

TRETOLITE

Chemicals and Services

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WATER ANALYSIS REPORT

Company : PHILLIPS PETROLEUM
Address : LOCO HILLS, N. M.
Lease : MOLLY STATE
Well :
Sample Pt. : BATT.

Date : 3-10-92
Date Sampled : 3-10-92
Analysis No. : 238

ANALYSIS		mg/L	* meq/L
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1.	pH	5.9	
2.	H2S	2 PPM	
3.	Specific Gravity	1.200	
4.	Total Dissolved Solids	270158.0	
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)	46.0	
11.	Bicarbonate	HCO3 56.1	HCO3 0.9
12.	Chloride	Cl 168493.8	Cl 4753.0
13.	Sulfate	SO4 200.0	SO4 4.2
14.	Calcium	Ca 34276.4	Ca 1710.4
15.	Magnesium	Mg 3364.5	Mg 276.8
16.	Sodium (calculated)	Na 63702.6	Na 2770.9
17.	Iron	Fe 49.5	
18.	Barium	Ba 15.0	
19.	Strontium	Sr 0.0	
20.	Total Hardness (CaCO3)	99449.4	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt	X meq/L	= mg/L
+-----+				-----			
1710	*Ca <-----	*HCO3	1	Ca(HCO3)2	81.0	0.9	75
	/----->			CaSO4	68.1	4.2	283
277	*Mg ----->	*SO4	4	CaCl2	55.5	1705.3	94628
	<-----/			Mg(HCO3)2	73.2		
2771	*Na ----->	*Cl	4753	MgSO4	60.2		
				MgCl2	47.6	276.8	13177
Saturation Values Dist. Water 20 C				NaHCO3	84.0		
CaCO3		13 mg/L		Na2SO4	71.0		
CaSO4 * 2H2O		2090 mg/L		NaCl	58.4	2770.9	161931
BaSO4		2.4 mg/L					

REMARKS: PAM BORING / LENDELL HAWKINS / JEFF HARGROVE
----- S. HOLLINGER / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
ROZANNE JOHNSON