

TRETOLITE

PETROLITE

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WATER ANALYSIS REPORT

O. C. D.
JAN 01 1993

Company : YATES PETROLEUM
Address : ARTESIA, NEW MEXICO
Lease : COTTON MX Fed
Well : #1 C-14-19-25
Sample Pt. : SWD TANK

Date : 10-26-92
Date Sampled : 10-20-92
Analysis No. : 2586

ANALYSIS		mg/L		* meq/L
1. pH	6.7			
2. H2S	170 PPM			
3. Specific Gravity	1.030			
4. Total Dissolved Solids		37152.1		
5. Suspended Solids				
6. Dissolved Oxygen				
7. Dissolved CO2				
8. Oil In Water				
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)		839.0		
11. Bicarbonate	HCO3	1023.6	HCO3	16.8
12. Chloride	Cl	20164.0	Cl	568.8
13. Sulfate	SO4	2475.0	SO4	51.5
14. Calcium	Ca	1330.7	Ca	66.4
15. Magnesium	Mg	1079.4	Mg	88.8
16. Sodium (calculated)	Na	11079.3	Na	481.9
17. Iron	Fe	0.2		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		7767.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
66 *Ca <----- *HCO3	Ca(HCO3)2	81.0	16.8
89 *Mg <----- *SO4	CaSO4	68.1	49.6
482 *Na <----- *Cl	CaCl2	55.5	
	Mg(HCO3)2	73.2	
	MgSO4	60.2	1.9
	MgCl2	47.6	86.9
	NaHCO3	84.0	
	Na2SO4	71.0	
	NaCl	58.4	481.9
			28163

REMARKS: MALLETT - BENNETT - FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
SUE CRISS