

TRETOLITE

Chemicals and Services


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WATER ANALYSIS REPORT
 Company : POGO PRODUCING
 Address : MIDLAND, TEXAS
 Lease : 28-3
 Well : SWD
 Sample Pt. : TANK

 Date : 10/22/93
 Date Sampled : 10/22/93
 Analysis No. : 370

ANALYSIS		mg/L		* meq/L
1. pH	5.3			
2. H ₂ S	NR			
3. Specific Gravity	1.140			
4. Total Dissolved Solids		223918.2		
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	97.0	HCO ₃	1.6
12. Chloride	Cl	138024.0	Cl	3393.5
13. Sulfate	SO ₄	375.0	SO ₄	7.8
14. Calcium	Ca	13600.0	Ca	578.6
15. Magnesium	Mg	2583.6	Mg	212.6
16. Sodium (calculated)	Na	69238.6	Na	3011.7
17. Iron	Fe	NR		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO ₃)		44600.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/
679	*Ca <-----> *HCO ₃	Ca(HCO ₃) ₂	81.0	1.6	129
213	*Mg <-----> *SO ₄	CaSO ₄	68.1	7.8	531
3012	*Na <-----> *Cl	CaCl ₂	55.5	669.2	37136
		Mg(HCO ₃) ₂	73.2		
		MgSO ₄	60.2		
		MgCl ₂	47.6	212.6	10119
		NaHCO ₃	84.0		
		Na ₂ SO ₄	71.0		
		NaCl	58.4	3011.7	176003

Saturation Values Dist. Water 20 C

 CaCO₃ 13 mg/L
 CaSO₄ * 2H₂O 2090 mg/L
 BaSO₄ 2.4 mg/L
REMARKS:

A. MILLER / FILE

RED TANK 23 SWD

Petrolite, Oilfield Chemicals Group

 Respectfully submitted,
 STEVE TIGERT