



GORDON LAB, INC.

925 PATTON ROAD • P. O. BOX 605 • GREAT BEND, KANSAS 67530

WATER ANALYSIS

DATE Nov. 6, 1978TO Walters Drilling CompanyAttn: Walt ZimmermanBox 751 Great Bend, Kansas 675301. Stiawalt #12. Stiawalt #3

	1.	2. <i>W. H No 3</i>	3.	
Specific Gravity	1.026			Milligrams per liter
Chlorides	17,200	111,100		Milligrams per liter
Calcium	1,600	8,200		Milligrams per liter
Magnesium	500	1,200		Milligrams per liter
Sulfates	1,290	1,090		Milligrams per liter
Bicarbonates	420			Milligrams per liter
Iron	15	3,100		Milligrams per liter
Hydrogen Sulfide	0	0		Milligrams per liter
Barium	0	0		Milligrams per liter
pH	7.1	5.0		
Sulfate Reducing Bacteria	positive	none		

The Stiawalt #3 is considerably different than the other wells. The high iron content indicates that this could be from a prior workover treatment.

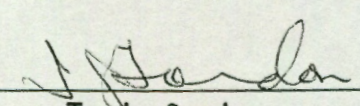
cc: Wichita ✓
Don Froelich
Larry Benedict

RESPECTFULLY SUBMITTED

LABORATORY ANALYST

Manning/Medlock

BY


T. J. Gordon

To convert to parts per million, divide by specific gravity.

NOV - 7 1978



GORDON LAB, INC.

925 PATTON ROAD • P. O. BOX 605 • GREAT BEND, KANSAS 67530

WATER ANALYSIS

DATE May 21, 1979

TO Walters Drilling Co.,

Walt Zimmerman

Box 751 Great Bend, Kansas 67530

*5/23/79 fluid level
Gordon Lab made mistake
on well #2
#2 below should be #3 analysis
#2 does not make any
water. No test
on #2.*

- 1. Stiwalt #1
- 2. Stiwalt #2
- 3. Stiwalt #3

	1.	<u>#3</u> 2.	3.	#2 - no water
Specific Gravity	1.026	1.197	1.026	Milligrams per liter
Chlorides	17,700	161,100	18,700	Milligrams per liter
Calcium	1,890	5,500	1,900	Milligrams per liter
Magnesium	510	11,500	800	Milligrams per liter
Sulfates	2,350	1,180	2,060	Milligrams per liter
Bicarbonates	171	159	420	Milligrams per liter
Iron	0	200	2	Milligrams per liter
Hydrogen Sulfide	10	0	0	Milligrams per liter
Barium	0	0	0	Milligrams per liter
pH	7.4	5.0	7.2	
Sulfate Reducing Bacteria	positive	none	none	

The data on the #2 well was given previously over the telephone. The sample shows the presence of a foreign water.

*5/22 Fluid level test St. well #2 = 60 fluid in hole while pumping. Presentish
of fluid level about the same. Well producing from Ft Scott Making
so little water that have difficulty getting a sample for analysis.
No casing leak. Water in Tubing Annulus.*

cc: Wichitax
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WATER ANALYSIS

DATE May 24, 1979TO Walters Drilling Co.Walt ZimmermanBox 751 Great Bend, Kansas 67530Stlawalt #3

	1.	2.	3.	
Specific Gravity	<u>1.194</u>	<u> </u>	<u> </u>	Milligrams per liter
Chlorides	<u>173,000</u>	<u> </u>	<u> </u>	Milligrams per liter
Calcium	<u>5,400</u>	<u> </u>	<u> </u>	Milligrams per liter
Magnesium	<u>11,700</u>	<u> </u>	<u> </u>	Milligrams per liter
Sulfates	<u>1,090</u>	<u> </u>	<u> </u>	Milligrams per liter
Bicarbonates	<u>146</u>	<u> </u>	<u> </u>	Milligrams per liter
Iron	<u>89</u>	<u> </u>	<u> </u>	Milligrams per liter
Hydrogen Sulfide	<u>0</u>	<u> </u>	<u> </u>	Milligrams per liter
Barium	<u>0</u>	<u> </u>	<u> </u>	Milligrams per liter
pH	<u>5.5</u>	<u> </u>	<u> </u>	
Sulfate Reducing Bacteria	<u> </u>	<u> </u>	<u> </u>	

This sample continues to show the presence of a foreign water. Our report of May 21, 1979 listed the #3 well as the #2. This should be reversed.

cc: Wichita ^X
LABORATORY ANALYST

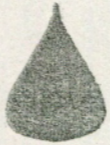
Manning

RESPECTFULLY SUBMITTED

BY T. J. Gordon

T. J. Gordon

To convert to parts per million, divide by specific gravity.



GORDON LAB, INC.

925 PATTON ROAD • P. O. BOX 605 • GREAT BEND, KANSAS 67530

WATER ANALYSIS

DATE June 7, 1979

TO Walters Drilling Co.

Walt Zimmerman Box 751

Great Bend, Kansas 67530

Stiwalt #3

	1.	2.	3.	
Specific Gravity	<u>1.194</u>	_____	_____	Milligrams per liter
Chlorides	<u>172,200</u>	_____	_____	Milligrams per liter
Calcium	<u>5,600</u>	_____	_____	Milligrams per liter
Magnesium	<u>11,300</u>	_____	_____	Milligrams per liter
Sulfates	<u>1,220</u>	_____	_____	Milligrams per liter
Bicarbonates	<u>150</u>	_____	_____	Milligrams per liter
Iron	<u>62</u>	_____	_____	Milligrams per liter
Hydrogen Sulfide	<u>0</u>	_____	_____	Milligrams per liter
Barium	<u>0</u>	_____	_____	Milligrams per liter
pH	<u>5.4</u>	_____	_____	
Sulfate Reducing Bacteria	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	

There is no change in this water from previous analyses.

Sample taken by MJS & RFW. Took 35 min to fill 5g. l can pumping against back pressure = 3.3 BOPD + 27% W.

cc: Wichita _____
LABORATORY ANALYST

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Manning

BY *T. J. Gordon*
T. J. Gordon

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GORDON LAB, INC.

925 PATTON ROAD • P. O. BOX 605 • GREAT BEND, KANSAS 67530

WATER ANALYSIS

DATE June 12, 1979

TO Walters Drilling Co.

Walt Zimmerman

Box 751 Great Bend, Kansas 67530

Stiwalt #3

	1.	2.	3.	
Specific Gravity	<u>1.193</u>	_____	_____	Milligrams per liter
Chlorides	<u>177,300</u>	_____	_____	Milligrams per liter
Calcium	<u>5,800</u>	_____	_____	Milligrams per liter
Magnesium	<u>11,100</u>	_____	_____	Milligrams per liter
Sulfates	<u>1,250</u>	_____	_____	Milligrams per liter
Bicarbonates	<u>220</u>	_____	_____	Milligrams per liter
Iron	<u>68</u>	_____	_____	Milligrams per liter
Hydrogen Sulfide	<u>0</u>	_____	_____	Milligrams per liter
Barium	<u>0</u>	_____	_____	Milligrams per liter
pH	<u>5.0</u>	_____	_____	
Sulfate Reducing Bacteria	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	

cc: Wichita

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WATER ANALYSIS

DATE June 21, 1979

TO Walters Drilling Co.

Walt Zimmerman

Box 751 Great Bend, Kansas 67530

Stiawalt #3

	1.	2.	3.	
Specific Gravity	<u>1.193</u>	<u> </u>	<u> </u>	Milligrams per liter
Chlorides	<u>178,800</u>	<u> </u>	<u> </u>	Milligrams per liter
Calcium	<u>5,700</u>	<u> </u>	<u> </u>	Milligrams per liter
Magnesium	<u>11,300</u>	<u> </u>	<u> </u>	Milligrams per liter
Sulfates	<u>1,250</u>	<u> </u>	<u> </u>	Milligrams per liter
Bicarbonates	<u>225</u>	<u> </u>	<u> </u>	Milligrams per liter
Iron	<u>80</u>	<u> </u>	<u> </u>	Milligrams per liter
Hydrogen Sulfide	<u>0</u>	<u> </u>	<u> </u>	Milligrams per liter
Barium	<u>0</u>	<u> </u>	<u> </u>	Milligrams per liter
pH	<u>5.3</u>	<u> </u>	<u> </u>	
Sulfate Reducing Bacteria	<u> </u>	<u> </u>	<u> </u>	
	<u> </u>	<u> </u>	<u> </u>	
	<u> </u>	<u> </u>	<u> </u>	

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