

TRETOLITE DIVISION

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 Reply to:
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 Artesia, NM
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WATER ANALYSIS REPORT

Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : ANEMONE "ANE" FED.
 Well : #3
 Sample Pt. : WELLHEAD

Date : 11/12/94
 Date Sampled : 11/11/94
 Analysis No. : 932

ANALYSIS		mg/L	* meq/L	
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1.	pH	7.5		
2.	H2S	190		
3.	Specific Gravity	1.000		
4.	Total Dissolved Solids	22372.9		
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 8906.0	HCO3	146.0
12.	Chloride	Cl 4473.0	Cl	126.2
13.	Sulfate	SO4 2125.0	SO4	44.3
14.	Calcium	Ca 1880.0	Ca	93.8
15.	Magnesium	Mg 147.0	Mg	12.1
16.	Sodium (calculated)	Na 4839.4	Na	210.5
17.	Iron	Fe 2.5		
18.	Barium	Ba NR		
19.	Strontium	Sr NR		
20.	Total Hardness (CaCO3)	5300.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt X meq/L	= mg/L
+-----+				-----		
94	*Ca <-----	*HCO3	146	Ca(HCO3)2	81.0	93.8
	/----->			CaSO4	68.1	
12	*Mg ----->	*SO4	44	CaCl2	55.5	
	<-----/			Mg(HCO3)2	73.2	12.1
211	*Na ----->	*Cl	126	MgSO4	60.2	
				MgCl2	47.6	
+-----+				-----		
Saturation Values Dist. Water 20 C				NaHCO3	84.0	40.1
CaCO3 13 mg/L				Na2SO4	71.0	44.3
CaSO4 * 2H2O 2090 mg/L				NaCl	58.4	126.2
BaSO4 2.4 mg/L						7374

REMARKS: KCL =0.0

Petrolite Oilfield Chemicals Group

 Respectfully submitted,
 A. MILLER