

TRETOLITE DIVISION

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

 WATER ANALYSIS REPORT

 Reply to:
 P.O. Box 1140
 Artesia, NM
 88211-7531

 Company : CONOCO INC.
 Address : HOBBS, NM
 Lease : MEYERS B-4
 Well : #30
 Sample Pt. :

 Date : 04/12/96
 Date Sampled : 04/12/96
 Analysis No. : 0271

ANALYSIS		mg/L	* meq/L
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1. pH	6.4		
2. H ₂ S	1 PPM		
3. Specific Gravity	1.095,		
4. Total Dissolved Solids		151491.2	
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	305.0	HCO ₃ 5.0
12. Chloride	Cl	91590.0	Cl 2583.6
13. Sulfate	SO ₄	3125.0	SO ₄ 65.1
14. Calcium	Ca	3200.0	Ca 159.7
15. Magnesium	Mg	4568.3	Mg 375.8
16. Sodium (calculated)	Na	48697.4	Na 2118.2
17. Iron	Fe	5.5	
18. Barium	Ba	NR	
19. Strontium	Sr	NR	
20. Total Hardness (CaCO ₃)		26800.0	

 PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L =		mg/L
+-----+			-----		-----
160	*Ca <----- *HCO ₃	Ca(HCO ₃) ₂	81.0	5.0	405
	/----->	CaSO ₄	68.1	65.1	4429
376	*Mg -----> *SO ₄	CaCl ₂	55.5	89.6	4972
	<-----/	Mg(HCO ₃) ₂	73.2		
2118	*Na -----> *Cl	MgSO ₄	60.2		
		MgCl ₂	47.6	375.8	17892
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	2118.2	123787
BaSO ₄	2.4 mg/L				

REMARKS:

----- CRAIG CULP

Petrolite Oilfield Chemicals Group

 Respectfully submitted,
 TATE LAIR