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GRIMES COUNTY, TEXAS

Records of wells, drillers' logs, water analyses, and map showing location of wells

* * *

by Samuel F. Turner

Mimeographed by
WORKS PROGRESS ADMINISTRATION
PROJECT 10443

* * *

Prepared in cooperation with the United States Department of the Interior, Geological Survey.

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Austin, Texas April 10, 1939

GRIMES CCUNTY, TEXAS

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Introduction

by

Samuel F. Turner

Associate Hydraulic Engineer
United States Department of the Interior
Geological Survey

This pamphlet contains records of a few typical wells in Grimes County, Texas, with tables of well logs, well water analyses, and a map which shows the wells described, each well having a number on the map corresponding to the number assigned to it in the well tables.

The records were obtained in the course of an investigation which was undertaken as part of a statewide study of the underground water resources of Texas. The investigation was made by the State Board of Water Engineers, in cooperation with the U. S. Department of the Interior, Geological Survey. The field work was carried out by Samuel F. Turner of the Geological Survey. The analyses were made in the laboratory of the Geological Survey at Washington by Margaret D. Foster. The field tests were made in Houston by Samuel F. Turner.

The well records serve as a guide to land owners and well drillers who may need information regarding wells and pumping plants, the depth to ground water in different parts of the county and the quantity and quality of water yielded by wells.

These records were typed, assembled, and mimeographed by employees of Works Progress Administration Project 10443, which is sponsored by the Texas Board of Water Engineers in cooperation with the Geological Survey.

Records of wells in Grimes County, Texas

(All wells are drilled unless otherwise noted in "Remarks" column.)

		_(;	Principal water-be	caring beds are	sand	or gra	avel.)		
					1			Principa	al water-
No.		Distance from	Owner	Driller	Data	Death	Diam-	bearin	ng bed
		Na v asota			com-	o f	eter	Depth	Thick-
					יוני	well	of	to top	ness
					ted	(ft.)	woll	of bod	(ft.)
							(in.)	(ft.)	
e/	1	At Navasota	Missouri Pacific	McMasters &	1926	334		254	37
			Ry.	Pomeroy	•			301	12
	2	43 miles	Gulf Coast &	Layno-Texas	1930	406	8	41	22
		southeast	Santa Fo Ry.	Co.	1			98	45
								156	17
0/	3	6 miles	R. B. Templomon	Dearing &	1931	4,559			
٠		south	well l	Noble					
o /	4	10 miles south	W. J. Lyles		1929	23			
		southeast			! !				
	5	8 miles east	State Highway						
		southeast	••••••••••••••••••••••••••••••••••••••						
e/	6	11 miles east	T. B. Stoncham			22	36		
		southeast			Ì	ł			
	7	do.	do.			15	8		
	8	13 miles east	State Highway						
		southeast							
	9	14 miles cast	J. A. Graenwood	**=	1910	20	36		
		southeast							
	10	14를 miles east	J. A. Neely			25	30		
	:	southeast	-						
e/	11	do.	P. B. Bookman	Cullen & West	1930	3,452	10		
			well 1						
	12	do.	B. T. Williams	B. T. Williams		29	6		

a/ Bench mark is point from which water-level measurement was made and was usually top of cosing, top of pump base or top of water pipe clamp.

b/ A, air; J, jack; B, bucket; G, gasoline engine; W, windmill; H, hand.

Records obtained by Penn Livingston and Samuel F. Turner (See "Table of field tests" for tests of hardness, caloride and sulphate.)

	Height of	Weta	7 10701	1	1	
T/T o	bench mark	1	سيبحب بسيونين ببدوية	D and	Use	i R _{emarks}
MO.	1	?	i	Pump and		nemarks
	,	1	measure-	1	3	
		mark		amount	water	
	(ft.) <u>a</u> /	(ft.)	- Garage	of power	<u>c</u> /	
		ļ		b/		
1.					RR	See driller's log.
2	32	22.5		A,-	RR	At Wood Station, Casing; 235 feet of 8-
		₫/	1930	1		inch. Screens set at 39 to 60, 94 to
						136 and 151 to 170 feet. See driller's
3						Oil test. See driller's log. log.
	{ !					
4				B,H	D,S	Dug well. Two miles southeast of
						Courtney.
5				None	3	One mile west of Yarborough, Spring at
						contact between sand and clay in road
6	1	8.7	Apr. 14,	В,Н	D,S	Dug well. At Stoneham. ditch.
			1931			the state of the s
7	2 1	8.1	do.	В.Н	D,S	At Stoneham,
	- 2			-,	-,-	
8				None	s	Two miles east of Stoneham. Spring at
_				2, 0220		contact between sand and clay in road
9				J,W,G,	D,S	Dug well. At Plantersville. ditch.
v				3		Date Motte in themselves
10				J,G,	D,S	Do.
				$2\frac{1}{2}$	2,0	D 04
11				22		Oil test, see driller's log. Two miles
-2- -1.						south of Plantersvilla.
12				В,Н	D,S	Two and one-half miles south of Planters-
T4				D,IL	ט,ט	
	ł		{	t i	1	ville.

RR, railroad; D, domestic; S, stock.

c/ RR, railroad; D, domestic; S, stock.
d/ Reported by driller.
e/ No field tests made on water from this well.

Records of field tests of samples from wells in Grimes County, Texas (Analyzed by Samuel F. Turner. Parts per million. For records of wells see corresponding numbers in well tables.)

Well No.		Owner	Date of collection	Depth of well (ft.)	Hardness as CaCO3	Chloride (C1)	Sulphate (SO ₄) <u>b</u> /
2		& S. F. Ry.	4	406	230	100	50
5	State	Highway	-	_	30	45	10
7	T. B.	Stoneham	Apr.14, 1931	15	110	8	15
8	State	Highway	-	-	25	20	10
9	J. A.	Greenwood	-	20	110	45	10
10	J. A.	Neely	-	25	200	230	10
12	В. Т.	Williams	_	29	110	180	10

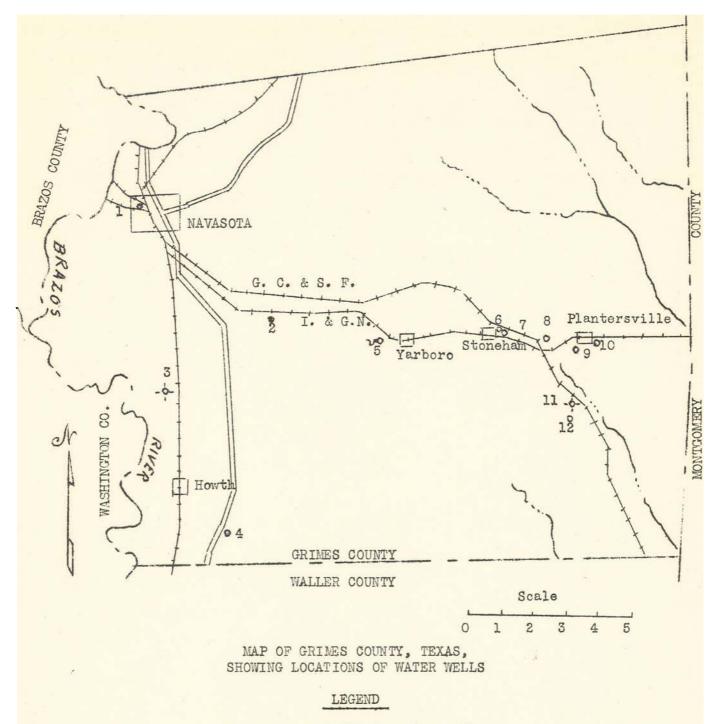
a/ Hardness as calcium carbonate by the soap method.

b/ Sulphate by turbidity method and may be as much as 25 per cent in error.

ጥከ	ickness	Depth	Thickness	Depth
± 4.2	(feet)	(feet)	(feet)	(feet)
Driller's log of w	ell l		Driller's log of well 3Conti	
Missouri Pacific Railway,			Water sand 4	517
Surface soil	Ju	In	Hard shale 14	531
Send and muck	65	75	Gumbo 7	538
Yellow clay	95	170	Sticky shale 8	546
Gurmy lime	49	219	Sand 18	564
Herd rock	1	220	Gumbo 16	580
Blue sand and shale	34	254	Sticky shale 15	595
Good water sand	37	291	Green sand 17	612
Gumbo	10	311	Sticky shale 37	649
Good water sand and gravel		31.3	Sand and grivel 18	667
Gumbo	21	374	Sticky shale 8	675
			Gumbo, lime and shale - 15	690
Driller's log of w			Sticky shale 99	789
Gulf Coast and Sarte Fe Ra			Gumbo 25	814
Soil	3	3	Sandy shale 20	834
Clay	Ju	13	Gumbo and shale 82	916
Sand	14	27	Limey shale 66	982
Clay	14	41	Brown, blue and sandy	7
wand	22	63	shale 58	1040
pendy clay	35	98	Shale and boulders - 18	1/158
osug	45	143	Sandy shale 27	1085
Clay	12	155	Sticky shale 12	1 :97
Rock	1	156	Shale 1'	1107
ರ್ಲಿnd 	17	173	Sandy shale 9	1116
Clay	5	173	Gumbo 15	1131
oand	4	182	Gray sand 13	1144
Clay	11	193	Blue shale and sticky	
Hard shale	19	212	sand 19	1163
Blue sandy shale	12	224	Gumbo 13	1176
Rock	1	225	TOTAL DEPTH	4559
Sandy shale	31	256		
Shale	44	300	Driller's log of well ll	
Gumbo	12	312	P. B. Bookman Number 1.	7.0
Shale	26	538	Clay 18	18
Hard shale	25	363	Yellow sand 61	79
Sand rock	12	375	Gumbo 4	83
Gumbo	3)	405	Yellow gumbo 37	120
			Sand and streaks of gumbo 10	130
Dril er's log of v	rell 3		Sand and gravel 18	148
R. B. Templemen Number 1.			Soft white gumbo 14	162
Clay	20	20	Sand 12	174
Sand and gravel	69	89	Gumbo 10	184
Shale	47	129	band and boulders - 113	297
Gravel	11	140	Gumbo and boulders - 72	369
shale	12	152	Sand and boulders - 29	398
Sand	9	161	Shale and boulders - 62	460
Shale	42	203	Gumbo 104	564
pend	Ju	213	Gumbo with sandy streaks- 26	590
Shele	179	382	Blue shale 28	618
Gumbo	19	411	Loose sand and boulders - 22	641)
oticky shale	66	477	Gumbo and sand 19	659
Serd and gravel	14	431	Tough gumbo 72	731
Shell rock	1	492	Blue and pink gumbo - 48	779
Hard shale and gravel -	11	5 13	Gumbo 61	841
Hard shale	Ju	515	(Continued on next page)	•

-5Table of Drillers' Logs, Grimes County--Continued

-900-y, <u>antipan- propagation distributed in the propagation of the pr</u>	Thickness	Depth	Thickness Dep
	(feet)	(feet)	(feet) (fe
Driller's log of w			Driller's log of well llContinue Gumbo and lime 61 1 1
Sand Gumbo	- 13 - 21	853 874	Gumbo and lime 61 1 1 Sand 4 1
Gumoo Sand or shale	- 21 - 5	879	Tough gumbo and lime - 67 1
Coarse sand	- 16	895	Gumbo, shale and lime - 15 1
Slick hard shale -	- 32	927	Sand 15 1
Gumbo	- 59	986	Gumbo and lime 11 1
Hard sand	- 4	99n	TOTAL DEPTH 3
Hard green sand -	- 3	993	
Tough gumbo and lime	- 10	1003	
Soft sand	- 4	1007	·
Shale and lime -	- 3	1010	



- O Ordinary drilled or dug well
 Well with pumping plant
- Well drilled to test for oil or gas Spring