

TRETOLITE**Chemicals and Services**

PETROLITE

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(505) 746-3588 Phone
(505) 746-3580 Fax**WATER ANALYSIS REPORT**Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : LUSK
Well : #2
Sample Pt. : WELLHEADDate : 04/13/92
Date Sampled : 04/10/92
Analysis No. : 003

ANALYSIS	mg/L	* meq/L
1. pH	6.2	
2. H2S	0	
3. Specific Gravity	1.150	
4. Total Dissolved Solids	234810.1	
5. Suspended Solids		
6. Dissolved Oxygen		
7. Dissolved CO2		
8. Oil In Water		
9. Phenolphthalein Alkalinity (CaCO3)		
10. Methyl Orange Alkalinity (CaCO3)		
11. Bicarbonate	HCO3 61.0	HCO3 1.0
12. Chloride	Cl 146331.0	Cl 4127.8
13. Sulfate	SO4 425.0	SO4 8.9
14. Calcium	Ca 26720.0	Ca 1333.3
15. Magnesium	Mg 3588.2	Mg 295.2
16. Sodium (calculated)	Na 57684.9	Na 2509.1
17. Iron	Fe 0.0	
18. Barium	Ba 0.0	
19. Strontium	Sr 0.0	
20. Total Hardness (CaCO3)	81500.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
1333 *Ca <----- *HCO3	Ca(HCO3)2	81.0	1.0	81
----- /----->	CaSO4	68.1	8.9	602
295 *Mg -----> *SO4	CaCl2	55.5	1323.5	73440
----- <----- /	Mg(HCO3)2	73.2		
2509 *Na -----> *Cl	MgSO4	60.2		
----- +----- +	MgCl2	47.6	295.2	14053
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	2509.1	146634
BaSO4 2.4 mg/L				

REMARKS:

----- L. MALLETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
LEE MALLETT