

TRETOLITE®

Chemicals and Services

PETROLITE

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WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NEW MEXICO
Lease : ADELINE
Well : #1
Sample Pt. : WELLHEAD

Date : 10/07/92
Date Sampled : 10/06/92
Analysis No. : 197

ANALYSIS		mg/L	* meq/L	
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1.	pH	5.8		
2.	H2S	1 PPM		
3.	Specific Gravity	1.165		
4.	Total Dissolved Solids	264107.7		
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 48.0	HCO3	0.8
12.	Chloride	Cl 163584.0	Cl	4614.5
13.	Sulfate	SO4 150.0	SO4	3.1
14.	Calcium	Ca 21280.0	Ca	1061.9
15.	Magnesium	Mg 3050.2	Mg	250.9
16.	Sodium (calculated)	Na 75995.5	Na	3305.6
17.	Iron	Fe 0.0		
18.	Barium	Ba 0.0		
19.	Strontium	Sr 0.0		
20.	Total Hardness (CaCO3)	65700.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound Equiv wt X meq/L = mg/L			
+-----+				-----			
1062	*Ca <-----	*HCO3	1	Ca (HCO3) 2	81.0	0.8	64
-----	/----->		-----	CaSO4	68.1	3.1	213
251	*Mg ----->	*SO4	3	CaCl2	55.5	1058.0	58707
-----	<----->	/	-----	Mg (HCO3) 2	73.2		
3306	*Na ----->	*Cl	4614	MgSO4	60.2		
+-----+				-----			
Saturation Values Dist. Water 20 C				MgCl2	47.6	250.9	11946
CaCO3							

REMARKS:

----- L. MALLET / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT