

TRETOLITE

PETROLITE

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Fax 713 589-4737

Reply to: P.O. Box 60180
Midland, TX 79711-0180

RECEIVED
NOV 24 1992

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NEW MEXICO
Lease : STATE CO.
Well : #1 K-36-19-24
Sample Pt. : SWD TANK

Date : 10-26-92
Date Sampled : 10-20-92
Analysis No. : 2591

ANALYSIS	mg/L	* meq/L
1. pH	7.8	
2. H2S	250 PPM	
3. Specific Gravity	1.010	
4. Total Dissolved Solids	9892.6	
5. Suspended Solids		
6. Dissolved Oxygen		
7. Dissolved CO2		
8. Oil In Water		
9. Phenolphthalein Alkalinity (CaCO3)		
10. Methyl Orange Alkalinity (CaCO3)	860.0	
11. Bicarbonate	HCO3 1049.2	HCO3 17.2
12. Chloride	Cl 3913.7	Cl 110.4
13. Sulfate	SO4 2000.0	SO4 41.6
14. Calcium	Ca 937.9	Ca 46.8
15. Magnesium	Mg 923.8	Mg 76.0
16. Sodium (calculated)	Na 1067.8	Na 46.4
17. Iron	Fe 0.2	
18. Barium	Ba 0.0	
19. Strontium	Sr 0.0	
20. Total Hardness (CaCO3)	6145.5	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
47 *Ca <----- *HCO3	Ca(HCO3)2	81.0	17.2 1394
76 *Mg -----> *SO4	CaSO4	68.1	29.6 2015
46 *Na -----> *Cl	CaCl2	55.5	
	Mg(HCO3)2	73.2	
	MgSO4	60.2	12.0 725
	MgCl2	47.6	64.0 3045
	NaHCO3	84.0	
	Na2SO4	71.0	
	NaCl	58.4	46.4 2714

REMARKS: MALLETT - BENNETT - FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
SUE CRISS