

TRETOLITE

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 Artesia, NM
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 WATER ANALYSIS REPORT

Company : YATES PETROLEUM Date : 01/08/96
 Address : ARTESIA, NM Date Sampled : 01/08/96
 Lease : FOUNDATION "ALO" FED COMM. Analysis No. : 0197
 Well : #1
 Sample Pt. : TANK

ANALYSIS	mg/L	* meq/L
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1. pH	6.6	
2. H2S	0 PPM	
3. Specific Gravity	1.000	
4. Total Dissolved Solids	10191.7	
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	256.0	HCO3 4.2
12. Chloride Cl	5964.0	Cl 168.2
13. Sulfate SO4	125.0	SO4 2.6
14. Calcium Ca	1200.0	Ca 59.9
15. Magnesium Mg	0.8	Mg 0.1
16. Sodium (calculated) Na	2645.9	Na 115.1
17. Iron Fe	NR	
18. Barium Ba	NR	
19. Strontium Sr	NR	
20. Total Hardness (CaCO3)	3000.0	

 PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
+-----+			
60 *Ca <----- *HCO3	Ca(HCO3)2	81.0 4.2	340
/----->	CaSO4	68.1 2.6	177
0 *Mg -----> *SO4	CaCl2	55.5 53.1	2945
<-----/	Mg(HCO3)2	73.2	
115 *Na -----> *Cl	MgSO4	60.2	
+-----+	MgCl2	47.6 0.1	3
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4 115.1	6726
BaSO4 2.4 mg/L			

 REMARKS: '
 ----- ANDY MILLER

Petrolite Oilfield Chemicals Group

 Respectfully submitted,
 ANDY MILLER