

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer Travis Peak Fm

Field No. _____
 Owner's Well No. #1

State Well No. 40-16-401
 County McLennan Co.

1. Location: 1/4, 1/4 Sec., Block Survey
Corner of Pine & Reagan Sts. opp. the City Hall

2. Owner: City of West Address: West, Texas

3. Elevation of _____ is 648 ft. above sea level, determined by Elev #402

4. Drilled: 1894; Dug, Cable Tool, Rotary,

5. Depth: Rept. 2010 ft. Meas. _____ ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Mfr. _____ Type Turbine
 No. Stages _____, Bowls Diam. _____ in., Setting _____ ft.
 Column Diam. _____ in., Length Tailpipe _____ ft.

8. Motor: Fuel elect Make & Model _____ HP. 25

9. Yield: Flow _____ gpm, Pump 225 gpm, Meas. Rept, Est. _____

10. Performance Test: Date _____ Length of Test 9 hrs Made by _____
 Static Level _____ ft. Pumping Level _____ ft. Drawdown 159 ft.
 Production _____ gpm Specific Capacity _____ gpm/ft.

CASING & BLANK PIPE			
Cemented From _____ ft. to _____ ft.		Setting, ft.	
Diam. (in.)	Type	from	to
12"		0'	156'
9 5/8"		156'	1100'
5 5/8"		1100'	1682'

11. Water Level: 66 ft. Rept 12-30-1942 above 15d which is _____ ft. above surface.
30' ft. Rept 1926 below 15d which is _____ ft. above surface.
54' ft. Rept 2-14-1932 above 15d which is _____ ft. above surface.
66.53 ft. Rept 5-27-42 below 15d which is _____ ft. above surface.
88.89 ft. Rept 1-8-43 below 15d which is _____ ft. above surface.

12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflooding, Observation, Not Used abandon since 1954

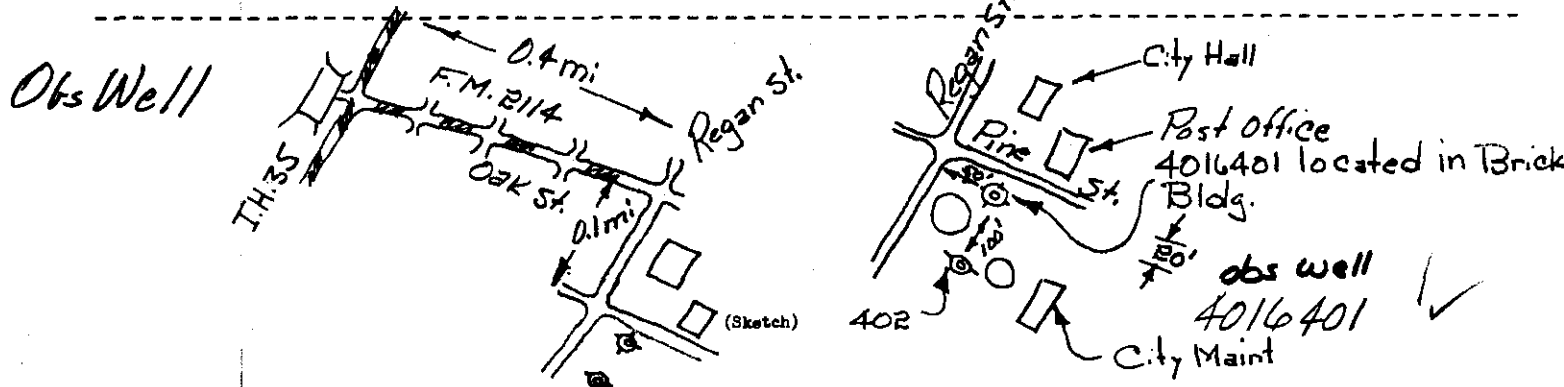
13. Quality: (Remarks on taste, odor, color, etc.) 1-6-41 TSHO FILE V
 ? Temp. 104°F, Date sampled for analysis 4-2-49 Laboratory U.S.G.S.
 Temp. 104°F, Date sampled for analysis 3-21-49 Laboratory U.S.G.S.
 Temp. _____ °F, Date sampled for analysis 1-8-43 Laboratory U.S.G.S.

WELL SCREEN			
Screen Openings		Setting, ft.	
Diam. (in.)	Type	from	to

14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log, Formation Samples, Pumping Test,

15. Record by: A.R. Smith Date 21 Oct 1964
 Source of Data U.S.G.S. schedule & John Kubala

16. Remarks: See U.S.G.S. 1943, 49 schedules
Sketch on schedule 40-16-402
City Sec. States well was abandoned because of excess Fluorides (2.8) and Sulphates (949) Chem analysis (4-28-55)



40-16-401

Chem. analysis- 3-21-49
SiO₂-18 CO₃-0
Ca-14 HCO₃-418
Mg-7.4 SO₄-239
Na-270 Cl-46
K-6.4 F-1.8
Fe-0.10 NO₃-0.2
pH-7.8 Hardness-66
TDS-805 sp. c. @ 25°C-1250

UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

ANALYTICAL STATEMENT

Field No. 197 [Parts per million] McLennan County 1949

Location <u>West, Texas</u>	Date of collection <u>Mar. 21</u>		
Source <u>collected at hydrant</u>	Use <u>FB</u>	SiO ₂	18
<u>at pump, composite of 2 wells</u>	Temperature	Fe	0.10 <u>u</u>
Owner: <u>City of West</u>	Color	pH	7.8
<u>W: 136' below surface,</u>	Suspended matter	Ca	14
<u>Temp.: 104° F.</u>	Hardness as CaCO ₃	Mg	7.4
<u>Send analysis to Ft. Worth</u>	N.C.	Na	270
	Total	K	6.4
	Ignition loss	CO ₂	0
	Dissolved solids	HCO ₃	418
	Specific conductance at 25°C	SO ₄	239
	(micromhos)	Cl	46
	Boron (B)	F	1.8
Chemist <u>D. E. Weaver</u>	As/Ppt. Fe	NO ₃	0.2
Lab. No. <u>23116</u>	Fe in soln.	Sum	802
Collector <u>G. J. Stumm</u>			

155
20
D

KEY PUNCHED

MOLESBMAN COUNTY

ST 40-16-401

Log of West well No. 1. Commenced May 17, 1921; finished May 30, 1921. (1 mile north of Bosqueville.)

	Thickness (feet)	Depth (feet)
Del Rio:		
Red soil - - - - -	3	3
Red graveled clay-	12	15
Yellow clay - - - - -	10	25
Dark blue shale - - - - -	60	85
Georgetown:		
Gray lime- - - - -	60	145
White lime - - - - -	60	205
Gray lime- - - - -	10	215
Gumbo- - - - -	5	220
White lime - - - - -	30	250
Hard, white lime - - - - -	30	280
Dark blue shale - - - - -	5	285
Dark sand, water - - - - -	5	290
White lime, hard - - - - -	40	330
Edwards to Walnuts:		
White lime - - - - -	55	385
Blue shale - - - - -	10	395
White lime - - - - -	20	415
Gray lime- - - - -	15	430
White lime - - - - -	20	450
Blue shale - - - - -	15	465
Gray shale - - - - -	45	510
Blue shale - - - - -	10	520
Shelly, blue shale - - - - -	10	530
Gray lime- - - - -	10	540
Blue shale and lime - - - - -	10	550
Glenrose:		
White lime- - - - -	15	565
Blue shale and lime - - - - -	30	595
Shale with lime - - - - -	7.5	602.5

Bureau of Economic Geology, University of Texas, Bulletin No. 2340, Page 118.

490-16-4-01

TEXAS STATE DEPARTMENT OF HEALTH LABORATORIES
INDUSTRIAL HYGIENE AND CHEMICAL LABORATORY
WATER DIVISION
AUSTIN, TEXAS

Laboratory number 1-1-3 Sample number 1 Received January 8, 1941
Town West County McLennan Requested by J. L. Robinson, Field Eng.
Source Well Formation Sand Age 46 Depth 2010
Ownership City Treatment Raw Water level Pumpage rate Normal
Collected by John Kubala At Well 2:30 P.M. On January 6, 1941

CHEMICAL ANALYSIS

KEY PUNCHED

	<u>pH</u>	<u>8.9</u>	<u>Color</u>		
Total solids	<u>P.P.M.</u> 535	Calcium	<u>P.P.M.</u> 10	Carbonate	<u>P.P.M.</u> 18
Silica residue	<u>16</u>	Magnesium	<u>4</u>	Bicarbonate	<u>427</u>
As CaCO ₃ :-		Iron	<u>0.03</u>	Sulphate	<u>146</u>
P. alkalinity	<u>30</u>	Manganese less than	<u>0.03</u>	Chloride	<u>45</u>
Total alkalinity	<u>350</u>	Sodium (Calc.)	<u>235</u>	Fluoride	<u>0.8</u>
Total hardness	<u>42</u>			Nitrate	<u>2.</u>

HYPOTHETICAL COMBINATION

	<u>P.P.M.</u>	<u>G.P.G.</u>
Calcium carbonate	<u>25</u>	<u>1.5</u>
Manganese carbonate	<u>4</u>	<u>0.2</u>
Magnesium bicarbonate	<u>15</u>	<u>1.1</u>
Sodium bicarbonate	<u>535</u>	<u>37.2</u>
Sodium sulphate	<u>216</u>	<u>12.5</u>
Sodium chloride	<u>76</u>	<u>4.7</u>

REMARKS

J. E. L. and A. B. P.

ANALYST

CHIEF CHEMIST

DIRECTOR OF LABORATORY

January 27, 1941

DATE REPORTED

9-269
(July 1939)

UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

4

ANALYTICAL STATEMENT

(Parts per million)

McLennan County 1943

ST-516401

Location At West, Texas. Use Public Supply Date Jan. 8

Source Well 2,010 ft. deep: Color _____ SiO_2 14

41 located opposite city hall Hardness (calc.) 73 Fe 0.00

owner; City of West Ignition loss 22 Ca 16

Total dissolved solids 795 Mg 8.0

$K \times 10^3$ at 25°C. _____ Na 269 calc

pH 8.2 K 4.0

_____ CO_2 0

_____ HCO_3 430

_____ SO_4 234

_____ Cl 46

_____ F 0.6

_____ NO_3 0.2

KEY PUNCHED

Chemist P. A. Witt Sum 804

Texas Lab. No. 4599

W. R. Lab. No. _____

Collector W. O. George

16-21877

155
10
11