

PETROLITE

WATER ANALYSIS REPORT

Company : MERIDIAN OIL CO.
Address : ARTESIA, NEW MEXICO
Lease : BENSON 3
Well : #1
Sample Pt. : TANK

Date : 04/27/93
Date Sampled : 04/27/93
Analysis No. : 4401

ANALYSIS		mg/L	* meq/L
1.	pH	6.4	
2.	H2S	5 PPM	
3.	Specific Gravity	1.015	
4.	Total Dissolved Solids	17766.1	
5.	Suspended Solids	NR	
6.	Dissolved Oxygen	NR	
7.	Dissolved CO2	NR	
8.	Oil In Water	NR	
9.	Phenolphthalein Alkalinity (CaCO3)		
10.	Methyl Orange Alkalinity (CaCO3)		
11.	Bicarbonate	HCO3 73.0	HCO3 1.2
12.	Chloride	Cl 10650.0	Cl 300.4
13.	Sulfate	SO4 750.0	SO4 15.6
14.	Calcium	Ca 1640.0	Ca 81.8
15.	Magnesium	Mg 851.2	Mg 70.0
16.	Sodium (calculated)	Na 3802.0	Na 165.4
17.	Iron	Fe NR	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO3)	7600.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
82 *Ca <----- *HCO3	Ca(HCO3)2	81.0	97
----- /----->	CaSO4	68.1	1063
70 *Mg -----> *SO4	CaCl2	55.5	3608
----- <----- /	Mg(HCO3)2	73.2	
165 *Na -----> *Cl	MgSO4	60.2	
	MgCl2	47.6	3334
	NaHCO3	81.0	
	Na2SO4	71.0	
	NaCl	58.4	9665

Saturation Values Dist. Water 30 C
 CaCO3 13 mg/L
 CaSO4 * 2H2O 2090 mg/L
 BaSO4 2.4 mg/L

REMARKS:

----- S. HOLLINGER / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT