



Petrolite Corporation
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Artesia, NM 88210-2041

TRETOLITE DIVISION

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WATER ANALYSIS REPORT

Company : MERIDIAN OIL INC
Address : ARTESIA, NEW MEXICO
Field : West Red Tank Delaware
Sample Pt. : WELLHEAD

Date : 02/25/94
Date Sampled : 02/25/94
Analysis No. : 1140

ANALYSIS		mg/L	* meq/L
1.	pH	6.9	
2.	H ₂ S	<1 PPM	
3.	Specific Gravity	1.170	
4.	Total Dissolved Solids	278090.9	
5.	Suspended Solids	NR	
6.	Dissolved Oxygen	NR	
7.	Dissolved CO ₂	400 PPM	
8.	Oil In Water	NR	
9.	Phenolphthalein Alkalinity (CaCO ₃)		
10.	Methyl Orange Alkalinity (CaCO ₃)	70.0	
11.	Bicarbonate	HCO ₃ 85.4	HCO ₃ 1.4
12.	Chloride	Cl 171419.5	Cl 4835.5
13.	Sulfate	SO ₄ 200.0	SO ₄ 4.2
14.	Calcium	Ca 14725.4	Ca 734.8
15.	Magnesium	Mg 3131.1	Mg 257.6
16.	Sodium (calculated)	Na 88481.5	Na 3848.7
17.	Iron	Fe 48.0	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO ₃)	49664.7	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
735 *Ca <----- *HCO ₃	Ca(HCO ₃) ₂	81.0 1.4	113
----- /----->	CaSO ₄	68.1 4.2	283
258 *Mg -----> *SO ₄	CaCl ₂	55.5 729.2	40465
----- <----- /	Mg(HCO ₃) ₂	73.2	
3849 *Na -----> *Cl	MgSO ₄	60.2	
	MgCl ₂	47.6 257.6	12263
Saturation Values Dist. Water 20 C	NaHCO ₃	84.0	
CaCO ₃ 13 mg/L	Na ₂ SO ₄	71.0	
CaSO ₄ * 2H ₂ O 2090 mg/L	NaCl	58.4 3848.7	224918
BaSO ₄ 2.4 mg/L			

REMARKS:
----- S. HOLLINGER / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
TOM WILTON

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