

TRETOLITE DIVISION

(505) 392-6711
Fax (505) 392-3759WATER ANALYSIS REPORT
-----Company : Conoco Inc.
Address : Eunice NM
Lease : Lockhart A-18
Well : 7
Sample Pt. : SeperatorDate : 3-6-97
Date Sampled : 3-6-97
Analysis No. : 118

B.L.M. Request

ANALYSIS	mg/L	* meq/L
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1. pH	6.8	
2. H ₂ S	6 ppm	
3. Specific Gravity	1.010	
4. Total Dissolved Solids	36229.8	
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)	513.0	
11. Bicarbonate	HCO ₃ 625.9	HCO ₃ 10.3
12. Chloride	Cl 21760.3	Cl 613.8
13. Sulfate	SO ₄ 100.0	SO ₄ 2.1
14. Calcium	Ca 1026.0	Ca 51.2
15. Magnesium	Mg 564.0	Mg 46.4
16. Sodium (calculated)	Na 12151.8	Na 528.6
17. Iron	Fe 1.7	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO ₃)	4884.4	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
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51 *Ca <----- *HCO ₃	Ca (HCO ₃) ₂	81.0	831
----- /----->	CaSO ₄	68.1	142
46 *Mg -----> *SO ₄	CaCl ₂	55.5	2156
----- <----- /	Mg (HCO ₃) ₂	73.2	
529 *Na -----> *Cl	MgSO ₄	60.2	
+-----+	MgCl ₂	47.6	2209
Saturation Values Dist. Water 20 C	NaHCO ₃	84.0	
CaCO ₃ 13 mg/L	Na ₂ SO ₄	71.0	
CaSO ₄ * 2H ₂ O 2090 mg/L	NaCl	58.4	30890
BaSO ₄ 2.4 mg/L			

REMARKS: Vernon Mackey / Harlan Robertson
----- Greg Archer / file

Petrolite Oilfield Chemicals Group

Respectfully submitted,
Greg Archer