

ProKem

WATER ANALYSIS REPORT

SAMPL Oil Co. : Mewbourne Lease : Layla 27 Well No.: SWD Location: Attention:	Date Sampled : 07-April-2017 Date Analyzed: 13-April-2017 Lab ID Number: Apr1817.002- 4 Salesperson : File Name : Apr1817.002
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ANALYSIS

- | | | |
|------------------------------|-------|--|
| 1. Ph | 6.300 | |
| 2. Specific Gravity 60/60 F. | 1.118 | |
| 3. CACO3 Saturation Index | | |

@ 80F
@140F

0.182 Mild
1.102 Moderate

Dissolved Gasses

- | | | |
|---------------------|----------------|--|
| 4. Hydrogen Sulfide | 0 | |
| 5. Carbon Dioxide | 100 | |
| 6. Dissolved Oxygen | Not Determined | |

MG/L. EQ. WT. *MEQ/L

Cations

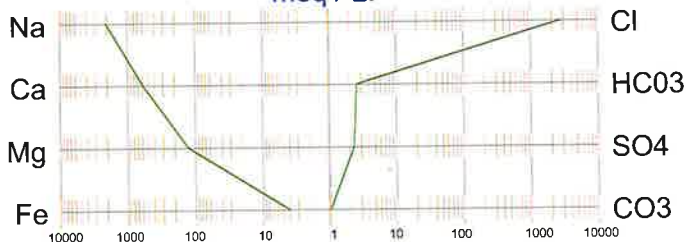
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|------------------------------|----------|----------|----------|
| 7. Calcium (Ca++) | 11,478 | / 20.1 = | 571.04 |
| 8. Magnesium (Mg++) | 1,505 | / 12.2 = | 123.36 |
| 9. Sodium (Na+) (Calculated) | 45,685 | / 23.0 = | 1,986.30 |
| 10. Barium (Ba++) | Below 10 | | |

Anions

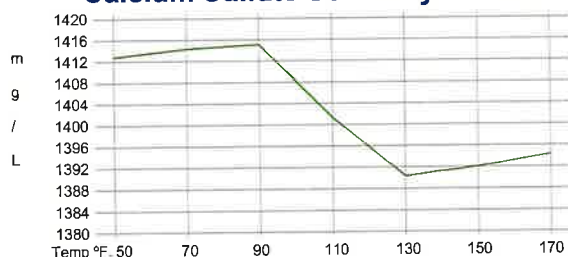
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|--------------------------------------|----------------|--------------|----------|
| 11. Hydroxyl (OH-) | 0 | / 17.0 = | 0.00 |
| 12. Carbonate (CO3=) | 0 | / 30.0 = | 0.00 |
| 13. Bicarbonate (HCO3-) | 151 | / 61.1 = | 2.47 |
| 14. Sulfate (SO4=) | 108 | / 48.8 = | 2.21 |
| 15. Chloride (Cl-) | 94,979 | / 35.5 = | 2,675.46 |
| 16. Total Dissolved Solids | 153,906 | | |
| 17. Total Iron (Fe) | 71.50 | / 18.2 = | 3.93 |
| 18. Manganese (Mn++) | Not Determined | | |
| 19. Total Hardness as CaCO3 | 34,861 | | |
| 20. Resistivity @ 75 F. (Calculated) | 0.034 | Ohm · meters | |

LOGARITHMIC WATER PATTERN

*meq / L.



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	2.47		81.04	200
CaSO4	2.21		68.07	151
CaCl2	566.36		55.50	31,433
Mg(HCO3)2	0.00		73.17	0
MgSO4	0.00		60.19	0
MgCl2	123.36		47.62	5,874
NaHCO3	0.00		84.00	0
NaSO4	0.00		71.03	0
NaCl	1,985.74		58.46	116,087

* milliequivalents per Liter

Tony Abernathy, Analyst