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HAYS COUNTY, TEXAS

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

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by  
B. A. Barnes  
DEC 17 1938  
Dallas, Texas

Analyses made and report mimeographed by  
WORKS PROGRESS ADMINISTRATION  
Project 9864

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Prepared in cooperation with the United States Department of the Interior, Geological Survey, and the Bureau of Industrial Chemistry of The University of Texas.

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Austin, Texas  
Nov. 15, 1938



## HAYS COUNTY, TEXAS

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### Introduction

by

S. F. Turner

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United States Department of the Interior

Geological Survey

This publication contains records of typical wells and springs in Hays County, Texas, together with tables of well logs and well water analyses and a map on which all the wells listed are shown, each well being given 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 comprising a part of State-wide studies of the ground-water resources of Texas by the State Board of Water Engineers in cooperation with the Geological Survey of the United States Department of the Interior. The investigation was started in the spring of 1937 with funds appropriated by the Texas Legislature and nearly equal amounts contributed by the Federal Government.

Most of the records listed were obtained during the period from September to November, 1937, by B. A. Barnes, one of the engineers assigned to the investigation.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112, under the direction of Dr. E. P. Schoch, Director of Bureau of Industrial Chemistry of The University of Texas and E. W. Lohr, Chemist of the Quality of Water Division of the Geological Survey. This release was typed by stenographers employed on that Project.

The records serve as a guide to land owners and well drillers who need information regarding wells and springs, the depth to ground water in different parts of the county and the quantity and quality of water yielded by wells. They afford a basis for the more intensive investigation that is now being carried on, the purpose of which is to determine the distribution and extent of the available ground-water supplies and the relation of the large springs of the county to the ground-water reservoirs.

Thanks are due the owners of wells and springs in Hays County who have given their cordial cooperation and assistance. Several well drillers also have contributed freely of their information.

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

No.	Distance from Dripping Springs	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
1	9 miles north	--	---	Creek bottoms	--	Spring	--	--
2	7 miles north	Willie Puryear	Willie Puryear	Flat	1907	177	6	1.6
3	7 miles northwest	R. N. Cotten	-- Hayden	Hilltop	1928	450	6	--
4	5½ miles northwest	T. Duran	Arthur Clemens	Slope	1914	272	6	0.8
5	4¾ miles north	W. C. Harris	E. J. Milam	Hilltop	1915	280	6	0
6	5 miles northeast	B. T. Crumley	--	Slope	--	237	--	0.8
7	do.	do.	---	do.	--	21	30	3.2
8	3¾ miles northeast	G. W. Stillman	Ab. Sprouts	do.	1910	150	6	--
e/ 9	do.	Walter Gunn	--	--	--	230	6	0.1
10	2¾ miles northeast	Mrs. I. V. Davis	John Glosson	Hilltop	--	207	6	0.1
11	6 miles northeast	-- Myers	H. R. Smith	do.	1907	350	6	0.3
12	1¾ miles north	Ben Everett	--	Hillside	--	183	6	1.6
13	3 miles northeast	Andy Ray	--	Slope	1902	170	6	--
14	2 miles northeast	W. J. Vaughan	Chas. Hayden	do.	--	137	6	1.0
15	7 miles east	Carl Fritz	--	Terrace	1931	235	5-5/8	0.5
16	5½ miles east	Bob Breeding	--	Bottom of draw	--	Spring	--	--
17	do.	do.	--	Valley floor	--	Spring	--	--
19	4¾ miles east	Glynn C. Key	--	Gentle slope	--	87	6-5/8	0.7
20	do.	do.	--	do.	--	46	6-5/8	0
21	¾ mile east	John Tinney	--	Terrace	--	40	36	2.3
22	do.	do.	--	do.	--	87	5-5/8	1.1
e/ 23	½ mile east	Ike D. Roberts	John F. Spaw	Gentle slope	1897	86	8	0.5
24	1¼ miles northwest	W. A. Lyle	--	do.	1902	70	6-7/8	1.1
25	2 miles northwest	G. W. Houchin	--	do.	--	85	7	1.0

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/ B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.

Records obtained by B. A. Barnes

(Chemical analyses of water from these wells and springs are in the table of analyses.)

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
1	Flows	Nov. 5, 1937	None	S	Supplies pool about 60 feet by 85 feet. Known as "Dead Man's Hole."
2	95.7	Nov. 3, 1937	B,H	D	Galvanized casing. Weak supply. Located in NE $\frac{1}{4}$ King survey.
3	50	d/	C,W	D,S	Reported yield, 9 to 12 gallons a minute.
4	23.8	Nov. 3, 1937	C,G,3	--	Rock curb; no casing.
5	191.4	do.	C,W	D,S	No casing. Reported weak supply.
6	181.6	do.	C,W	S	Reported strong supply.
7	15.2	Nov. 15, 1937	B,H	D	Dug well. Rock curb and casing.
8	--	--	C,W	D,S	Reported strong supply from black sand.
9	84.7	Nov. 15, 1937	None	N	Galvanized casing.
10	106.7	do.	B,H	D,S	Galvanized casing. Reported weak supply.
11	197.1	Nov. 5, 1937	C,W	D,S	Reported yield, 2 $\frac{1}{2}$ gallons a minute.
12	163.2	Nov. 15, 1937	C,W	D,S	Wood curb.
13	--	--	C,W	D,S	Reported strong supply.
14	78.6	Nov. 17, 1937	B,H	D,S	Wood curb. Reported supply fluctuates with the season.
15	98	Sept. 24, 1937	B,H	D	Galvanized casing. Temperature, 70° F.
16	Flows	Sept. 4, 1937	None	D,S	Surrounded by rock wall 4 feet high. Reported supplies 80 sheep and 10 cattle. Temperature 79° F.
17	Flows	do.	None	S	Surrounded by concrete wall 2 feet high. Intermittent supply from 3 openings in limestone. Known as "Rooster Spring".
19	66.5	do.	B,H	--	2 feet of galvanized casing at top. Temperature, 78° F.
20	36.6	do.	B,H	D	Concrete curb; galvanized casing. Reported intermittent supply. Located in Franklin survey.
21	10.1	Sept. 7, 1937	None	N	Dug well. Rock curb and casing. Reported strong supply. Temperature, 75° F. Located in Smith survey.
22	64.7	do.	B,H	D	10 feet of galvanized casing at top. Temperature, 71° F.
23	10.6	Sept. 2, 1937	None	N	Wood casing. Reported strong supply.
24	42.9	Sept. 7, 1937	B,H	D,S	Reported weak supply. Temperature, 76° F.
25	46.4	do.	B,H	D	Intermittent supply. Located in W. E. Hanna survey.

c/ D, domestic; S, stock; I, irrigation; Ind. industrial; P, public; N, none.

d/ Water level reported.

e/ No water sample collected for analysis.

## Records of wells and springs in Hays County--Continued

No.	Distance from Dripping Springs	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
26	2½ miles northwest	E. C. Glimb	--	Terrace	1907	9	60	0
27	2 miles northwest	Mrs. Mamie Roberts	--	Side of draw	-- Spring	--	--	--
28	3 miles northwest	Mrs. W. L. Farrell	Felix Saunders	Slope	1922	330	7	--
29	do.	do.	G. W. Houchin	do.	1905	96	6	1.4
e/ 30	3½ miles west	E. T. Mading	Chas. Hayden	do.	1925	260	--	--
31	do.	C. J. Smith	--	do.	--	106	7	1.0
32	4¼ miles west	G. G. Koehn	--	do.	1912	16	40	2.3
e/ 33	4½ miles west	Mill Seat School	--	Ridge-top	--	14	40	2.2
34	5 miles west	W. A. Harber	--	Hilltop	--	200	6	--
35	7¼ miles west	Mrs. -- McDonald	--	Slope	--	69	6½	1.2
36	7¾ miles west	Mrs. I. W. Davis	Glass & Saunders	Terrace	1928	113	6½	1.8
37	6¾ miles west	A. S. Walker	Earl Johnson	Flat	--	350	6	--
38	1¼ miles southwest	Felix Lindsey	--	Slope	1912	64	6	2.0
39	¾ mile south	Lester Brenizer	--	Bottom of draw	-- Spring	--	--	--
40	1¾ miles south	A. A. Elsner	Tom Robbins	Slope	1909	311	6	--
41	1½ miles south	do.	F. Saunders	do.	--	149	6	0.2
42	2¼ miles southwest	Jack Duncan	--	Hill-side	1925	77	6	0
e/ 43	4¾ miles west	P. H. Prochnow	--	Slope	1894	503	5	--
44	2½ miles south	Mrs. J. S. Simpson	--	Hilltop	1910	200	6	--
e/ 45	3 miles south	A. A. Elsner	John H. Foster	--	--	2,460	--	--
46	2 miles south	do.	Will Glass	Creek bottoms	1916	115	6	0.5
47	2¼ miles southeast	Mrs. L. P. Schch	--	Slope	1912	168	6	0.5
48	3¼ miles southeast	John Cauthen	Will Glass	do.	1907	185	6	--
49	6½ miles southeast	A. M. James	Chas. Hayden	Flat	--	154	6	0.4
50	4 miles south	Wiley Roberts	Noah Black	Hill-side	1900	89	6	1.0
51	4¾ miles southwest	H. R. Harmon	H. R. Harmon	Slope	1900	241	6	0

Records obtained by B. A. Barnes

No.	Water level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
26	6.6	Sept. 7, 1937	B,H	D,S	Dug well. Rock curb and casing. Located in B. F. Hanna survey.
27	Flows	do.	None	D,S	Reported weak supply from 4 openings in limestone. Temperature, 78° F. Located in B. F. Hanna survey.
28	255	<u>d/</u>	C,W	D,S	Reported weak supply.
29	66.9	Sept. 9, 1937	B,H	D	Galvanized casing. Temperature, 70° F.
30	--	--	C,G,2	D,S	No casing. Yield, 3/4 gallon a minute. Located in B. F. Hanna survey.
31	77.6	Sept. 9, 1937	B,H	D	Temperature, 72° F.
32	12.4	do.	B,H	D	Dug well. Stone curb; concrete casing. Reported has not failed in 2 years.
33	12.3	do.	B,H	D	Dug well. Concrete curb; brick casing.
34	150	<u>d/</u>	C,W	D,S	Reported waters 225 head of stock.
35	27.9	Sept. 9 1937	B,H	D,S	2 feet galvanized casing at top. Temperature, 72° F. Located at New Henly.
36	87.4	do.	B,H	D	10 feet galvanized casing at top. Reported weak supply.
37	310	<u>d/</u>	C,W	D,S	Galvanized casing.
38	44.1	Nov. 17, 1937	B,H	--	Tile curb and casing.
39	Flows	Sept. 2, 1937	None	D,S,I	Yield, 78 gallons a minute from several openings in limestone. Known as "Walnut Spring".
40	241	<u>d/</u>	C,W	D,S	4 feet galvanized casing at top. Water in limestone at 80, 126, 240, and 304 feet.
41	128.2	Nov. 17, 1937	None	N	8 feet casing at top.
42	32.9	Nov. 2, 1937	C,G,-	D,S	21 feet galvanized casing at top. Reported 20 feet drawdown after pumping 5 gallons a minute for 1/2 hour.
43	491	<u>d/</u>	C,G, & 1 1/2	N	Galvanized casing.
44	--	--	C,W	D,S	20 feet casing at top.
45	--	--	None	N	Oil test. Located in Wm. Cockburn survey. See log.
46	58.8	Nov. 17, 1937	B,H	D,S	Reported water level higher since earth tremor of 1930.
47	125.7	do.	C,W	S	Rock curb. Reported strong supply. Located in Thos. C. Jackson survey.
48	100	<u>d/</u>	C,H	D,S	
49	140.3	Nov. 4, 1937	C,G, & 1 1/2	D,S	Well pumping when measured.
50	86	Oct. 28, 1937	C,H	D,S	25 feet galvanized casing at top. Water reported in crevice.
51	191.5	Nov. 2, 1937	C,G,7	D,S	Reported 5 feet drawdown after pumping 5 gallons a minute for 1/2 hour.

Records of wells and springs in Hays County--Continued

No.	Distance from Dripping Springs	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
52	6 miles southwest	G. C. Herring	--	--	1917	54	--	0.3
53	5 $\frac{1}{2}$ miles southeast	E. H. Martin	Ed. Milam	Flat	1912	173	7	0.2
54	6 $\frac{1}{2}$ miles southeast	J. E. Watson	Chas. Hayden	do.	1924	113	6	0.5
e/ 55	do.	Chas. Howard	do.	Hillside	1926	85	6	0.4
56	do.	do.	do.	Hilltop	1929	116	7	0.8

No.	Distance from Buda	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
101	8 $\frac{1}{4}$ miles northwest	J. W. Ireland	Chas. Hayden	Slope	1931	110	6	1.1
e/102	9 miles northwest	A. M. Smith	do.	Flat	--	287	6	0.4
103	7 miles northwest	Ben M. Barker	do.	--	1930	353	6	--
104	3 $\frac{1}{2}$ miles northwest	Chester Cohen	--	Flat	--	280	6	0.6
e/105	2 miles northwest	Harry Armbruster	--	do.	--	300	5	0
e/106	1 $\frac{1}{2}$ miles northwest	do.	T. E. Owens	do.	1937	248	6	--
e/107	1 $\frac{1}{2}$ miles northwest	S. T. Cews	-- Wallace	do.	1910	300	8	1.0
108	4 $\frac{1}{4}$ miles northwest	J. E. Tomerlin	--	do.	--	250	6	--
109	6 miles west	W. I. Kuykendell	--	Creek bottoms	--	90	6	--
110	7 miles west	M. O. Rogers	Harry Harmon	Flat	--	80	6	0.2
111	8 $\frac{1}{2}$ miles west	J. V. Bintliff	--	Creek bottoms	1890	237	6	1.0
112	5 $\frac{1}{2}$ miles west	W. I. Kuykendell	Felix Saunders	Flat	1920	500	5-3/4	--
113	3 $\frac{1}{4}$ miles west	Otto Schwartz	T. E. Owens	Hilltop	1937	312	6	0.6
114	3 miles west	E. O. Dodgen	Jim Wallace	do.	1917	325	6	--
115	In Buda	S. E. Barber	--	Flat	1907	243	5	0.8
116	1 $\frac{1}{2}$ miles east	Thomas Yoe	--	Rolling	--	30	28	0.5
117	1 $\frac{1}{2}$ miles east	Bankers Life Co.	--	Hilltop	--	500	6	--

a/Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.



## Records obtained by B. A. Barnes

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
52	42.3	Nov. 2, 1937	C,H	D,S	Reported weak supply.
53	143.9	do.	C,W	D	Wood curb; galvanized casing. Reported yield, 7 gallons a minute.
54	93.2	Nov. 4, 1937	C,W	S	Concrete curb; 20 feet casing at top. Reported yield, 5 gallons a minute.
55	59	Nov. 16, 1937	None	N	Concrete curb; 6 feet casing at top.
56	104.5	do.	C,W,G & 2 $\frac{1}{2}$	D,S	Concrete curb.
No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
101	61.2	Nov. 10, 1937	B,H	D,S	6 feet galvanized casing at top.
102	79.3	do.	C,W	S	Concrete curb; galvanized casing.
103	163	d/	C,G,-	--	Reported strong supply.
104	175.7	Nov. 8, 1937	C,W	D,S	Reported strong supply. Located in Samuel Pharass survey.
105	228.2	Dec. 1, 1937	--	--	Reported weak supply.
106	155	d/	None	N	Water in limestone from 185 to 240 feet. See log.
107	219.1	Nov. 17, 1937	C,W	D,S	Water in limestone.
108	--	--	C,G,3	D,S	Reported strong supply in limestone.
109	--	--	C,W,G & 1 $\frac{1}{4}$	S	Iron casing. Reported yield, 5 gallons a minute.
110	63.4	Nov. 4, 1937	C,W	--	Steel casing.
111	65.8	Nov. 16, 1937	C,W	D,S	Reported weak supply.
112	120	d/	C,W	--	160 feet casing at top. Reported yield, 5 gallons a minute. Water enters well at 190 to 200 feet.
113	273.5	Dec. 2, 1937	C,W	D,S	Reported slight drawdown after pumping 8 $\frac{1}{2}$ gallons a minute for $\frac{1}{2}$ hour. See log.
114	125	d/	C,W,G & 2 $\frac{1}{2}$	D,S	110 feet casing at top.
115	126.4	Sept. 16, 1937	C,E,1	D	Concrete curb; 230 feet galvanized casing at top.
116	26.1	do.	C,W	D,Ind	Dug well. Concrete curb; brick casing.
117	--	--	C,W	S,I	

c/ D, domestic; S, stock; I, irrigation; Ind, industrial; P, public; N, none.

d/ Water level reported.

e/ No water sample collected for analysis.

Records of wells and springs in Hays County--Continued

No.	Distance from Buda	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
118	2 $\frac{3}{4}$ miles south	Wilmont Est.	--	Flat	--	300	--	--
119	6 $\frac{1}{2}$ miles southeast	Rudolph Braune	--	do.	1907	19	30	1.4
e/120	4 $\frac{1}{2}$ miles southeast	Will G. Barber	J. H. Foster	Creek bottoms	1929	665	10	--
121	5 miles southeast	Louis Romeros	--	do.	1916	23	41	2.5
122	3 $\frac{1}{2}$ miles south	M. J. H. Ferguson	-- Robinson	Flat	1900	231	--	0.5
123	4 miles south	San Antonio Stock Land Bank	--	Creek bottoms	1898	507	6	0.9
124	6 $\frac{1}{4}$ miles southwest	M. G. Michaelis	--	Flat	1904	250	6	--
125	9 $\frac{1}{2}$ miles west	Joe Stuart	--	do.	--	500	6	0
126	do.	--	--	Gentle slope	--	127	8	1.4

  

No.	Distance from Wimberley	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
201	7 $\frac{1}{2}$ miles north	Mrs. K. Michaelis	--	--	1906	262	6	--
202	do.	J. D. McCall	--	Hill-side	--	140	6	1.2
e/203	9 $\frac{1}{2}$ miles northwest	C. F. Wolf	--	Gentle slope	1907	420	--	--
204	11 miles northwest	O. F. Bolton	--	--	1920	390	18	--
205	11 $\frac{1}{2}$ miles northwest	-- Duncan	--	Terrace	--	240	6	--
e/206	10 $\frac{1}{2}$ miles northwest	do.	--	do.	--	220	6	--
207	8 $\frac{1}{2}$ miles northwest	Mrs. D. M. Meeks	--	Slope	1922	90	6	1.1
208	do.	do.	--	Creek bottoms	--	Spring	--	--
209	7 miles northwest	C. C. Cook	-- Adaire	do.	1923	185	6	0.6
210	6 miles north	P. J. Tonkyro	--	do.	--	Spring	--	--
211	6 $\frac{1}{2}$ miles north	Ed. Bryant	--	do.	--	Spring	--	--
e/212	5 $\frac{1}{2}$ miles north	Lon Meeks	-- Dobbins	Hill-side	1917	303	6	--
213	5 miles north	--	--	--	--	Spring	--	--

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/ B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.

Records obtained by B. A. Barnes

No.	Water level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
118	--	--	C,W	--	Reported strong supply.
119	10.3	Nov. 8, 1937	None	N	Dug well. Brick curb and casing.
120	--	--	None	N	Oil test. Plugged with concrete at surface. See log.
121	20.7	Nov. 8, 1937	C,W	D,S	Dug well. Brick curb and casing. Reported supply fluctuates with the season.
122	184.8	Sept. 16, 1937	C,W	D,S	70 feet casing at top. Reported supply has weakened in recent years. Located in Justice survey.
123	166.9	Sept. 15, 1937	C,W	D,S	Iron casing, top to bottom. Located in Thos. Allen survey.
124	243	<u>d/</u>	C,G, <sup>1</sup> / <sub>2</sub>	D,S	Reported yield, 15 gallons a minute. Located in Andrew Dunn survey.
125	193.6	Nov. 4, 1937	C,W	D,S	Concrete curb. Water level questionable.
126	98.5	Nov. 16, 1937	B,H	D	12 feet galvanized casing at top.

No.	Water level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
201	162	<u>d/</u>	C,W,G, & 5	D,S	20 feet casing at top. Reported yield, one gallon a minute.
202	25.6	Oct. 28, 1937	None	N	6 feet galvanized casing at top. Located in Chas. McKim survey.
203	300	<u>d/</u>	C,W	--	Reported weak supply.
204	300	<u>d/</u>	C,W	D,S	Galvanized casing. Reported strong supply.
205	220 <sup>7</sup> / <sub>8</sub>	<u>d/</u>	C,W	D,S	Reported weak supply.
206	220 <sup>7</sup> / <sub>8</sub>	<u>d/</u>	C,W	S	
207	70.9	Oct. 26, 1937	C,W	D,S	Wood curb; galvanized casing. Reported strong supply.
208	Flows	do.	None	S	Estimated yield, 3 to 4 gallons a minute from 4 horizontal openings in limestone. Known as "Bottom
209	107.3	Oct. 28, 1937	C,W	D,S	Spring."
210	Flows	Oct. 29, 1937	None	D,S	Estimated yield, 3 gallons a minute from 1 horizontal opening at base of limestone. Surrounded by wood curb.
211	Flows	Oct. 28, 1937	None	D,S	Reported yield, 1 gallon a minute from 4 horizontal openings at base of limestone. Known as "Bryant
212	--	--	C,W	D,S	4 feet concrete casing at top. Reported Spring. strong supply.
213	Flows	Nov. 20, 1937	None	--	

c/ D, domestic; S, stock; I, irrigation; Ind, industrial; P, public; N, none.  
d/ Water level reported.  
e/ No water sample collected for analysis.

## Records of wells and springs in Hays County--Continued

No.	Distance from Wimberley	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
214	5½ miles northeast	M. J. Groos	--	Flat	1922	100	6	0.3
e/215	6½ miles northeast	H. B. Vogt	-- Hayden	Slope	1930	300	6	--
216	6 miles northeast	Lou Hill	--	Flat	1915	113	6	0.9
217	do.	B. S. Garnett	-- Millard	Hillside	1908	252	6	0.8
218	8 miles northwest	H. O. Eggar	--	Creek bottoms	--	132	6	0.4
219	9½ miles northwest	J. J. Ploch	--	Slope	1911	292	6	--
e/219a	8½ miles northwest	Texas-New Mexico Pipe Line Co.	--	--	1937	331	6	--
220	8 miles northwest	H. R. Sites	R. E. Gage	Terrace	1922	313	6	--
221	do.	Burnett Bros.	--	Creek bottoms	-- Spring	--	--	--
222	7 miles northwest	J. E. Bryant	--	Gentle slope	--	172	6	1.2
223	do.	do.	Adaire & Owens	Flat	1934	470	8½	0
224	do.	J. N. Byler	Sise, Rothbrock and Irving	do.	1929	810	10	0.4
225	6 miles northwest	R. A. Byler	Bob Page	do.	1904	332	6	--
226	3½ miles northwest	--	--	Creek bottoms	-- Spring	--	--	--
227	3¾ miles north	A. J. Haley	--	--	1919	300	6	1.1
228	2 miles north	-- Guber	--	Flat	--	125	6	0.8
229	3¾ miles northwest	John Farris	Gilbert Owens	do.	1936	300	9	1.4
230	do.	do.	--	do.	--	26	30	2.1
231	½ mile northwest	Jim Roberts	T. E. Owens	Slope	1936	150	6	0.6
232	¼ mile northeast	Mrs. M. Roberts	Felix Saunders	Terrace	1930	151	6	0.5
233	¼ mile northwest	J. M. Keith	T. E. Owens	Slope	1937	46	6	0.9
234	¼ mile north	N. E. Hughes	do.	Hillside	1937	170	5½	--
234a	do.	do.	do.	Terrace	1938	162	5½	2.3
234b	do.	M. A. Morris	do.	do.	1938	185	5½	1.6
235	do.	J. W. Pyland	do.	Hilltop	--	215	6	0.2

Records obtained by B. A. Barnes

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
214	51.5	Oct. 28, 1937	C, W	D, S	Stone curb. Reported strong supply.
215	100	d/	C, G, & 1 1/2	--	Water in limestone.
216	99.2	Oct. 29, 1937	C, H	D	Concrete curb; galvanized casing.
217	175.4	Oct. 30, 1937	C, W	D, S	14 feet galvanized casing at top.
218	121.5	Nov. 1, 1937	C, W, G, & 2	D, S	Galvanized casing.
219	160	d/	C, W	D, S	17 feet casing at top. Reported strong supply.
219a	289	d/	C, G, -	Ind	331 feet steel casing; 320 feet 3-inch tubing. Reported slight drawdown after pumping 14 gallons a minute for 5 hours. Supplies 3,000 gallons a day.
220	240	d/	C, W	D, S	5 feet concrete casing at top. Conrad Overland survey. See log.
221	Flows	Feb. 23, 1938	None	S	Estimated yield, 4 gallons a minute from 2 solution cavities in limestone. Reported fails in summer.
222	95.8	Nov. 15, 1937	C, W	D, S	Galvanized casing. Known as "Cypress Spring."
223	272.3	do.	None	N	Iron casing.
224	222.4	Nov. 2, 1937	C, W	D	No casing. Reported odor of hydrogen sulfide gas when first pumped. Water at 150, 225 and 750 feet.
225	--	--	C, W	D, S	3 feet iron casing at top.
226	Flows	Oct. 28, 1937	None	--	Water from circular opening, 12 feet across and 31 feet deep in limestone. Flow estimated as 6 second-feet. Temperature, 68° F. Known as "Jacobs well."
227	173.3	do.	C, W	D, S	Galvanized casing. Located in Chas. McKim survey.
228	71.9	do.	C, W	N	
229	171.6	do.	B, H	D	4 feet galvanized casing at top.
230	25.3	do.	B, H	S	Dug well. Rock curb; 3 feet rock casing at top. Reported intermittent supply.
231	66.5	Nov. 19, 1937	B, H	D, S	8 feet galvanized casing at top. Reported intermittent supply.
232	18.6	do.	B, H	--	Concrete curb; 14 feet casing at top. Reported weak supply.
233	31.1	do.	B, H	D, S	28 feet casing at top. Reported strong supply.
234	Flows	Nov. 11, 1937	None	D	10 feet iron casing at top. Static level, 6.4 feet above top of casing which is 2.2 feet above ground.
234a	Flows 17.2	Apr. 28, 1938	None	D	22 feet casing at top. Static level, 17.2 feet above surface. Measured flow, 125 gallons a minute. Temperature, 70° F.
234b	Flows 19.9	do.	None	D	26 feet casing at top. Static level, 19.9 feet above surface. Estimated flow 125 gallons a minute.
235	5.3	Nov. 11, 1937	None	N	30 feet iron casing at top. Temperature, 70° F.

## Records of wells and springs in Hays County--Continued

No.	Distance from Wimberley	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
236	In Wimberley	C. W. Burdett	T. E. Owens	Flat	1937	260	6	--
237	do.	J. R. Dobie	-- Clayton	--	1931	33	6	0.7
238	do.	W. A. Leath	Elbert Owens	Flat	1936	248	6	--
239	$\frac{3}{4}$ mile southeast	do.	Fleming Adaire	--	--	104	6	0.5
240	$3\frac{3}{4}$ miles east	Dan Nance	--	River bottoms	--	33	--	0
241	$5\frac{1}{2}$ miles southeast	do.	Fleming Adaire	Slope	1928	311	6	1.0
e/242	$3\frac{1}{4}$ miles southeast	do.	do.	Flat	1903	500	5-5/8	0.3
243	$1\frac{3}{4}$ miles southwest	B. D. Bell	--	River bottoms	1895	200	6	2.8
244	do.	do.	--	do.	1895	112	6	2.0
245	$3\frac{1}{2}$ miles southwest	W. H. Moses	Fleming Adaire	Slope	1917	84	6	0.5
246	6 miles west	N. W. Reed	--	do.	--	65	6	1.3
247	$3\frac{1}{4}$ miles southeast	Ed. Kasch	--	do.	--	280	6	--
248	$4\frac{1}{2}$ miles southeast	Dan Nance	-- Newton	Flat	1916	280	7	0.8
249	$3\frac{1}{2}$ miles south	R. E. Clayton	Elbert Owen	Slope	--	129	6	1.6
250	$3\frac{3}{4}$ miles south	Ed. Kasch	Jack Adaire	Creek bottoms	1916	58	6	0
251	do.	C. B. Crawford	--	Slope	--	200	6	0.1
252	$4\frac{1}{4}$ miles south	H. K. Wilbern	--	do.	1918	--	6	--
e/253	$4\frac{3}{4}$ miles southwest	C. W. Williamson	Bob Paige	Flat	1900	60	6	--
254	5 miles southwest	Fred Boyett	John Payne	Slope	1909	124	6	0.6
255	do.	do.	--	do.	--	58	6	2.1
256	$4\frac{1}{2}$ miles south	C. J. Crook	--	do.	--	270	6	0.8
e/257	$6\frac{1}{2}$ miles southeast	H. H. Storms	--	Flat	1897	315	6	--
258	do.	Thomas Dix	--	Slope	--	249	6	0.8
259	$4\frac{1}{2}$ miles south	C. B. Crawford	--	Creek bottoms	--	500	6	--
260	do.	do.	--	Slope	--	300	6	--
261	5 miles south	E. S. Allen	--	do.	1920	85	6	1.3

## Records obtained by B. A. Barnes

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
236	Flows	Oct. 15, 1937	None	--	Static level, 16.3 feet above surface. Temperature, 70° F. Driller estimated flow as 90 gallons a minute.
237	28.9	do.	C,W	D	18 feet galvanized casing at top. Reported water in gravel at 26 feet.
238	Flows	do.	None	P,I	Static level, 16.1 feet above surface. Reported flow, 45 gallons a minute. Temperature, 70° F. See log.
239	43.7	do.	C,W	S	40 feet iron casing at top. Reported weak supply.
240	26.5	Oct. 19, 1937	None	N	No casing.
241	225.1	Oct. 20, 1937	C,W,G &2	S	Reported yield, 3 gallons a minute.
242	176.7	Oct. 19, 1937	None	N	Steel casing.
243	24.1	Oct. 20, 1937	None	N	17 feet galvanized casing at top. Reported weak supply.
244	37.9	do.	B,H	D	24 feet galvanized casing at top. Reported weak supply.
245	34.2	Oct. 21, 1937	C,H	D,S	35 feet casing at top.
246	54.5	do.	C,W	D,S	
247	--	--	C,W	D,S	6 feet casing at top. Reported yield, $\frac{1}{2}$ gallon a minute. Reported weak supply.
248	232.7	Oct. 18, 1937	C,W	D,S	4 feet casing at top. Reported yield, $1\frac{1}{4}$ gallons a minute.
249	63.5	Oct. 14, 1937	B,H	D	Steel casing. Reported weak supply.
250	37.7	Nov. 13, 1937	C,W	D,S	Reported strong supply.
251	69.6	do.	None	N	6 feet galvanized casing at top.
252	--	--	C,W	D,S	
253	40	d/	C,H	D,S	20 feet steel casing at top. Reported weak supply.
254	82.2	Oct. 15, 1937	C,W	D,S	Steel casing.
255	49.6	do.	None	N	3 feet galvanized casing at top.
256	202.6	Oct. 14, 1937	C,W,G &2	D,S	Iron casing.
257	--	--	C,W	D,S	Reported yield, 15 gallons a minute.
258	207.4	Oct. 18, 1937	C,W	--	Iron casing. Reported yield, 15 gallons a minute.
259	--	--	C,W	S	Reported yield, 5 gallons a minute from limestone at 250 to 300 feet.
260	--	--	C,W	D,S	Reported yield, 2 to 3 gallons a minute from limestone at 280 feet.
261	22.9	Nov. 13, 1937	C,W	D,S	3 feet galvanized casing at top.

Records of wells and springs in Hays County--Continued

No.	Distance from Wimberley	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
262	5 $\frac{1}{2}$ miles south	O. A. Stoepler	Jack Adaire	Slope	--	41	--	0.2
e/263	do.	C. B. Crawford	do.	Flat	--	170	5	0.2
264	6 $\frac{1}{2}$ miles south	do.	do.	do.	--	300	--	--
265	7 miles south	G. L. Boozer	John Haunz	do.	1900	504	6	--
e/266	6 $\frac{1}{2}$ miles south	O. A. Stoepler	--	do.	--	182	5	0.6
267	7 $\frac{1}{2}$ miles south	Frank Posey	Jack Adaire	Hilltop	1925	360	6	0.8
e/268	9 $\frac{1}{2}$ miles southeast	J. H. Sherrill	--	Flat	1905	370	6	--
269	8 $\frac{1}{2}$ miles south	Rudolph Wegner	--	--	1930	280	6	--
270	9 $\frac{1}{2}$ miles southeast	Ermon Posey	-- Newton	Slope	1880	300	6	0.7
271	10 $\frac{1}{2}$ miles southeast	Marvin Saddler	do.	Terrace	1914	428	--	--

  

No.	Distance from San Marcos	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
e/301	10 $\frac{1}{2}$ miles northeast	T. W. Bunton	Tony Day	River bottoms	--	17	42	0.2
302	9 miles north	C. M. Decker	--	Hilltop	--	375	6	--
e/303	8 miles north	E. Nance	-- Newton	River bottoms	--	143	6	--
304	9 miles northeast	San Antonio Stock Land Bank	--	Flat	--	500	6	1.0
305	do.	A. L. Schmeltekopf	--	Gentle slope	1905	42	35	1.9
306	10 $\frac{1}{2}$ miles northeast	F. W. Homann	--	Creek bottoms	1925	12	64	2.8
307	8 miles northeast	Nicholas Thiele	Fleming Adaire	Terrace	1934	372	5	0.7
e/308	do.	Geo. Heidenrich	-- Pate	Slope	1937	--	--	--
e/309	do.	do.	--	Hilltop	1932	1,935	16	--
3/310	8 $\frac{1}{2}$ miles northeast	do.	--	Creek bottoms	1931	2,767	10	--
311	7 $\frac{1}{2}$ miles northeast	Arch Allen	Andrew Tolson	--	1916	277	6	0.3

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.



Records obtained by B. L. Barnes

No.	Water level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
262	12.8	Oct. 15, 1937	C,W	D,S	Concrete curb; no casing.
263	162.9	Nov. 13, 1937	None	N	Iron casing. Reported weak supply.
264	--	--	C,W	S	Reported yield, 1½ gallons a minute.
265	300 <del>4</del>	<u>d/</u>	C,W	D,S	20 feet iron casing at top. Reported yield, 2 gallons a minute.
266	150	Oct. 15, 1937	None	N	Located in Comal County.
267	272.6	Nov. 12, 1937	C,G, &3½	D,S	16 feet iron casing at top. Reported yield, 3 gallons a minute. Located in Comal County.
268	--	--	C,W	S	Water in limestone.
269	207	<u>d/</u>	C,W	S	Reported yield, 7 gallons a minute.
270	245.2	Nov. 23, 1937	C,W	--	50 feet iron casing at top. Reported yield, 10 gallons a minute.
271	300 <del>4</del>	<u>d/</u>	C,W,G &1½	D,S	Reported yield, 1½ gallons a minute.

  

No.	Water level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
301	15.6	Sept. 18, 1937	B,H	S	Dug well. Rock curb and casing. Reported seasonal fluctuation in supply.
302	--	--	C,W,G &2½	D,S	Iron casing.
303	--	--	C,W,G & -	D,S	Located in J. Pharass survey 13.
304	157.1	Oct. 2, 1937	C,W	D,S	Water in limestone. Located in Henry Lollar survey.
305	38.2	Sept. 15, 1937	C,W	D,S	Dug well. Concrete curb; stone casing. Reported intermittent supply.
306	6.2	Nov. 10, 1937	None	N	Dug well. Brick curb; 5 feet brick casing at top.
307	135.3	Sept. 15, 1937	C,G, &1½	D,S	340 feet iron casing at top. Water in limestone at 368 to 372 feet. See log.
308	--	--	None	N	Oil test.
309	--	--	None	N	Oil test. Plugged at 1,890 feet.
310	--	--	None	N	Oil test. See log.
311	180.4	Oct. 2, 1937	C,W	D,S	Reported strong supply.

c/ D, domestic; S, stock; I, irrigation; Ind, industrial; P, public; N, none.  
d/ Water level reported.  
e/ No water sample collected for analysis.

## Records of wells and springs in Hays County--Continued

No.	Distance from San Marcos	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
312	7 $\frac{1}{2}$ miles northeast	Arch Allen	--	Flat	--	26	30	2.2
313	6 $\frac{1}{2}$ miles north	Col. E. H. Tarbutton	--	River terrace	--	148	--	0.2
314	5 $\frac{1}{2}$ miles north	C. C. Mitchell	Delbert Ownes	Slope	1928	436	6	--
315	do.	Texas-New Mexico Pipe Line Co.	--	Flat	1928	500	6	--
316	6 $\frac{1}{2}$ miles northeast	R. A. Rowland	--	do.	1887	24	30	2.8
317	do.	Mrs. Ed. Schaffer	Fleming Adaire	Ridge	1912	290	5	0.9
318	do.	Antonio Delgado	--	Flat	--	26	36	1.4
319	do.	Fritz Homann	--	Hill-side	-- Spring	--	--	--
320	10 $\frac{1}{2}$ miles northeast	M. D. Richardson	--	do.	1900	43	30	0
321	7 $\frac{1}{2}$ miles northeast	W. W. Patterson	--	Flat	1890	19	60	0.3
322	5 $\frac{1}{2}$ miles northeast	do.	--	Slope	--	121	6	1.1
323	4 $\frac{3}{4}$ miles north	A. B. Rogers	A. B. Rogers	Flat	1919	125	--	--
324	do.	Otto Welge	Arthur Newton	--	1908	290	6	0.6
e/325	3 $\frac{1}{2}$ miles north	-- Moore	D. Furquend	--	--	216	--	--
e/326	4 miles north	J. W. Hagelgans	-- Gowen	Hill-side	1931	182	--	--
327	4 miles northeast	F. N. Whaley	--	Hilltop	--	121	6	1.1
328	3 $\frac{1}{2}$ miles northeast	J. L. Sawyer	--	Rolling	--	40	30	2.8
329	2 $\frac{3}{4}$ miles northeast	Louis Woods	Louis Woods	Gentle slope	--	141	--	1.1
e/330	2 miles northeast	Mrs. L. Coers	Fleming Adaire	Flat	1915	93	--	--
331	2 $\frac{1}{4}$ miles north	W. N. Goforth	--	Hill-side	-- Spring	--	--	--
e/332	1 $\frac{3}{4}$ miles northeast	A. F. Knispel	--	Gentle slope	--	34	50	0
e/333	3 miles northwest	R. F. Alexander	--	Side of draw	1897	186	6	0.6
e/334	3 $\frac{3}{4}$ miles west	W. N. Allbright	-- Clayton	Flat	1913	360	6	--
e/335	3 miles northwest	R. F. Alexander	Albert Adaire	do.	1929	285	--	--
e/336	2 $\frac{3}{4}$ miles northwest	Theo Laidley	-- Newton	--	1907	235	6	--
e/337	1 $\frac{1}{2}$ miles northeast	Lina Schwarzlose	--	Flat	1930	20	60	2.4

## Records obtained by B. A. Barnes

No.	Water level		Pump and power b/	Use of water c/	
	Depth below measuring point (ft.)	Date of measurement			
312	17.1	Oct. 2, 1937	B,H	S	Dug well. Concrete curb; 4 feet brick casing at top.
313	62.9	Oct. 22, 1937	C,G,2	D	
314	--	--	C,W	D,S	46 feet iron casing at top. Reported yield, 13 gallons a minute.
315	365	d/	C,E,5	D,S	100 feet casing at top. Reported yield, 15 gallons a minute.
316	18.6	Oct. 2, 1937	C,W	D,S	Dug well. Concrete curb. Supplies 6 head of cattle.
317	128.9	Sept. 15, 1937	C,G,-	D,S,I	5 feet casing at top.
318	23.7	Sept. 18, 1937	C,W	D,S	Dug well. Concrete curb; rock casing. Reported weak supply.
319	Flows	Nov. 10, 1937	None	--	3 openings in gravel. Small yield. Varies with season.
320	19.7	do.	C,W	D,S	Dug well. Concrete curb; brick casing. Reported weak supply.
321	13.9	do.	C,W	S	Dug well. Wood curb; rock casing. Reported strong supply.
322	80.6	Sept. 15, 1937	C,W	D,S	Reported water in chalk.
323	--	--	C,G, & 1 1/2	D,S	Reported strong supply.
324	275.5	Oct. 12, 1937	C,G, & 1 1/2	--	60 feet casing at top.
325	--	--	C,W	D,S,I	Reported strong supply.
326	162	d/	--	D,S	102 feet iron casing at top.
327	97.3	Sept. 15, 1937	C,G,-	D,S	Reported strong supply.
328	38.9	Sept. 14, 1937	B,H	D	Dug well. Wood curb; rock casing. Located in Verimondi survey.
329	137.1	do.	C,W	--	Reported slight drawdown after 48 hours pumping. Located in T. J. Chambers survey.
330	--	--	--	D,S	Reported strong supply.
331	Flows	Oct. 4, 1937	None	S,I	Reported yield, 800 gallons a minute from 1 opening in limestone. Temperature, 75° F.
332	28.2	Oct. 8, 1937	C,G,8	D,S,I	Dug well. Brick curb; 3 feet brick casing at top.
333	132.5	Oct. 5, 1937	C,W,G, & 1 1/2	S	4 feet iron casing at top. Reported yield, 7 gallons a minute. Located in Maximillian survey.
334	320	d/	C,W	D,S,I	Iron casing. Water at 240 and 374 feet.
335	--	--	C,W,G, & -	S,I	6 feet casing at top. Reported yield, 2 gallons a minute.
336	--	--	C,W	--	Water in limestone.
337	17.9	Sept. 14, 1937	B,H	D	Dug well. Wood curb; 3 feet rock casing at top. Reported weak supply.

## Records of wells and springs in Hays County--Continued

No.	Distance from San Marcos	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
338	1 $\frac{1}{2}$ miles northeast	H. W. Hageman	--	Terrace	1914	77	5	0.3
339	2 $\frac{1}{2}$ miles northeast	Mrs. Nora Dobbins	--	River bottoms	--	33	23	2.8
340	1 $\frac{1}{2}$ miles northeast	Frank G. Avey	--	Flat	1905	42	34	2.2
341	1 $\frac{1}{2}$ miles east	Harry Neuse	--	River bottoms	1935	11	52	0.3
342	1 $\frac{1}{2}$ miles east	H. H. Butz	Fleming Adaire	Flat	--	22	72	1.7
e/343	$\frac{1}{2}$ mile northeast	City of San Marcos	Walter Payne	--	1914	85	8	--
e/344	do.	do.	--	River bed	--	Spring	--	--
345	do.	Spring Lake Hotel	--	Hillside	--	Spring	--	--
346	In San Marcos	U. S. Dept. of Comm.	--	Flat	1895	1,495	12	--
347	1 mile west	San Marcos Cemetery	--	do.	1910	280	5-3/16	0.3
348	1 $\frac{1}{4}$ miles northwest	R. K. Karnes	--	Hilltop	--	282	6	0.5
349	1 $\frac{3}{4}$ miles northwest	E. Brooks	Fleming Adaire	Flat	1908	176	6	0.6
350	1 $\frac{1}{4}$ miles southwest	Mrs. R. L. Jennings	O. A. Payte	do.	1937	560	--	0
e/351	1 $\frac{1}{4}$ miles southeast	F. S. Smith	--	--	--	27	30	3.1
e/352	2 $\frac{1}{4}$ miles southeast	Walter Mittendorf	--	Flat	1917	40	--	0
353	1 $\frac{1}{2}$ miles southwest	J. A. Clayton	--	Hillside	--	90	6	0.6
354	1 $\frac{3}{4}$ miles southwest	J. B. Netherland	J. Adair	Hilltop	--	250	6	1.5
355	2 miles southwest	Tom Ragsdale	--	Flat	--	143	6	2.7
356	1 $\frac{1}{2}$ miles southwest	M. Cruze	--	do.	--	23	30	2.8
e/357	2 $\frac{1}{4}$ miles southwest	Welder Swift	--	do.	--	96	--	--
358	2 $\frac{1}{2}$ miles southwest	W. P. Donaldson	--	do.	1929	210	6	0.6
e/359	2 $\frac{3}{4}$ miles southwest	G. M. Jackson	A. C. Newton	--	1910	194	6	0.6
360	4 miles southwest	W. C. McCarty	do.	--	--	240	6	--
361	3 $\frac{1}{4}$ miles southwest	Hancock Life Ins. Co.	--	Ridge	1900	200	6	0.8
362	2 $\frac{3}{4}$ miles southwest	G. M. Jackson	-- Newton	Flat	--	21	24	1.0
363	2 $\frac{1}{4}$ miles south	Mrs. Carrie H. Crawford	--	Slope	--	36	30	0.2

## Records obtained by B. A. Barnes

No.	Water level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
338	42.1	Sept. 14, 1937	C,E, &3/4	D	Concrete curb; iron casing. Reported 30 feet draw-down after pumping 10 to 12 gallons a minute for $\frac{1}{2}$ hour.
339	15.8	Sept. 18, 1937	B,H	N	Dug well. Concrete curb; rock casing. Reported weak supply.
340	32.7	Sept. 14, 1937	None	N	Do.
341	9.4	Sept. 18, 1937	C,W	D	Dug well. Water in gravel and sand.
342	16.5	Sept. 14, 1937	C,G, &3	D,S,I	Dug well. Reported 6 feet drawdown after pumping 50 to 75 gallons a minute for 3 hours.
343	5	<u>d/</u>	C,E, &185	P	Steel casing. Yield, 1,200 gallons a minute, using 3 motors. Temperature, 72° F.
344	Flows	Oct. 4, 1937	None	N	1 opening in limestone. Flows into San Marcos River. Combined flow from springs 344 and 345 has varied from 51 to 286 second-feet according to occasional
345	Flows	do.	None	P	10 openings measurements by U. S. Geological Survey. in limestone. Used for bathing and medicinal purposes.
346	Flows	do.	None	P	Reported yield, 800 gallons a minute. Supplies lake at fish hatchery. Temperature, 72° F.
347	227.8	Oct. 5, 1937	C,W,G, &2	I	Iron casing. Reported strong supply.
348	260.1	do.	C,W	--	Do.
349	164.4	do.	C,W	D,S,I	80 feet iron casing at top.
350	18.6	Oct. 4, 1937	None	N	No casing. Oil test. See log.
351	21.1	Oct. 6, 1937	C,W	S	Dug well. Concrete curb; rock casing.
352	29.8	do.	C,G,-	D,I	Dug well. Concrete curb and casing. Reported 8 feet drawdown after pumping 400 gallons a minute.
353	71.8	Sept. 27, 1937	C,W	D,S,I	Galvanized casing.
354	63.2	Sept. 29, 1937	C,G,2	D,S,I	Iron casing.
355	104.8	Sept. 27, 1937	B,H	--	Iron casing. Reported weak supply.
356	9.6	do.	C,W	D,S	Dug well. Wood curb; rock casing. Reported strong supply.
357	--	--	C,W,G, &4	D,S	Reported strong supply.
358	75.4	Sept. 27, 1937	C,W	N	80 feet steel casing at top. Reported yield, 15 to 20 gallons a minute.
359	120.8	Sept. 29, 1937	C,W	--	Concrete curb. Used slightly.
360	--	--	C,-	D,S,I	80 feet iron casing at top.
361	130.1	Sept. 27, 1937	C,W	D,S,I	Iron casing. Reported strong supply.
362	9.1	Sept. 29, 1937	C,W	D,S	Dug well. Rock casing. Reported intermittent supply.
363	7.4	Oct. 1, 1937	None	N	Do.

Records of wells and springs in Hays County--Continued

No.	Distance from San Marcos	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>
364	3 $\frac{3}{4}$ miles southwest	O. Green	--	Hilltop	1917	234	6	--
365	4 miles southwest	Geo. Martindale	--	Hillside	--	188	6	0.2
366	4 $\frac{1}{4}$ miles southwest	Hancock Life Ins. Co.	--	Slope	--	131	6	0.9
367	4 $\frac{3}{4}$ miles southwest	R. G. Johnson	-- Kretcher	do.	--	229	6	--
368	5 miles southwest	W. C. Johnson	John Aiken	Hillside	1900	194	8	0.2
e/369	4 $\frac{3}{4}$ miles southwest	--	--	Flat	--	23	70	2.6
370	4 $\frac{1}{4}$ miles south	Gustav Bierstedt	--	Hillside	1924	10	--	-0.2
371	5 $\frac{1}{3}$ miles southwest	Ewell Jackson	-- Newton	--	1913	200	6	1.1
372	6 miles southwest	Mrs. Lee Posey	Bob Owens	Slope	1898	187	6	1.4
373	6 $\frac{1}{2}$ miles southwest	W. N. Yates	--	--	1902	360	--	--
374	6 miles southwest	E. L. Williamson	--	Flat	1900	16	30	1.3
375	do.	Bankers Life Ins. Co.	--	Creek bottoms	--	18	36	2.6
376	do.	David Ramsay	--	do.	1922	23	--	1.0
377	9 miles south	Reinhold Bading	--	do.	1907	18	30	2.3

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/ B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.

## Records obtained by B. A. Barnes

No.	Water level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (ft.)	Date of measurement			
364	157.4	<u>d/</u>	C,W	D,S	Reported strong supply. Oil on surface of water.
365	156.6	Sept. 29, 1937	C,W	D,S,I	Reported quality improves with amount withdrawn.
366	117.9	Sept. 27, 1937	C,W	D,S	Steel casing. Supplies 60 head of cattle.
367	163	<u>d/</u>	C,W	D,S	44 feet iron casing at top.
368	159.2	Sept. 27, 1937	C,W	D,S	150 feet iron casing at top.
369	8.9	Sept. 28, 1937	C,W	D,S	Dug well. Brick curb; rock casing.
370	5.1	Nov. 11, 1937	None	N	Dug well. Rock curb and casing.
371	186.4	Oct. 1, 1937	C,W,G, &2	D,S	Reported strong supply.
372	146.8	Sept. 28, 1937	C,W	D,S	Do.
373	140	<u>d/</u>	C,G,-	D,S	No casing. Reported 30 feet drawdown after pumping 5 gallons a minute for 3 hours.
374	10.6	Sept. 28, 1937	C,W	D,S	Dug well. Concrete curb; 16 feet rock casing at top.
375	11.2	Oct. 1, 1937	C,W	D,S,I	Dug well. Concrete curb; rock casing.
376	17.8	Nov. 9, 1937	C,W,G, & -	D,S,I	Reported yield, 25 gallons a minute.
377	13.4	do.	None	N	Dug well. Concrete curb; rock casing. Reported weak supply.

c/ D, domestic; S, stock; I, irrigation; Ind, industrial; P, public; N, none.

d/ Water level reported.

e/ No water sample collected for analysis.

Table of Drillers' Logs, Hays County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 45</u>		
A. A. Elsner farm, 3 miles south of Dripping Springs.		
Top soil - - - -	17	17
Gray lime- - - -	33	50
Gray shale - - - -	10	60
White lime - - - -	22	82
Water sand - - - -	18	100
White lime - - - -	110	210
Gravel - - - -	21	231
White lime - - - -	29	260
Gray shale - - - -	5	265
Gray lime- - - -	15	280
Sandy lime - - - -	20	300
Gray shale - - - -	10	310
Gray sand- - - -	32	342
Gray shale - - - -	48	390
Blue slate - - - -	20	410
Sandy shale - - - -	48	458
Green shale - - - -	8	466
Red sand - - - -	3	469
White sand - - - -	7	476
White lime - - - -	10	486
Mixed shale - - - -	5	491
Brown lime - - - -	29	520
Red shale- - - -	18	538
Red sand - - - -	7	545
White sand - - - -	18	563
Red shale- - - -	3	566
Gray lime- - - -	34	600
White lime - - - -	10	610
Water sand - - - -	12	622
Gray lime- - - -	23	645
Mixed lime - - - -	10	655
Black lime - - - -	5	660
Gray lime- - - -	65	725
Sandy shale - - - -	45	770
Red beds - - - -	5	775
Green shale - - - -	20	795
Brown shale - - - -	25	820
Gray shale - - - -	50	870
Black shale - - - -	45	915
Gray shale- - - -	55	970
Black shale - - - -	1490	2460
TOTAL DEPTH - - - -		2460
CASING RECORD: 525 feet of 10-inch and 725 feet of 8-inch casing.		

<u>Driller's log of well 106</u>		
Harry Armbruster tract, 1 1/4 miles northwest of Buda.		
Lime - - - -	32	32
Blue clay- - - -	53	85
Lime - - - -	163	248
TOTAL DEPTH - - - -		248

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 113</u>		
Otto Schwartz tract, 3 1/4 miles west of Buda.		
Caliche - - - -	5	5
Yellow clay - - - -	15	20
Blue shale - - - -	42	62
White lime - - - -	32	94
Lime- - - -	188	282
Water sand - - - -	30	312
TOTAL DEPTH - - - -		312

<u>Driller's log of well 120</u>		
Will C. Barber tract, 4 1/8 miles southeast of Buda.		
Clay - - - -	18	18
Hard-packed clay - - - -	20	38
Hard-packed shale- - - -	211	249
Marl - - - -	14	263
Chalk- - - -	217	480
Shale- - - -	17	497
Lime - - - -	48	545
Clay - - - -	49	594
Lime - - - -	55	649
White lime - - - -	16	665
TOTAL DEPTH - - - -		665

<u>Driller's log of well 219-A</u>		
Texas-New Mexico Pipe Line Co. station, 8 1/2 miles northwest of Wimberly.		
Chalk- - - -	5	5
Gray limestone - - - -	5	10
Blue shale - - - -	50	60
Gray shale - - - -	10	70
Yellow limestone - - - -	25	95
White limestone - - - -	50	145
Gray limestone - - - -	75	220
Yellow limestone - - - -	26	246
Gray limestone - - - -	14	260
Blue limestone - - - -	12	272
Brown shale - - - -	10	282
Red shale - - - -	3	285
Cavity - - - -	3	288
Gray limestone - - - -	24	312
Yellow limestone (water) - - - -	13	325
Impermeable limestone- - - -	6	331
TOTAL DEPTH - - - -		331

CASING RECORD: 331 feet of 6-inch casing and 320 feet of 3-inch galvanized tubing. Bottom two joints of casing perforated.



Table of Drillers' Logs, Hays County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 238</u>		
W. A. Leath lot, in Wimberly.		
White lime - - - -	240	240
Hard-packed white sand - -	8	248
TOTAL DEPTH - - - -		248

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 307</u>		
Nicholas Thiele tract, 8 miles northeast of San Marcos.		
White lime - - - -	290	290
Blue clay- - - -	50	340
Gray lime- - - -	32	372
TOTAL DEPTH - - - -		372

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 310</u>		
Geo. Heidenreich, et al., 8 $\frac{1}{2}$ miles north-east of San Marcos.		
Top soil - - - -	20	20
Clay - - - -	241	261
Chalk- - - -	226	487
Shale- - - -	30	517
Lime - - - -	57	574
Clay - - - -	36	610
Lime - - - -	45	655
Caliche - - - -	2	657
Lime - - - -	469	1126
Rock - - - -	116	1242
Lime - - - -	673	1915
Sticky shale - - - -	16	1931
Sticky shale and hard lime-	46	1977
Hard lime- - - -	38	2015

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 310--Continued</u>		
Sandy lime and shale - -	194	2209
Sticky shale - - - -	52	2261
Sand - - - -	39	2300
Sticky blue shale- - -	5	2305
Shale- - - -	5	2310
Sandy lime - - - -	5	2315
Hard lime- - - -	20	2335
Shale and lime - - - -	20	2355
Gummy shale - - - -	21	2376
Lime and shale - - - -	72	2448
Sand - - - -	149	2597
Red shale- - - -	13	2610
Hard rock- - - -	6	2616
Rock - - - -	46	2662
Sand - - - -	15	2677
Schistose shale - - - -	90	2767
TOTAL DEPTH - - - -		2767

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 350</u>		
Mrs. R. L. Jennings tract, 1 $\frac{1}{4}$ miles southwest of San Marcos.		
Marl - - - -	40	40
White chalk - - - -	160	200
Shale- - - -	30	230
Lime - - - -	50	280
Clay - - - -	55	335
Lime - - - -	35	370
White lime - - - -	120	490
Gray lime- - - -	70	560
TOTAL DEPTH - - - -		560

Partial analyses of water from wells in Hays County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, and E. W. Lohr, Chemist, U. S. Department of the Interior, Geological Survey; by D. F. Riddell, H. T. Davidson, Floyd H. Ward, and F. G. Steer, Chemists; and J. A. Harmaza, Martin Wieland, and Jack Ramsey, Assistant Chemists. Nitrate determined by E. W. Lohr. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calculated)
1	--	Spring	Nov. 5, 1937	224	58	15	10	244	11	10	b/	204
2	Willie Puryear	177	Nov. 3, 1937	1,089	189	77	85	342	300	270	20	787
3	R. N. Cotten	450	do.	253	-	-	-	226	28	18	b/	-
4	T. Duran	272	do.	235	-	-	-	183	39	19	b/	-
5	W. C. Harris	280	do.	474	-	-	-	336	124	15	b/	-
6	B. T. Crumley	237	do.	1,538	405	22	36	171	964	27	b/	1,104
7	do.	21	Nov. 15, 1937	508	118	10	41	250	29	64	123	336
8	G. W. Stillman	150	--	569	105	65	-	348	206	22	b/	530
10	Mrs. I. V. Davis	207	Nov. 15, 1937	444	85	55	6	415	58	36	b/	439
11	-- Myers	350	Nov. 5, 1937	754	123	77	28	378	291	49	b/	622
12	Ben Everett	183	Nov. 15, 1937	1,036	204	70	43	366	459	80	b/	798
13	Andy Ray	170	--	481	78	67	7	451	90	17	b/	472
14	W. J. Vaughan	137	Nov. 17, 1937	391	96	32	8	372	54	18	b/	370
15	Carl Fritz	235	Sept. 24, 1937	309	85	28	-	329	14	20	b/	327
16	Bob Breeding	Spring	Sept. 4, 1937	361	96	26	9	378	18	26	b/	346
17	do.	Spring	do.	793	151	45	72	610	15	60	150	563
19	Glynn C. Key	87	do.	390	90	30	9	323	14	30	90	349
20	do.	46	do.	322	51	38	5	207	13	33	80	283
21	John Tinney	40	Sept. 7, 1937	2,640	287	108	381	287	518	405	800	1,162
22	do.	87	do.	468	-	-	-	342	101	29	b/	-
24	W. A. Lyle	70	do.	416	76	32	38	342	58	44	b/	320
25	G. W. Houchin	85	do.	536	120	48	6	366	132	50	b/	494
26	E. C. Glimb	9	do.	370	-	-	-	390	20	14	b/	-
27	Mrs. Mamie Roberts	Spring	do.	495	-	-	-	488	43	22	b/	-
28	Mrs. W. L. Farrell	330	Sept. 9, 1937	602	76	89	7	366	226	24	b/	555
29	do.	96	do.	494	-	-	-	372	58	68	b/	-
31	C. J. Smith	106	do.	357	-	-	-	256	77	24	b/	-
32	G. G. Koehn	16	do.	85	28	-	5	73	a/	8	b/	70
34	W. A. Harber	200	do.	1,151	223	78	26	201	689	36	b/	878
35	Mrs. -- McDonald	69	do.	246	-	-	-	232	10	27	b/	-
36	Mrs. I. W. Davis	113	do.	394	-	-	-	268	101	20	b/	-

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

Partial analyses of water from wells in Hays County, -Continued  
Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calculated)
37	A. S. Walker	350	Nov. 2, 1937	-	-	-	-	-	1,784	33	b/	-
38	Felix Lindsey	64	Nov. 17, 1937	753	122	93	11	488	253	34	b/	687
39	Lester Brenizer	Spring	Sept. 2, 1937	297	87	19	1	305	20	20	b/	297
40	A. A. Elsner	311	Sept. 17, 1937	458	109	28	12	281	155	26	b/	387
41	do.	149	Nov. 17, 1937	464	99	48	2	372	112	20	b/	445
42	Jack Duncan	77	Nov. 2, 1937	353	-	-	-	317	28	34	b/	-
44	Mrs. J. S. Simpson	200	--	390	100	18	17	329	30	19	44	326
46	A. A. Elsner	115	Nov. 17, 1937	327	86	27	-	305	43	21	b/	327
47	Mrs. L. P. Scheh	168	do.	313	66	26	14	244	61	26	b/	271
48	John Cauthen	185	Nov. 5, 1937	283	-	-	-	183	74	18	b/	-
49	A. M. James	154	Nov. 4, 1937	644	159	51	2	500	167	19	b/	607
50	Wiley Roberts	89	Oct. 28, 1937	330	98	16	9	348	18	18	b/	310
51	H. R. Harmon	241	Nov. 2, 1937	531	-	-	-	317	156	32	b/	-
52	G. C. Herring	54	do.	235	75	5	6	201	36	14	b/	208
53	E. H. Martin	173	do.	2,542	372	194	124	195	1,730	26	b/	1,730
54	J. E. Watson	113	Nov. 4, 1937	1,108	221	94	-	323	621	13	b/	938
56	Chas. Howard	116	Nov. 16, 1937	623	-	-	-	403	180	24	b/	-
101	J. W. Ireland	110	Nov. 10, 1937	324	-	-	-	329	11	15	b/	-
103	Ben M. Barker	353/	Nov. 16, 1937	360	75	41	-	305	79	15	b/	355
104	Chester Cohen	280	Nov. 8, 1937	258	64	26	-	275	11	16	b/	266
108	J. E. Tomerlin	250	--	343	86	27	5	336	11	18	31	327
109	W. I. Kuykendell	90	--	405	95	38	13	476	11	14	b/	394
110	M. O. Rogers	80	Nov. 4, 1937	326	-	-	-	262	55	21	b/	-
111	J. Bintliff	237	Nov. 16, 1937	716	144	52	3	244	43	78	276	572
112	W. I. Kuykendell	500	do.	477	90	59	-	372	133	12	b/	466
113	Otto Schwartz	312	Dec. 2, 1937	302	66	30	11	342	15	12	b/	289
114	E. O. Dodgen	325	Nov. 8, 1937	321	92	20	5	342	22	14	b/	312
115	S. B. Barber	243	Sept. 16, 1937	238	-	-	-	177	48	16	b/	-
116	Thomas Yoe	30	do.	261	67	2	27	183	48	18	b/	177
117	Bankers Life Co.	500/	--	1,976	80	66	531	171	610	600	b/	471
118	Wilmont Est.	300	--	259	-	-	-	262	20	10	b/	-
119	Rudolph Braune	19	Nov. 8, 1937	5,155	574	133	1,018	226	1,769	1,520	30	1,982
121	Louis Romeros	23	do.	647	49	20	158	293	148	82	46	203
122	M. J. H. Ferguson	231	Sept. 16, 1937	859	107	45	117	281	394	43	b/	453

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

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

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calculated)
123	San Antonio Stock Land Bank	507	Sept. 15, 1937	996	104	46	181	299	339	175	b/	449
124	M. G. Michaelis	250	Nov. 4, 1937	326	-	-	-	323	28	14	b/	-
125	Joe Stuart	500	do.	2,114	358	170	55	366	1,327	24	b/	1,596
126	--	127	Nov. 16, 1937	390	-	-	-	378	40	15	b/	-
201	Mrs. K. Michaelis	262	Nov. 15, 1937	371	84	16	33	299	58	26	b/	275
202	J. D. McCall	140	Oct. 28, 1937	165	-	-	-	146	11	15	b/	-
204	O. F. Bolton	390	Nov. 1, 1937	504	103	47	18	409	116	19	b/	443
205	--Durican	240	Oct. 30, 1937	289	-	-	-	268	29	18	b/	-
207	Mrs. D. M. Meeks	90	Oct. 26, 1937	136	34	9	6	122	11	16	b/	120
208	do.	Spring	do.	246	-	-	-	250	11	16	b/	-
209	C. C. Cook	185	Oct. 28, 1937	335	-	-	-	342	22	15	b/	-
210	P. J. Tenkyro	Spring	Oct. 29, 1937	260	-	-	-	256	11	22	b/	-
211	Ed. Bryant	Spring	Oct. 28, 1937	301	104	6	6	317	13	16	b/	284
213	--	Spring	Nov. 20, 1937	238	-	-	-	244	11	14	b/	-
214	M. J. Groos	100	Oct. 28, 1937	470	111	38	9	366	91	41	b/	433
216	Lou Hill	113	Oct. 29, 1937	341	79	28	16	366	18	20	b/	312
217	B. S. Garnett	252	Oct. 30, 1937	506	102	58	-	415	124	18	b/	496
218	H. O. Eggar	132	Nov. 1, 1937	317	82	15	20	305	35	15	b/	264
219	J. J. Ploch	292	do.	316	-	-	-	293	32	20	b/	-
220	H. R. Sites	313	Oct. 30, 1937	313	98	18	-	329	22	13	b/	321
221	Burnett Bros.	Spring	Feb. 23, 1938	398	126	10	14	397	18	23	b/	356
222	J. E. Bryant	172	Nov. 15, 1937	361	110	11	13	360	12	20	b/	322
223	do.	470	do.	288	54	26	20	268	18	24	b/	241
224	J. N. Byler	810	Nov. 2, 1937	326	-	-	-	293	43	16	b/	-
225	R. A. Byler	332	--	306	55	28	21	268	55	15	b/	252
226	--	Spring	Oct. 28, 1937	303	94	17	-	329	11	15	b/	306
227	A. J. Haley	300	do.	291	89	13	8	317	11	14	b/	278
228	-- Guber	125	do.	2,436	633	62	20	268	1,569	20	b/	1,838
229	John Farris	300	do.	356	82	41	-	354	48	11	b/	376
230	do.	26	do.	1,528	313	45	45	110	37	172	862	968
231	Jim Roberts	150	Nov. 19, 1937	410	80	50	4	390	65	19	b/	406
232	Mrs. M. Roberts	151	do.	1,380	222	144	5	329	830	17	b/	1,149
233	J. M. Keith	46	do.	95	160	11	20	537	14	26	b/	447
234	N. E. Hughes	170	Nov. 11, 1937	422	74	58	5	397	54	36	b/	421

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

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

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calculated)
235	J. W. Pyland	215	Nov. 11, 1937	433	-	-	-	378	58	26	b/	-
236	C. W. Burdett	260	Oct. 15, 1937	390	71	53	1	384	59	17	b/	398
237	J. R. Dobie	33	do.	211	-	-	-	207	15	13	b/	-
238	W. A. Leath	248	do.	399	66	56	6	390	59	20	b/	395
239	do.	104	do.	1,238	202	137	-	397	686	18	b/	1,070
240	Dan Nance	33	Oct. 19, 1937	604	144	18	60	299	24	211	b/	436
241	do.	311	Oct. 20, 1937	294	89	19	-	336	11	10	b/	302
243	B. D. Bell	200	do.	687	154	41	9	293	150	39	150	556
244	do.	112	do.	-	-	-	-	-	310	16	b/	-
245	W. H. Moses	84	Oct. 21, 1937	507	-	-	-	372	124	17	b/	-
246	N. W. Reed	65	do.	570	95	60	16	281	219	42	b/	482
247	Ed. Kasch	280	Nov. 13, 1937	298	74	28	3	329	18	13	b/	302
248	Dan Nance	280	Oct. 18, 1937	-	-	-	-	-	11	18	29	-
249	R. E. Clayton	129	Oct. 14, 1937	258	49	36	-	268	29	12	b/	273
250	Ed. Kasch	58	Nov. 13, 1937	307	-	-	-	305	14	14	b/	-
251	C. B. Crawford	200	do.	302	74	35	-	342	14	11	b/	326
252	H. K. Wilbern	-	--	298	48	32	27	342	11	12	b/	250
254	Fred Boyett	124	Oct. 15, 1937	255	-	-	-	195	35	29	b/	-
255	do.	58	do.	832	146	39	60	305	51	66	320	524
256	C. J. Crook	270	Oct. 14, 1937	165	-	-	-	165	11	9	b/	-
258	Thomas Dix	249	Oct. 18, 1937	418	-	-	-	275	124	11	b/	-
259	C. B. Crawford	500	Nov. 12, 1937	295	60	32	9	299	33	14	b/	280
260	do.	300	do.	354	67	49	-	372	40	15	b/	370
261	E. S. Allen	85	Nov. 13, 1937	376	-	-	-	384	25	16	b/	-
262	O. A. Stoepler	41	Oct. 15, 1937	-	-	-	-	-	15	22	b/	-
264	C. B. Crawford	300	Nov. 12, 1937	274	69	29	-	305	14	12	b/	293
265	G. L. Boozer	504	Oct. 15, 1937	255	-	-	-	275	11	9	b/	-
267	Frank Posey	360	Nov. 12, 1937	209	47	21	5	220	18	10	b/	303
269	Rudolph Wegner	280	Nov. 24, 1937	251	55	23	10	268	16	13	b/	234
270	Ermon Posey	300	Nov. 23, 1937	258	55	30	4	281	21	10	b/	258
271	Marvin Saddler	428	do.	471	100	42	5	293	162	13	b/	421
302	C. M. Decker	375	--	406	136	3	13	378	14	18	36	352
304	San Antonio Stock Land Bank	500	Oct. 2, 1937	-	-	-	-	-	212	50	b/	-
305	A. L. Schmeltekopf	42	Sept. 15, 1937	1,183	274	6	70	159	55	180	520	709

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b/ Nitrate less than 20 parts per million.

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

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calculated)
306	F. V. Homann	12	Nov. 10, 1937	813	-	-	-	311	231	129	22	-
307	Nicholas Thiele	372	Sept. 15, 1937	817	75	44	146	268	350	70	b/	367
311	Arch Allen	277	Oct. 2, 1937	370	67	29	30	293	74	26	b/	288
312	do.	26	do.	1,748	410	23	95	403	62	260	700	1,119
313	Col. E.H. Tarbutton	148	Oct. 22, 1937	230	65	12	6	214	25	17	b/	213
314	C. C. Mitchell	436	--	304	-	-	-	323	11	15	b/	-
315	Texas-New Mexico Pipe Line	500	Oct. 27, 1937	394	94	40	-	317	95	9	b/	400
316	R. A. Rowland	24	Oct. 2, 1937	294	-	-	-	293	24	13	b/	-
317	Mrs. Ed Schaffer	290	Sept. 15, 1937	705	154	-	95	293	241	71	b/	385
318	Antonio Delgado	26	Sept. 18, 1937	347	95	4	16	195	11	25	100	252
319	Fritz Homann	Spring	Nov. 10, 1937	453	107	6	51	317	54	40	39	294
320	M. D. Richardson	43	do.	448	116	3	31	183	144	28	36	302
321	W. W. Patterson	19	do.	840	180	16	92	397	133	116	108	515
322	do.	121	Sept. 15, 1937	415	-	-	-	360	44	37	b/	-
323	A. B. Rogers	125	--	236	58	17	9	226	22	19	b/	216
324	Otto Welge	290	Oct. 12, 1937	267	68	18	10	268	22	17	b/	246
327	F. N. Whaley	121	Sept. 15, 1937	264	-	-	-	244	22	21	b/	-
328	J. L. Sawyer	40	Sept. 14, 1937	309	69	12	19	189	20	20	76	223
329	Louis Woods	141	do.	225	57	19	5	171	25	35	b/	222
331	W. N. Goforth	Spring	Oct. 4, 1937	299	-	-	-	262	27	29	b/	-
338	H. W. Hageman	77	Sept. 14, 1937	637	162	-	71	305	132	122	b/	405
339	Mrs. Nora Dobbins	33	Sept. 18, 1937	2,047	437	21	149	195	80	424	840	1,178
340	Frank G. Avey	42	Sept. 14, 1937	568	158	16	15	232	113	102	50	460
341	Harry Neuse	11	Sept. 18, 1937	508	153	2	38	464	40	24	23	392
342	H. H. Butz	22	Sept. 14, 1937	462	128	10	24	293	44	62	50	361
345	Spring Lake Hotel	Spring	Oct. 4, 1937	335	90	15	17	268	22	51	b/	284
346	U. S. Dept. of Commerce	1,495	do.	221	41	13	21	134	47	30	b/	158
347	San Marcos Cemetery	280	Oct. 5, 1937	453	92	46	3	293	142	26	b/	419
348	R. K. Karnes	282	do.	344	-	-	-	275	73	10	b/	-
349	E. Brooks	176	do.	-	-	-	-	-	15	15	b/	-
350	Mrs. R. L. Jennings	560	Oct. 4, 1937	-	-	-	-	-	197	204	b/	-
353	J. A. Clayton	90	Sept. 27, 1937	359	-	-	-	311	40	30	b/	-
354	J. B. Netherland	250	Sept. 29, 1937	352	98	18	10	305	40	36	b/	321

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

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calculated)
355	Tom Ragsdale	143	Sept. 27, 1937	992	115	45	180	275	212	285	20	473
356	M. Cruze	23	do.	287	-	-	-	110	84	50	b/	-
358	W. P. Donaldson	210	do.	509	154	-	27	311	104	39	32	385
360	W. C. McCarty	240	--	244	60	15	15	250	18	13	b/	209
361	Hancock Life Ins. Co.	200	Sept. 27, 1937	348	76	26	17	256	59	44	b/	296
362	G. M. Jackson	21	Sept. 29, 1937	1,258	124	32	284	427	323	235	50	440
363	Mrs. Carrie H. Crawford	36	Oct. 1, 1937	421	-	-	-	427	15	32	b/	-
364	O. Green	234	Sept. 29, 1937	416	-	-	-	275	95	36	b/	-
365	Geo. Martindale	188	do.	546	117	52	5	384	153	30	b/	507
366	Hancock Life Ins. Co.	131	Sept. 27, 1937	367	-	-	-	305	40	36	b/	-
367	R. G. Johnson	229	Oct. 1, 1937	-	-	-	-	-	62	56	b/	-
368	W. C. Johnson	194	Sept. 27, 1937	-	-	-	-	-	88	54	120	-
370	Gustav Bierstedt	10	Nov. 11, 1937	947	106	25	208	415	228	160	b/	365
371	Ewell Jackson	200	Oct. 1, 1937	1,088	149	68	145	354	277	275	b/	652
372	Mrs. Lee Posey	187	Sept. 28, 1937	863	122	57	105	317	238	185	b/	540
373	W. N. Yates	360	do.	770	-	-	-	299	205	150	b/	-
374	E. L. Williamson	16	do.	485	121	12	40	305	106	56	b/	353
375	Bankers Life Ins. Co.	18	Oct. 1, 1937	467	75	21	59	183	77	90	55	273
376	David Ramsey	23	Nov. 9, 1937	969	149	23	156	299	220	185	89	469
377	Reinhold Bading	18	do.	644	150	11	67	378	148	62	20	422
*234a	N. E. Hughes	162	Apr. 19, 1938	405	75	55	-	384	62	24	b/	414
234b	M. A. Morris	185	do.	392	60	60	4	378	62	17	b/	397

a/ Sulphate less than 10 parts per million.

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# MAP OF HAYS COUNTY, TEXAS

## SHOWING LOCATIONS OF WATER WELLS LISTED

SCALE  
0 1 2 3 4 5 6 7 8 9 10 MILES

FIELD WORK BY  
B. A. BARNES  
BASE COMPILED FROM  
LAND OWNERSHIP MAP  
AND FIELD NOTES

TEXAS BOARD OF  
WATER ENGINEERS  
ASSISTED BY  
U. S. GEOLOGICAL SURVEY

-EXPLANATION-

- WELL WITH HAND PUMP, BUCKET OR SAUER
- ◊ WELL WITH WINDMILL OR SMALL POWER PUMP
- ⊗ WELL WITH PUMPING PLANT—5 HORSE POWER OR LARGER
- UNUSED WELL
- ◆ FLOWING WELL
- ◇ WELL DRILLED TO TEST FOR OIL & GAS
- SPRING
- IMPROVED ROAD
- - - UNIMPROVED ROAD
- TRAIL
- △ TRIANGULATION STATION
- ⊞ HILLS & PEAKS
- ⊞ STATE HIGHWAY
- ⊞ U. S. HIGHWAY







