fine gray sand.
	Wood curb; no casing. Never fails. Reported water in sand
	under sandy clay.
e/ I, irrigation; Ind,	industria; P, public; D, domestic: S. stock: N. nct used.

e/ Water level reported.

	· · · · · · · · · · · · · · · · · · ·				1			Lat	er level
No.	Distance	Owner .	Driller	Date	Depth	Diam-	Height of	Depth	Date of
	from	1		com-	of	eter	measuring	below	measur-
	Gauga			nle-	mell	of	noint	measur	- ment
	02000	i.		ted	(f+)	well	aborre	ing n	nint.
			1	ucu	, (± U •)	1/01 1	augurd (ft	$\frac{1}{\sqrt{2}}$	52113 52+)
			·	-		(10.)	ground(10	•/a/(1	
250	10g miles	Yoy Scouts			Spring			FIOWS	June 17,
	north								1936
252	8 miles	Lonzo Willis		1927	24	36	3.0	24.0	June 5,
	north					1		Ì	1936
d7253	8÷ miles	J. A. Foster	Red Bank	1932	5.402	10			
~~~	nonthwest		OHI CO		~,				
254		Iddia Too		6.00	30	230	30	24.0	Nor A
604	\2 miles	YOUTS THE		Ora	- 50	000	0.0	24 <b>0</b>	11ay 4,
	north	Watson	:  مرب همکار برون محمد می می محمد است.			1			1920
255	do.	County Road			Sprin	÷		Flows	do.
256	7 milcs	Gibson Gin Co.	<b>140</b> 140	1926	400	6	2.0	8,9	d <b>0,</b>
	north						ł		
257	do	H. Johnson		610	38	30	2.0	35.3	June 18.
~01		hoing		010	00	1 00	N.0	00.0	1036
		Herrs						177	1900
258	d <b>o</b> .	W. C. Henderson		OLQ	600	4		F1 OW S	ao.
259	55 miles	D. F. Peel	~ •	Old	580			Flows	dr,
	north								
2.60	dc.	Fred Smith		1915	350			Flows	May 4.
200	uce			1010	000			TTOND	1958
0.01	6			1015	7750	, 		121	1300
201	6 miles	Mrs. W. C.		1919	350			r 1 ows	00.
	northwest	Looney							
252	5 miles	M. R. Looney		1916	350			Flows	do.
	northwest					l			
2.63	35 miles	Niley Smith		1915	350	3		Flows	Aug. 12.
~ ~ ~ ~	northwest	1			000	Ũ			1926
264	Z= milos	Conil Longo		10 হর	26	30	3 0	24 1	Ann 20
±04	OS MILES	Cecti Mange		1200	20	50	O ₀C	2401	APro LO,
	northwest								1930
265	do.	Pin Oak School		1934	42	30	4.0	42.3	do.
266	44 miles	Elack and		Old	66	30	2.0	51.0	do.
	northwest	Henderson				l			
267	Smiles	A F Robinson		6.0	88	48	30	64 7	do
807	mat	n. i. noormoon		010	00	10	0.0	↓ <b>1</b>	~ <b>~</b> •
0.00	West	D		01.1	07	4.0			3
200	S miles	Dimining inv.		OTa	70	48	ĉ, U	12.0	ao.
a	west	Co.							
2.09	d <b>o.</b>	A. C.		1875	97	30	2.0	91.0	Apr. 29,
		Roschetzky			i				1936 e/
270	4 [±] miles	Mrs. Lillie	یو، در میرون میرون در این		Spri	ng		Flows	June 4.
	west	Beaver				-0			1936
271	5 miles	do			do			ET OTTO	<u>1000</u>
40 I L	0 111100	u <b>v</b> •		1	u0•			LT OMP	av.
	West								
272	$4\frac{2}{4}$ miles	Mrs. B. C.		1920	26	30	1.0	24.2	do
	southwest	Vanover							-
273	34 riles	Modis Blakeley	~ <b>-</b>	1934	26	20	4.0	28.2	June 19,
	west	i i			Í		-	_	1936
274	4= miles	State Hwar Dent		1935	181	20		14 4	June 4
~ 1 1	e out har out	- course multe mobile			- U	20	<b>T</b> *A	7 I.	1936 T
075	Z _ 17	T 104 7 d		1000					T200
215	Smiles	J. Elland	~ ~	1933	17	48	3.0	15.0	Jung 19,
	southwest					·			1936
a/ Me	asuring p <b>o</b>	int was usually t	op of casi	lng, t	op of	pump b	ase, or to	p of w	ell curbe
b/ T	, turbine;	Cf, centrifugal;	A, air lif	ct; C.	cylin	der: E	, bucket;	E, ol	sctric;
		· · · · · · · · · · · · · · · · · · ·			· · ·		· · · · · · ·		

Records of wells and springs in Milam County--Continued

-17-

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St, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

		-18-						
₩.	I.	Clark.	Jr	Project	Superintendent			

No.	Pump	Use	Topo-	Remarks
	and	of	graphic	
	power	water	situa-	
	b/	. c/	tion	
	-	; ;		
250	None	D	Bank of	Estimated flow: 3 gallons a minute from sand over lignite
		1	draw	cutcrop.
252	B,H	D,S	Gentle	Wood curb; wood casing, top to bottom. Never fails. Report-
			slope	ed hard water in fine, gray sand below rock.
253	None	N	do.	Drilled well. Oil test. Altitude 397 feet. See log.
	1	1		
254	В,Н	D,S	do.	Concrete curb; 23 feet concrete casing at top. Never fails.
		1		Reported hard water in sand.
255	None	N	Head of	Estimated flow: 1 gallon a minute from sandy gravel.
	1		draw	
256	C,W	Ind	Edge of	Drilled well. 400 feet of 6-inch steel casing. Strong sup-
			valley	ply. Reported water in fine, white sand.
257	B,H		Gentle	Wood curb; cased from top to bottom. Never fails. Reported
			slope	water in sandy gravel.
258	None	D,S	Flat	Drilled well. Flows 3 gallons a minute. Never fails.
	1	۱ ۱	1	
259	None	D,S	do.	Drilled well. Never fails. 2-inch outlet from casing. Es-
		r 1		timated yield: 5 gallons a minute.
260	None	D,S	do.	Drilled well, Never fails. 2-inch outlet from casing.
				Reported water from fine, white sand.
261	Ncne	D,S	do.	Drilled well. Never fails. 2-inch outlet from casing.
		l		Reported water from sand.
262	None	Ð,S	d <b>o.</b>	Drilled well. Flows 3 gallons a minute. Never fails.
	i 1			Reported water from fine sand.
263	None	D,S	do.	Drilled well. Flows 2 gallons a minute. Never fails.
		1		Reported water from sand.
264	B,H	S	Gentle	Concrete curb; brick and concrete casing, top to bottom.
			slope	Nearly fails in summer. Reported hard water in sandy gravel.
265	B,H	D	đ <b>o.</b>	Concrete curb; concrete casing, top to bottom. Never fails.
	1			Reported water in fine gray sand.
266		D	d <b>o.</b>	Concrete curb; concrete casing, top to bottom. Never fails.
				Reported water in fine sand below red, sandy shale.
267	C,W	D,S	do.	Wood curb; 15 feet galvanized iron casing at top. Never
				fails. Reported hard water in sand below sandy shale.
268	B,H	D	do.	Wood curb; 15 feet brick casing at top. Never fails. Re-
				ported water in fine sand.
269	С,W	D,S,I	đ <b>o.</b>	Concrete curb; 20 feet concrete casing at top. Never fails.
				Reported produces 400 gallons an hour from sandy, blue clay.
270	None	D,S	Creek	Estimated flow: 4 gallons a minute from white sand. Never
			slope	fails.
271	None	S	Side of	Estimated flcw: 3 gallons a minute from 2 openings in white
			draw	sand veins in white clay below soft, red sandstone.
272	В,Н	D,S	Gentle	Concrete curb; concrete casing, top to bottom. Never fails.
			slope	Reported water in fine, white sand.
273	B,H	D,S	do.	27 feet of concrete casing at top. Weak supply. Reported
				water from soft sandstone.
274	B,H	D	do.	Rock curb; 5 feet galvanized casing at top. Never fails.
				Reported water in white send.
275	B,H	IJ,S	do.	Wood curb; 3 feet wood casing at top. Nearly fails in sum-
<del></del>				mer. Reported water in sandstone.
<u>c/</u> I	, irria	ation;	; Ind, in	ndustrial; P, public; D, domestic; S, stock; N, not used.

 $\underline{d}$  No water sample collected for analysis.  $\underline{e}$  Water level reported.

-19-Records of well and springs in Milam County--Continued

ŇO.	Distance from	Owner	Driller	Dato com-	Dopth of	Diam-  eter	Height of measuring	f Dopth g below	Date of
	Guase		1 2	ple-	well	of	point	mcasu	ring mcn
	1	i		ted	(ft.)	well	above	poi	nt
	1	1			1	(in.	) ground(:	<u>ft.)a/</u>	]
276	2늘 milos	Terv Moore	144 ett	1934	16	36	: 1.0	13.4	May 6,
	southwest								1936
276a	27 miles	D. D. Foyler	A. H. Wrav	1930	3.005	10	nation and the same	;	
2.00	south					1			
277	S-milos	R P Doince		MA	16	36	30	68	Lun 11
611	og miros	D. D. Rains		UIU	10	00	0.0	0.0	LICZC
0.00	south								1930
278	2 mile	Chas. Jones		1935	33	48	3.0	23.8	May 5,
	southwest								1936
270	-2 miles	Conway Moore		1913	17	36	3.0	17.0	May 18,
	northeast		Ì						1936 -
280	1 mile	Pat Thomas		1934	14	30	2.0	12.3	May 6.
	southeast		1		1			-	1936
281	1- milos	ohn Thompson		1006	18	36	20	18 0	Mor 18
DOT	14 M1100 (	oun ruompoon		1000	10	00	2.0	10.0	1036
000			, 	01.7		70		05 7	1000
232	CI MILOS I	waorbu peming		ora	30	30	3.0	60.3	may b,
-	southeast								1936
283	3; milos	F. B. Burks		01d	37	30	1.5	26.2	do.
	southeast		1					1	
284	23 milcs	Mrs. S. F.		01d	47	36	2.0	31.1	May 18.
	cest	Garrison							1936
285	35 miles	Bud Smith	Henslev &	1923	900	12	1.0	23.9	ă(.
200	northoast		Tribbler	1040		1~	<b>T</b> [*]	1	•
286	A miles	Critabfield	17100101	1021	77	36	3 0	26 5	
200	2 miles	Det		1901	00	00	0.0	2000	uu.
0.07	northeast	BSU.		1081		50		50 7	
287	44 miles	J. A. Freeman		1991	19	<i>3</i> 0	2.0	18.5	ao.
	northeast			·				। मुख्यन्त्रस्य न्यू	
288	$4\frac{3}{4}$ miles	Dilbeck Oil Co			Sprin	g <b></b>		Flows	May 6,
	southcast		1					1	1936
239	52 milos	John Frame		1935	4	36	3.0	143.8	do.
	southeast							1	
290	6 miles			and and a second se	Sprin	g		Flows	d0.
	southeast					0			-
291	Gi milos	Mrs Lizzio		1910	- 75	36	3.0	53.0	do
~ • •	southoast		1	1010	-0	00	0.0	100.0	
	Southeast	TTUMOTT	· · · · · · · · · · · · · · · · · · ·						
	1							Water	level
ão.	Distance	Owner .	Drillor	Detc	Depth	Diam	Height of	Depth	Date of
	from			con-	of	eter	mcasuring	bolor	r measure
	Milano		1		well	of	point	measu	ring mor
				+07	(++ V	11011	ohorro	noi~	
				100	(10.)	(:)	augve		r u I
200	C+			011		<u>(1n.)</u>	ground (1	<u>u.) a/</u>	
300	vz nilcs	Rop ruco		UId	25	30	3.0	23.4	May 5,
	Cast							-	1936
301	5호 miles ]	V. H. Drcer	**	1895	53	30	3.0	28.1	do.
	east								
302	5 miles	do.		~-	Sprin	Ig !		Flows	do.
	cast				-		1		-
303	5 miles	I. P. Wooley		610	2.5	30	3.0	25.5	άŌ.
	southeast	• • • • • • • • • • • • • • • • • • •		~r.u	~~	50		~~•	
30/	1º milas	Amon Lemmono		1000	50	20	2 ~	11 2	Ana 15
(U ⁴ 2		Muos regrono		1011	00	00	2.U	41.4	Augo II
	southeast						1		7990
			<u> </u>					_	

-20-W. I. Clark, Jr., Project Superintendent

No.	Pump and power <u>b</u> /	Use of water <u>c</u> /	Top <b>o-</b> graphic situa- tion	Remarks
276	B,H	D,S	Gentle slope	Wood curb; 8 feet wood casing at top. Never fails. Report- ed water in red sandstone.
276a	None	N		Drilled well. Oil test. Altitude 347 feet. See log.
277	В,Н	D,S	Sandy sl <b>o</b> pe	Wood curb; rock casing, top to bottom. Never fails. Report- ed vater in fine sand.
278	B,H	D,S	Gentle slope	Concrete curb; 5 feet concrete casing at top. Never fails. Reported water in fine, vellow sand.
279	В,Н	D,S	đ <b>o.</b>	Wood curb; no casing. Sand box in bottom. Never fails. Re-
280	В,Н	D,S	do.	Concrete casing, top to bottom. Never fails. Re- shale.
281	В,Н	D	đo.	Wood curb; brick casing, top to bettom. Never fails. Re-
282	В,Н	D,S	do.	Wood curb; 4 feet wood casing at top. Never fails. Report- ed water with alum taste from sand under red sandy clay.
283	B,H	D	do.	Need curb; brick casing, top to bettom. Never fails. Re-
284	В,Н	D,S	Flat	Wood curb; brick casing, top to bottom. Never fails. Re- ported hard water in fine dark sand below clay.
285	В,Н	D,S	Gentle slope	Drilled well. Oil test. Partially plugged. Reported strong flow encountered at 800 feet below 18 inches of hard blue
286	В,Н	D,S	do.	Wood curb; brick casing, top to bottom. Never sandstone.
287	В,Н	D,S	do.	Brick curb; brick casing, tcp to bottom. Never fails. Re-
288	None	S	Side of draw	Strong flow from yellow sand and soft, red sandstone below hard sand rock.
289	B,H	D,S	Gentle	Wood curb; wood casing, top to botton. Never fails. Re-
290	None		Creek	700 feet of exposure at base of 40 foot bluff and lignite.
291	В,Н	D,S	Side of draw	Wood curb; 15 feet wood casing at top. Strong supply. Re- ported water in soft, tan sand rock.
No.	Pump and power <u>b</u> '	Use of water <u>c</u> /	Topo- graphic situa- tion	Remarks
300	В,Н	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in tan quicksand below red, sandy clay.
301	B,H	J,S	do.	Brick curb; 33 feet brick casing to bottom of dug well. Drilled well 33 to 53 feet. Drilled deeper because dug well
302	Nona	S	Small draw	Estimated flow: 7 gallons a minute failed. Strong supply. from 3 openings in fine.white sand. Never fails. Slightly
303	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. turbid. Never fails. Reported water in red sand.
304	B,H	D,S	Side of ridge	Wood curb; 10 feet brick casing at top. Never fails. Re- ported slightly sour water in gray and white sand.
c/ 1 <u>d/</u> N	, irrig o water	ati <b>o</b> n sampi	; Ind, in le collec	dustrial; P, public; D, domestic; S, stock; N, nct used. ted for analysis.

e/ Water level reported.

	Ne co re	us of world and s	hringe in	THE LOIN	COULTLY	,0	nornueu		
r		-			1		1	Water	<u>level</u>
No.	Distance	Owner	Driller	Date	Depth	Di am-	Height of	Depth	Date of
	from		Į.	com-	of	eter	meesuring	below	measure-
	Milano .			ple-	well	of	point	¹ measur	ing ment
	ſ			ted	(ft.)	well	ahove	noint	5
				000	(200)	(in	) ground(f	+ 10/	
705	4	Del Deal Lored	••••••	01.1	17		<u>ground(1</u>	<u>v.</u> /a/	Nors E
20.5	47 m110s	Eo, Bullara		Ora	41	30	1.0	29.9	May D,
	southeast'								1936
307	4 miles	Ray Toods			Spring			Flows	Aug. 17,
	east		i						1936
308	33 miles	Bell Morgan	an 20	1925	35	30	2.0	31.8	June 19.
	east						1	- •	n 936
309	2± miles .	Janmy Proking		610	12		3 0	10 3	do
0001		Joing Mokins		01 u	1.0			TOPO	
7270		Chaha III alamaa		1000	40	120		ACE	Trees 5
STO	TS WITCS !	State Highway		1090	49	50	±₊U	40 <b>,</b> 0	Juno J,
	east	Dept.					·		1930
311	2 miles	M. E. Ashley		1916	56	60	3.0	56 <b>.</b> 0	June 4,
	n <b>or</b> theast,				•				1936
1/319	a milos	Santa Fo R. R.		]	150	6			
-	northwest	Co.					1		
321	1 mile	Claude White		1915	21	30	3.0	15.6	Apr. 20.
UNT	nonthanst	or dado mina oo		1010	~1		0.0	7010	1936
200	2	Zdar T D		()] .1	1.0	70	2.0	0.0	1000
344	2 miles	Mrs. J. B.		UIQ	10	30	2.0	2.0	αο.
	north	Holland	ا موجد محمد ماندان میں محمد اللہ میں						
323	$2\frac{3}{4}$ miles	J. T. Timmons			21	30	3.0	20.1	do.
	north	I							
d7324	4 miles	M. Ashley			4,111			**	
-	northeast	-	ŧ						
325	32 miles	A. T.		1928	69	30	1 0	67.0	Apr. 23
0.20	$n_{4}$ million	Hildebrent		TONO		100	1.0	0100	1936
326	101 011	T they for Cohool		1020		70	7 0	07 1	1000
320	$\frac{4}{4}$ millos	Treetty Senoor		1990	20	30	ಿ.೦	20.1	Apr. 29,
	nortn								1920
327	bg miles	Joe Kirk		019	69	48	3.0	65.1	Apr. 29,
	north	1	4				· · ·		1936
328	5 miles	Miss Julie Kirk		Old	45	30	3.0	38.2	Apr. 24,
	north	* · · · · · · · · · · · · · · · · · · ·	1						1936
329	do.	TT. A. Reese		01 d	66	36	3.0	63.4	do.
	•								
330	3± miles	I. M. Vestbrook		610	28	30	0.5	23.8	Apr 23
000	verth	B. M. ROBODIOCK		Oru	20		0.0	ωU _€ O	107C
770	norun				+	+			1990
0021	$4\frac{1}{4}$ milos	T. A. Casey		ora	48	30	3.0	£5 <b>.</b> 8	do•
	northwes	t '							
353	5 miles	Clyde Hensley		1915	104	30	2.0	94.5	do.
	northwest	1	[						
335	4호 miles	F. Heitman	Moody	1926	127	10	1.0	98.0	Apr. 23.
	northwest								1936 e/
738	6 miles	A. C. Varner	in an internet in the second s	1931	31	24	20	31.2	4pr. 23
000	northwest		· · ·	1001		~ 1		01 8 ×	1956
770	7 milos	Marca I IV Class		1000	67	1/3	70	<i>6</i> 0 <del>17</del>	1 1000
009		Intos os Wo Gore	;	T02.0	60	01	3 <b>.</b> U	04 • 1	mur. II,
	northwest		, 				L		1320
340	67 miles	I. W. Moseley		1890	23	30	2.0	23.5	Apr. 30,
	west	Est.							1936
341	do.	Mrs. Lc Cone			42	30	4.0	43.5	do.
	-				1		- [	-	_
343	4- miles	Estelle Reings	1	1926	2.8	30	2.0	27.6	do.
~	-4	Nolson	1				~•··	- · • ·	
217	5 miloo	J D Nolcon	+	1020	AE	36	2 0	/5 2	
0±2	O HITTOR	A De Merson		1973	40	100	: 3.U	·0.0	μυ.
	West								
ა ე	44 miles	M. J. Cavil		Old	1 51	30	3.0 '	50,9	do.
	west		1		1	1			f

-21-Records of wells and springs in Milam County---Contfinued

			W. L. CI	lark, Jr., Project Superintendent
No.	Pump	Use	·Topo-	
	and	of	graphic	
	Power	water	situa-	Remerks
	b,	ĉ/	tion	
			ļ r	
305	B,H	D	Gentle	Convrete curb; concrete casing, top to bottom. Nearly fails
			slope	in drought. Reported water in send below red, sandy clay.
307	Ncne	S	Swamp	Estimated flcw; 10 gallons a minute from white sand below
				gumpo. Never fails.
308	в,Н	D,S	Sand	Consrete curb; concrete casing, top to bottom. Never fails.
		, 	flat	Reported water in fine sand.
309	в,Н	D,S	Velley	Conrete curb; concrete casing, top to bottom. Never fails.
			floor	Reported hard water in fine sand below sendy clay.
310	в,Н	c,s	Gentle	Concrete curb; conrete casing, top to bottom. Never fails.
83.3			slope	Reported water in send.
311	в,н	P,S	Do.	Wood curb; 8 feet wood casing at top. 312 feet stone casing
73.0				at bottom. Never fails. Reported hard water in yellow sand.
219	A,8	Ind	do.	Drilled well. Formerly supplied train engines. Reported
251	TT TT	<u> </u>		stratic head near surface. Water slightly mineral.
061	З <b>,</b> Н,	. Д <b>,</b> S	a <b>o</b> .	Brick curb; brick casing, top to bottom. Mever 12115. No-
820	ושפ	ne	Hood	Ported water in sand below red clay and above rock.
066	D <b>,</b> 'I	د <b>و</b> لا	Drage C	d wood curo; 10 iggt wood casing at top. Never fails. Report-
323	вц	T	Gontal	Wood aught brief accing ton to better Nearly fails in
020	<u>للو</u> لد با	L L	e lone	drought Percented water in fine cand halow red clev
324	·····		31000	Drilled well Oil test Altitude 490 feet. See log.
0				Diffice weil, off test, with onder 100 1000, 000 105,
325	ਤ ਸ	DS	Gentla	Concrete curb. concrete casing top to bettom. Never fails.
		2,-	slope	Reported water in coarse sand below sendy clay.
326	B.H	D.P	do.	Wood curb: concrete casing, top to bottom. Never fails.
	-,	- y-		Roported water in sand below red. sandy schist.
327	BH	D.S	do.	Wood curb; 20 fect wood casing at top. Never fails. Report-
	ŕ			ed water in sand below 50 feet of sandy clay.
328	B,H	D	do.	Brick curb; brick casing, top to bottom. Never fails. Rc-
				ported hard, mineral water in fine, white send below red
329	B,H	D,S	do.	Wood curb; 12 feet stone casing at top. sandy shale.
				Strong supply. Reported water in send.
330	в,Н	D	do.	Stone curb; stone casing, top of bottom. Never fails. Re-
				ported water in sand bclow red, sandy clay.
332	C,W	D,S	do.	Concrete curb; 15 feet concrete casing at top. Strong sup-
				ply. Reported water in fine, white sand below sandy clay.
333	в,н	D	do.	Brick curb; brick casing, top of bottom. Nover fails. Ro-
50 F		7 0		ported water in quicksend.
235	с, w	D <b>,</b> S	с <b>о.</b>	Drilled well. 10 inch stoch casing, top to bottom, Strong
220	- <del>1</del> 1	D C		Supply, Reported Water in line, gray quicksand,
	ا تدود	D <b>,</b> 0	u <b>0.</b>	anding of 1 mile Departed good surply of golty bitter way
330	C III	DS	Pideo	Wood surphy 15 fost wood assing at tap the strug, bitter fost
.00	· · · · ·	₽,0		Noter fails Penerted water in blue and below red soudy
340	RH	DS	Gentle	Concrete curbe concrete casing top to bottom Nevershale
V £ \'	. ~,~	~,~	slope	fails. Reported water in fine tan quicksend show and ba-
341	B.H	D.S	Do.	Concrete curb: concrete casing top to bottom ov shale.
	,	<b>y</b> '		Nearly feils in summer. Pepertid water in fine. tan ouick-
343	B.H	DS	Flat	Concrete curb; ecnercte casing. top to bottom. Nevensend.
	,	,	upland	fails. Reported water in sand.
344	B.H I	D.S	Gontle	Wood curb; 10 feet wood casing at top. 20 fect concrete cas-
	- 4		slopc	ing at bottom. Never fails. Reported water in fine. gray
345	B,H	D,S	d <b>o.</b>	Concrete curb; concrete casing top of bottom. Ne- quicksand.
	-	-	ŀ ŀ	ver fails. Peported water in sand below sandy shale.

-22-

W.	т⊿	Clark.	Jr.,	Project	Superintendent

		W. I.	Clark,	Jr., t	rojec	U DUDE	51 111001100110	Water	level
NT.o.	Distonco	(Turne T	riller	Dat <b>e</b> Í	Depth ]	Diam-	Height of	Depth I	Date of
NO•	Distance	OWHET.	1 77104	aom_	of 1	eter	measuring	below I	neasure-
، ۱	irom					of	noint a-	measur-	ment
	Milano			pre-	\ <b>₽</b> ₹ / ∦ ₩⊖TT	wo11	bove ground	ing poin	nt
*	1			τεα	(10*)	lin /	(f+.) a/	(feet)	
,	i	i	_			(11.)	(100) 4	74 74	Apr. 30
346	41 miles	Sallie Miller	- Wade	1930	83	30	, 3.0	34.3	Apri 00,
,	*4 mittob						\$		1990
740	Ol milos	Willia Nalenn."	Villie	1924	14	30	1.0	11.3	May 7,
347	ST IIIIS	MITTIE VOTDON					1 6	1	1936
	northwest	pr. 1	Nerson,			{	t t	4	
	: <del>دي در </del>			1071	19	30	3.0	12.8	do.
348	do.	Abe Smoot		TADT	10	1 00			
-	İ	1				L RA	1 3 0	42.1	do.
350	$2\frac{3}{4}$ miles	Jim Netherland		1920	60	30			
	west	ļ				L	1	50 2	Mon 14
351	23 miles	J.F.Coffield		01d	41	30	; 3.0	30.0	May 17,
	southwest						1		1900
759	31 milae	Jim Natherland		Old	35	48	5.0	34.3	ao.
000	onthmost	e and the other restriction			1		1	ii	
	souchwest	Tim Tonog		014	59	48	3.0	60.0	do.
303	$4\frac{1}{4}$ miles	a min a duice		~ <b>7</b> /1		1	1		
	southwest					1	1		
	·			1000		1 40	2.0	72.7	May 11.
354	3 miles	Hairston Heirs		1900	1 77	40	2.00	1~	1936
	southwest					<u> </u>		Flows	do
355	do.	Hairston Estat	e		Sprin	g		TTOMS	u <b>v</b> •
		1	Ļ						3.0
356	l mile	G. W. Butts		1906	118	30	1.0	104.5	d <b>0</b> •
000	eouth							1	
2/750	JI milor	T.B. Newton	Toel B.	1925	1.532				
<u>a</u> y 307	14 11105	1.D.Memoon	Terrell	et.a	1.	ţ			
51350	south	D M Durom	TOILOIL	1025	1 205				
<u>d</u> /355	L _z miles	P. W. Duer		1900	1,500	1	ļ		
350	aouth		X TUTTI	e	Sania			Flows	Mav 11.
005	ra miles	Buer Heirs			oprin	e		1 1000	1936
7 1000	south		1					05 4	40
<u>a</u> /360	3 miles	John Kchut	John	1907	35	30	1.0	20.4	40.
	south		Kohut						
361	133 miles	Dave Collins		Old	6	30	3.0	5.0	do.
	south								Ì
362	2 25 miles	B. Stuart		1905	12	30	1.0	7.2	May 14,
	southese	t				1		1	1936
365	3 13 milon	T.S. Handaman	+		Snnin	d		Flows	do.
000	a miles	tip.uenderson			POLTU	ă <b></b>			
67.0.4	isoutheas		Ļ	1.001	+	+	+	60.0	Moy 15
364	±  4₫ miles	Rebecca Grahan	n	1934	60	30	2.0	00.0	1072C
	[southeas	t	1		1				T220
365	5 5 miles	Hugh Vaughn		1955	19	30	1.0	17.5	ao.
	southeas	tl							
366	3 do.	Mrs.R.A.		1906	24	30	2.0	23.4	do.
		Carnagie					ł		1
367	45 miles	R. W. Wilson		014	47	60	3.0	43.4	do.
	south			~	-				
							1		
760	Ad milo-	Mng T C	- ) 	1027	60	10	1 30	61 0	da.
000	A MITAS			1347	00	40	1 0.0	01.0	
	auuun	WITTISWR				i		ţ	
~- <b>-</b>			·····		1			. <u>t</u>	I

a' Measuring point was usually top of casing, top of pump base, or top of well curb.
 b' T, turbine; Cf, centrifugal; A, air lift; G, cylinder; B, bucket; E, electric;
 S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

P 8 9 346 B 347 B 347 B 348 B 350 B 350 B 351 B Y 352 N 353 B	Pump and power b/ ,H ,H ,H ,H ,H ,H ,H ,H ,H ,H ,H ,H ,H	Use of water <u>c/</u> D,S D D,S D,S N	Topo- graphic situa- tion Gentle slope Ridge- top Bottom of draw Ridge- top Gentle slope	Remarks Concrete curb; conc'ste casing, top to bottom. Never fails. Reported hard water in fine sand below sand, shale and lig- Concrete curb; concrete casing, top to bottom. Re- nite. ported water in coarse, rusty colored sand above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white sand. Mood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails.
246 B 347 B 348 B 350 B 351 B 351 B 352 N 353 B	and power <u>b/</u> 3,H ,H 3,H 3,H 3,H 3,H	of water <u>c</u> / D,S D D,S D,S N	graphic situa- tion Gentle slope Ridge- top Bottom of draw Ridge- top Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in fine sand below sand, shale and lig- Concrete curb; concrete casing, top to bottom. Re- nite. ported water in coarse, rusty colored sand above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white sand. Nood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails. Re-
P 346 B 347 B 348 B 350 B 350 B 351 B Y 352 N 353 B	bowcr b/ 3,H 3,H 3,H 3,H 3,H	water <u>c</u> / D,S D,S D,S N	situa- tion Gentle slope Ridge- top Bottom of draw Ridge- top Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in fine sand below sand, shale and lig- Concrete curb; concrete casing, top to bottom. Re- nite. ported water in coarse, rusty colored sand above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white sand. Mood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails. Re-
346     B       347     B       348     B       350     B       351     E       ¥     352       353     B	b/ 3,H 3,H 3,H 3,H 8,H 10ne	c/ D,S D,S F,S D,S N	tion Gentle slope Ridge- top Bottom of draw Ridge- top Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in fine sand below sand, shale and lig- Concrete curb; concrete casing, top to bottom. Re- nite. ported water in coarse, rusty colored sand above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white sand. Wood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails. Re-
346     B       347     B       348     B       350     B       351     E       Y     S52       353     B	3,H ,H ,H 3,H 3,H 10ne 3,H	D,S D D,S D,S D,S N	Gentle slope Ridge- top Bottom of draw Ridge- top Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in fine sand below sand, shale and lig- Concrete curb; concrete casing, top to bottom. Re- nite. ported water in coarse, rusty colored sand above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white sand. Wood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails. Re-
346 B 347 B 348 B 350 B 351 B <u>Y</u> 352 N 353 B	3,H ,H ,H ,H ,H ,H ,H ,H ,H ,H ,H ,H	D,S D D,S D,S D,S N	Gentle slope Ridge- top Bottom of draw Ridge- top Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in fine sand below sand, shale and lig- Concrete curb; concrete casing, top to bottom. Re- nite. ported water in coarse, rusty colored sand above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white sand. Wood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails. Re-
347     B       348     B       350     B       351     E       Y     S52       353     B	,H ,H ,H ,H ,H ,H ,H ,H	D D,S F,3 D,S N	slope Ridge- top Bottom of draw Ridge- top Gentle slope	Reported hard water in fine sand below sand, shale and lig- Concrete curb; concrete casing, top to bottom. Re- nite. ported water in coarse, rusty colored sand above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white sand. Wood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails. Re-
347 B 348 B 350 B 351 E <u>Y</u> 352 N 353 B	,H ,H ,H ,H ,H ,H ,H ,H ,H	D D,S T,3 D,S N	Ridge- top Bottom of draw Ridge- top Gentle slope	Concrete curb; concrete casing, top to bottom. Re- nite. ported water in coarse, rusty colored sand above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white sand. Wood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails.
348     B       350     B       351     B       Y     S52       353     B	9,H 3,H 3,H 10ne 3,H	D,S F,3 D,S N	top Bottom of draw Ridge- top Gentle slope	ported water in coarse, rusty colored send above 6 feet of chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white send. Wood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails.
348     B       350     B       351     B       Y     S52       353     B	,H 3,H 8,H Ione 3,H	D,S P,S D,S N	Bottom of draw Ridge- top Gentle slope	chocolate colored clay. Wood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white send. Wood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails.
340 B 350 B 351 B <u>Y</u> 352 N 353 B	3,H 3,H 10ne	D,8 P,3 D,8 N	of draw Ridge- top Gentle slope	Nood curb; concrete casing, top of bottom. Never fails. Re- ported water in fine, white send. Nood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails.
350 B 351 E <u>¥</u> 352 N 353 B	3,H 3,H 10ne 3,H	P,3 D,S N	of draw Ridge- top Gentle slope	ported water in fine, white send. Wood curb; concrete casing, top to bottom. Never fails. Re- ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails.
351 B <u>Y</u> 352 N 353 B	s,H lone 3,H	D,S N	Riage- tep Gentle slope	ported hard water in fine, white sand. Concrete curb; concrete casing, top of bottom. Never fails.
351 B ¥ 352 N 353 B	B,H Ione B,H	D,S N	Gentle slope	Concrete curb; concrete casing, top of bottom. Never fails.
у 352 N 353 В	one B,H	D,5 N	slope	Concrete curb; concrete casing, top of bottom. Never fails.
352 N 353 B	one ,H	N	stope do	
353 B	3,H	1/		Wood such 12 fast mand seeing at ter March fails Noods
353 B	3,H		uυ	alegning out Deported water in fine brown and below sendu
	11	DS	Fl of	Vod augh 15 fact word acciment ton 3 fact com-
	-	2,5	FIAU	anote acciment bettern Depented motor in fine and bellew
	1			and conduction reported water in time sand berow
354 B	<del>स्य  </del>	D S	Gentlo	Pipe ourbe 20 feat briek easing at ten and 2 feat at hottom
	, II	2,0		Never foils Reported hard water in fine ten sand
355 N	one	8	Head of	Measured flow: 30 gollong a minute from 3 energing in send
000	0110	~	drow	and oley. Nower feils
356 0	GT		Gentle	Brick such 15 foot brick accing at ten Strong supply Do-
000 0		- L 0 0		brick curb; 15 feet brick casing at top. Strong supply. No-
357 N	one	N	arope	Drilled well Oil teat See lor
		. 1		DITION WOIL, OIL WSC, SOB LOG.
358 N	one	N i	Ridge-	Drilled well. Oil tost. Peported strong artesian flew en-
			top	countered when drilled. See log.
359 N	one	!	Base of	Estimated flow: 10 gallons a minute from fine. gray sand be-
	1		bluff	low soft, red sandstone, Never fails.
360 C	,G,	S	Ridge-	Concrete curb; concrete casing, top of bottom, Mearly fails
2	2		top	in drought. Reported hard water in $2\frac{1}{2}$ feet of sandy shale
			_	above iron rock.
361 B	э,н	S	Hill-	Wood curb; wood casing, top to bottom. Never fails, Turbid,
			side	Reported water in fine. ten send below yellow sandy clay.
362 B	3,Н	S	Valley	Concrete curb; concrete casing, top to bottom, Never fails,
			floor	Roportod hard water in sand.
363 N	Ione	S	Foot of	Estimated flow; 15 gallons a minute from 3 opening in loose,
			sl <b>o</b> pe	white sand. Nover fails.
364 C	We	D	Gentle	Concrete curb; concrete casing, top to bottom.Never fails.
			slone	Reported water in fine, white send.
365 B	3,H	D,S	Do.	Concrete curb; concrete casing, top of bottom. Never fails.
ROO T		+	<b></b>	Reported hard water in fine, white micaceous send,
366 E	3, fi	D	do.	Tile curb; tilc casing, top of bottom. Never fails. Re-
700 D		-		ported water in fine, white sand.
357 B	з <b>,</b> н	D,S	00.	wood curb, 8 feet wood and 10 feet boiler plate casing at
	1	ł		top. 5 feet wood casing at bottom. Never fails. Reported
700 -	<del></del>	<del>~~~</del>		water in white send.
368   B	ل ألو	D <b>,</b> S	do.	Wood curb, 20 feet plaster casing at top. 6 feet concrete
-		1		casing at bottom. "Never fails. Reported water in coarse,
	<del></del>		· · · · · · · · · · · · · · · · · · ·	gray sand.
<u>c/</u> i,	ırrig	gation	1; 1nd, i	ndustrial; P, public; D, demostic; S, stock; N, not used.

## o/ Water level reported.

## W. I. Clark, Jr., Project Superintendent.

-24-

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-25-										
Records	of	wells	and	springs	in	Milam	CountyContinued			

No	Distores	Ommore	Davi 7 7 a	Date	Dooth	Dicm	Unight of	Donth	Date of
NO•	Jistance	owner	Driffer	Date	Depth	Diam-	Height OF	pelom	magenra-
	Irom	1		com-	CI moll	eter	measuring	DETON	measure-
ł	ROCKOALE	1		pre-	. weit	01	point am	ingasu:	- mont
i	1			tea	(IU•)	Well	above gro-	1 (foot	1110
	; ••••••••••••••••••••••••••••••••••••			!	<b></b>	(in•)	und (10.)a/	(1-9(	· )
400	4 miles	Guy Cook		:1916	130	. 6	1.0	104.0	May 14,
- 100	east	Two Manahadaa	· · · · · · · · · · · · · · · · · · ·	1070		40	7.0	7 0	1900
401	east	Ira Toucnstone		1932	8	48	· 3.0 .	7.0	<b>UO</b> *
402	3 miles	Calhoun Chad-		01d	62	30	3.0	56.9	June 1.
- 0.1	southeast	dock				1			1936
403	5 miles	Allie Marsh		1933	17	30	2.0	13.9	do.
	southeast	•		1	i 1		1		
404	7 miles	Fannie Ferguso	on		Spring			Flows	do.
	southeast	1 1		1 <b>4</b> 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	, {	1	1		
405	5늘 miles	J. F. Rosa		1920	28	: 30	4.0	24.2	d <b>o.</b>
406	4 milon	T U Noogle		1022	222		20	57.0	Tune 1
400	south	E. H. NOACK		1900	666	0		57.0	1936 <u>a</u> /
407	23 miles	Mrs. Lee Steve	ens	1931	100	1 8	1.0	17.0	June 1.
	south								1936
408	l ¹ g miles	E. H. Foster	***	1930	76	36	2.0	71.4	do.
409	P milo	Dan Bound		1092	51	30	1.0	29.4	
±05	southeast	Dan Duna		1366	JL	1 50	±•0	~J+∓	u <b>0</b> .
410	Southwoot	City of Pools		1020	, 75	60	101	20 6	Ann 13
4Τ0	adea of t	own dale		1920	75	00	1.0	22.0	1936
411	40.	T.& G.N.R.R.CO	)		71	132		47.7	Apr. 11
		1.00 0.00000000000000000000000000000000			·	+0~	ÿ	1, -,	1936
412	3 miles	Ben Torrez		1925	39	30	2.0	33.7	Apr. 30
1	northeast				1	1	ł		1936
413	$3\frac{1}{2}$ miles	A. I. Caywood		01d	46	30	2.0	31.9	do.
	northeast								
415	1 ₄ miles	Jess Kovil		1928	81	, <u>3</u> 0	1.0	79.0	Apr. 16,
	northwest		i 			• <del>•••••••••••••••••••••••••••••••••••</del>			1936
416	$l_4^3$ miles	W. F. Horton		1926	400	6-5/8	2.0	75.4	Apr. $6$
43.0	north			1010					1936
417	25 miles	Louis Kirchenwitz		1916	60	30	3.0	42.6	Apr. 16.
418	2± miles	Anchor Oil Co.		1928	180	6-5/8	1.0	12.0	Apr. 11
	north	Anone: Out out		1000	100	0-0/0	1.0	D•4E	1936 a/
419	3 miles	Rush Phillips		<del>0</del> 1a	49	48	4.0	46.9	Apr. II
	north		1			•			1936
120	1 milco	Mm Tuoteo		1000	100			A A 17	<u> </u>
÷≁∾0	+ miles	wm. Lueige		TAC1	790	8/6-01	L+0	44.3	Apr. 8,
a7421	5 milos	Enite Bouon	TP TT	1094	1744	+ <u>c</u> = (o		·	11930
u/≞≈i	north	Fritz Dauer	Noack	1924	744	, <b>6-</b> 0/8			
422	5 <del>5</del> miles	Mrs.Joe Bauer		1910	42	40	3.0	37.5	Apr. 6
	' nõrth				_		! 1		1936
d/423	5 miles	do.	E. H.	1924	751	6-5/8			
_	n <b>o</b> rth		Noack						
426	33 miles	F. C.		1890	53	48	3.0	46.9	Apr. 16
	northwest	Kirchenwitz		_000		1 +0			1936
d /427/	4 miles	E. A. Doss			1,700	i			***
		1			, ,	,	,	1	

O' T, turbine; OI, centrilugal; A, airtiit; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

-26-W. I. Clark, Jr., Project Superintendent

No.	Pump and	Use of	Topo- graphic	Romarks
	<u>b</u> /		tion	
400	В,Н	D	Slopo	Bored well; 6 inch steel casing, top to bottom. Porforated at bottom. Nover fails. Reported water in fine send.
401	B,H	D,S	do,	Wood curb; wood casing, top of bottom. Never fails, Re- ported water in fine, white sand below yellow, sendy cley.
402	В,Н	D,S	Do.	Wood curb; 14 feet wood casing at top. Never fails. Report- ed hard weter in bluc sand.
403	В,Н	D	do.	Concrete curb; concrete casing, top to bottom. Never fails, Reported water in yellow sand below sandstone.
404	None	S	Base of ridge	Strong flow from 10 openings in fine, gray sand below yellow sandrock. Never fails.
405	C,W	D,S	Sidc of ridge	Concrete curb; concrete casing, top to bettom. Never fails. Reported water in send below grey clay.
406	C,W	D,S	Slope	Drilled well. Steel casing, top of bottom. Bottom 40 fest perforeted. Strong supply. Reported hard water in fine
407	C', T.	D,S	do.	Drilled well. Steel casing, top to bottom. gray send. Never feils. Reported water in fine sand.
408	C,W	D,S	do.	Concrete curb; 8 feet concrete casing at top and 36 feet at bottom. Never fails. Reported hard water in gray send.
409	В,Н	D	Ridgc- top	Concrete curb; concrete casing, top to bottom. Never fails Reported water in fine sand.
410	T,E,5	P	Slope	Concrete curb; 10 feet wood casing at top. Pumping level, 25.5 feet when operated continously. Produces 100 gallons
411	C,C, 15	Ind	do.	0, cil engine. 17 fect wood casing at top, cy- a minute.
412		D,S	Do.	Wood curb, wood casing, top to bottom
413	В,Н	D,S	dc.	Concrete curb; concrete casing, tep to der rod sandy shale, bottom, Never fails, Reported water in fine quicksand under
415	C,G,2	D	do.	Concrete curb; concrete casing, top to bottesandy shale.
416	Nonc	N	Gentle	Drilled well. Formerly supplied drilling rigs. Strong clay.
417	C , V.	D,S	do.	Nood curb; 13 feet wood easing at bottom, Never fails, Re-
418	C,G,I	D,S	do.	Lrilled well, 160 feet 6-5/8 inch blank and 20 feet hours.
419	В,Н	S	do.	Wood curb; 16 fcct casing at bottom. Strong in bluc sand. supply. Reported hard water in gray quicksand below 12 feet of red. sandy shale.
420	C,-,-	Ind	do.	Drilled well. Formerly supplied drilling rigs. Strong sup- ply. Reported water in blue send below sendy shale.
421			Flat	Drilled well. Oil test. See log.
422	В,Н	D,S	Gentle slopo	Wood curb; 16 fect wood casing at top. Nearly fails in dro- ught. Report d water in sand below 35 fect of clay and shale
423			do.	Drillod well. Oil test. See log.
426	В,Н		dc.	Wood curb; 18 fect brick casing at top. Never fails, Re- ported water in fine, blue quicksend below shale and above
427		alingadaraada aa gafi aggi		Drilled well. Sce log. rock.
	, irri 10 wate: 1ator 1	gation r samu cvcl n	n; Ind, plo ccll ccportod	industrial; P, public; D, domestic; S, stock; N, not usod. ectod for analysis.

No.         Distance Trom Rockfale         Owner Driller Date         Depth Opto         Diam- Height of ted         Motor Flam- (in.)         Wast Measuring Diam- (in.)         Wast Measuring Diam- (in.)         Wast Measuring Diam- (in.)         Wast Measuring Measuring Diam- (in.)         Wast Measuring Measuring Diam- (in.)         Wast Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring Measuring M			Records of w	ells and	sprin	gs in 1	Ailam	CountyCon	ntinued	
No.         Distance         Owner         Driller Date         Deschilt         Distance         Of error         messure         ing point         action           Hockdale         100         01         01         01         01         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 <th></th> <th></th> <th></th> <th>الكافك بالزيدان من المعار مين غرب جيه</th> <th></th> <th></th> <th>•</th> <th>1</th> <th>Water</th> <th>level</th>				الكافك بالزيدان من المعار مين غرب جيه			•	1	Water	level
from         com-         of         eter         measuring         below         measuring         measuring         below         measuring<	No.	Distance	Owner	Driller	Date	Depth	Diam-	Height of	Depth	Date of
Bockale         ple-         well         of         point a-         messure- ing point           428         42         miles         Faul Henager          01d         40         36         1.0         33.3         Jung           428         42         mast         Fritz         Groneman          3.540                                                          1923         103         108         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10		from	t .		com-	of	eter	measuring	below	measure-
tod         (ft.)         weil         impoint           428.42         miles         Faul Henager          01d         36         1.0         33.3         Jung           429.5         Smiles         Fritz         Gromeman          3,540              west         Dornhoeffer         Bros.         Bros.         1933         108         6         1.0         40.0         Jung           430         Smiles         Emil                                                   1933         108         E          1933         108         E          1934         24         30         1.0         16.1		Rockdale		s 2	ple-	well	of	point a-	measure	<u>e                                    </u>
(in.) und (rt.)s/(ft.)           428 d42 miles Faul Henager          01d         40         36         1.0         33.3         June           g/2893 miles         Fritz         Groneman          3.540				l	ted	(ft.)	well	1	ing poi	int
428 42 miles Faul Hensger        0.1       40       36       1.0       33.3       Jumm         west       Dornhoeffer       Bros.       1934         42429 3 miles       Emil               west       Dornhoeffer       Bros.       1933       108       6       1.0       47.5       Jum         430 35 miles       Dernhoeffer         96       30       3.0       82.8       Jum         431 3 miles       L. E. Talbot         96       30       3.0       82.8       Jum         west        -       01d       8       36       2.0       5.5       May         432 13 miles       L. E. Talbot         96       30       3.0       28.1       3.0         435 5 miles       W. S. Galther        01d       37       30       3.0       28.1       3.0         436 4 miles       H. H. Pruitt        1922       10       30        7.8       30.0         432 5 miles       E. T. Roberts        1925       85       6       -							(in.)	und (ft.)	a/ (ft.	)
weat         Pritz         Groneman          3,540                                                                                                    <	428	41 miles	Paul Henager		,01d	40	36	1.0	33.3	June 6,
$d/4283 \equiv 11 \cos 1$ Fritz       Gromeman		wēst		1 5	1		1			1936
west         Dornhoeffer         Bros.           430         3g miles         Emil          0ld         55         36         4.0         47.6         Junt           west         Dornhoeffer          1933         108         6         1.0         40.0         Junt           west         Dornhoeffer           86         30         3.0         82.8         Junt           west         Tom Neeley          0ld         8         36         2.0         5.5         May           433         2g miles         Tom Neeley          0ld         8         36         2.0         5.5         May           436         4 miles         H. H. Fruitt          1934         24         30         1.0         16.1         de           437         do.         Tom Carver          1925         85         6          30.0         May           438         5 miles         E. T. Roberts          1925         85         6          30.0         May           1934         bed         ft         1925         85	d/429	3 miles	Fritz	Groneman	11	3,540				
430       3g miles       Zmil        01d       55       36       4.0       47.5       Jumphoeffer         431       3 miles       Fete Coffield        1933       108       6       1.0       40.0       Jumphoeffer         433       13 miles       L. E. Talbot         86       30       3.0       82.8       Jumphoeffer         433       12 miles       Tom Neeley        01d       8       36       2.0       5.5       May         433       3 miles       Tom Neeley        01d       8       36       2.0       5.5       May         435       3 miles       W. E. Gaither        01d       37       30       3.0       28.8       Jumphoeffer         436       5 miles       H. H. Pruitt        1925       85       6        30.0       18.4         437       do.       Tom Garver        1925       85       6        30.0       18.4         438       5 miles       E. T. Roberts        1925       85       6        30.0       18.4         104 <td< td=""><td></td><td>west</td><td>Dornhoeffer</td><td>Bros.</td><td></td><td>1</td><td>İ</td><td></td><td></td><td></td></td<>		west	Dornhoeffer	Bros.		1	İ			
west         Dornhoeffer         1933         108         6         1.0         40.0         Jun           west          1933         108         6         1.0         40.0         Jun           west           86         30         3.0         82.8         Jun           west          01d         8         36         2.0         5.5         May           433         2% miles         Tom Neeley          01d         87         30         3.0         28.1         30           435         3 miles         W. E. Gaither          01d         37         30         3.0         28.1         3.0           436         4 miles         H. H. Pruitt          1922         10         30          7.8         36           438         5 miles         E. T. Roberts          1925         85         6          30.0         May         1937           5 outhwest         Leadwell          1925         85         6          30.0         May           1936         from         Diam         <	430	3k miles	Emil		01d	55	36	4.0	47.5	June 2,
431 3 miles       Pete Coffield        1933       108       6       1.0       40.0       Juni         west           86       30       3.0       82.8       Juni         433 12 miles       L. E. Talbot         86       30       3.0       82.8       Juni         433 25 miles       Tom Neeley        01d       8       36       2.0       5.5       May         435 37 miles       W. E. Gaither        01d       37       30       3.0       28.1       di         436 4 miles       H. H. Pruitt        1934       24       30       1.0       18.1       di         437 do.       Tom Carver        1925       65       6        30.0       Mater         438 5 miles       E. T. Roberts        1925       65       6        30.0       Mater         104       Other       Driller       Date       Depth       Dian       Mater       1934       194       195         105       Ford         1925       10         194<	1	west	Dornhoeffer		İ		ł			1936
west         1933           432 1% miles         L. E. Talbot           96         30         3.0         82.8         Jun           433 2% miles         Tom Neeley          01d         8         36         2.0         5.5         May           435 3% miles         W. E. Geither          01d         37         30         3.0         28.1         6d           436 4 miles         H. H. Pruitt          1934         24         30         1.0         18.1         6d           437 do.         Tom Carver          1925         85         6          7.8         6d           438 5 miles         E. T. Roberts          1925         85         6          30.0         May           438 5 miles         E. T. Roberts          1925         85         6          30.0         May           5outhwest         Leadwell          1925         85         6          30.0         1936           434 5 miles         E. T. Roberts          1925         3.67         6.57	431	3 miles	Pete Coffield		1933	108	6	1.0	40.0	June 2,
432 1% miles       L. E. Talbot            86       30       3.0       82.8       Jun         433 2% miles       Tom Neeley        01d       8       36       2.0       5.5       May         435 3% miles       W. E. Gaither        01d       37       30       3.0       28.1       defector         435 3% miles       W. E. Gaither        01d       37       30       3.0       28.1       defector         436 4 miles       H. H. Pruitt        1934       24       30       1.0       18.1       defector         437 do.       Tom Carver        1925       85       6        7.8       defector         438 5 miles       E. T. Roberts        1925       85       6        30.0       May       1936         438 5 miles       Montale       Driller       Date       Oppth       Diam       Height of       Depth       Depth       May       1936         4450 81       miles       Holliman       Class 0ii 1926 2,137       10            <	1	west		1						1936 <u>e</u> /
west         1934           433         2g miles         Tom Neeley          Old         8         36         2.0         5.6         May           436         3f miles         W. E. Gaither          Old         37         30         3.0         28.1         dd           436         4 miles         H. H. Pruitt          1934         24         30         1.0         18.1         dd           437         do.         Tom Carver          1925         88         6          7.8         dd           438         5 miles         E. T. Roberts          1925         88         6          30.0         May           438         5 miles         E. T. Roberts          1925         88         6          30.0         May           southwest         Leadwell         Depth         Diam         Height of Depth Deth Deth Meth         Mae         1936           700         Distance         Owner         Driller         Date         (ft.)         weilt         bore gro.ins point           434         9 miles         Mohllister          1926	432	13 miles	L. E. Talbot	/		86	30	3.0	82.8	June 2,
433       22 miles       Tom Neeley        Old       8       36       2.0       5.5       May         433       34       34       miles       W. E. Gaither        Old       37       30       3.0       28.1       d         436       34       miles       H. H. Pruitt        1934       24       30       1.0       18.1       d         437       do.       Tom Carver        1922       10       30        7.8       d         438       5 miles       E. T. Roberts        1925       85       6        7.8       d         438       5 miles       E. T. Roberts        1925       85       6        30.0       May         438       5 miles       E. T. Roberts        1925       85       6        30.0       May         439       Jistance       Owner       Driller       Date       Depth       Diam       measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measuring below measur		west		1	1	;				1936
south         Estate         1934           436         34 miles         W. E. Gaither          01d         37         30         3.0         28.1         degree           436         4 miles         H. H. Pruitt          1934         24         30         1.0         18.1         degree           437         do.         Tom Carver          1922         10         30          7.8         degree           438         5 miles         E. T. Roberts          1925         85         6          30.0         May           south         Jointane         Owner         Driller         Date         Depth         Diam         Height of         Depth         Depth         Det         measuring         below         measuring           10450all miles         Holliman         Class 0il 1926         2.137         10                                <	433	24 miles	Tom Neelev		01d	8	36	2.0	5.5	May 12,
436 34 miles       W. E. Gaither        0ld       37       30       3.0       28.1       dd         436 4 miles       H. H. Pruitt        1934       24       30       1.0       18.1       de         437       do.       Tom Carver        1922       10       30        7.8       de         438 5 miles       E. T. Roberts        1925       85       6        7.8       de         438 5 miles       E. T. Roberts        1925       85       6        7.8       de         438 5 miles       E. T. Roberts        1925       85       6        7.8       de         438 5 miles       E. T. Roberts        1925       85       6        30.0       May         1934       Date       Optime       point a-       measuring below       measure       point a-       measure       point a-       measure       point a-       1926       2,137       10		south	Estate	ł		Ű	1			1936
south       and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of control of the control of the control of control of control of the control of control of control of the control of control of control of the control of control of control of the control of control of control of the control of control of control of co	435	3± miles	W. E. Gaither		014	37	30	3.0	28.1	do.
436 4 miles       H. H. Pruitt        1934       24       30       1.0       18.1       dial         437       do.       Tom Carver        1922       10       30        7.8       dial         438       5 miles       E. T. Roberts        1925       85       6        30.0       May         438       5 miles       E. T. Roberts        1925       85       6        30.0       May         438       5 miles       E. T. Roberts        1925       85       6        30.0       May         9       10       from       Tom       Or       ter       measuring below       measuring below </td <td></td> <td>south</td> <td></td> <td></td> <td> </td> <td></td> <td>1</td> <td></td> <td></td> <td></td>		south					1			
south       437       do.       Tom Carver        1922       10       30        7.8       defection         437       do.       Tom Carver        1922       10       30        7.8       defection         438       5 miles       E. T. Roberts        1925       85       6        30.0       May         9       Southwest       Leadwell       0       addeedeedeedeedeedeedeedeedeedeedeedeede	436	4 miles	H. H. Pruitt	· · · · · · · · · · · · · · · · · · ·	1934	24	30	1.0	18.1	do.
437       do.       Tom Carver        1922       10       30        7.8       di         438       5 miles       E. T. Roberts        1925       85       6        30.0       May         southwest       Leadwell       1925       85       6        30.0       May         No.       Distance       Owner       Driller       Date       Depth       Dian       Height of       Depth       Dett         from       Thorndale       Driller       Date       of       eter       measuring below       meas         d/450all miles       Holliman       Class Oil 1926       2,137       10 <td>100</td> <td>south</td> <td></td> <td></td> <td>1001</td> <td>, <del>~</del>±</td> <td></td> <td></td> <td></td> <td></td>	100	south			1001	, <del>~</del> ±				
Add StandardAdd StandardAdd StandardAdd StandardAdd StandardAdd Standard4385 milesE. T. Roberts192585630.0MaysouthwestDistanceOwnerDrillerDateDepthDiamHeight ofDepthDatefromfromofstervelwellofsterpointameasuring belowmeasuringd/450all milesHollimanGlass Oil 19262.13710eastEstateCo.19253.8776-5/64519 milesMcAllister19291906016.0d/451kagmilesM. KimeMagnolis19253.8776-5/6eastCoal Co192513363.012.310452do.A. A. Rolan193411062.040.0104538 milesH. Pruitt192513363.012.3104567 milesMrs. J. E01d63362.055.6104587 milesW. B. House01d63362.055.6104587 milesF. C. Stiles1916993682.0southeastF. C. Stiles1916993682.04616	437	do.	Tom Carver	ļ	1922	10	30		7.8	do.
438 5 miles       E. T. Roberts        1925       85       6        30.0       May 1936         No.       Distance       Owner       Driller       Date       Depth       Diam- reasuring below       measuring below       measur- measuring below       measur- measur- bove gro- ing point a         d/450all miles       Holliman       Glass 0il 1926       2,137       10           d/450       miles       Modllister        1929       190       6       0       16.0       16.0         d/45188       miles       Modllister        1925       3,877       6-5/6           east       Col       Petroleum Co.       1925       3,877       6-5/6           452       do.       A. A. Rolan        1925       13       36       3.0       12.3       14         452       do.       A. A. Rolan        1925       13       36       3.0       12.3       14         457       7g miles       Mrs. J. E.        01d       63       36       3.0       63.0       11         458       7 miles       W. B. Gambrell	107	u <b>0</b> .			TOND	<b></b> 0	00			
No.Distance from ThorndaleOwner OwnerDriller DrillerDate Depth of ple- wellDiam- detr measuring ploint a- bove gro- ing point (in.) und (ft.)a/ (ft.)4/450all milesHolliman EstateGlass Oil 1926 Co.2,137IO4/450all milesHolliman EstateGlass Oil 1926 Co.2,137IO4/450all milesHollister Estate19291906O4/451a8g milesMc Kime EestMagnolic Petroleum1925 Co.3,8776-5/6 Co452do.A. A. Rolan1934IIO6016.04538 miles southeastH. Pruitt Wilson192513363.012.34577g miles southastMrs. J. E. WilsonOld63363.063.014587 miles southastW. H. Cambrell southast01d63362.055.614606 miles southastF. C. Stiles southast01d63362.055.614616 miles southastF. Towery southast01d144814.1146345miles southast01d144814.1146345miles southast01d144814.1146345miles	438	5 milea	F T. Poherte		1025	95	6		30.0	May 12
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No.Distance from ThorndaleOwnerDriller DateDapth DateDiam depth of ple-Height of peth measuring below measuring below ing point a ing point a ing point ing point (in.) und (ft.)a/ (ft.)d/450all miles east d/451a&d miles east d/451a&d miles eastHolliman Co.Cod/452 east dooM. Kime measuring below (co.1925 1925 3,877 6.5/6d/451a&d miles east southeast southeastH. Fruitt measuring below (co.1925 1925 3,877 6.5/6453 457 miles southeastH. Fruitt miles wilson1925 13 3636 3.03.012.3 12.3455 450 south southeastW. H. Gambrell monell1914 149 149149 61.0128.0 128.0450 south southeastF. C. Stiles south southeast1916 99 3636 82.0461 6d miles southeastClaude southeast01d14 48 4814.1 3462 southeastClaude southeast01d71 363.061.7 30463 sout					_	-	1		Wate:	r level
from Thorndale         com- ple- (ft.)         of (ft.)         eter point a- point a- measur- (in.)         measuring below point a- measur- ted         measuring (ft.)           d/450all miles         Holliman         Class Oil         1926         2,137         10             east         Estate         Co.          1929         190         6         0         16.0         1           451         9 miles         McAllister          1925         3,877         6-5/6             d/451a8½         miles         M. Kime         Magnolif         1925         3,877         6-5/6             452         do.         A. A. Rolan          1934         110         6         2.0         40.0           453         8 miles         H. Pruitt          1925         13         36         3.0         12.3           southeast         wilson          1925         13         36         3.0         12.3           459         7½ miles         Mrs. J. E.          01d         63         36         2.0         55.6           southeast         F. C. Stiles <td>No.</td> <td>Distance</td> <td>Owner</td> <td>Driller</td> <td>Date</td> <td>'Depth</td> <td>Diam-</td> <td>Height of</td> <td>Depth</td> <td>Date or</td>	No.	Distance	Owner	Driller	Date	'Depth	Diam-	Height of	Depth	Date or
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ted       (ft.) well       bove gro-       ing point $(1n.)$ und $(ft.)a/$ $(ft.)a/$ $(ft.)a/$ $(1n.)$ und $(ft.)a/$ $(ft.)a/$ $(ft.)a/$ $(1n.)$ und $(ft.)a/$ $(ft.)a/$ $(ft.)a/$ $(1n.)$ und $(ft.)a/$ $(ft.)a/$ $(ft.)a/$ $(1n.)$ und $(ft.)a/$ $(ft.)a/$ $(ft.)a/$ $(451)$ 9 miles       McAllister $1929$ $190$ $6$ $0$ $16.0$ $(1n.)$ well $1925$ $3,877$ $6-5/8$ $(452)$ $ao.$ $A.$ $A.$ $A.$ $aggnolis       1925 3,877 6-5/8 (453) 8 miles       H. Petroleum Co. 1934 110 6 2.0 40.0 3.6 3.0 12.3 (453) 8 miles       H. Pruitt 1925 13 36 3.0 63.0 63.0 63.0 63.0 63.0 $		Thorndale			ple-	well	of	point a-	measur	- ment
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east       Estate       Co.         451       9 miles       McAllister        1929       190       6       0       16.0       1         asoutheast       Coal Co.        1925       3,877       6-5/8           east        Petroleum       Co.             452       do.       A. A. Rolan        1934       110       6       2.0       40.0          453       8 miles       H. Pruitt        1925       13       36       3.0       12.3         southeast       Mrs. J. E.        01d       63       36       3.0       63.0          458       7 miles       Mrs. J. E.        01d       63       36       2.0       55.6          southeast       Wilson        1914       149       6       1.0       128.0          450       5½ miles       W. B. House        01d       63       36       2.0       55.6          south        1916       99       36        8	<u>d</u> /450	all miles	Holliman	Glass Oil	1 1926	2,137	10			
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$452$ do.       A. A. Rolan        1934       110       6       2.0       40.0 $453$ 8 miles       H. Pruitt        1925       13       36       3.0       12.3 $457$ $7\frac{1}{2}$ miles       Mrs. J. E.        01d       63       36       3.0       63.0 $458$ 7 miles       Wrs. J. E.        01d       63       36       3.0       63.0 $458$ 7 miles       W. H. Gambrell        1914       149       6       1.0       128.0         south           01d       63       36       2.0       55.6         south                460       6 miles       F. C. Stiles        1916       99       36        82.0         southeast           1916       99       36        82.0         461       61/2       miles       0.       F. Towery        01d       71       36       3.0       61.	-	east		Petroleur	Co.					
453       8 miles       H. Pruitt        1925       13       36       3.0       12.3         457 $7\frac{1}{2}$ miles       Mrs. J. E.        01d       63       36       3.0       63.0         457 $7\frac{1}{2}$ miles       Mrs. J. E.        01d       63       36       3.0       63.0         458       7 miles       W. H. Gambrell        1914       149       6       1.0       128.0         458       7 miles       W. H. Gambrell        1914       149       6       1.0       128.0         458       7 miles       W. H. Gambrell        1914       149       6       1.0       128.0         459 $5\frac{1}{2}$ miles       W. B. House        01d       63       36       2.0       55.6       16         460       6 miles       F. C. Stiles        1916       99       36        82.0         461 $6\frac{1}{2}$ miles       Claude        01d       14       48        14.1       3         462       5 miles       0. F. Towery        01d       71       36	452	do.	A. A. Rolan		1934	110	6	2.0	40.(	June 3.
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southeast       Wilson       000000000000000000000000000000000000	457	7층 miles	Mrs. J. E.		610	63	36	3.0	63.0	June 18
458       7 miles       W. H. Gambrell        1914       149       6       1.0       128.0         459       5½ miles       W. B. House        01d       63       36       2.0       55.6       1         460       6 miles       F. C. Stiles        1916       99       36        82.0         461       6½ miles       Claude        01d       14       48        14.1       3         461       6½ miles       Claude        01d       14       48        14.1       3         461       6½ miles       0. F. Towery        01d       71       36       3.0       61.7         southeast       0. F. Towery        1865       45       48       3.0       38.2         463       4½ miles       F. J. Clement        1865       45       48       3.0       38.2         east       a/ Weasuring point was usually top of optime       140.2       140.2       140.2       140.2       140.2	-	southeast	Wilson	1					00.0	1936
south       459 $5\frac{1}{2}$ miles       W. B. House        01d       63       36       2.0       55.6       1         460 6 miles       F. C. Stiles        1916       99       36        82.0         461 $6\frac{1}{2}$ miles       Claude        01d       14       48        14.1       1         462 5 miles       0. F. Towery        01d       71       36       3.0       61.7         463 $4\frac{1}{2}$ miles       F. J. Clement        1865       45       48       3.0       38.2         east       a/ Weasuring point was usually top of posing        1865       45       48       3.0       38.2	458	7 miles	W. H. Gambrell		1914	149	6	1.0	128.0	June 18
$459$ $5\frac{1}{2}$ miles south       W. B. House        Old       63       36       2.0       55.6       1 $460$ 6 miles southeast       F. C. Stiles        1916       99       36        82.0 $461$ $6\frac{1}{2}$ miles       Claude        01d       14       48        14.1       J $461$ $6\frac{1}{2}$ miles       O. F. Towery        01d       71       36       3.0       61.7 $462$ 5 miles       O. F. Towery        1865       45       48       3.0       38.2         east        1865       45       48       3.0       38.2		south		1	~~ * *	110	Ŭ	1	2~0*(	1 1936 0/
southsouthsouthsouthsouthsouthsouthsouth $460$ 6 milesF. C. Stiles1916993682.0southeast $461$ $6\frac{1}{2}$ milesClaude01d144814.11 $461$ $6\frac{1}{2}$ milesO. F. Towery01d71363.061.7 $462$ 5 milesO. F. Towery01d71363.061.7 $463$ $4\frac{1}{2}$ milesF. J. Clement186545483.038.2east186545483.038.2	459	5th miles	W. R. House		610	67	72	0 0	55 (	Tuno 10
460       6 miles       F. C. Stiles        1916       99       36        82.0         461       61/2       miles       Claude        01d       14       48        14.1       1         462       5 miles       0. F. Towery        01d       71       36       3.0       61.7         463       41/2       miles       F. J. Clement        1865       45       48       3.0       38.2         east       a/ Weasuring point was usually top of posing       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145       145		south	D- 110000	1	Jun	00	00	2.0	JU+1	1 JORE
SoutheastI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. SullesI. C. SullesI. C. SullesI. C. SullesI. C. SullesI. SullesI. C. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. SullesI. Sulles <t< td=""><td>460</td><td>6 miles</td><td>F. C. Stilos</td><td></td><td>1016</td><td>00</td><td>70</td><td></td><td>00 /</td><td>1 T200</td></t<>	460	6 miles	F. C. Stilos		1016	00	70		00 /	1 T200
461 $6\frac{1}{2}$ milesClaude01d144814.1southeastPatterson01d144814.14625 miles0. F. Towery01d71363.061.7southeast463 $4\frac{1}{2}$ milesF. J. Clement186545483.038.2east	100	o miros	Te Ae Dettes		1 210	23	30		82.0	1 40.
Tot og millesOlaudeOla144814.1southeastPatterson01d71363.061.74625 miles0. F. Towery01d71363.061.7southeast186545483.038.2east186545483.038.2	161	61 milos	Claude	I	01.2		,			L T
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	707	ob mittes	Dettorre		lora	14	48		14.]	y June 3,
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	165	Southeast:	Patterson		011					1936
$\frac{1}{463} \frac{4}{5} \text{ miles}  \text{F. J. Clement}   1865  45  48  3.0  38.2$	+04l	J MILES	U. r. Towery		OTq	71	36	3.0	61.7	do.
400 45 miles F. J. Clement 1865 45 48 3.0 38.2 east a/ Measuring point was usually top of easies top of series	AC7	southeast.	70 7 41		1					1
a/ Measuring point weg usually top of gazing top of	403	4g miles	F. J. Clement		1865	45	48	3.0	38,2	3; d <b>o</b> ∙
a/ Waaquring noint wag ugually ton of design ton of many ton a		east					·			
a more during point was usually up of casing, top ci pump base, or top of well	a/ 1498	suring po	int was usually	top of a	asing	, top (	ct pum	p base, or	top of	well curb.

No.	Pump and power	Uso of wator	Topo- graphic situa-	Romarks
	≌	⊴⁄	tion	
428	В,Н	D,S	Gentlc slope	Brick curb; 11 foot brick casing at top. Never fails. Ro- ported water in greenish yellow sand below soft, sandy shale
429				Drilled well. Oil test. See log.
430	C,W	D	Gcntlc slopc	Brick curb; 182 feet brie! casing at top. Never fails. Re- ported hard water in sand. Can be pumped dry in2 hours but
431	С <b>,</b> 11	D,S	do.	Drilled well. 6 inch steel casing, top refills in 3 hours.
432	C,W	D,S	do.	Concrete curb; concrete casing, trp to bettem. Never fails Reported water in sandstone below soapstone.
433	B,H	D,S	do.	Wood curb; wood casing, top to bottom. Nearly fails in sum- mcr. Reported turbid water in sand.
435	В,Н	D,S	do.	Concrete curb; coment casing, top of bettom. Nearly fails in drought. Reported water in fine. grav sand.
436	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails Reported water in quicksand under clay and sandy shale.
437	В,Н	S	do.	Concrete casing, top to bottom. Nearly fails in drought. Toportedturbid water from fine, gray quicksend.
438	C,17	D,S,	do.	Drilled well. 70 feet 6 inch blank casing and 15 feet perfer rated 6 inch on bottom. Strong supply. Teperted water in fine gray send
				THE BLAY DEALS
Nc.	Pump end powor <u>b</u> /	Use of water <u>c</u> /	Topo- graphic situa- tion	Romarks
450 8	Nono	N		Drilled well. Oil test. See leg.
451	C,S	Ind	Gentlc slope	Drilled well. 6 inch steel easing. t p to bottom with bottom 20 feet perferenced. Strong supply. Furnishes 75 gellons a
<u>/51</u>	None	N		Drilled well. Oil test. See log. minute.
45 <b>2</b>	७,अ	D,S	Lidgo-	Bored well. Word curb; wood casing, top to bottom. Never fails. Reported water in send.
453	B,H	D	Slepo	Wood curb; no casing. Nearly fails in drought. Reported
457	В,Н	D,S	do.	Wood curb; 11 feet wood casing at top. 30 feet coment casing at bottom. Never fails. Reported water in fine gray sand.
458	C,1.	D,S,	do.	Bored well. 6 inch steel easing, tep to bottem with bettem 20 feet perfereted. Strong supply ported water in fine
459	B,H	D,S	do.	Lood curb, 7 foct wood casing at top. Nover fails gray send.
460	C ,	D,S	do.	Brick curb; 22 feet brick casing at top. Never fails. Ic-
461	В,Н	D,S	dc.	Wood curb; wood casing, top to bottom. Never fails, hepert-
462	В,Я	D,S	do.	Brick curb; brick and stone casing, top to bottom. Reported
463	C ,		do.	Brick curb; 15 fect brick cesing at top. Strong supply. o- portod hard weter in gray sand.
	1	1	1	

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## -28-. I. Clark, Jr., Project Superintendent.

	Re	cords of wells	and spri:	ngs in	n Milam	County	Continue	eđ	
			تحريق المحتجر المتكانين			; ;		Water	level
No.	<b>D</b> istance	Owner	Driller	Date	Depth	Diam-	Height of	Depth	Date of
	from		· · · · · ·	com-	of	eter	measuring	bel <b>o</b> w	measure-
	Thorndale			pla-	well	of	point a-	measur	- ment
				ted	(ft.)	well	bove gro-	ing po:	int
			• · · · · · · · · · · · · · · · · · · ·			1	und(ft.)a	/ (ft.	)
464	5 miles '	Ed. Perrv		01d	57	48		31.7	June 3,
	east		1		1	1	ł		1936
465	6 miles	John Timmermar	1 1	1928	33	36	2.0	32.1	June 2,
	east				1	:			1936
466	6 miles	Martindale Co.		1910	18		3.0	15.8	Apr. 15,
	northeast		r I		1				1936
467	5± miles	Andrew Holder		1916	32	30	2.0	31.2	Apr. 1,
	northeast								1936
468	5 miles	J. A. Malcrea	ase	1934	25	30	3.0	23.6	Apr. 15,
	northeast				! !				1936
469	$3\frac{3}{4}$ miles	J. H. Clement		1930	17	36	3.0	14.7	do.
	northeast				<u> </u>				
470	4 miles	H.W.Rodenbeck		1935	33	30	3.0	32.6	d <b>o.</b>
	northeast								
471	$4\frac{1}{4}$ miles	W. T. Johnson	Walter	1933	2,231	6-5/8	0.5	6.5	Apr. 1,
	ncrth		Michalk					10 5	1930
472	do.	do.		1916	20	30	1.0	TA•D	d <b>0</b> •
A 77 17	5 - 13			01.1		70	1.0	90.4	do
473	o miles	C. W. Barron		010	30	30	1.0	20.4	d <b>0.</b>
A 17 A	north	Com Clonont			Canina			TI our	Apr 15
4/4	u <b>u.</b>	Sam ofement			opring			T10WS	Apr. 10, 1036
475	13 milon	H K Looklin		1005	27	30		35.8	1000 100
7/0	$\frac{1}{2}$ milles	IT. V. TOCVIII		T900	01	50	U I	00.0	u <b>v</b> •
476	101 011	Herman Fussal		610	35	30	0.5	30.0	-05
1/0	401	Horman Fubbor		UIU	00	00	0.0	00.0	
477	34 miles	Ernst Richter		610	45	30	1.0	23.8	do.
	north	221000 111011001		010	10		<b>1</b> 00	2010	
478	23 miles	H.W.Rodenbeck		1922	19	30	2.0	15.8	do.
	north		1			00			
479	25 miles	John Melde	;	1919	26	36	3.0	20.9	June 18.
	northeast						1	-	1936
480	1 miles	Crazy Crystal	E. L.	1929	2,231	8		Flows	Aug. 8,
	northeast	Co.	Chapman	•	,				1936
481	$\frac{3}{4}$ mile	A. L. Hines		1920	14	48	2.0	4.4	June 18,
	north			L A	4	1		1	1936

-29-

A Measuring point was usually top of casing, top of pump base, or top of well curb. b/ T, turbine; Cf, centrifugel; A, air lift; C, cylinder; B, bucket; E, electric; S, stoam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

Nc.	Pump:	Usc	Tepo-	Lomarks
,	and	cf	graphic	
\$	powc	· water	situa-	
	<u>b/</u>	⊴⁄	tion	
464	B H	DS	Side of	Brick curb; 8 fect brick casing at top. Novor fails. 10-
			ridge	ported water in gray sand below sandy shale.
4 65	B,H	D	Slopo	Wood curb; 12 feet wood casing at top. Never fails. Lepert-
4 66	BH	DS	d0.	Wood curb: no easing Wearly fails in drought. Reported
	5,4	- ,~		hard water from gravel.
467	C ,	D,S,1	Lidge.	Concrete ourb; concrete casing, tep to bottem. Never fails.
			top	Reported water in white sand below sandstone.
4 68	В,Н	D,S	Slope	Concrete curb; concrete casing, top to bottom. Never fails.
				Reported slightly salty tasting water in fine, yellow sand.
.^ 69 ⁱ	B,H	S	Valloy	Wood curb; word and brick casing, top to bottom. Nover fails.
			flocr	Reported mineral water from sandy clay.
470	B,H	D,S	Slcpø	Brick curb; brick casing, top to bottom. Strong supply. ic-
i				ported hard water from fine, yellow quicksand.
471	Nenc	М	de.	Drilled well. Oil test. Partially plugged. Reported strong
			, 	flow of minoral water when drilled. See log.
472	в,Н	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails.
				Reported hard wat r in yellow gravel abeve sandstene.
473 J	0,17	D,S	do.	Brick curb; loose brick casing, top to bottom. Never fails.
				Reported hard water in sandy gravel above sandstone.
474	Nono	N	Basc cf	Flew from gravel at base of 30 foot bluff 300 foot from river.
			bluff	bank. Nover fails.
475	в <b>,</b> н	D,S	Slope	Brick curb; brick casing, top to bettem. Nev-r fails. 10-
ARA	0.1	<b>D</b>		ported water from gravel above sandstone.
410	0,1	<b>D9</b> S	do	Brick curb; brick casing, top to bottom. Never fails, 1.6-
400	0 1	D C	17 33	ported water in yellow gravel.
477	We ⁰	D <b>,</b> S	Knoll-	Wood curb; brick casing, top to bottom. Never fails, no-
170		7 0	top	ported water in sandy gravel.
- <u></u>	ا الو ال	D <b>,</b> S	STODO	Brick curb; brick casing, top to bottom. Nearly fails in
170	모내	DC	10	Summer, Reported water in gravel below sendy clay.
'r 1 J	л, ^д	<b>с,</b> Ц	αυ.	Brick curb; brick casing, top to bottom. Strong well. he-
100	Nonal	M	Trailor	porced water in sandy gravel belew sendy shale.
400	TACITC I	1/1	PL COM	M modicinal prince woll, one ci 6 similar wells, Flows
481		DC	Crock	Priels such heigh assign ton to better News
-101	٠,- و ٠	<b>رو</b> لا	Voll or	faile Toported water in and aread holey areadly alor
~	t inni	gotio	Valley	industrial. P public. D demostics C stack N not used
$\frac{\partial}{\partial t}$	viri ex	r com	. و100 مارد مرارم مار	coted for encluic
	いい W おしし Toto ママ	പെട്പി. പെടിം	NO COTTO	cocca for sustats.
<u> </u>	nauur 1	OVOL 1	oper cea.	•

-30-W. I. Clark, Jr., Preject Superintendent

-31-										
Table	of	Drillers'	Logs,	Milam	County,	Texas				

	Thickness	Depth	•	Thickness	Depth (fact)
	(feet)	(feet)		(reer)	(Teec)
Wall 1			Well 107Contir	nueđ	
Robt P Ponn - Hand	wleese 9 m	ilog	Shale and houlders	259	725
northeast of Destille	y 16486, 5 II.	ITTES	Sticky shale	507	1232
Surfero	76	36	Shele and houlders	126	1358
Shele	182	218	Shale and nurite	2	1360
Hard chale	200	418	Hard shale	42	1402
Sticky shele	100	518	Send	418	1820
Shelp	61	579	Hard shale	36	1856
Gumbo	20	599	Gumbo	10	1866
Hand shale	26	625	Hand shale	224	2090
Soft chalk	148	773	Chalk cored	3	2093
Chalk	122	895	Chalk	352	2445
Hard chalk	97	992	Eagle Ford and chalk	5	2450
Chalk	72	1064	Chalk	172	2622
Core determinetions by	Bureen of		Egle Ford	10	2632
Taylor $525-535$	DUTCHU OT U		Core	8	2640
Top of Austin 625-635			Ragle Ford	47	2687
Top of hard chalk 645-	655		Buda	14	2701
Austin 1092-1099	000		Base of Buda	26	2727
Buda 1348			Del Rio	63	2790
Del Rio 1396-1407			Georgetown	42	2832
Georgetown 1455-1457			Del Rio	29	2861
Rdwards 1601-1737			Georgetown	174	3035
Walnut 1737-2808			Edwards	102	3137
TOTAL DEPTH		2808	TOTAL DEPTH		3137
	<del>ال</del> ود منامه الدواري معرفة ومدومة أوامي واليوسوريون.			·····	
Well 28 Chicago Oil and Gas Co 61 miles east of David	) 5., L. Syper 11a.	t lease,	Well 116par Baskin Brothers, Zelln southwest of Cameron.	tial log ev lease,	6 miles
Surface	3	3	Yellow clay	21	21
Clav	6	9	No record	10	31
Dark shale	31	40	Dark shale	459	490
Hard sand	50	90	Light shale	610	1100
Water	1	91	White lime rock (gas s	haw) 60	1160
Gray shale	185	276	Dark shale	388	<b>1</b> 548
Pecan gap (lime)	64	340	White shale or lime (c	alled	
Sandy shale	10	350	Austin chalk by some	e) 623	2171
Hard blue sand	47	397	Very dark shale	59	2230
Blue sand and shale wi	i th		TOTAL DEPTH		2230
shells	213	610			
Blue shale	60	670	Well 138	3	
Gray shale	20	690	W. H. Birdwell, J. F.	Bartek lea	se,
Austin chalk	15	705	$  7\frac{1}{2}$ miles northwest of	Cameron.	
TOTAL DEPTH		705	Sand and gravel	18	18
	,		Shale	353	371
Fell 10	07		Lime-Pecan gap	6	377
Alexander and Lyles,	R. L. Batte	lease,	Shale	523	900
6 miles southwest of	Cameron.	-	Cuttings from 900 dowr	n examined	and
Soil	20	20	reported by Humble 1	aboratory.	
Sandy shale	40	60	Austin chalk-soft	38	938
Sand	49	109	Austin chalk-hard	475	1413
Rock	2	111	Cuttings showed some H	Lagle Ford	from
Shale and boulders	349	460	1392. Also chalk.	- 1	
Lime	2	462	Eagle Ford	127	1540
Minerve sand	4	466	Buda lime	15	1555
	Í		(Continued on ne	ext page)	
	ļ				

# -32-Table of Drillers' Logs, Milam County--Continued

	TT13 4 1	The 11		(m). + . )	Danth
	Inickness	Deptn		Inickness (Part)	
	(Ieet)	(reet)		(leet)	(reec)
Core changed 2 trabes of	itinued		Well 177	ntinuea	3 5 4 0
Core showed 2 inches of	sand with		hard shale	239	1049
711 1003-1000	•		Gray shale	14	1000
Shale and calcite	13	1568	Sticky gray shale	77	1640
Dark gray calcareous cla	ay 30	1598	Broken rock	3	1643
Small oil show and shell	l rock 1588		Shale	628	2271
Pyrite and chalk	2	1600	Sand rock	2	2273
Gray chalky marl	22	1622	Shales and boulders	12	2285
Georgetown	252	1874	Hard lime rock	2	2287
Dobe (?)	10	1884	Hard shale and chalk	24	2311
Edwards lime	40	1924	Hard lime rock	3	2314
TOTAL DEPTH		1924	Hard shale	49	2363
40 feet into Edwards lin	ne with flo	wing	: Gumbo, rock and boulde	rs 7	2370
water. Lerge mineral	content in	water	Chalk	25	2395
with small amount of a	oil.		Sandy shale	3	2398
			' Hard chalk	80	2478
Well 177			Lime and chalk	17	2495
Coffield and Hale, L. N.	Posev far	m.	Lime, shale, and bould	ers 215	2710
65 miles east of Cameron	n.	<b>y</b>	TOTAL DEPTH		3890
Soil, sand and clay	120	120			
Gumbo	120 6	126	$\mathbb{W}_{0} = 1 + 180 \mathbb{P}_{0} + \frac{1}{2}$	iel log	
Water cand	34	160	Undomuni tong Oil Co	TAT TOE	mm 71
Sendy shale	0 <del>1</del> 70	100	miler est of Company	<b></b> 198011 18	11m, 12
Hand and make	30 24	190	Miles east of Cameron.	20	20
Conder ale la	60 45	213	Iellow Clay	20	20
Sendy shale	45	258	water sand	83	103
blue snale	33	291	Blue packed sand	284	387
hard sand rock	19	310	Hard brown rock	15	402
Shale and boulders	16	326	Blue shale	708	1110
Hard sand rock	4	330	Light shale	308	1490
Shale and boulders	20	350	Shale	10	1500
Herd sand rock	10	360	Sand rock	5	1505
Sondy shale	20	380	Shale	625	2130
Hard rock	4	384	Austin chalk	24	2154
Sandy shale	61	445	TOTAL DEPTH		2154
Hard sand rock	28	473			
Sandy shale	7	480	Well 201		
Gʻumbo	100	580	Reiter - Foster, and S	imms, St	idham
Hard sand rock	5	585	farm, 7 miles south of	Baileyvil]	.e.
Sandy shale	10	595	Clay	18	18
Gumbo	218	813	Shale and gravel	57	75
Grevel-water	24	837	Shale and boulders	140	215
Gumbo	8	845	Rock	2	217
Black shale	228	1073	Shale and boulders	48	265
Shale	117	1190	Bock	3	268
Sand rock - ras	2	1192	Shale	63	331
Green sand - gas	23	1195	Bock	ĩ	332
Green shale	2	1107	Shale and houldong	278	610
Sandy blue chale	גי זינ	1210	' Shale	262	979
Cholo and forgile	10 0	1010		202	012
	0	1000	Shale and Dould ers	41	3 0 6 0 A T 9
Sand rock	2	1220	onale Contra	1025	TA28
Shale and fossils	6	1226	vhalk	20	1958
Black shale	32	1258	Broken chalk	280	2238
Sand rock	2	1260	Shale	717	2955
Hard shale	25	1285	Chalk	500	3455
Soft shale	22	1307	TOTAL DEPTH	1	3830
Boulders	3	1310			

			-	-33-	
Table	of	Drillers'	Logs,	Milam	CountyContinued

Weil 211 Milam Oil and Gas Co., White farm, Si miles west of Baileyville. Surface         Weil 22C United Workers Oil Co., H. M. Sneed Extate, 32 miles south of Baileyville. Stafes         United Workers Oil Co., H. M. Sneed Extate, 32 miles south of Baileyville. Extate, 32 miles south of Baileyville. Shale         18         18           Black shale         90         170         Shale         6         26           Black shale         20         122         Facked sand         17         43           Black shale         238         700         Rock         3         56           Sticky shale         29         400         Rock         3         56           Sundy shale         26         703         Rock         3         56           Rock         2         955         Rock         3         36           Sandy shale         26         703         Rock         3         36           TOTAL DEFTH         1866         Rock         2         125           Meil 216         30         30         Rock         2         224           Shale         6         38         Rock         2         244           Shale         8         22         80         Rock         2         244		Thickness	Depth		Thickness	Depth
Wail 211         Weil 22C           Milam CAI and Gas Co., White farm, Srifese         United Workers Cil Co., H. M. Sneed Estate, 3g miles south of Baileyville.           Surface         90         40         40           Rock         2         122         Packed sand         17         43           Black shale         90         100         Shale         2         45           Rock         1         371         Sand         8         53           Sundy shale         295         600         Sand         15         71           Rock         2         703         Shale         20         92           Bard shale         282         965         Rock         3         56           Ture ling or chalk         165         71         Rock         2         135           Sandy shale         286         Rock         2         165         Rock         2         165           Ture ling or chalk         165         170         Rock         2         226         163           Sandy shale         20         50         Rock         2         163         163           Ture ling or chalk         165         170         Rock<		(feet)	(feet)	1	(feet)	(feet)
Milan Oll and Orac Co., White farm,       United Workers Oll Co., H. M. Sneed $3^{2}$ miles west of Buileyville.       Surface       40       40         Black shale       90       170       18       18         Black shale       90       170       Shale       8       18         Black shale       20       180       Shale       8       70         Black shale       29       400       Rock       2       45         Brack shale       29       400       Rock       3       56         Brack shale       205       Smal       15       71         Snady shale       96       701       Rock       1       72         Brack shale       282       985       Smale shale       20       92         Rock       2       708       Rock       3       56         Grad shale       282       985       Snady shale       36       16         Ture lime or chalk       185       170       Sandy shale       36       16         Ture lime or chalk       185       Sand       28       163       16         Ture lime or chalk       216       Sand       80       24       <	Well 2	211		Well	220	
32       miles west of Baileyville.       Estate, 32       miles south of Baileyville.         Surface       90       150       Chyr.       16       18         Black shale       90       150       Shale       6       2         Rock       2       122       Packed snd       17       43         Black shale       28       370       Bock       2       45         Rock       1       371       Sand       8       53         Sticky shale       29       400       Rock       3       56         Sandy shale       205       605       Sand       15       71         Rock       2       703       Shale       20       92         Furd shale       28       985       Rock       3       164         Rock       2       125       Sandy shale       38       183         TOTAL DEFTH       1366       Rock       2       226       Sand       164         Lay and B. Oll Co., Woodal Bros. farm,       1       164       224       224         Shale and boulders       29       30       30       Shale       224       247         Rock       2	Milam Oil and Gas Co.	White f	arm.	United Workers Oil C	o. H. M. Sne	ed
Surface         40         Cluy         16         18         18           Black shale         90         170         Shale         8         2         25           Rock         2         132         Packed sand         17         43           Black shale         236         370         Rock         2         45           Rock         1         371         Sand         8         53           Sticky shale         29         400         Rock         3         56           Eard shale         205         Shale         20         92         Rock         3         95           Fure line or chalk         185         1170         Sandy shale         38         133         135           Sandy line         186         1556         Rock         2         185         163           TOTAL DEFTH         1268         Sand         12         1868         Sand         1         164           Hard sand         19         183         Shale         2         226         18         163         163           TOTAL DEFTH         166         1556         Rock         2         226         Shale	$3\frac{3}{4}$ miles west of Bail	leyville.	. <b>.</b> .	Estate, $3\frac{3}{4}$ miles sou	th of Baileyv	rille.
Black shale         90         170         Shale         8         26           Rock         2         132         Packed sand         17         43           Black shale         238         570         Rock         2         45           Rock         1         371         Sand         8         53           Sticky shale         29         400         Rock         3         56           Sandy shale         205         605         Sand         15         71           Rock         2         703         Shale         20         92           Fure lime or ohalk         185         1170         Sandy shale         38         133           Sandy lime         166         1356         Rock         2         135           Gas sand         12         1366         Rock         2         135           Sandy shale         30         30         Rock         2         226           13         166         36         Rock         2         247           Rock         2         30         30         Rock         2         247           Rock         2         32 <t< td=""><td>Surface</td><td>40</td><td>40</td><td>Clayy</td><td>18[°]</td><td>18</td></t<>	Surface	40	40	Clayy	18 [°]	18
Rock       2       122       Pecked sand       17       43         Black shale       238       370       Rock       2       455         Rock       1       371       Sand       8       55         Bard shale       205       606       Rock       3       56         Eard shale       205       606       Rock       1       72         Rock       2       703       Shale       20       92         Hard shale       262       965       Rock       3       95         Pure limo or ohalk       1866       1356       Rock       2       135         Sandy lime       166       1356       Rock       1       164         ToTAL DEFTH       1366       Rock       1       164         Lime rosk       4       186       Sand       2       226         Shale       6       36       Rock       3       237         Rock       2       220       Sca       Rock       3       237         Rock       2       220       Sca       Rock       3       237         Rock       2       20       Sca       Rock <td>Black shale</td> <td>90</td> <td>130</td> <td>Shale</td> <td>8</td> <td>26</td>	Black shale	90	130	Shale	8	26
Black shale     258     370     Rock     2     45       Rock     1     371     Sand     6     53       Stidy shale     29     400     Rock     3     56       Bard shale     205     605     Sand     15     71       Rock     2     703     Shale     20     92       Bard shale     22     965     Rock     3     95       Pure lime or chalk     166     1356     Rock     2     165       Sandy lime     166     1356     Rock     2     165       Gas sand     12     1368     Sandy shale     38     163       TOTAL DEFTH     1366     Sand     28     163       Total Definition     166     1356     Rock     2     226       Shale     6     53     Sand     28     163       Total Definition     166     1366     Sand     28     163       Staley shale     38     Sand     28     163     164       Bard southeast of Baileyville.     8     245     166     166     245       Shale     20     58     Rock     2     247       Shale     11     91     Shale	Rock	2	132	Packed sand	17	43
Rock         1         S71         Send         6         53           Sticky shele         29         400         Rock         3         56           Hard shale         205         605         Sand         15         71           Rock         2         702         Shale         20         92           Hard shale         205         605         Sand         177         72           Rock         2         702         Shale         20         92           Hard shale         202         925         Rock         3         95           Pure line or ohslk         165         170         Sandy shale         36         133           Gas sund         12         1368         Rock         2         153           Gas sund         12         1368         Sand         28         164           Jamiles southeast of Baileyrille.         Sand         8         243         164           Shale         61         35         Sand         8         244           Shale ond boulders         22         80         Line rook         4         245           Shale ond boulders         19         Shale <td>Black shale</td> <td>238</td> <td>370</td> <td>Rock</td> <td>2</td> <td>45</td>	Black shale	238	370	Rock	2	45
Sticky shale       29       400       Rock       3       56         Hard shale       205       605       Sand       16       71         Rock       2       703       Shale       20       92         Hard shale       22       985       Rock       3       95         Pure lime or shalk       185       1170       Sandy shale       38       133         Sandy lime       166       1356       Rock       2       155         Gas sand       12       1368       Sandy shale       28       163         TOTAL DEFTH       1368       Rock       1       164         Tamble southeast of Baileyrille.       Sand       28       224         Shale       6       38       Rock       3       2247         Rock       2       32       Shale       8       245         Shale and boulders       22       80       Lime rock       4       269         Shale and boulders       129       220       Sand and boulders       20       307         Rock       2       917       Shale       8       245         Shale and boulders       29       176       Shal	Rock	1	371	Sand	8	53
Hard shale       205       605       5 and       16       71         Sandy shale       96       701       Rock       1       72         Rock       2       703       Shale       20       92         Hard shale       262       965       Sandy shale       38       172         Sandy line       166       1356       Rock       2       155         Gas sand       12       1368       Sandy shale       38       183         TOTAL DEPTH       1368       Sand       28       163       164         Limer dand       Book       1       164       164       164       164         Limer dand       Book       1       166       18       166       168       265       266       266       267       266       267       266       267       266       266       267       266       267       266       267       266       266	Sticky shale	29	400	Rock	3	56
Sandy shale         96         701         Rock         1         72           Rock         2         703         Shale         20         92           Rack shale         282         985         Rock         3         95           Fure lime or chalk         185         1170         Sandy shale         35         353           Gas sand         12         1368         Rock         2         1355           Gas sand         12         1368         Rock         1         164           If miles southeast of Baileyville.         Sand         8         226         5hale         4         224           Sande         2         25         Shale         8         245         707           Rock         2         25         Shale         8         245         707           Shale         6         35         Rock         2         247         707         707         707         707         707         707         707         707         707         707         707         707         707         707         707         707         707         707         707         707         707         707         7	Hard shale	205	605	Sand	15	71
Rock         2         703         Shale         20         92           Hard shale         282         965         Rock         3         95           Sandy lime         186         1356         Rock         2         135           Sandy lime         186         1356         Rock         2         135           Gas sand         12         1368         Sandy shale         36         133           TOTAL DEPTH         1368         Rock         1         164           miles southeast of Bailyville.         Sand         8         163           Clay         30         50         Rock         2         226           Rock         2         32         Shale         8         237           Rock         2         32         Shale         8         247           Rock         2         32         Shale         18         247           Rock         2         60         Lime rock         4         224           Shale and boulders         129         220         Sand and boulders         20         707           Shale and boulders         129         746         Gumbo         64	Sandy shale	96	701	Rock	1	72
Hard shale     282     985     Nock     3     95       Fure lime or chalk     185     1170     Sendy Shale     35     135       Gas sand     12     1366     Rock     2     135       Gas sand     12     1366     Sandy Shale     38     163       TCTAL DEFTH     1366     Rock     1     164       Hard send     19     183       Sandy Liber, Woodal Bros, farm,     Rock     2     226       Clay     30     30     Sand     237       Rock     2     32     Shale     8     245       Shok     2     32     Shale     8     245       Shok     1     91     Shale     8     245       Shok     1     91     Shale     245       Shok     1     91     Shale     265       Shale and boulders     129     220     Sand and boulders     20	Rock	2	703	Shale	20	92
Fue line or chalk         185         1170         Sandy shale         36         133           Sandy line         186         1356         Rock         2         135           Sandy line         186         1366         Rock         2         135           CTAL DEFTH         1368         Rock         1         163           Well 216         Rock         1         164           Hard send 5. Cil Co., Woodel Bros. farm, 14 miles southeast of Baileyville.         Rock         2         226           Clay         30         30         80         Rock         3         234           Rock         2         32         Shale         8         245           Shale         6         88         Rock         2         247           Rock         20         58         Hard shale         18         265           Shale and boulders         129         220         Shale         10         317           Shale         10         91         Shale         10         317           Shale and boulders         169         915         Shale         10         353           Shale and boulders         33         950	Hard shale	282	985	Rock	3	95
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Pure lime or chalk	185	1170	Sandy shale	38	133
Gas send         12         1366         Sand         28         163           TOTAL DEFTH         1366         Rock         1         164           Well 216         Rock         1         164           B, and B. Oil Co., Woodal Bros, farm, 4 miles southeast of Baileyville.         Shale         41         224           Clay         30         30         So         Rock         2         226           Shale         6         38         Rock         2         226           Shale         6         88         Rock         2         247           Rock         20         58         Hard shale         18         265           Shale and boulders         22         80         Lime rook         4         2247           Rock         11         91         Shale         10         317           Shale and boulders         129         220         Sand and boulders         20         807           Shale and boulders         426         650         Gumbo         4         244           Shale and boulders         169         915         Shel1         1         479           Rock         2         917	Sandy lime	186	1356	Rock	2	135
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Gas sand	12	1368	Sand	28	163
Well 216Iard sand19183ShaleShale41224ShaleShale41224ShaleSoutheast of Baileyville.Sand8234Clay3030Rock3237Rock252Shale8245Shale638Rock2247Rock2058Hard shale18265Shale and boulders129220Sand and boulders20Shale and boulders129220Sand and boulders20Shale and boulders4624Shale10Shale and boulders129220Sand and boulders20Shale and boulders129220Sand and boulders20Shale and boulders129220Sand2Shale and boulders165Sand2414Shale2095412Bard gray lime rook4654Sand2Shale and boulders169915Shele20Shale and boulders35960Shel11479Rook2917Shale10543Rook151190Gumbo8651Shale1651355Shale51602Shale151607Shale41693Shale161640Gumbo56749Chalky	TOTAL DEPTH		1368	Rock	1	164
Well 216Shale41224B, end B, Oil Co., Woodal Bros. farm,Rock2226A miles southeast of Baileyville.Sand8237Clay3030Rock3237Rock252Shale8245Shale638Rock2245Shale191Shale18266Rock2058Hard shale18267Rock2058Hard shale18267Rock1191Shale18267Rock1191Shale18277Rock4224Shale10317Shale and boulders129220Sand and boulders20Shale and boulders169915Shel11479Rock2917Shale20442Shale and boulders169915Shel11533Shale1551175Shale10543Rock151190Gumbo8551Shale1651356Shale51602Shale1651640Gumbo50652Shale1001760Sand55604Rock151190Gumbo50652Shale1651356Gumbo50652Shale1651360Gumbo<	**************************************			Hard sand	19	183
B. and B. Oil Co., Woodal Bros. farm, lamiles southeast of Baileyville.       Rock       2       226         lamiles southeast of Baileyville.       Sand       8       237         Rock       2       32       Shale       8       245         Shale       6       38       Rock       2       247         Rock       20       56       Herd shale       18       265         Shale and boulders       229       80       Lime rock       4       269         Rock       11       91       Shale       16       267         Shale and boulders       129       220       Sand and boulders       20       307         Rock       4       224       Shale       10       317         Shale and boulders       429       746       Gumbo       94       414         Shale and boulders       169       915       Shal1       1       479         Shale and boulders       33       950       Gumbo       33       532         Gumbo       30       960       Shell       1       1       533         Shale and boulders       5       1560       Gumbo       6       651         Shale </td <td>Well 2</td> <td>216</td> <td></td> <td>Shale</td> <td>41</td> <td>224</td>	Well 2	216		Shale	41	224
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	B. and B. Oil Co., Wo	odal Bros. f	arm.	Rock	2	226
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$1\frac{3}{4}$ miles southeast of	Bailevville		Sand	8	234
Rock       2       32       Shale       8       245         Shale       6       38       Rock       2       247         Rock       20       58       Hard shale       18       265         Shale and boulders       22       80       Lime rock       4       269         Rock       11       91       Shale       18       265         Shale and boulders       129       220       Sand and boulders       20       307         Rock       4       224       Shale       10       317         Shale and boulders       426       650       Gumbo       95       412         Brade gray lime rock       4       654       Sand       2       414         Shale and boulders       169       915       Shel1       1       479         Rock       2       917       Shale       20       499         Shale and boulders       350       Gumbo       35       532         Gumbo       30       960       Shel1       1       533         Shale       195       1175       Shale       10       543         Shale       165       1900 <th< td=""><td>Clav</td><td>30</td><td>30</td><td>Rock</td><td>3</td><td>237</td></th<>	Clav	30	30	Rock	3	237
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Rock	2	32	Shale	8	245
Rock         20         58         Hard shale         18         265           Shale and boulders         22         80         Lime rock         4         269           Rock         11         91         Shale and boulders         20         307           Rock         4         224         Shale and boulders         20         307           Rock         4         224         Shale and boulders         20         307           Rock         4         224         Shale         10         317           Shale and boulders         426         650         Gumbo         95         412           Hard gray lime rock         4         654         Sand         2         414           Shale and boulders         169         915         Shel1         1         479           Rock         2         917         Shale         20         499           Shale and boulders         33         950         Gumbo         33         532           Gumbo         70         960         Shel1         1         533           Shale         195         1175         Shale         10         543           Rock	Shale	6	38	Rock	2	247
Shale and boulders       22       80       Lime rock       4       269         Rock       11       91       Shale       Shale       18       287         Shale and boulders       129       220       Sand and boulders       20       307         Rock       4       224       Shale       10       317         Shale and boulders       426       650       Gumbo       95       412         Hard gray lime rock       4       654       Sand       2       414         Shale and boulders       169       915       Shale       2       414         Shale and boulders       169       915       Shale       20       499         Shale and boulders       169       915       Shale       20       499         Shale and boulders       33       950       Gumbo       33       532         Gumbo       70       960       Shale       10       543         Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       51       602         Shale       215       1575       Shale       51       602	Rock	20	58	Hard shale	18	265
Rock         11         91         Shale         18         287           Shale and boulders         129         220         Sand and boulders         20         307           Rock         4         224         Shale         10         317           Shale and boulders         426         650         Gumbo         95         412           Hard gray lime rock         4         654         Sand         2         414           Shale and boulders         169         915         Shell         1         479           Rock         2         917         Shale         20         499           Shale and boulders         33         950         Gumbo         33         532           Cumbo         30         960         Shell         1         533           Shale         195         1175         Shale         10         543           Rock         15         1190         Gumbo         8         651           Shale         165         1355         Shale         51         602           Shale         215         1575         Shale         51         602           Shale         221	Shale and boulders	22	80	Lime rock	4	269
Shale and boulders       129       220       Sand and boulders       20       307         Rock       4       224       Shale and boulders       20       307         Shale and boulders       426       650       Gumbo       95       412         Hard gray lime rock       4       654       Sand       2       414         Shale and boulders       169       915       Shell       1       479         Rock       2       917       Shale       20       499         Shale and boulders       169       915       Shell       1       479         Rock       2       917       Shale       20       499         Shale and boulders       33       950       Gumbo       33       532         Cumbo       30       980       Shell       1       533         Shale       195       1175       Shale       10       543         Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       41       693         Sticky shale       65       1640       Gumbo       50       652         Shale       <	Rock	11	91	Shale	าล์	287
Rock         4         224         Shale         Correction         317           Shale and boulders         426         650         Gumbo         95         412           Hard gray lime rock         4         654         Sand         2         414           Shale and boulders         169         915         Shell         1         479           Rock         2         917         Shale         20         499           Shale and boulders         33         950         Gumbo         35         532           Gumbo         30         980         Shell         1         533           Shale         195         1175         Shale         10         543           Rock         15         1190         Gumbo         8         551           Shale         165         1355         Shale         51         602           Shale         165         1355         Shale         41         693           Sticky shale         65         1640         Gumbo         56         749           Chalky shale         18         1776         Gumbo         20         822      Shale end shell         189	Shale and boulders	129	220	Sand and boulders	20	307
Shale and boulders $426$ $650$ $Gumbo$ $95$ $412$ Hard gray lime rock4 $654$ Sand2 $414$ Shale92 $746$ $Gumbo$ $64$ $473$ Shale and boulders $169$ $915$ Shell1 $479$ Rock2 $917$ Shale $20$ $499$ Shale and boulders $33$ $950$ $Gumbo$ $33$ $532$ Gumbo $30$ $980$ Shell1 $533$ Shale $195$ $1175$ Shale10 $543$ Rock $15$ $1190$ $Gumbo$ $8$ $551$ Shale $165$ $1355$ Shale $51$ $602$ Shale $165$ $1555$ Shale $51$ $602$ Shale $215$ $1575$ Shale $41$ $693$ Sticky shale $65$ $1640$ Gumbo $56$ $749$ Chalky shale $120$ $1760$ Sand $55$ $804$ Hard chalk $18$ $1778$ Gumbo $20$ $824$ Chalk $384$ $2162$ $Soft$ shale $108$ $932$ Shale end shell $189$ $2351$ Gumbo $20$ $952$ Lime and pyrites $35$ $2386$ Shale $38$ $990$ Lime $15$ $2401$ Gumbo $62$ $1154$ Shale $26$ $2427$ Shale $22$ $1092$ Lime and pyrites $35$ $2366$ Gumbo $62$ $1154$ S	Rock	4	224	Shale	10	317
Hard gray lime rock       4       654       Sand       2       414         Shale and boulders       169       915       Shale       1       479         Rock       2       917       Shale       20       499         Shale and boulders       169       915       Shele       20       499         Shale and boulders       33       950       Gumbo       33       532         Gumbo       30       980       Shell       1       533         Shale and boulders       33       950       Gumbo       33       532         Gumbo       30       980       Shell       1       533         Shale       195       1175       Shale       10       543         Rock       165       1355       Shale       50       662         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Hard ohalk       18       1778       Gumbo       20       952         Lime and pyrites       35 <td>Shale and boulders</td> <td>426</td> <td>650</td> <td>Gumbo</td> <td>95</td> <td>412</td>	Shale and boulders	426	650	Gumbo	95	412
Shale       92       746       Gumbo       64       478         Shale and boulders       169       915       Shell       1       479         Rock       2       917       Shale       20       499         Shale and boulders       33       950       Gumbo       33       532         Gumbo       30       980       Shele       1       533         Shale       195       1175       Shale       10       543         Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       50       662         Shale       165       1355       Shale       51       602         Shale       215       1575       Shale       41       693         Sticky shale       120       1760       Sand       55       804         Hard ohalk       18       1778       Gumbo       20       824         Chalk       364       2162       Soft shale       108       932         Shale end shell       189       2551       Gumbo       20       824         Chalk       364       2162       S	Hard grav lime rock	4	654	Sand	2	414
Shale and boulders       169       915       Shell       1       479         Rock       2       917       Shale       20       499         Shale and boulders       33       950       Gumbo       33       532         Gumbo       30       980       Shell       1       533       532         Gumbo       30       980       Shell       1       533       532         Gumbo       30       980       Shell       1       533       532         Shale       195       1175       Shale       10       543         Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       51       602         Shale       165       1355       Shale       51       602         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Hard ohalk       18       1778       Gumbo       20       952         Lime and pyrites </td <td>Shale</td> <td>92</td> <td>746</td> <td>Gumbo</td> <td>64</td> <td>478</td>	Shale	92	746	Gumbo	64	478
Rock       2       917       Shale       20       499         Shale and boulders       33       950       Gumbo       33       532         Gumbo       30       980       Shell       1       533       532         Gumbo       30       980       Shell       1       533       532         Gumbo       30       980       Shell       1       533       532         Shale       195       1175       Shale       10       543         Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       51       602         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Eard shalk       18       1778       Gumbo       20       822         Chalky shale       189       2851       Gumbo       20       952         Lime and pyrites       35       2366       Shale       38       990         Lime	Shale and boulders	169	915	Shell	1	479
Shale and boulders       33       950       Gumbo       33       532         Gumbo       30       980       Shell       1       533         Shale       195       1175       Shale       10       543         Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       51       602         Shale and boulders       5       1360       Gumbo       50       652         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Eard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2351       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       60       1070         Shale       26       2	Rock	200	917	Shale	20	499
Cumbo       30       980       Shell       1       533         Shale       195       1175       Shale       10       543         Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       51       602         Shale       165       1355       Shale       51       602         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       18       1776       Sand       55       804         Hard chalk       18       1776       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2351       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456 </td <td>Shale and boulders</td> <td>33</td> <td>950</td> <td>Gumbo</td> <td>33</td> <td>532</td>	Shale and boulders	33	950	Gumbo	33	532
Shale       195       1175       Shale       10       543         Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       51       602         Shale       165       1355       Shale       51       602         Shale       165       1355       Shale       51       602         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Eard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2851       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       25	Gumbo	30	980	Shell	1	533
Rock       15       1190       Gumbo       8       551         Shale       165       1355       Shale       51       602         Shale       165       1355       Shale       51       602         Shale       165       1355       Shale       51       602         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Eard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2851       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       25	Shale	195	1175	Shale	10	543
Shale       165       1355       Shale       51       602         Shale       1355       Shale       50       652         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Hard chalk       18       1778       Gumbo       20       824         Chalky shale       120       1760       Sand       55       804         Hard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2351       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       21       1197         TOTAL DEPTH       3700	Rock	15	1190	Gumbo	8	551
Shale and boulders       5       1360       Gumbo       50       652         Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Eard chalk       18       1778       Gumbo       20       824         Chalky shale       120       1760       Sand       55       804         Eard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2851       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       21       1197         TOTAL DEPTH       3700       Gumbo       21       1197         Shele       36	Shale	165	1355	Shale	ธา	602
Shale       215       1575       Shale       41       693         Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Hard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2351       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       22       1176         TOTAL DEPTH       3700       Gumbo       21       1197         Shele       36       1273       Soft shale       67       1346	Shale and boulders	5	1360	Gumbo	50	652
Sticky shale       65       1640       Gumbo       56       749         Chalky shale       120       1760       Sand       55       804         Hard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2351       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       22       1092         Shale       49       2505       Shale       22       1154         Shale       49       2505       Shale       22       1176         TOTAL DEPTH       3700       Gumbo       21       1197         Shele       36       1273       Gumbo       46       1279         Soft shale       67       1346       56       1346	Shale	215	1575	Shale	41	693
Chalky shale       120       1760       Sand       55       804         Hard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2851       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       22       1176         TOTAL DEPTH       3700       Gumbo       21       1197         Shele       36       1273       Gumbo       46       1279         Soft shale       67       1346       1346       1346	Sticky shale	65	1640	Gumbo	56	749
Hard chalk       18       1778       Gumbo       20       824         Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2851       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       22       1092         Shale       49       2505       Shale       21       1197         TOTAL DEPTH       3700       Gumbo       46       1273         Gumbo       46       1279       Soft shale       67       1346	Chalky shale	120	1760	Sand	55	804
Chalk       384       2162       Soft shale       108       932         Shale end shell       189       2851       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       22       1070         Shale       49       2505       Shale       21       1197         TOTAL DEPTH       3700       Gumbo       46       1273         Gumbo       46       1279       Soft shale       67       1346	Hard chalk	18	1778	Gumbo	20	824
Shale end shell       189       2851       Gumbo       20       952         Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       22       1176         TOTAL DEPTH       3700       Gumbo       21       1197         Shele       36       1273       Gumbo       46       1279         Soft shale       67       1346       56       1346	Chalk	384	2162	Soft shale	108	932
Lime and pyrites       35       2386       Shale       38       990         Lime       15       2401       Gumbo       80       1070         Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       22       1176         TOTAL DEPTH       3700       Gumbo       21       1197         Shele       36       1273         Gumbo       46       1279         Soft shale       67       1346	Shale end shell	189	2851	Gumbo	20	952
Lime     15     2401     Gumbo     80     1070       Shale     26     2427     Shale     22     1092       Shale, shells, end lime     29     2456     Gumbo     62     1154       Shale     49     2505     Shale     22     1176       TOTAL DEPTH     3700     Gumbo     21     1197       Shele     36     1273       Gumbo     46     1279       Soft shale     67     1346	Lime and pyrites	35	2386	Shale	38	990
Shale       26       2427       Shale       22       1092         Shale, shells, end lime       29       2456       Gumbo       62       1154         Shale       49       2505       Shale       22       1176         TOTAL DEPTH       3700       Gumbo       21       1197         Shele       36       1233         Gumbo       46       1279         Soft shale       67       1346	Lime	15	2401	Gumbo	80	1070
Shale, shells, end lime       29       2456   Gumbo       62       1154         Shale       49       2505       Shale       22       1176         TOTAL DEPTH       3700       Gumbo       21       1197         Shele       36       1233         Gumbo       46       1279         Soft shale       67       1346	Shale	26	2427	Shale	22	1092
Shale     49     2505     Shale     22     1104       TOTAL DEPTH     3700     Gumbo     21     1197       Shele     36     1233       Gumbo     46     1279       Soft shale     67     1346	Shale, shells and li	me 29	2456	Gumbo	62	1154
TOTAL DEPTH         3700         Gumbo         21         1197           Shele         36         1233         1279           Soft shale         67         1346	Shale	49	2505	Shale	22	1176
Shele         36         1233           Gumbo         46         1279           Soft shale         67         1346	TOTAL DEPTH	τυ	3700	Gumbo	21	1197
Gumbo     46     1279       Soft shale     67     1346				Shele	36	1233
Soft shale $67  1346$				Gumbo	46	1279
				Soft shale	67	1346

ft shale 67 (Continued on next page) -34-Table of Drillers' Logs, Milam County--Continued

	Thickness (feet)	Depth (feet)	T	hickness (feet)	Depth (feet)
Well 220Co	ontinued	,	Well 253Con	tinued	
Shale and gas sand	11	1357	Sticky shale	226	2429
Gumbo	28	1385	Hard shale	61	2490
Hard sand	20	1405	Sticky shale	713	3203
Gumbo	36	1441	TOTAL DEPTH		5402
Shale	49	1490			<u></u>
Sandy shale	35	1525	Well 276a		
Soft shale	40	1565	A. H. Wray, D. D. Fowler	lease, $2\frac{1}{4}$	miles
Gumbo	8	1573	south of Gause.	-	
Hard shale	48	1621	Surface	18	18
Gumbo and gypsum	87	1708	Water sand	10	28
Hard shale	20	1728	Clay	38	66
Gumbo	45	1773	Sand and thin rock shells	38	104
Hard shale	15	1788	Clay	24	128
Gumbo	56	1844	Coal	4	132
Black shale	94	1938	Clay	6	138
Gumbo	12	1950	Sand	62	200
Soft black s hale	80	2030	Clay	9	209
Shale and chalk	25	2055	Send	26	235
Chalk	88	2143	Sendstone	1	236
Hard shale	125	2268	Yellow clay	21	257
Shale and lime	95	2363	Sand	2	259
Packed sand	21	2384	Yellow clay	5	264
Hard shale	64	2448	Sand and boulders	16	280
Gumbo	12	2460	Green sandy shale	15	295
Hard shale	158	2618	Black, gritty shale	4	299
TOTAL DEPTH		3830	Sandstone	4	303
Manage			Green sandy shale	2	305
Well 253	3		Sandstone	2	307
Red Bank Oil Co. J. A.	Foster le	ease.	Sticky shale	3	310
81 miles north of Gause	e .	,	Green sand	10	320
Sandy shale	105	105	Sand	81	401
Sand and water gravel	45	150	Dark sand	99	500
Sand	60	210	Sand and pyrite	2	502
Sand end lignite	197	407	Sandy shale	32	534
Sand	147	554	Sandstone	2	536
Sticky shale	25	579	Sandy shale	24	560
Hard sand	20	599	Sandstone and pyrite	5	565
Sand and lignite	194	793	Sticky shale	85	650
Sand and s andy shale	50	843	Hard sand	33	683
Sand and shale	168	1011	Sticky sandy shale	33	716
Sand and pyrite	5	1016	Sandstone	2	718
Sand and shale	42	1058	Sticky shale	34	752
Hard sand	73	1131	Sandstone	1	753
Sand and pyrite	3	1134	Sticky shale	21	774
Hard rock	3	1137	Tough sandy shale	32	806
Sand	20	1157	Sharp sand	23	829
Hard rock	2	1159	Gummy sandy shale	77	906
Sandy shale	65	1224	Sandy shale	39	945
Sand and sticky shale	27	1251	Soft sandy shale	5	950
Herd sandy lime	4	1255	Hard sand	7	957
Sandy shale	27	1282	Sticky shale	5	962
Hard lime	3	1285	Sandstone	2	964
Sendy shale	105	1390	Sticky sendy shale	13	97 <b>7</b>
Hard sand	2	1392	Sandstone	22	999
Shale	515	1907	Sticky, sandy shale	27	1026
Sticky shale	274	2181	Sandstone	4	1030
Green sandy shale	22	2203	(Continued on nex	t page)	

-35-Table of Drillers' Logs, Milam County--Continued

	Thickness	Depth		Thickness	Depth
	(feet)	(feet)		(feet)	(feet)
Well 276aCo	ntinued		Well 276	saContinued	
Black, gritty shale	24	1054 -	Sticky shale	1	2382
Hard sandy shale	36	1090	Shale and boulders	28	2410
Yellow clay	12	1102	Shale and gumbo	40	, 2450
Hard sandy shale	38	1140	Shale, boulders, and	l gumbo 315	2765
Sandstone	3	1143 ,	Shale and gumbo	63	2828
Sticky sandy shale	11	1154	Green sand	6	2834
Hard sand and pyrites	95	1249	Sticky shale and gum	1 <b>bo 6</b> 6	2900
Sand with shale breaks	31 ,	1280	Limestone	1	2901
Limestone	2	1282	Sticky shale and gum	105 105	3006
Hard sharp sand	8	1290	TOTAL DEPTH		3006
Coarse sand	73	1363	1		
Sand with hard shells		? ;	Well	324	
Sand	157	1520	M. Ashley, owner, 4	miles northeas	st of
Sand with hard streaks	of	٤	Milano.		
lignite lenses	82	1602	Sand	30	, 30
Lignite with shale brea	ks 148	1750	Shale	20	50
Gray shale	5	1755	Send	50	100
Lignite	5	1760	Shale	100	, 200
Stidky shale	6	1766 [°]	Sand	50	250
Sandstone	4	1770	Shal e	63	313
Sand and laminated gray	shale 45	1815	Sand	4	317
Hard limestone	5	1820	Shale	18	335
Gumbo	25	1845	Lignite	7	342
Sendstone	2	1847	Glay and gumbo	3	345
Sand with shale breaks	18	1865	Sandstone	10	355
Sandstone	2	1867	Shale	35	390
Sandv shale	8	1875	Lignite	3	393
Sandstone	1	1876	Shale	14	407
Sand and shale	54	1930	Sand	3	410
Sandstone	2	1932	Shele	18	428
Grav sandy shale	38	1970	Lignite	2	430
Sandstone	1	1971	Shela	ະ ົ	435
Sand and shale	29	2000	Sand	49	484
Brown sandstone	ĩ	2001	Clay or sumbo	2	486
Sandy shale	19	2020	Send	2	188
Limestone	3	2023	Shalo	ん 97	515
Sandy shale and houlder	s 67	2020	Li mi te	21	517
Sandstone	1	2090	Light te	7	520
Saft send	a	2100	Chalo	10	520
Very hard send	1	2101	Clay or symbo	20	500
Chown pursition and sumbo		2101	Limite	59	570
Sond pyrrces and guino		2140			510
Sanu	70 ,	2100	Snale	20	595
Guildo and shale	20	2180	Sand	13	608
Jandstone	I ;	2181	Snele	37	635
nard sand	5	2186	Sand	63	698
Sticky snale	48	2234	Shale	7	705
Limestone	4	2238	Sand	295	1000
Snale	29	2267	Shale	80	1080
Limestone	6	2273	Gumbo	70	1150
Gumbo	9	2282	Shale	30	1180
Sandy shale	18	2300	Sandy shale	20	1200
Sandstone	_3	2303	Gumbo	30	1230
Sticky shale	57	2360	Sand	20	1250
Sticky shale and boulde	rs 20	2380	Gumbo	50	1300
Limestone	1 '	2381 .	Lime	40	1340
	,	1	Gumbo	130	1470

(Continued on next page)

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Table	of	Drillers'	Logs,	Milam	CountyContinued

······································	Thickness	Depth		Thickness	Depth
	(feet)	(feet)	,	(feet)	(feet)
		,	1		
Well 324Con	tinued	1	Well 357C	ontinued	
Sand	40	1510 ,	Sand rock	49	720
Gumbo	60	1570	, Lime	2	722
Lime	60	1630	Gumbo	13	735
Sand	20	1650	Sand rock	10	745
Gumbo	70	1720	Gumbo	35	780
Lime	50	1770	Rock	2	782
Sand	30	1800	Sand	18	800
Gumbo	50	1850	Rock	3	803
Sand	100	1950	Shale and boulders	47	850
Gumbo	75	2025	Sand rock	2	852
Lime chalk (Austin)	400	2425	Gumbo	8	860
Sendy shale, gumbo, and			Sand rock	18	878
boulders	345	2770	Gumbo	277	1155
Sandstone	30	2805	Gumbo and shale	45	1200
TOTAL DEPTH		4111	Rock	4	1204
			Packed sand	328	1532
Well 357			TOTAL DEPTH		1532
Joel B. Terrell et al.,	J. B. New	ton	1		
lease, $1\frac{1}{4}$ miles south of	f Milano.		Well 358 pa	rtial log	
fellow clay	12	12	Elliott and Tuttle, P.	W. Buer far	m,
Sand rock	4	16	12 miles south of Mila	no.	
Yellow sand	69	85	Sand	280	280
Water sand	10	95	Shale	35	315
Gray sand	73	168 ,	Sand	165	480
Lignite	4	172	Shale	3 3 5	815
Gray sand	20	192	Lignite	15	830
Sand rock	3	195	Sticky shale	80	910
Grey sand	20	215	Sandy shale	60	970
Rock	2	217	Sand	130	1100
Packed sand	20	237	Sticky shale	50	1150
Hard rock	4	241	Sand	55	1205
Send	19	260	Reported total depth	ļ	1500
Rock	2	262			
Sand	28	290	Well 4	16	
Rock	1	291	V. F. Horton farm, $1\frac{1}{4}$ :	miles north	of
Gumbo	19	310	Rockdale.	1	
Sand	20	330	Surface	17	17
Rock	4	334	Sand	43	60
Gumbo	16	350	Gravel and sand	10	70
Sand	30	380	Sand	24	94
Gumbo	20	400	Rock	1	95
Rock	2	402	Sand	1	96
Sand	18	420	Rock	19	115
Gumbo	11	431	Water sand	5	120
Rock	2	433	Rock	20	140
Sand	47	480	Sand	1	141
Gumbo	10	490	Shale	259	400
Rock	1	491	TOTAL DEPTH		400
Sand	60	551	This log reported from	near by oil	. well
Gumbo	11	562	which, according to dr	iller, had s	imilar
Sand	18	580	formation.		
Sand rock	15	595			
Gumbo	35	630			
Fyrites of iron	3	633			
Gumbo	38	671			

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Table of	Drillers'	Logs,	Milam	CountyContinued

	Thickness	Depth	, ' Thi	ckness	Depth
	(feet)	(feet)		feet)	(feet)
				<u></u>	
Well 421			Well 429Conti	nued	1
E. H. Noack, Fritz Baue	r lease, 5	miles	Shale	120	987
north of Rockdale.			Rock	1	988
Surface	17	17	Shale	10	998
Sand	63	80	Rock	1	999
Blue water sand	10	90	Loose shale	421	1420
Gravel	8	98	Gummy shale	362	1782
Rock	1	99	Shale	278	2060
Sandy shale	31	1.30	Hard chale	12	2072
Shale	232	362	Looso shale	178	2250
Derk shelo	170	500	Uond shale	110	2255
Light abole	100	500	naro snale	050	2200 0517
Crean stard	109	609	Shale	258	2513
Green sand	10	619	Taylor marl	102	2615
Light shale	19	638	Austin chalk	104	2719
Rock	1	639	Crystallized lime	26	2745
Light shale	19	6.58	Austin chalk	95	2840
Rock	1	659	Eagle Ford shale	120	2960
Light shale	69	728	Limerock	12	2972
Oil sand	1	729	Brokenshale and shells	23	2995
Shale	2	731	Shale and broken chalk	50	3045
Rock	1	732	Chalk	94	3139
Oil sand and shale	8	744	Shelp with leminated lime	38	3177
		,	Hond limostene	60	3216
See page 39 for log of	r well 423	•	Broken abole	27	2007 2007
Wall 427 - no m	+107 300		broken snale	37	3203
Meri 401-bar	CIAL TOR		Broken lime	33	3310
E. A. Doss farm, 4 miles	s west of	1	Lime	24	3340
Rockdale			White lime	72	3412
Yellow clay	20	20	Hard lime	51	3463
White dry sand	260	280	Dobie	10	3473
Shell, rock, and flinty	shale		Edwards lime (hard)	3	3476
with streaks of ligni	te 20	300	Edwards lime (broken)	17	3493
Flinty shell rock	450	750	Edwards lime	47	3540
Dry white sand	460	1210	Edwards lime is poroud with	th some	gas.
Hard black shale	2	1212	Halliburton test shows sul	lphur wa	ter
Lignite	12	1224	and salt.	-p	
White water sand	4	1228			
Lignite	7	1235	Wall 4500		
White mater and	10	1245	Glass Oil Co. Hollingon Fr	toto 1	7
Tianito	10	1050	Glass off Co, northlan Es	state, I	· <b>L</b>
	140	1202	miles east of inornale.	0	0
MALLE WATEr S and	448	1700		6	6
TOTAL DEPTH		1700	Rock	2	8
		-	Clay	12	20
Well 429		_	Sand	15	35
Groneman Brothers, Frit	z Dornhoef	fer	Coal	5	40
farm, 3 miles west of R	ookdale.		Shale	10	50
Surface clay	21	21	Sand	25	75
Rock	1	22	Coal	15	90
Sandy shale	26	48	Light shale	10	100
Rock	1	49	Sand	25	125
Sandy shale	39	88	Light shale	25	150
Rock	2	90	Sand and shale	25	175
Sandy shale	40	130	Coal	50	225
Sand	2	120	Shale and wook	25	250
Sandr cholo	د 990	700	Cond	たり り =	5 UU 9 7 E
Darly SHALE	660	200		40	4 / D 700
Chala	100	201	Cond and FOCK	20	200
Currender comp	499	000	Continue (Continue)	20	320
TTERN SHAA	7 1	857	i CONTINUED ON NEV ⁺	114074	

# -38-Table of Drillers' Logs, Milam County--Continued

	Thickness	Depth		Thickness	Depth
	(feet)	(feet)	1	(feet)	(feet)
	1			0	
Light shele	ontanued 70	750	Reals Well 450a-	-Continued	21 30
Sand and rock	30	300	Gondy shale	5 7	2137
Shale and houlders	30	410	TOTAT DEDTH	ŕ	2137
Dark shale	40	450			5201
Light shele	25	400		4510	
Sand	25	£10 500	Magnalia Patrolaum Co	M M Kim	
Dark she la	20	570	Magnoria recroredin co	of Thorndal	
Coal and dark shale	20	550	Lease, of miles east	, OI MOIMAL 70	70
Light shale	25	000 575	Close	70 6	1 76
Gumbo	ະບ ຮ	580	We ton cond	42	118
Dark shale	20	600	Mater sand	±2 82	200
Gumbo and rock	20	620	Timpito	۵۵ ۸	: 204
Green and black shale	20	640	TTRUTCE	101	305
Gimbo	20	640		101	315
Grev shale	20	675	Clay Shell-	15	330
Gumbo and derk shalo	25	700	Snare	20	350
Brown shale and coal	20	700	Shale	20	370
Light shale and Goal	20	750	Unale Hord	20	300
Deals chole and sumpe	20 25	700	naro sano	20	422
Light shale and gumbo	20	110	Shale lime	<i>ರಿ</i>	1 466
Ligne shale	15	790	Hard Lime	2	464
Gray shale	20	810	Broken lime	10	404
Gumbo and shale	20	830	Shale	8 7	446
Gas, sand, and shale	10	840	Lime shell	1	440
Light shale	20	860	Shale	9	. 452
Gumbo and boulders	15	875	Lime shell	2	454
Gray shale	25	900	Sand	18	472
HOCK	4	904	Sandy shale	101	573
Gumbo	16	920	Lime shell	7	580
Jark shale	15	935	Shale and shells	40	620
Gumbo	15	950	Clay	10	630
ROCK	5	955	Hard shale	80	710
Light shale	25	980	Sticky shale	115	825
Rock	5	985	Lime shell	2	827
Dark shale	65	1050	Shale	83	910
Sandy shale	50	1100	' Sand	12	922
Dark shale	50	1150	Gumbo	22	944
Rotten shale	100	1250	, Shale and shells	106	1050
Light shale	75	1825	Gumbo	20	1070
Dark shale	125	1450	Shale and shells	80	1150
Rock	12	1462	Gumbo	20	1170
Brown shale	38	1500	Clay end shells	30	1200
Gumbo	50	1550	Gumbo	20	12 20
Rotten shale	150	1700	Shale	10	1230
Gumbo	60	1760	Gumbo	40	1270
Green sand	10	1770	Shale	20	1290
Gas sand	5	1735	Gumbo	25	1315
Light shale	75	1850	Lime and shell	3	1318
Dark shele	75	1925	, Gumbo	32	1350
Gumbo	25	1950	Shale and shells	90	1440
Rock	5	1955	Gumbo	20	1460
Dark shalee	25	1980	Shale	43	1503
Green sand	10 .	1990	Hard sand	2	1505
Rotten shale	60 (	2050	Lime and shell	4	1509
Rock	6	2056	Shale	31	1540
Rotten shale	44 j	2100	Gumbo	55	1595
Gumbo	25 ¹	2125	(Continued	on next page	)

## -39-Table of Drillers' Logs, Milem County--Continued

	hickness	Depth		Thickness	Depth
••••••••••••••••••••••••••••••••••••••	(feet)	(feet)		(feet)	(feet)
	tinued			1+inuad	
Shale Nerr Hora001	10	1605	Shele	159	200
Gumbo	10	1650	Sendy chelo	15	215
Sticky shale	100	1750	Cas showing	10	210
Gumbo and lime	100	1805	Shelo	250	465
Shale	55	1860	Book	200	466
Gumbo	25	1885	Sendr chele	14	480
Shale	10	1895	Shalo	360	840
Gumbo		2005	Peace me	80	010
Shale	15	2020	Sendr shele	40	960
Clevend shele	52	2072	Shelo	140	1100
Gumbo	28	2100	Candy chalo	140	1100
Shelo	100	2200	Sandy Share	260	1400
Gumbo	100	2240	Condra chole	200	1435
Sholo	120	2270	Choll-	55 475	1970
lime and choll	130	2370	Dudo lima	400	10/6
Shale	65	2010		70	2020
Soft shalk	70	2440	Del Rio	201	2020
Broken challe	30	2470	bebrgetown 11me	201	5551 5770
Challer shale	115	2015	Doby Edwards line	3	66 30 22 71
Shale	120	2019	Edwards lime	<b>1</b>	2291
Shelo and limo	130	2720	PIDWING SUIPHUR WALER	3	9921
Austin obelle	100	22000			6601
TOTAL DEPTH	±/0	2000		٠	
			Grazy Grystal Co Holms	<u>'</u> an and Pfly	1000
Well 423			lease 1 miles northeas	st of Thorr	dale.
E. H. Noach, Mr. Joe Bau	er førm.	5 miles	Soil	4	4
north of Rockdale.		•	Joint clay	38	42
Surface	17	17	Soft shele	278	320
Sand	43 :	60	Hard shale	110	430
Gravel and sand	10	70	Sticky shale	182	612
Sand	24	94	Herd shale	122	734
Book	1	95	Lime rock	100	735
Send	20	115	Hard shale	245	980
Bock	5	120	Pecan gan (lime)	55	1035
Sand	20	140	Touch gumbo	5	1040
Bock	1	141	Hoper Teylor marl	325	1365
Send	59	200	Lower Taylor marl	41	1406
Dark shale	200	400	Austin chalk	478	1884
light shale	205	605	Eagle Ford shale	16	1900
Green send	10	615	Budo lime	73	1973
light chale	54	669	Del Pio cler	1 V	2016
Poak	1	670	Goorgotown limo	167	2183
light shale	10	710	Debo	20	2212
cholo	10	721	Edwards oor	20	001A
Broken oil cond and the		101 720	Edwards cap Fdwards lime and culmbu	-	661 <del>4</del>
Poob		720	neton		2100
Chala	ו ב   פר	700	ישמטטיי ישראיד דראיים אייריי	204	2400 2100
	16	751			6430
	i 	101			
Well 471		Í			
Walter Michalk W. T. J	hnson le	ase			

Walter Michalk, W. T. Johnson ]	Lease,	
$4\frac{1}{4}$ miles north of Thorndale.	ł	
Surface soil 20	20	
Yellow clay 20	40	
Rock 1	41	
		}
	1	1

## Logs of test wells drilled by W. P. A. labor in Milam County, Texas Samples examined and classified by W. I. Clark, Jr., Project Superintendent

Thickness	Depth	Thickness	Depth
(feet)	(feet)	(feet)	(feet)
Well 2		Well 34	~
Side of draw, county road 1 mile	east of	Gentle slope, side of county road,	2
Sendy Ridge School, 82 miles north	neastof	miles southeast of Davilla.	
Davilla.		Sandy loam 1	1
Black gumbo 2	, 2	Red clay 3	4
Yellow gray laminated clay 8	10	Chalk with clay 7	11
Blue sandy shale 1	11	White clay with chalk 3	14
Yellow sandy shale 2	13	No water sample collected. Apr. 4,	1936
Blue shale with small crystals		Well 39	
of gypsum 10	23	Gentle slope, side of county road,	4章
No water sample collected, Apr. 2'	7,1936	miles southeast of Davilla.	
		Black gumbo 5	5
Well 5		Light vellow chalky clay 3	8
Gentle slope, Alvin Dusek track.	7 miles	Yellow clay with small	
northeast of Davilla.		quartz gravel 1	9
Black gumbo with small quartz		Fine gravelly sand with clay 2	11
ravel 2	2	Water level 6.2 feet below top of	
Chalky sendy cley 18	20	mater level, of root berow cop of	eð.
Fine grow sand with small	20	Weter comple collected Mer 31 1	936
Ouenta menol	1 01	Water sample corrected, Mar, or, r	
Yallam and a law	61		
Terrow sandy cray 3	24	Well 41	l
water at 21 reet.		Gentle slope, side of county road,	4
water level, 20.5 feet below top	01' i	mile east of county line, 52 miles	
ground, I hour after hole complete	ed.	south of Davilla.	<u>^</u>
Water sample collected. Apr. 27,	1936.	Black gumbo 2	2
		Tan chalky clay 6	8
<u>Well 15</u>	-	Tan sandy clay 4	12
Gentle slope, Paul Vitmar tract,	l‡ miles	Wet sandy clay 1	13
northeast of Davilla.		Tan sand and water 1	14
Sendy loam 3	3	Conglomerate rock	14
Chalk 3	6	; Water level, 12.5 feet below top o	f
Fine yellow sand 1	7	ground. 2 hours after hole complet	ed.
Fine white sandy gravel with		Water sample collected. Mar. 31, 1	956.
quartz and small fossils 5	12		
Yellow sandy gravel 2	14	Well 47	
Rock	14	Valley floor. side of county road	14
No water semple collected. Mar. 23	8. 1936	mile north of Alligator Creek. 5	miles
		southeast of Davilla.	
Well 19		Black gumbo 7	7
Gentle slope side of county road	2	Yellow gray clay with small	•
miles east of Daville	, ~	grevel 2	9
Rlack gumbo 7	7	Yellow clay with lance flint	
White shallor alar 5	0	real-	10
White charky clay . J	0	Vollow shale with supram 7	12
Challes and clay 1	9	Ne meter service approach of the last	1076
Unalky conglomerate rock	9	No water sample collected. Apr. 1,	1990.
No water sample collected. Mar. 3	0,1936.		
		Well 50	-
Well 25	. 3	Top of ridge, R. B. Bolton tract,	5
vailey floor, side of county road	<b>,</b> 4 <del>4</del>	miles southeast of Davilla.	_
miles east of Davilla.		Black gumbo 1	1
Black clay 2	2	Black gumbo with small quartz	
Yellow laminated clay with		gravel and chalk 1	2
small particles of gypsum 18	20 <u>†</u>	Light yellow chalky clay 9	11
No water sample collected. Apr. 3	,1936.	Yellow shale 12	23
		No water sample collected. Apr. 1,	1936.

					41-	
Logs	of	test	wells	in	Milam	CountyContinued

Thickness Depth	Thickne	ess Depth
(feet) (feet)	(fee	t) (feet)
Well 55	Well 68Continued	
Rolling plain, side of county road, $5\frac{1}{2}$	Gray chalky clay	1   5
miles southeast of Davilla.	Yellow and white mottled clay	5 10
Black clay 2 2	Yellow and gray mottled clay 1	5 25
Chalky whitish streaked clay 7 9	Yellow clay with particles	
Nense white chalky clay 6 15	of gypsum	3 28
No water sample collected. Mar. 13,1936.	Yellow and gray mottled clay	4 32 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Wall 57	Blue shale	
Rolling upland side of county read 6	No water semple collected Mar	1 1 40 17 1036
miles east of Davilla.	No water sample collected, Mar	• 11 1300 •
Gravelly black loam 2 2	Well 70	
Gravelly red clay with quartz	Top of knoll, $\frac{1}{2}$ mile east of S	harpe <b>o</b> n
gravel 6 8	Hargrove tract, 8 miles east o:	f Davilla.
Red clay with small gravel 2 10	Chocolate colored loam with	i
No water sample collected. Mar. 14,1936.	small quartz gravel	2 2
	Yellow clay with small quartz	
	gravel	1 3
Top of knoll, A. W. Von Rosenburg tract,	Fine chalky gravel	
Grouel with apoll probate	Chalk .	
dry send	Fine chark and graver	
Yellowish gray mottled clay 50 60	No water sample collected Mar	
No water sample collected. Mar. 13, 1936.	No water Bampre corrected, mar	<u>• 10, 1000</u>
	Well 74	
Well 66	Top of low ridge, across road	from
Gentle slope, 300 feet west of Sharpe	Sharpe Cemetery, 82 miles east	of
School on J. R. Middleton tract, $7\frac{1}{2}$	'Davilla.	1
miles east of Davilla.	Black gumbo	2 2
Black loam 2 2	Yellow clay with fossils,	
Cley with small quartz gravel3 5	sand and small gravel	4 6
White chalky clay 2 7	White chalky clay	
Gravish vellow laminated alow	Chalky yellow clan and sand-	
with gyneum grystale 30 38	Yollow and may mattled alay	1 9 7 16
No water sample collected. Apr. 13, 1936	Water level 5.5 feet below to	n of
	ground, 12 hours after hole con	noleted.
Well 67	Tater sample collected. Mar. 20	6. 1936.
Gentle slope, Arthur Von Rosenburg tract		
$7\frac{1}{2}$ miles east of Davilla.	Well 75	
Gravelly clay with small quartz	Valley floor, 100 feet south of	f inter-
pebbles 5 5	section of Norman Valley and T	racey
Fine red sand 1 6	roads, 9 miles east of Davilla.	•
Gravel with elevered reter 2	Black gumbo	4 4
Graver with tray and water 2 9	Mottled yellow clay with	0 22
Water level 514 feet below top of	No water sample collected Mar	26 1036
ground. 4 hours after hole completed.	No water sample collected. Mar	. 20, 1900.
Water sample collected. Apr. 15, 1936.	Well 84	
	Gentle slope, side of county re	bad. 1
Nell 68	mile west of Tracy and $\frac{1}{4}$ mile	south on
Top of hill, 900 feet south of Sharpe	Duncan School road, $10\frac{1}{2}$ miles	east of
Church on Elmer Byrd tract, 72 miles	Davilla.	1
east of Davilla.	Black gumbo	2 2
Gravelly loam 1 1	Gray sand 2:	2 24
Yellow clay with small	White sand and clay	2 26
quartz gravel 3 4	Yellow mottled clay	28
	No water sample collected. Mar	· ZV, 1936.

Logs of test	t wells in	Milam CountyContinued	
Thickness (feet)	5 Depth (feet)	Thickness (feet)	Depth (feet)
Well 101	(1000)	Well 114	
Flat. 100 feet east of Cattail h	oridge. 7	Gentle slope. Cole Ross tract, 41/4	miles
miles south of Cameron.		southwest of Cameron.	1
Sandy loam 3	3	Black gumbo with small	
Light sand 4	7	gravel 4	4
Sandy clay 3	10	Yellow gumbo and gravel 1	5
Fine grained, greenish sand 5	15	Chalk and clay 2	7
Caving	15	Yellow clay with chalk	
Water level. 10.6 feet below to	p of	nodules 10	17
ground. 2 hours after hole comp	leted.	No water sample collected. Mar. 1	<u>6, 1936.</u>
Water sample collected. Apr. 1	1, 1936.		
		Well 144	
Well 108		Flat, John R. Lott tract, 9 miles	north-
Gentle slope, between Tracy roa	d and S.	west of Cameron.	
P. R. R., $1\frac{1}{2}$ miles southwest of		Black gumbo 3	3
Cameron.	1	Chalky white clay 6	9
Sandy loam 2	2	Laminated yellow and gray	
Red sendy clay 4	6	clay 16	1 25
Sandy clay with large flints 2	8	No water sample collected. June 1	3, 1936.
Laminated gray, yellow clay 34	42		
Dense blue shale 14	56	Well 145	
No water sample collected. May	27, 1936.	Gentle ridge slope, Perry Wilkers	ion tract
		6 miles north of Cameron.	ł
Well 109	_	Black gumbo with large flints	
Gentle slope, Phillip Reid trac	t, $1\frac{3}{4}$	small quartz gravel 6	6
miles southwest of Cameron.		Laminated gray and yellow	
Sendy losm with small quartz	i.	shale 22	28
and flint pebbles 2	2	No water sample collected. May 2.	1, 1936.
Red clay with small quartz			
and flint rocks 4	6	Well 147	<b>F</b>
Yellow gravelly clay 2	8	Gentle slope, Rush Thomas tract,	5 miles
Gravel rock	5 8 눈	north of Cameron.	I
Water level, 7.3 feet below top	oof	Black gumbo with flint	
ground, 2 hours after hole comp	leted.	pebbles 4	4
Water sample collected. May 19,	1936.	Yellow chalky shale 2	0
		Yellow and blue laminated	0.1
rell 110	13	shale 15	12
Top of hill, Ernest Howard trac	ot, 2 <u>°</u>	Hard yellow sendstone	4 3070
miles southwest of Cameron.		No water sample collected. May 1	4, 1930.
Sandy clay with small quartz		דים ביי זוגר	
gravel chalk and flint rockl	5 15	Well 100	. <b>1</b> 2
Gray and yellow laminated		Side of knoll, Don Slocomb tract	<b>,</b> U
shale	7 22	miles north of Cameron.	l
No water sample collected. July	y 28,1936.	Sandy loam with small	2
		quartz gravei 3	5
Well 111	-l ··	Gray Limey Clay	R R
Gentle slope, John House tract	, 3중 miles	White ilme	2 8
southwest of Cameron.		Gray limey shale	
Red clay with small quartz	5	Tan and gray laminated	20
Red clay with small gravel		snale with gypsun crystals 21	
and large flints 1	6	Gray clay with gypsum	22
Sandy yellow clay with	0	orystals and green sand 4	22
smali gravel 2	8	Too hard to penetrate	16 1936
Danay gravel 5 6 foot below to	n of prouv	nd No water sample collected. June	TO TO01
12 hours after hole completed.	L .T Prom		
Water sample collected. July	29, 1936.		

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*0	
Logs of test wells in Milam CountyContinued	

والمستر والبرواني المراجع المراجع المراكبة ومستباط المحاصر الراقي فيستمر المراجع والمحاصر					
	Thickness (feet)	Depth	Th	ickness	Depth
	(1880)	(166.0)		(feet)	(leet)
Well 163			Well 167Conti	nued	
Flat, Andrew Esslinger	tract, 1-3	3/4	Rusty colored sand with sm	all	1
miles northeast of Came	ron,		pieces of iron rock	2	76
Sandy clay with small of	luartz		Blue sandy clay	8	84
gravel and flint rock	: 7	7	Coarse rusty colored sand	10	94
Sandy gravel	2	9	Rusty colored sand with		
Rock		9	sand rock	10	104
Water level, 7.4 feet b	elow top o	of i	No water sample collected.	May 6	1936.
ground, 2 hours after h	ole comple	eted.			
Water sample collected.	June 5,	1936.	Well 168		
			Top of small knoll, F. E.	Jackson.	5
Well 166			miles southeast of Cameron	• '	
Gentle slope, side of C	ounty road	1, 4-3/4	Coarse white sand	3	3
miles southeast of Came	ron.		Sandy red schist	9	12
Surface sand	2	2	Coarse tan sand	18	30
Red and yellow clay	2	4	Fine white sand with mica		
Sandy clay	5	9	flakes	37	67
Sendy shale	11	20	Tan sand	21	88
Sand	2	22	White send with mice flake	e 10	90
Sandy shale	8	30	Fine gray oujeksend	3 10	08
Blue gumbo	2	32	No weter comple collected	Mor 14	1036
Yellow sand	5	37	no water sample collected.	May 14,	1990.
White sand	ž	39	Wall 1780		
Yellow sand	3	42	Gentle glopp' Chag MaDorm	·++ 17	10
White sand	12	54	miles east of Cameron	JUU, 4⊷0,	/ +
Yellow sand	4	58	Sendy loom	9	<b>0</b>
Sandy shale with small	-		Bed condu alow	د د	ی ۸
iron concretions	2	60	Vellow conductor	L C	4 10
Blue clay with small fl	akes		Grey pand and condy shale	15	10
of lignite	12	72	Sendy shale with anall cond	1 10	20
Rusty colored sand	16	88	stone		07
White sand	10	· 00 .		2	27
Water level 97.5 feet	helow ton	of 50	Gray sands tone	T	28
ground, 10 hours after	hole compl	otod	No motone		28
Water sample collected	Ann 23	1076	NO water sample collected.	June 6	, 1936.
the sharped defice ded.	API . 20,	1900.	Wall 1701		
Well 167			Top of midde Chos MaDauma		T
Top of ridge. Elmer McF	arland tra	at i	A 3/4 miles post of Company	tt trac	τ,
5 miles southeast of Ca	meron		Top cond	·•	-
Surface sand	ne i On • 2		Sonda and alar		Ţ
Red clay	2		Sandy red clay	3	4
Tan send	2	4 6	an sand	20	24
White sand	5	5	Send and sandy shale	4	28
Tan sandy clay	5		Soft white sandstone	7	35
Grav clay	0		Sandy shale and sand	4	39
Brown coonso sond	0	201	No water sample collected.	June 19	, 1936.
Gnar alor	۵ ۲	25			
Puster poloned torde ale	7	32	Well 205		
Connactor cond	y 1	33	Valley, side of County road	, 1/4 mi	ile
Grev condre alar	18	51	east of Little River Church	, 7 mile	9 <b>6</b>
Conneo white and	3	54	southwest of Baileyville.		
Durte will te sand	6	60	Black loam	2	2
mus by corored sand with	small		Sandy yellow clay	4	6
preces of sand rock	4	64	Sandy blue shale	3	9
Lan, line grained sand	7	71	Sandy yellow shale	1	10
rine grained blue clay	3	74	Chocolate colored and yello	w	
			clay	글	10늘
			(Continued on most	no no l	~

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Logs of test wells in Milam County--Continued

Well 205ContinuedWell $513$ Rock $10\frac{1}{2}$ Flat, Fred Brannan tract, $3/4$ mile canorNo water sample collected. May 20, 1936.of MilanoWell 209Sand end yellow clay7Gentle slope, Lee O'neal tract, $11-1/2$ Red sandy clay and soft purplemiles west of Baileyville.sandstone lumps1Black cumbo44Yellow clay and gumbo26Chalkv yellow sandy clay410Laminated yellow clay1020Well 251424Gentle slope, side of county road, $9\frac{1}{2}$ SandWell 251Surface gravel with small flintWell 314Pebl's22Surface gravel with small flintWell 314pebl's22Yellow sendy clay35Laminated streaks of brown3	h t)
Notif 20-continued $10\frac{1}{2}$ $10\frac{1}{2}$ $10\frac{1}{2}$ Rock $10\frac{1}{2}$ $10\frac{1}{2}$ Flat, Fred Brannan tract, $3/4$ mile canofNo water sample collected. May 20, 1936. $10\frac{1}{2}$ $7$ Well 209 $8and and yellow clay 77Gentle slope, Lee O'neal tract, 11-1/2Red sandy clay and soft purplemiles west of Baileyville.8and and yellow sendstone 321Black rumbo44Yellow clay and gumbo26Chalkv yellow sendy clay 410Sandy clay and thin streaks ofLaminated yellow clay1020Well 2518and and green send 230Well 2518and and green send 230Well 2518and and green send 230Wiell 2518and and green send 230Wiell 2518and and green send 230Wiell 2518and and green send 230Wiell 2518and and green send 230Wiell 2518and and green send 230Surface gravel with small flintpebbl's2222Yellow sendy clay35Laminated streaks of brown33$	
Now ater sample collected. May 20, 1936.If and of MilanoNo water sample collected. May 20, 1936.of MilanoWell 209Red sandy clay10Gentle slope, Lee O'neal tract, 11-1/2Red sandy clay and soft purplemiles west of Baileyvills.sandstone lumps1Black cumbo44Yellow clay and gumbo26Chalkv yellow sandy clay410Laminated yellow clay1020Yellcw cley with gypsum20orystals4No water sample collected, June 11, 1936.sandWell 251Gentle slope, side of county road, $9\frac{1}{2}$ Well 251Yellow sendy claySurface gravel with small flintWell 314pebbl's2Yellow sendy clay3Surface gravel with small flintWell 314pebbl's2Yellow sendy clay3Laminated streaks of brown5	et.
No waterSample collected. May 20, 1930.Soft MillinWell 209Sand end yellow clay7Gentle slope, Lee O'neal tract, 11-1/2Red sandy clay and soft purplemiles west of Baileyville.Red sandy clay and soft purpleBlack cumbo44Yellow clay end gumbo26Chalkv yellow sandy clay410Laminated yellow clay1020Yellcw cley with gypsum26orystals424No water sample ccllected, June 11, 1936.SandWell 251Sand6Centle slope, side of county road, $9\frac{1}{2}$ Sentlo slope, J. T. Robinson tract, 1Surface gravel with small flintWell 314pebbl's22Yellow sendy clay3Yellow sendy clay3Surface streaks of brown3	( D <b>G</b>
Well 209Red sandy clay1017Gentle slope, Lee O'neal tract, 11-1/2Red sandy clay and soft purplesandstone lumps118Black gumbo44Soft yellow sendstone321Yellow clay and gumbo26Hard red sandstone122Chalkv yellow sandy clay410Sandy clay and thin streaks of2Laminated yellow clay1020white wet send628Yellcw cley with gypsum1020white wet send628Clay and green send230303030No water sample collected, June 11, 1936.sand636Well 251ground, 36 hours after hole completed'ister sample collected, Aug. 22, 1936Miles north of Gause.22Gentle slope, ide of county road, 9½'ister sample collected, Aug. 22, 1936Surface gravel with small flint22Gentle slope, J. T. Robinson tract, 1pebbl's22Gentle slope, J. T. Robinson tract, 1Yellow sendy clay35mile south of Mileno.Laminated streaks of brown7Tan send33	
Gentle slope, Lee O'neal tract, 11-1/2Red sandy clay and soft purplemiles west of Baileyville.Black gumbo4Black gumbo4Yellow clay and gumbo2Chalkv yellow sandy clay1Red sandy clay and soft purplesandstone lumps1Black gumbo2Chalkv yellow sandy clay1Soft yellow sandstone3Chalkv yellow sandy clay1Sandy clay and gumbo2Chalkv yellow sandy clay1Black gumbo2Chalkv yellow sandy clay1Sandy clay and gumbo2Chalkv yellow sandy clay1020white wet sand2Clay and green sand2Sandy clay and green sand2Well 251Surface gravel with small flintWell 314pebbl's2Surface gravel with small flintWell 314Pobl's2Yellow sendy clay3Surface gravel with small flintYellow sendy clay<	
Note of heat tract, 11-1/2miles west of Baileyville.sandstop thy the bar purpleBlack cumbo44Soft yellow sendstone3Yellow clay and gumbo26Chalkv yellow sandy clay410Laminated yellow clay1020Yellcw cley with gypsum26orystals424No water sample cellected, June 11, 1936.36Well 2515Centle slope, side of county road, $9\frac{1}{2}$ 4Surface gravel with small flintWell 314pebbl s2Yellow sendy clay3Yellow sendy clay5Mile source of brown3	
Black cumbo 4 4 Soft yellow sendstone 3 21 Yellow clay and gumbo 2 6 Chalkv yellow sandy clay 4 10 Laminated yellow clay 10 20 Yellcw clay with gypsum 6 orystals 4 24 No water sample cellected, June 11, 1936. Well 251 Centle slope, side of county road, $9\frac{1}{2}$ Mull 251 Centle slope, side of county road, $9\frac{1}{2}$ Surface gravel with small flint 9 Yellow sendy clay 3 5 Laminated streaks of brown 4 2 Yellow sendy clay 3 5 Laminated streaks of brown 4 2 Soft yellow sendstone 3 21 Soft ce gravel with small flint 9 Yellow sendy clay 3 5 Laminated streaks of brown 5 3 Surface gravel with small flint 314 Soft yellow sendstone 3 21 Surface gravel with small flint 314 Soft yellow sendstone 3 21 Surface gravel with small flint 314 Soft yellow sends flint 314 Soft yellow sendstone 3 21 Surface 3 2 2 Surface 3 3 Surface	
Match value444500 vertex sends tone551Yellow clay and gumbo26Hard red sandstone122Chalkv yellow sandy clay410Sandy clay and thin streaks of122Laminated yellow clay1020white wet send628Yellew cley with gypsum20White wet send628crystals424Hard rock, cley and green30No water sample cellected, June 11, 1936.sand636Well 251Sandy 36 hours after hole completedCentle slope, side of county road, $9\frac{1}{2}$ "ster sample cellected, Fug. 22, 1936miles north of Gause.22Surface gravel with small flintWell 314pebbl's22Yellow sendy clay35Laminated streaks of brown5Tan send	
Chalkv yellow sandy clay410Sandy clay and thin streaks ofLaminated yellow clay1020white wet sand628Yellcw cley with gypsum crystals220white wet sand628No water sample collected, June 11, 1936.424Hard rock, cley ond green30No water sample collected, June 11, 1936.55636Well 25163691536Centle slope, side of county road, $9\frac{1}{2}$ 7836Miles north of Gause.2265Surface gravel with small flint pebbl's222Yellow sendy clay3511Laminated streaks of brown333	
Laminated yellow clay 10 20 white wet send 6 28 Yellow clay with gypsum crystals 4 24 Hard rock, clay and green send 2 30 Hard rock, clay and green send 2 30 Hard rock, clay and green send 2 30 Mater level, 26.5 fact below top of ground, 36 hours after hole completed Well 251 Centle slope, side of county road, $9\frac{1}{2}$ [ster sample collected, Aug. 22, 1936] miles north of Gause. Surface gravel with small flint pebbl s 2 2 2 Yellow sendy clay 3 5 mile south of Mileno. Laminated streaks of brown 5 3 3	
Yellow clay with gypsum crystalsYellow clay with gypsum 4Yellow clay and green sendYellow sender claeseWell 251 Centle slope, side of county road, $9\frac{1}{2}$ miles north of Gause.Well 314 Mell 314 Surface gravel with small flint pebbl sWell 314 Mell south of Mileno. Tan sendWell 314 Mell south of Mileno. Tan sendYellow sender classe	
Iterfield error with gypsum230crystals424No water sample collected, June 11, 1936.Hard rock, clay and green sandNo water sample collected, June 11, 1936.sand6Well 251Sand6Centle slope, side of county road, 9½reter sample collected, Fug. 22, 1936miles north of Gause.Surface gravel with small flintWell 314pebbl s22Gentle slope, clay35Laminated streaks of brown33	
No water sample collected, June 11, 1936.       sand       6       36         Well 251       Water level, 26.5 fact below top of ground, 36 hours after hole completed 'ster sample collected, Fug. 22, 1936         Miles north of Cause.       Well 314         Surface gravel with small flint pebbl's       2       2         Yellow sendy clay       3       5       mile south of Mileno.         Laminated streaks of brown       3       3       3	
Well 251Water level, 26.5 fect below top of ground, 36 hours after hole completed 'Eter sample cellected, Aug. 22, 1936Centle slope, side of county road, 9½'Eter sample cellected, Aug. 22, 1936 'Eter sample cellected, Aug. 22, 1936 'Eter sample cellected, Jug. 22, 1936 'Eter sample cellected, Jug. 22, 1936 'Eter sample cellected, Jug. 22, 1936 'Eter sample cellected, Jug. 23, 1936 'Eter sample cellected, Surface ground, 36 hours after hole completed 'Eter sample cellected, Eter sample cellected, Surface ground, 36 hours after hole completed 'Eter sample cellected, Surface ground, 36 hours after hole completed	
Well 251ground, 36 hours after hole completedGentle slope, side of county road, 9½"ster sample collected, Aug. 22, 1936miles north of Gause.Surface gravel with small flintWell 314pebbl's22Gentle slope, J. T. Robinson tract, 1Yellow sendy clay35Laminated streaks of brownTan send3	
Well 201Gentle slope, side of county road, 9½miles north of Gause.Surface gravel with small flintpebbl's22Yellow sendy clay35Laminated streaks of brown	3
Meltic stope, side of county road, 95Refer sample collected, Fug. 22, 1950miles north of Cause.Surface gravel with small flintWell 314pebbl's22Gentle slope, J. T. Robinson tract, 1Yellow sendy clay35Laminated streaks of brownTan send3	1. ~
Milles North of Hause.         Surface gravel with small flint       Well 314         pebbl's       2         Yellow sendy clay       3         Laminated streaks of brown       5         mile south of Mileno.       3         Jan Send       3	) <b>*</b>
Surface gravel with small flintWell 514pebbl's22Gentle slope, J. T. Robinson tract, 1Yellow sendy clay3Laminated streaks of brown5mile south of Mileno.33	
peoples222Gentle stope, J. 1. Robinson tract, IYellow sendy clay35mile south of Mileno.Laminated streaks of brown5Tan send3	1.
Laminated streaks of brown Tan send 3 3	./4
Laminated streaks of brown 1 1 Ian send 3 3	
Clay and gray sand 5 8 Rusty red sand with thin	
White and tan send with streaks clay streaks 5 8	
of rusty colored clay 7 15 Fing white send 3 11	
Find white sand 3 18 Soft violet and tan sand-	
Tan sand $4$ 22 stone 2 13	
Fine white sand 10 32 Unocolate sand 1 14	
No water sample collected, Mar. 4, 1936. Soft, rust colored send-	
stone 19 33	
Well 300 Damp, gray sand 1 34	
Gentle slope, roadside, 1 mile south- Rust colored sand 3 37	
east of Summit School, 3-1/4 miles Rock 37	
southeast of Mileno. No water sample collected. July 3, 19	135
Loamy surface sand 4 4	
Gray and red sandy clay 3 7 Well 315	
Fine yellow sand 6 13 Side of ridge, T. McCollum tract, nor	-th-
Dense gray clay $\overline{z}$ : 13 $\overline{z}$    west edge of fillano.	
Water level, 10.5 feet below top of Sendy red clay 3 3	
ground, 2 hours after hole completed. Stone with thin gray	
Mater semple collected, May 5, 1936. streaks 15 18	
Soft, rusty colored sand-	
Well 312 stone 4 22	
Gentle slope, Louis Holderness tract, 11 Fine thite packed send 7 29	
mile east of Milano. Soft, yellow sandstone 8 37	
Yellow clay 3 3 Rcd sandstone 6 43	
White gritty clay 15 18 Pink packed sand 10 53	
Sharp white sand422Pink sand2477	
Brown sandy clay 4 26 Rusty colored leese sand 13 90	
Sharp white sand 13 39 No water sample cellected. Aug. 5, 10	36,
Yellow sendy clay 2 41	
Black send 15 56 Well 316	
Hard sand rock 1 57 Top of ridge, V. W. Brooks tract, wes	t
No weter sample collected, Aug. 5, 1936. edge of Milano.	
Red sendy clay 4 4	

				-45-	
Logs	oftest	wells	in	Milam	CountyContinued

Thickness	Depth	Thickness	Depth
(feet)	(feet)	(feet)	(feet)
Cherr and with alors	, זינ	Weil 501	enet
Sondu anou olou	10	33 wiles north of Mileno	. acc ₉
Block limitic cley 2	10	$\frac{34}{4}$ miles north of milano,	7
Lignite 4	22	Sendy chocolate colored clay]	8
Clay sand with mice flakes		Gray send with rusty colored	Ŭ
and clay 5	27	streaks 10	18
Grav micaceous sand and water]	28	Fine tan sand 12	30
Water level. 21.5 feet below top	of	Rusty colored sand 2	32
ground. 10 hours after hole comple	eted.	Lignite	33
No water sample collected. /ug. 2	6. 1936.	Chocolate colored clay 1	34
		Rusty colored sand	35
Well 317		Ren send 1	36
Gentle slope, 1000 feet south of s	chocl	Fine gray send and weter 5	41
in Milano.		Water lovel, 39 feet below top	of
Sandy clay 7	7	ground, 1 hour after hole comple	sted.
Hard iron rock 1	8	Water semple collected. July 30	, 1936.
Soft rust colored sendstone 32	40		
Fine ye low sand 7	47	Well 334	2
White sandy clay 1	48	Gentle slope, E. Eiseinger tract	t, 5ģ
Fine yellow send 5	53	miles northwest of Milano.	_
Fine white sand 1	54	Sandy top scil 2	2
Fine yellow send with small		Red sandy clay 3	5
lumps of chocolate clay 6	60	Rcd sand 2	1
Fine gray and yellow sand b	65	White sand with small flakes	0.4
Fine gray aand with streaks	<b>79</b>	of mica 17	24
Di gray clay	75	an send with small liakes	· 70
Fille gray sand and water 5	70	Cross shale	30
mound 12 hours after hole compl	atod	Wat group and 3	31 34
ground, 12 nours arter nore compre	e veu	Wat sandy gray shalo 4	38
Vel1 318		Ten send 24	62
Top of ridge, 1000 fect south of	school	Rust colored sand 28	90
in Eilano.		No water sample collected. June	2. 1936.
Red clay 4	4		<i>y</i>
Sendy grey shale 11	15	Woll 336	
Black lignitic sooty clay 1	16	Gontle slope, Bill Groce tract.	41
Chocolate colored clay 4	20	miles northwest of Milano.	-
Wet yellow sand (strong weter)4	24	Surface sand 3	3
Water level, 17 feet below top of	ground	Tan send 35	38
$\frac{1}{4}$ hour after hole completed.		Thite sand 27	65
Water sample collected, Aug. 13,	1976.	Fine gray quicksand and	
		water 2	67
Well 320		Water level, 64.8 fest below to	o <b>c</b> f
Hillside, S. J. Hilliard tract, $\frac{1}{4}$	mile	ground, 6 hours after hole compl	lated.
north of Milano.		Water sample collected, June 1,	1996
Sandy Leam 4	4	מוליי ברי זוד	
Sendy red clay b	10	Well 57	<b>5</b> 7
Red and white sandy clay 4	14	miles southwast of Heats 51 mil	1, 1 <u>4</u>
Tron rock		northweat of Milong	
Me water Psuble collected, Mas. 1	<u>, 1990</u> ,	Surface and	•
		Rod sandy clay 5	د 7
		Gray mice come sand 23	30
		Wet gray send 1	31
	1	Blue clay	32
		White micacoous sand 30	52
		No weter comple collected two	4 1076

-46-Logs of test well in Milam County--Continued

Logs of test well in Mil	an CountyContinued
Thickness Denth	Thickness Depth
(feet) (feet)	(feet) (feet)
	i y an an an an an an an an an an an an an
Well 742	S Wcll 434-Continued
Gentle slope, side of county road, 2 mile	s Surface send 3 3
northwest of lit. Zion Church, 52 miles	Gray sandy shale 11 14
west of Milano.	Lignitic clay 1 15
Surface sand 2 2	Chocolate clay 5 20
Yellow streaked sandy clay 3 5	Dusty lignite ashes 5 25
Rusty colored send 2 7	Lignitc 1 26
Iron send rock 7	Wot lignific clay and water 1 27
No sample collected, April 30, 1936.	Water level, 25.5 fact below top of
	ground, 1 hour after hole completed.
Well 349	Leter sample collected. May 12, 1936.
Top of ridge, V. W. Brooks tract, I mile	15 J. 160
West of Milano.	Well 450
Keo sancy clay 4 4	Gentic stope, 1150 leet west of south-
Ground and a source streaksing in the source of the streak streak in the streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak streak	least corner of parston tract, 10 miles
Grev sendy shale with	Play and cand 12 19
concretions 25 56	Water sand 6 18
Thin layers of send slate	Sind and shale $42$ 60
and shale 14 70	Water send 21 81
No water sample collected, fur. 27 1936	Lignite 1 82
	- Shale $-$ 8 90
Well 414	Lignito 6 96
Gentle slope, 15 miles north of Talbot	$\frac{1}{2}$ 96 $\frac{1}{2}$
Ridgo and 2 miles southeast of "t. Zion.	Lignite $8\frac{1}{2}$ 105
4 mil s north of Rockdale.	Shale 105
Coarse white sand 8 8	No water sample collected. June 9, 1936.
Fine quicksand 2 10	
Water level, 2 feet below top of ground,	Well 454
$\frac{1}{4}$ hour efter hole completed.	Gontle slope, 1 mile southwest of
Water sample collected. Apr. 30, 1936.	Pleasant Hill School, 85 miles southeest
	of Therndale.
Well 424	Send and clay 18 18
Flat terrace above river bank, river	Send 6 24
crossing north of San Gabriel 4 mile	Clay end send 4 28
cast ci mouth of Brushy Creek, bz miles	Water send 3 31
nerthwost of Kockdalc.	Clav and send 4 35
Black sendy loam 4 4	Vater sand 17 52
Find ory send 10 : 22 No motion semply pollocated Apr 15 1076	Soft lignite and alor 9 64
We water sample collected. Apr. 15, 1930,	No weter sample collected June 10 1936
Wc11 425	No water sample (offested, sund 10, 1950.
Valley floor _ mile cast of Brushy	Well 455
orock bridge at readside 5 miles north-	Gentle slope 3 miles withcast of
west of Rockdale.	Watson Branch school, 95 miles southeast
Black loam 2 2	of Thorndale.
Yellow clay 3 5	Clay and sand 30 30
Sticky black gumbo 5 10	Sand and shalo 8 38
Wet black gumbo 6 16	Water sand 9 47
No water sample collected. /pr. 16. 1956.	Lignite 4 51
and and a second second second second second second second second second second second second second second sec	Clay and sand 9 60
Wcll 434	Wator sand and shale 15 75
Roadsid , 300 foot cast o Hamilton Chapa	l Shale 7 82
34 miles southwest of Rockdale.	Lignite 10 92
	Clay and sand
	No water sample collected. June 9, 1936.

-47-												
Logs	of	test	well	in	Milam	CountyContinued						

	fhickness	Depth (fect)	
Well 456 Gentle slope, $\frac{1}{4}$ mile nand $1\frac{1}{2}$ miles southeast School, $10\frac{1}{2}$ miles south Clay and sand Sand and shale Lignite Sand and shale Fine gray water sand Shale and sand	orth of Co of Watson hoast of T 25 10 2 43 60 37	unty lino Branch horndalc. 25 35 37 80 140 177	Well 45 Lignito Shale and sand Shale Lignite No water sample co

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	Thickness (feet)	Depth (fcet)
Woll	456Continued	
Lignito	3	180
Shale and sand	24	204
Shale	15	219
Lignite	4	223
No water sample	collected, June	10, 1936.

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### Partial analyses of water from wells in Milam County, Texas.

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, C. R. Stewart, D. F. Riddell, and Alfred j. Kolly, Chemists, and J. A. Harmaza, Martin Wieland and Jack Ramsey, Assistant Chemists. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

	<u> </u>	Depth	1 1	Total		, Magne	- Sodium and	Bicar-		nananin da anima na diserci da diserci da anima de anima de anima de anima de anima de anima de anima de anima A	Total
Well	Owner	of	Date of	dissolved	Calciu	m sium	potassium	bonate	Sulf itel	Chloride	hardness
1		well	collection	solids	(Ca)	(Mg)	(Na + K)	(HCO3)	$ (SO_{1}) $	(01)	as CaCO3
		(ft.)		(calc.)		1	(calc.)	-		l.	(calc.)
3	Dallas Bank & Trust	12	Apr. 27, 1936	218	-		***	146	33	28	
4	R. L. Batte	30	do .	588	-			366	75	116	-
5	W.P.A. test well	24	do.	520	-		-	133	46	195	· _
6	R. Gersbach	17	do.	282	84	7	17	293	15	15	240
7	Logan Mewhinney	8	Mar. 30, 1936	453		-	-	403	48	35	-
8	W. H. Walker	20	do.	345	-			342	23	21	
9	W. R. Cryer	Spring	do.	185	-	-	-	195	10	7	
10	Tom Henderson	15	do .	312	-		-	305	27	15	
11	T. B. Burdetto	24	Mar. 28, 1936	974	158	34	154	244	183	385	536
12	J. C. Johnson	35	do.	283				146	11	96	-
13	G. A. Krause	23	do.	323			-	299	25	27	
14	do.	Spring	do.	343	102	7	21	305	21	42	285
16	H. L. Harris	14	do .	472	158	9	3	262	63	110	430
17	John Wilson	48	do.	938	-	-	-	317	67	405	
18	Wm. R. Rogers	31	do.	819	154	17	131	343	86	260	456
20	N.P.Ross Estate	12	Mar. 30, 1935	308			-	317	15	17	
21	E. B. Flore	20	do.	519	132	9	59	464	37	54	365
22	P. E. Holder	23	do.	368	-	-		291	31	60	
23	Sam Mewhinney	18	do.	472	188	7		354	35	68	500
24	Henry McCormick	15	Mar. 19, 1936	358	-	-	-	143	58	100	
26	Sam Mewhinney	1,500	Mar. 30, 1936	12,708	205	116	4,530	110	753	7,050	992
27	Dr.J.E.Seibert	14	Mar. 19, 1936	301	-	-	-	134	58	70	
29	John Young	23	do.	569			-	226	165	96	-
30	Chas. Stegall	12	liar. 30, 1936	666	-		-	507	43	98	-
31	Dr.T.S.Barclay	43	Mar. 26, 1936	2,155	-	-		232	63	1,200	-
32	Clarence Hines	55	do.	2,662	652	50	258	6	29	1,670	1,835
33	H. H. Hines	50	.o5	2,168	-	-		268	29	1,220	-
35	W. A. Turner	24	Apr. 4, 1936	333	72	8	45	262	35	44	215
36	R. L. Carlow	27	do.	742	_			311	35	280	-
37	J. D. Bell	Spring	do.	193	-			134	23	35	-
38	F. Jechow	Ē 23	do.	413	***		-	342	38	54	

·	<u></u>	Depth	]	Total	·	Magne-	Sodium and	Bicar-			Total
Well	Owner	of	Date of	dissolved	Calcium	sium	potassium	bonnte	Sulfate	Chlorida	hardness
		well	collection	solids	(Ca)	(Mg)	(Na + K)	$(HCO_3)$	$(SO_{1})^{1}$	(31)	as CaCOa
	an an an an an an an an an an an an an a	(ft.)		(calc.)			(calc.)		(004)		$(calc_{\bullet})$
39	W.P.A. tost well	11	Mar. 31, 1936	1,972	-		1999 - La anime - Anime no manen - Maria Ingelana Maria	256	576	605	
40	Joe Vanek	13	do.	389	-		-	220	61	78	
41	V.P.A. test wcll	14	do.	400	69	11	63	231	69	45	217
42	Jess Isaac	18	do .	409	-		-	275	61	62	
43	Barclay Estate	16	Apr. 1,1936	442	104	6	58	342	52	54	234
44	Harding Camp	30	do.	463	-	-	-	287	33	116	
45	Alton Oslik	13	do.	597	-	-	-	335	46	164	-
46	J. A. Heisch	19	do .	833	382	33	_	299	61	210	1.090
48	Geo. Camble	11	Mar. 20, 1936	1,000	122	15	210	312	376	124	366
49	Henry Von Gonten	14	do.	342		-		159	81	62	-
52	Rufe Graves	22	Mar. 31, 1936	364	106	7	23	275	27	66	245
53	Earl Straus	44	Mar. 26, 1936	350	90	9	38	373	19	8	260
56	F. S. Bolton	17	Mer. 14, 1936	158		-	-	134	4	27	
58	L. C. Applin	15	do.	277	93	5	7	268	19	21	253 L
59	J. J. Brock	10	Mar. 13, 1936	463	115	13	45	299	15	123	343
60	Paul Graves	Spring	Mar. 19, 1936	451			-	281	35	110	-
61	J. C. Hardic	18	Mpr. 13, 1936	255				250	12	21	-
64	J. V. Brown	15	Lar. 12, 1936	211		-	-	183	8	32	-
65	Dan G. Davis	14	Mar. 18, 1936	331	-	-	-	159	27	104	
67	W.P.A. test woll	16	pr. 15, 1936	2,834	476	63	472	67	280	1.510	1.449
69	Peter Mick	18	mar. 20, 1936	470				317	115	<u> </u>	
71	Frank dertenberger	40	Mar. 18, 1936	1,520	9].	44	415	214	230	635	407
72	B. J. Baskin	23	do.	347				147	19	123	-
73	Bill Davis	37	do.	1,505	-	-		214	383	500	
74	N.P.A. test well	16	Mar. 20, 1936	230	-		-	159	42	58	-
76	Emil Schrodor	14	.ar. 19, 1936	691			-	263	165	152	
77	w. G. Schwarz	34	do.	1.690	231	37	342	159	192	810	723
78	E. C. Fick	13	do.	332	_	-	_	293	54	42	_
79	W. G. Schwarz	Spring	do.	1.074	160	16	27.2	281	103	430	465
30	Chas. R. Duncan	20	do.	505				317	100	66	-
81	urs. W. F. Duncan	15	do .	1,327	197	27	264	342	131	540	02ں
82	M. M. Harris	16	Mar. 27, 1936	507			areat	232	100	112	_
33	Jim Bartlett	15		470			-	256	29	140	-
85	R. L. Tucker	30	Mer. 27, 1936	512	-	-		171	42	200	-

Partial analyses of water from wells in Milam County--Continued Results are in parts per million

Results are in parts per million												
		Depth	}	Total		Magne-	Jodium and	Bicar-			Total	
well	Owner	of	Date of	dissolved	Calcium	sium	potassium	bonate	Sulf ate	Chloride	hardness	
		well	collection	solids	(Ja)	(ifg)	(Na + K)	(HCO3)	$(S0_{1})$	(Cl)	las CaCOs	
		(ft.)		(cale.)			(calc.)		147	<b>x</b> ,	(calc.)	
86	Henry Platte	20	Mar. 26, 19	36 815	110	16	166	330	211	150	340	
87	J.C.Charles Estate	25	Lar. 27, 19	36 728	114	26	129	396	69	195	391	
88	do.	30	do.	462	-		-	311	56	82	-	
89	State of Texas	Spring	do.	589	-	-	-	427	63	96	-	
90	W. H. McCoy	30	Mer. 26, 19	36 818				293	27	345		
91	Ross Davis	33	Apr. 7, 19	36 420	9	12	132	220	119	40	73	
93	Earnest Gilliland	20	do.	313	-		-	201	54	46		
100	Michaus Estate	160	pr. 8, 19	36 932	200	30	103	115	27	515	624	
101	W.P.A. test well	15	Apr. 11, 19	36 249				159	27	52	-	
102	Mrs.Bon McClelland	32	npr. 5, 19	36 251		-		171	19	54	-	
103	J. W. Kemp	30	do.	280	-	-		281	19	15	-	
104	do.	200	do.	493	30	26	121	35	29	245	181	
105	Frank Hubert	43	Apr. 11, 19	36 818		_		510	31	130		
106	E. D. Leadwell	150	May 2, 19	36 2,509	484	120	141	268	1,010	535	1,716	
109	W.P.A. test well	9	Lay 19, 19	36 514	107	21	49	220	119	110	אַי 353	
111	do.	8	July 29, 19	36 419	-	-+		305	42	70	– ĭ	
112	Colo Ross	Spring	Lar. 16, 19	36 293	76	6	32	281	15	26	214	
113	do.	31	do .	238	60	6	25	226	19	17	174	
115	Sam Law	Spring	May 1, 19	136 400	104	6	36	231	84	32	235	
117	Chester Huffman	- Ģ	May 19, 19	36 213	64	3	18	238	<u>a</u> /	11	172	
118	H. J. Havlik	16	do.	184	-	-	-	177	ĪO	17	-	
119	Joe Harelica	Spring	Mer. 18, 19	136 320				220	15	76	-	
120	do.	25	do.	401	55	21	<b>7</b> 3	250	15	114	223	
121	Jud Davis	25	Apr. 14, 19	<b>36</b> 403	-		-	207	63	92		
122	Louis Valshak	14	do.	507		-	-	439	33	64	-	
123	n. W. Sajicek	17	June 11, 19	136 71»	104	14	139	268	163	164	<b>3</b> 19	
124	C. P. Watt	16	pr. 14, 19	36 398			-	207	38	66	-	
125	D. K. Hall	· 13	do 🖡	282	63	4	41	232	35	25	172	
126	Mrs.J.W.McClandon	12	Apr. 2, 19	36 306		-		305	23	15		
127	F.J.Richardson	10	May 19, 19	<b>36</b> 476	-			329	36	54		
128	Mrs. F. Shoaf	9	do.	213	-	-	-	232	<u></u>	15	-	
129	Chas. Pavilik	14	do.	295	45	8		153	a/	14	145	
131	щ. J. Dodd	6	June 13, 19	136 227	-			189	_ 33	16	-	
132	John Hollas	10	June 10, 10	936 412	-		-	226	127	30	-	

Partial analyses of water from wells in Milam County--Continued

e/ Sulfate less than 10 parts p r million.

		Depth		Total	Millionna ir sikilar saya ayang s	Magno-	Sodium and	Bicar-			Total	
Well	Owner	of	Date of	dissolved	Jalcium	sium	potassium	bonate	Sulfate	Chloride	hardness	q
1		well	collection	solids	(Ca)	$(\mathbf{M}\mathbf{g})$	(Na + K)	$(HCO_2)$	$(SO_{1})$	(C1)	na CaCo	_
		(ft.)		(calc.)			(cale.)	, ( <u> </u>	(204)	(0-)	$\left( c_{1} \right)^{2}$	3
133	Mondrick Estate	31	June 13, 1936	224					38	<u></u>	(Carce)	
134	Mike Sipula	31	May 21, 1936	1,246	243	52	100	373	606	151	837	
135	Marak Independent					-			000		571	
	School	19	do.	1,885	-		-	384	761	315	_	
136	Robert Fuller	21	do.	3,924				269	513	1,900	~	
137	S. D. Lagrone	26	do,	837	-	-	-	464	144	162	~	
139	Monroe Estate	17	June 11, 1936	1,173	-	-	-	354	544	72		
140	Emmit Coleman	24	do.	192	36	4	33	140	12	38	103	
141	G.K.Heugatter	17	do.	2,656	-	_	-	256	1.141	530		
142	Frank Griffin	25	do.	904				317	173	255		
143	Walter Fuchs	12	do.	539		_	-	195	146	110		
146	G. V. Baskin	20	May 13, 1936	2,475	121	41	696	427	952	455	470	
148	Dave Link	22	do.	525		-	-	390	6	1.26		
149	Phoenix Life Ins.Co.	• 18	do.	209				153	23	33	-	
150	Albert Chambers	20	do.	820	115	18	163	470	177	103	361 、	S.
151	Irs.P.L.Delahunty	1.3	do .	183	70	6	-	171	6	17	198	1
152	L. C. Boyd	12	June 5, 1936	332	73	8	46	244	15	70	215	
154	Tarver & Hensley	10	Apr. 18, 1936	1,552		-		262	563 	250		
155	Mrs. Jeff Komp	20	do.	2,207	138	33	5-90	202	1.037	230	405	
156	do.	Spring	ds.	1,797		_	***	208	768	345		
157	L. A. Hichalka	19	do.	806			-	329	169	190		
158	John Hause	13	Apr. 17, 1936	313	-		-	299	15	33		
159	R. L. Batto	14	do.	223	61	12	7	195	21	26	203	
160	Slark Kelly	21	do .	331		-	-	354	11	16		
161	R. L. Batto	20	Apr. 18, 1936	233			-	230	15	20	-	
162	F. J. Fahrendorf	17	npr. 17, 1936	348	103	6	26	334	15	24	234	
163	7.P.A. test well	9	June 5, 1936	207	-			183	8	29		
164	lirs.W.T.Hefley	Spring	Apr. 17, 1936	215				134	29	41	-	
135	John McClerron, Jr.	19	June 4, 1936	50		3	14	18	15	9	13	
166	W.P.A. test well	93	Apr. 23, 1936	2,951		-		268	273	1,500	-	
169	Clydc Hensley	23	ipr. 22. 1936	236			-	61	67	90		
170	T. S. Henderson	13	do.	66	1	2	21	31	19	8	11	
171	Bon Burric	42	do.	431				140	60	148 148		
172	liax Konnedy	44	Apr. 22. 1936	473		_		317	29	110		
173	Benz Jatocha	64	do.	152		-		92	8	42	-	

Partial analyses of water from wells in Milam County--Continued Results are in parts per million

F	Particl	analyses	of wa	ter fr	om well	s in	Hilam	County-	-Contim	ıed
		Re	agult.g	and in	n narts	nor	millic	n		

	ande and an and a state and a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	Doth				Total		Mag no-	Sodium and	Bicar-	ana ang ang ang ang ang ang ang ang ang		Total
Well	Owner	of	Dat	e cf	; (	dissolved	Calcium	sium	potassium	bonate	Sulfate	Chloride	herdness
		well	colle	ction	ŧ	solids	(Ca)	(Hg)	(Na + K)	$(HCO_3)$	(SO,)	())	as CaCO2
		(ft.)			1	(calc.)			(calc.)		4,		(calc.)
174	Neal Ethridge	17	Apr.	22, 19	136	73	7	· 4	15	31	- 15	17 -	32
175	N. Y. Hays	120	June	4,19	136	1,338	276	43	87	6 <b>1</b>	718	184	866
176	L. N. Posey	46	Ápr.	28, 19	36	305	-			220	15	65	
177	do.	3,890		do.		349	8	6	130	329	10	33	44
178	John McDormott	52	Junc	4,19	136	1,077		-		214	460	160	
179	do.	Spring	June	19, 19	36	340		-+	-	207	69	46	-
181	J. P. vise	35	лаy	4,19	136	212	64	9	5	183	19	25	195
192	J. H. HeDonald	28	June	5,19	935	627	-	-	-	445	48	124	-
193	Jim Sherfield	24		do.		185	26	3	42	146	27	15	77
184	H. H. Hartsfield	23		do.		210	<del>.</del>			201	15	15	
185	A. G. Fipps	44		do.		303	69	9	34	177	17	87	211
186	Mrs. Bill Lindsey	57		do.		419	-	-		153	29	162	
200	J. C. Freeman	95		do.		637	113	33	89	79	8	335	421
202	Ilrs, T. F. Stidham	60	÷су	20, 19	36	179	10	6	55	122	<u>a</u> /	48	49 8
203	Sam Rose	30		do.		661			-	139	15	310	
204	C. G. Crook	50		do.		1,020	-			128	<u>a</u> /	585	
206	Jones Prairic Schoo	<b>1</b> 61		do.		1,209		-	-	580	132	350	<b></b>
207	Louis Anderson	37		do.		622	33	25	188	549	12	94	185
208	Mrs. J. Mondrick	73		do.		1,780	86	50	515	433	286	630	421
210	Tom Lehnman	30	June	13, 19	136	1,103	8	19	395	458	186	275	
212	C. J. Battle	13		do.		186	43	8	20	177	<u>e</u> /	28	140
213	Lllison Estate	Spring		do.		21.5		-	-	171	13	37	-
215	Bob Ford	29		do.		996	-	-544	-	317	345	158	-
217	Mrs.J.P.Voodall	45		do.		1,969	-		-	256	348	810	
213	John H. Villiams	70		do.	_	343	64	14	47	195	30	92	219
222	rs. H. 11. Sneed	115	may	20, 19	936	131	16	7	28	1.34	<u>a</u> /	14	69
223	Al Uniteside	100		do.		313	58	15	39	140	20	112	209
250	Boy Scouts	Spring	June	17, 19	936	163	25	4	35	134	.8	25	77
252	Lonzo Willis	24	June	5,19	736	953	-	-		415	63	335	-
254	nddic Lee Walton	30	May	4, 19	<del>)</del> 36	1,455	-			110	37	840	-
255	County road	Spring		do.		637		-	**	354	84	146	-
256	Gibson Gin Company	400		do.		504	-	-		330	77	80	
257	H. Johnson Hairs	33	June	17, 19	936	157	39	7	12	110	15	30	124
258	W. C. Henderson	600		do.		304		-	127	299	<u>_</u>	28	8

a/ Sulfate less than 10 parts per million.

		Depth .	ann an an an an an an an an an an an an	Total ;	dennenger gelannenge di kantansi e	Magne-	- Sodium and	Bicar-			Total
Well	Owner	of	Date of	dissolved C	alcium	sium	potassium	bonate	Sulfate	Chloridc	hardness
		well	collection	solids	(Ca) -	(_!!g)	(Na + K)	$(HCO_3)$	(SO ₁ )	(Cl)	'as CaCO3
1		(ft.)		(calc.)			(cale.)				(cilc.)
259	D. F. Poel	580	June 17, 1936	418	2	3	172	408	<u>a</u> /	40	17
260	Fred Smith	350	May 4, 1936	256	11	5	89	255	8	17	48
251	Mrs. V. C. Looney	350	do.	231	16	6	72	244	3	9	64
252	M. R. Looney	350	do .	323	12	6	115	311	10	27	54
263	Niley Smith	350	лид. 12, 1936	297	8	6	110	305	<u>a</u> /	23	43
264	Cecil Lange	26	Apr. 29, 1936	1,399	201	85	148	195	599	270	352
265	Pin Oak School	42	do.	6,662	733	445	885	195	2,433	2,060	367
266	Black & Henderson	66	do .	353	-		-	215	46	72	
267	L. F. Robinson	33	d <b>o</b> •	1,446	212	115	98	262	687	205	1,006
268	Dimming Investment	Co. 73	do.	693		-	-	146	44	330	
269	A. C. Roschetzky	97	do.	743	100	65	83	384	133	168	515
270	Mrs. Lillie Beaver	Spring	June 4, 1936	31	-		-	12	8	6	
271	dc.	Spring	do.	53	3	2	13	12	15	14	17
272	Mrs.B.C.Vanovor	26	do.	140	23	3	21	85	19	27	32
273	Nodis Blakeley	26	June 19, 1936	65	10	3	12	61	<u>r</u> /	10	37 🕁
274	State Highway Dept.	18	Juno 4, 1936	72	-	-		31	8	23	I
275	J. Eiland	17	June 19, 1936	244	-		-	256	<u>a</u> /	22	-
276	Terry Moore	16	Liay 6, 1936	62	-		-	31	12	13	-
277	B. B. Raines	16	Aug. 11, 1936	32	-		-	37	27	9	
278	Chas. Jonus	- 33	Lay 5, 1936	193	-	-	-	61	17	76	-
279	Conway Moore	17	iley 18, 1,36	324		-	-	275	4	60	-
280	Pat Thomas	14	lay 6, 1936	220		-	-	85	54	47	-
281	John Thompson	18	May 18, 1936	491			-	43	252	63	
232	Rudolph Bowling	30	Lley 6, 1936	977	88	58	126	-	543	160	460
283	F. B. Burks	37	do.	824	-			6	104	430	-
284	Mrs.S.F.Garrison	47	Ley 13, 1936	2,195	290	103	277	165	1,139	305	1,149
285	Bud Smith	900	do.	392	3	2	154	311	43	37	16
286	Critchfield Estate	331	do.	371	-		-	93	95	100	-
237	J. K. Freeman	19	do.	310	<b>7</b> 6	15	21	244	26	52	254
288	Dilbeck Jil Co.	Spring	May 6, 1936	70	-	4	22	49	13	7	15
239	John Frame	44	do.	199		-	~	85	27	58	
290		Spring	do.	237	-			73	61	58	
291	Mrs.Lizzic Tidwell	45	do.	39	3	4	24	6	25	30	22

### Partial analyses of water from wells in Milam County--Continued Results are in parts per million

J Sulfate less than 10 parts par million.

- <del>892-9</del>	n animalativen temperatur antika mentikasikasi kanalatisek sekerikatan dapat kanalatikan dapat kanalatika dapat	Depth		te un ante a la contra a contra a completa pola attendariata	Total		Magne-	Sodium and	Bicar-		rudiana ana mang manga ana a	Total	
Well	Owner	of	Da	ate of	dissolved	l _i Calciu	msium	potassium	bonate	Sulfate	Chloride	hardnes	S
		well	coll	Lection	solids	(Ca)	(Mg)	(Na + K)	$(HCO_3)$	$(SO_{1})$	((1))	as CaCO	2
<u> </u>		(ft.)			(calc.)	) :		(calc.)		(14)	(01)	(calc.)	2
300	Bob Luce	25	May	5, 1936	366				268	50	48	. ^,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
301	W. H. Dreer	53		do.	167	-	-	-	12	63	43		
302	do.	Spring		do.	151			-	24	13	72	_	
303	V. P. Wooley	25		do.	128	25	4	20	92	8	26	77	
304	Amos Lagrone	53	Aug.	17, 1936	414		-	-	-	a/	265	***	
305	Ed Bullard	41	May	5,1936	397	***		-	18	$\overline{2}7$	220	-	
306	W.P.A. test well	13		do.	841	-	-	-	-	461	120		
307	Ray Woods	Spring	Aug.	17, 1936	180	-		-	61	58	31		
303	Bell Morgan	35	June	19, 1936	137	-		-	134	4	14	-	
309	Jerry Brokins	12		do.	495	24	19	112	6	267	70	137	
310	State Highway Dept.	49	May	5, 1936	233	32	9	43	49	21	104	115	
311	M. E. Ashley	56	June	4,1936	354	-	-		31	67	150	-	
313	W.P.A. test well	36	Aug.	22,1936	149				61	17	48		
316	do.	28	Aug.	26, 1936	5,491	276	415	613		3,252	545	2,393	J.
317	Tāo.	75	Aug.	20,1936	2,148	150	115	421	18	805	650	851	f
318	do.	24	Aug.	13, 1936	4,806	-		-	-	2,035	1,230		
321	Claude White	21	Apr.	29, 1936	<b>7</b> 09	69	38	145	177	60	31.0	328	
322	Mrs. J. B. Holland	16		do .	72			-	55	10	8		
323	J. T. Timmons	21		do.	383	-	-	-	232	31	62		
325	A. J. Hilderbrant	69	Apr.	23, 1936	124	-		-	110	10	13		
326	Liberty School	26	Apr.	24, 1936	345	-		-	293	10	50		
327	Joe Kirk	69	Apr.	29,1936	538	74	18	102	110	40	250	261	
328	Miss Julie Kirk	45	Apr.	24, 1936	4,551	329	288	765	6	2,166	1,000	2,008	
329	W. A. Reese	66		do.	497			-	116	81	184		
330	L. M. Jestbrook	28	Apr.	23, 1936	337	11	2	125	256	15	58	37	
331	W.P.A. test well	41	July	30,1936	3,992	591	173	635	85	261	2,290	2,137	
332	T. A. Casey	48	Apr.	23, 1936	855	-	-		73	98	420		
333	Clyde Hensley	104		do.	510	-	-	-	134	23	235		
335	F. Heitmann	127		do.	233	34	15	56	134	23	94	144	
336	W.P.A. test well	67	June	1, 1936	<b>3</b> 61	112	34	131	207	398	94	42]	
338	A. C. Varner	31	Apr.	23, 1936	166	-	-		13	14	84		
339	Mrs. J. W. Gore	63	Apr.	11, 1936	339	33	11	105	207	17	120	127	
340	I.W.Moseley Estate	23	Apr.	30, 1936	96	-	-		55	17	17		
341	Mrs. Le Cone	42	-	do.	412	, 	-	-	268	67	62	-	

Partial analyses of sater from wells in Milam County --Continued Results are in parts par million.

a/ Sulfate less than 10 parts per million.

		Depth		Total	ala manggagan di sebahanan di disebut di sebahan da	Magne-	Sodium and	Bicar-	······································		Total
well	Owner	of 'D	ate of	dissolved	Calcium	sium	potassium	bonate	Sulfate	Chloride	hardness
	2 4 5	well col	lection	solids (	(Ca)	(Mg)	(Na + K)	(HCO 3)	$(SO_L)$	(JL)	as CaCO2
	ł	(ft.)		(calc.)			(calc.)		-+/	. ,	(calc.0
343	Estelle Beings		a ayan ayan yangan yangan aka in kata ayan ayan ayan ayan ayan ayan ayan a					and and a second second second second second second second second second second second second second second se	1		
	Nelson	28 Apr.	30,1936	525	27	9	171	329	40	<b>11</b> ó	103
344	J. D. Nelson	45	do.	1,569	246	66	233	122	129	830	886
345	M. J. Cavil	51	do.	683	-	-		73	250	172	-
346	Sallie Miller	83	do.	655	-		<del></del>	1ó5	204	148	-
347	Willie Nelson, Sr.	14 May	7, 1936	865				628	73	158	-
348	Abe Smoot	18	do.	148	9	4	44	98	23	20	37
350	Jim Letherland	66	do .	1,315				373	323	345	-
351	J. F. Coffield	41 May	14, 1936	848	-	-	-	67	96	420	
352	Jim Netherland	35	do.	691	120	31	81	79	140	250	429
353	Jim Jones	59	do.	669		-	~	146	122	240	-
354	Hairstone Estate	77 May	11, 1936	824	113	50	113	92	33	415	501
355	do.	Spring	do.	50	6	1	11	24	8	12	21
356	G. W. Butts	118	do.	75	6	1	20	12	10	32	21
359	Buer Heirs	Spring	do.	43	-	-	-	15	8	11	- 57
361	Dave Collins	6	do.	95	-	-	-	49	19	18	- ĭ
362	B. Stuart	12 Hay	14, 1936	437		-		134	127	94	-
363	T.S.Henderson	Spring	do.	41	-	~	-	12	13	8	-
364	Rebecca Graham	• 60 May	15, 1936	728	25	8	220	79	286	150	95
365	Hugh Vaughn	1,114	do.	19	-			220	273	350	****
366	Mrs.R.A.Carnagie	24	do.	688	-	-	-	-	<u>a</u> /	440	
357	R. W. Wilson	47	do.	30		-	<u> </u>	43	11	19	-
363	Mrs.J.C.Williams	66	do.	423	46	13	83	55	101	148	163
400	Guy Cook	130 May	14, 1936	383	124	51	104	256	391	92	522
401	Ira Touchstone	8	do.	1,212	44	47	378	793	53	295	304
402	Calhoun Chaddock	62 June	ə 1,1936	2,153	-	-	-	348		635	
403	Allie Marsh	17	do .	177	-	-		207	<u>a</u> /	7	-
404	Fannie Ferguson	Spring	do.	187	~			43	37	04	<del>~~</del>
405	J. F. Rosa	28	do .	107	13	8	13	73	7	25	65
405	E. H. Noack	222	do.	603	62	19	123	159	225	95	232
407	Mrs. Lee Stevens	100	do.	773	66	33	171	360	223	96	300
408	E. H. Foster	76	do.	1,359	269	51	105	140	455	400	923
409	Dan Bound	31	do.	120	-	-	-	140	e/	3	-
410	City of Rockdale	75 Apr	. 13, 1936	276	38	14	45	49	19	135	153
		_	-								

Partial analyses of water from wells in Milam County--Continued Results are in parts par million.

a/ Sulfate less than 10 parts per million.

		Depth			Total		Magne_	Sodium and	Bicar-	1 1	}	Total
Well;	Own 'r	of	Date	of	dissolved	Calcium	sium	potassium	bonate	Sulfate	Chloride	hardness
ł		well	collect	ion	solids	(Ca)	(Mg)	(Na + K)	$(HCO_3)$	$(SO_L)$	(Cl)	as CaCO ₃
		(ft.)			(calc.)			(calc.)		1	,	(cale.)
411	I. & G. N. R.R.	71	Apr. 11,	1936	371	-	-		104	39	148	
412	Ben Torrez	39	Apr. 30,	1936	139	-	-		128	10	13	
413	A. I. Caywood	46	do.		291	38	6	66	104	15	115	119
414	.v.P.A. test well	10	do.		33	8	1	2	12	8	8	26
415	Jess Kovill	81	Apr. 16,	1936	151	52	9	-	73	10	44	165
410	w. F. Horton	400	Apr. 6,	1936	110	10		32	24	8	48	25
417	Louis Kirchenwitz	60	Apr. 10,	1936	521				244	200	88	
418	Anchor Oil Co.	180	Apr. 11,	1936	939	73	21	<b>22</b> 2	220	419	96	268
419	Rush Phillips	49	do.		4,494	821	270	287	134	1,690	1,360	3,162
420	William Luefge	160	Apr. 8,	1936	1,073	28	21	371	360	8	405	156
422	Mrs. Joe Bauer	42	Apr. ó,	1936	1,102				189	50	560	**
426	F. J. kirchenwitz	53	Apr. 16,	1930	1,201				256	230	330	
428	Paul Henager	40	June 2,	1936	247	38	12	41	177	34	35	142
430	Emil Dornhoeffer	55	do.		593	-	-	<del></del>	439	98	60	- 1
431	Pete Coffield	108	do.		531	<b>7</b> 9	16	116	110	46	270	265 8
432	L. E. Talbot	<b>8</b> 0	do.		293	-			153	23	90	Ĭ
433	Tom Neeley Estate	8	May 12,	1936	55		-		13	12	15	
434	W.P.A. test well	27	່ ດ່ວ		6,593	-			12	2,204	2,210	-
435	W. E. Gaither	37	do .		2,138	287	106	263	396	1,121	166	1,156
436	H. H. Pruitt	24	. do		806	20	20	263	281	77	285	132
437	Tom Carver	10	Mar. 12,	1936	69	-	-	-	43	14	9	-
438	E. T. Roberts	85	May 12,	1936	131	12	6	29	43	19	44	54
451	McAllister Coal Co.	190	o h		187	34	9	24	85	14	64	121
452	A. A. Rolan	110	June 3,	1936	553	86	30	73	43	3	330	338
453	H. Pruitt	13	c.ک		59	-		-	31	12	11	-
457	Mrs. J. E. Wilson	63	June 18,	1,936	309			-	49	22	152	-
458	W. H. Gambrell	149	do.		677	80	26	135	122	86	290	<b>30</b> 6
459	W. B. 'House	63	do.		499				311	49	112	-
460	F. C. Stiles	9,	do.		659	85	26	123	141	71	285	321
461	Claude Patterson	14	June 3	1936	1,129	-			213	232	400	-
462	O. F. Towery	71	. do		1,284	205	77	169	293	40	650	833
463	F. J. Clement	45	i do.	•	1,588			•	262	230	670	
464	Ed Perry	57	do.	ı	717	-	-	-	342	123	163	
465	John Timmerman	33	June 2.	1930	4,075	-		-	110	417	2,170	-
466	Martindale Company	18	Apr. 15	1936	5 <b>3</b> 6	241	11	-	145	158	154	647

Partial analyses of water from wells in Milam County--Continued Results arc in parts per million

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		Depth		Total		Magne-	Sodium and	Bicar-			Total
Well	Owner	of	Date of	dissolved	Calcium	sium	potassium	bonate	Sulfate	Chloride	hardness
		well	collection	soli's	(Ca)	(Mg)	(Na + K)	(HJO3)	(SU,)	(31)	as CaCO3
		(ft.)		(calc.)			(calc.)		. 4		(calc.)
467	Andrew Holder	32	Apr. 1, 1936	610	79	19	136	439	38	122	277
468	J. A. Malcrease	25	Apr. 15, 1936	4,431	-		-	299	726	2,020	-
469	J. B. Clement	17	do.	6,938	703	144	1,555	275	1,901	2,500	2,349
470	H. W. Rodenbeck	33	do.	1,921	277	51	369	354	180	870	902
471	J. T. Johnson	2,231	Apr. 1, 1936	1,761	-	-	-	311	81	890	-
472	do.	20	do.	1,193	123	20	293	214	177	475	393
*474	Sam Clement	Spring	Apr. 15, 1936	373	65	11	73	360	8	44	207
475	H. K. Locklin	37	do.	299			-	189	31	64	-
475	Herman Fussel	35	do .	417				275	52	75	
477	Ernst Richter	45	də.	806	-	-		207	35	375	-
478	H. W. Rodenbeck	19	do.	308	102	13	124	366	71	144	308
479	John Melde	26	June 18, 1936	567			-	562	34	38	-
480	Crazy Crystal Co.	2,231	Aug. 3, 1936	14,336	298	79	4,730	207	6,298	3,270	1,069
481	A. L. Hines	14	June 18, 1936	331	24	22	76	293	49	16	148 5
*473	C. W. Barron	30	Apr. 1, 1936	468	186	16	-	275	100	31	530 T
		-	- /								

Partial analyses of water from wells in Milam County--Continued Results are in parts per million

