



MILLER CHEMICALS, INC.

Post Office Box 298
Artesia, N.M. 88211-0298
(505) 746-1919 Artesia Office
(505) 393-2893 Hobbs Office
(505) 746-1918 Fax

WATER ANALYSIS REPORT

Company : CONCHO RESOURCES
Address :
Lease : TOMCAT 15
Well : #2
Sample Pt. : TANK

Date : 2-26-01
Date Sampled : 2-18 01
Analysis No. :

ANALYSIS	mg/l.	* meq/L
1. pH	6.5	
2. H2S	0	
3. Specific Gravity	1.190	
4. Total Dissolved Solids	247860.6	
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 61.0	HCO3 1.0
12. Chloride	Cl 155490.0	Cl 4386.2
13. Sulfate	SO4 50.0	SO4 1.0
14. Calcium	Ca 15640.0	Ca 780.4
15. Magnesium	Mg 7102.6	Mg 584.3
16. Sodium (calculated)	Na 69509.0	Na 3023.4
17. Iron	Fe 8.0	
18. Barium	Ba NR	
19. Strontium	Sr NR	
20. Total Hardness (CaCO3)	68300.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X	meq/L	mg/L
780 *Ca <----- *HCO3	Ca (HCO3)2	61.0	1.0	81
584 *Mg --- > *SO4	CaSO4	68.1	1.0	71
3023 *Na -----> *Cl	CaCl2	55.5	778.4	43193
	Mg (HCO3)2	73.2		
	MgSO4	60.2		
	MgCl2	47.6	584.3	27817
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	3023.4	176690
BaSO4 2.4 mg/L				

REMARKS:

SCALE TENDENCY REPORT

Company	: CONCHO RESOURCES	Date	: 2-26-01
Address	:	Date Sampled	: 2-18-01
Lease	: TOMCAT 15	Analysis No.	:
Well	: #2	Analyst	: STEVE TIGERT
Sample Pt.	: TANK		

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO3 Scaling Tendency

S.I. =	0.4	at	70 deg.	For	21 deg. C
S.I. =	0.4	at	90 deg.	For	32 deg. C
S.I. =	0.4	at	110 deg.	For	43 deg. C
S.I. =	0.5	at	130 deg.	For	54 deg. C
S.I. =	0.5	at	150 deg.	For	66 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skullman-McDonald-Stiff Method)
Calcium Sulfate

S	922	at	70 deg.	For	21 deg C
S =	993	at	90 deg.	For	32 deg C
S =	1040	at	110 deg.	For	43 deg C
S	1058	at	130 deg.	For	54 deg C
S =	1058	at	150 deg.	For	66 deg C

Respectfully submitted,
STEVE TIGERT