

TRETOLITE DMSION

 (505) 746-3588
 Fax (505) 746-3580

 Reply to:
 P.O. Box FF
 Artesia, NM
 88211-7531

WATER ANALYSIS REPORT

 Company : YATES PETROLEUM
 Address : ARTESIA, NM
 Lease : ANEMONE "ANE" FED.
 Well : #2
 Sample Pt. : WELLHEAD

 Date : 11/12/94
 Date Sampled : 11/11/94
 Analysis No. : 933

ANALYSIS		mg/L	meq/L
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1.	pH	7.6	
2.	H ₂ S	200	
3.	Specific Gravity	1.000	
4.	Total Dissolved Solids	10382.7	
5.	Suspended Solids	NR	
6.	Dissolved Oxygen	NR	
7.	Dissolved CO ₂	NR	
8.	Oil In Water	NR	
9.	Phenolphthalein Alkalinity (CaCO ₃)		
10.	Methyl Orange Alkalinity (CaCO ₃)		
11.	Bicarbonate	HCO ₃ 927.0	HCO ₃ 15.2
12.	Chloride	Cl 3834.0	Cl 108.2
13.	Sulfate	SO ₄ 2125.0	SO ₄ 44.3
14.	Calcium	Ca 1600.0	Ca 79.8
15.	Magnesium	Mg 146.8	Mg 12.1
16.	Sodium (calculated)	Na 1739.9	Na 75.7
17.	Iron	Fe 10.0	
18.	Barium	Ba NR	
19.	Strontium	Sr NR	
20.	Total Hardness (CaCO ₃)	4600.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt X meq/L	=	mg/L
+-----+			+-----+				
80	*Ca <-----	*HCO3	15	Ca(HCO3)2	81.0	15.2	1231
	/----->			CaSO4	68.1	44.3	3012
12	*Mg ----->	*SO4	44	CaCl2	55.5	20.4	1132
	<-----/			Mg(HCO3)2	73.2		
76	*Na ----->	*Cl	108	MgSO4	60.2		
+-----+			+-----+	MgCl2	47.6	12.1	575
Saturation Values Dist. Water 20 C				NaHCO3	84.0		
CaCO3 13 mg/L				Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L				NaCl	58.4	75.7	4423
BaSO4 2.4 mg/L							

REMARKS: KCL =0.0R