

**MILLER CHEMICALS, INC.**

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WATER ANALYSIS REPORT

Company : CONCHO RESOURCES
Address :
Lease : WEST SHUGART 30 FED.
Well : #9
Sample Pt. : HEATER

Date : 4-19-99
Date Sampled : 4-17-99
Analysis No. : 2022

ANALYSIS		mg/L		* meq/L
1. pH	6.0			
2. H2S	0			
3. Specific Gravity	1.090			
4. Total Dissolved Solids		111380.3		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	97.0	HCO3	1.6
12. Chloride	Cl	68799.0	Cl	1940.7
13. Sulfate	SO4	600.0	SO4	12.5
14. Calcium	Ca	12120.0	Ca	604.8
15. Magnesium	Mg	1489.7	Mg	122.6
16. Sodium (calculated)	Na	28219.6	Na	1227.5
17. Iron	Fe	55.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		36400.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	= mg/L
605 *Ca <----- *HCO3 2		Ca(HCO3)2	81.0	1.6
----- /-----> -----		CaSO4	68.1	12.5
123 *Mg -----> *SO4 12		CaCl2	55.5	590.7
----- <-----/ -----		Mg(HCO3)2	73.2	32778
1227 *Na -----> *Cl 1941		MgSO4	60.2	
+		MgCl2	47.6	122.6
Saturation Values Dist. Water 20 C		NaHCO3	84.0	5834
CaCO3	13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	1227.5
BaSO4	2.4 mg/L			71734

REMARKS: