



Petrolite Corporation
510 West Texas
Artesia, NM 88210-2041

TRETOLITE DIVISION

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WATER ANALYSIS REPORT

Company : POGO PRODUCING
Address : MIDLAND, TX
Lease : RT 35
Well : #1
Sample Pt. : WELLHEAD

Date : 3/17/94
Date Sampled : 3/16/94
Analysis No. : 621

ANALYSIS	mg/L	* meq/L
1. pH	6.1	
2. H2S	NEG	
3. Specific Gravity	1.165	
4. Total Dissolved Solids	239209.0	
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 122.0	HCO3 2.0
12. Chloride	Cl 145905.0	Cl 4115.8
13. Sulfate	SO4 50.0	SO4 1.0
14. Calcium	Ca 7040.0	Ca 351.3
15. Magnesium	Mg 587.6	Mg 48.3
16. Sodium (calculated)	Na 85504.4	Na 3719.2
17. Iron	Fe NR	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO3)	20000.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
48 *Mg	CaSO4	63.2	71
3719 *Na	CaCl2	55.5	19325
	Mg(HCO3)2	73.2	
	MgSO4	60.2	
	MgCl2	47.6	2301
	NaHCO3	84.0	
	Na2SO4	71.0	
	NaCl	58.4	3719.2 217350

Saturation Values Dist. Water 20 C	
CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

RECEIVED

JUN 18 1977

OCU HUBBARD
OFFICE