

PETROLITE

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Petrolite Corporation
510 West Texas
Artesia, NM 88210-2041

TRETOLITE DIVISION

APR 4 12 55 AM '94
BUREAU
HOUSTON, TX

APR 5 10 51 AM '94

(505) 746-3588
Fax (505) 746-3580

Reply to:
P.O. Box FF
Artesia, NM
88211-7531

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : SWEENEY FED.
Well : 1
Sample Pt. : WATER TANK

Date : 4/1/94
Date Sampled : 3/30/94
Analysis No. : 670

ANALYSIS		mg/L	* meq/L
-----		----	-----
1.	pH	5.3	
2.	H2S	NEG	
3.	Specific Gravity	1.180	
4.	Total Dissolved Solids	294249.9	
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 134.0	HCO3 2.2
12.	Chloride	Cl 183180.0	Cl 5167.3
13.	Sulfate	SO4 50.0	SO4 1.0
14.	Calcium	Ca 27800.0	Ca 1387.2
15.	Magnesium	Mg 4366.1	Mg 359.2
16.	Sodium (calculated)	Na 78719.8	Na 3424.1
17.	Iron	Fe NR	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO3)	87400.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound				Equiv wt X meq/L =		mg/L	
+-----+				+-----+				+-----+			
1387	*Ca	<-----	*HCO3	2	Ca (HCO3) 2	81.0	2.2		178		
-----	/	----->		-----	CaSO4	68.1	1.0		71		
359	*Mg	----->	*SO4	1	CaCl2	55.5	1384.0		76797		
-----		<-----/		-----	Mg (HCO3) 2	73.2					
3424	*Na	----->	*Cl	5167	MgSO4	60.2					
+-----+				+-----+				+-----+			
Saturation Values Dist. Water 20 C											
CaCO3			13 mg/L		NaHCO3	84.0					
CaSO4	*	2H2O	2090 mg/L		Na2SO4	71.0					
BaSO4			2.4 mg/L		NaCl	58.4	3424.1		200104		

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER