Enviro-Chem, Inc.

WATER ANALYSIS REPORT

SAMPLE

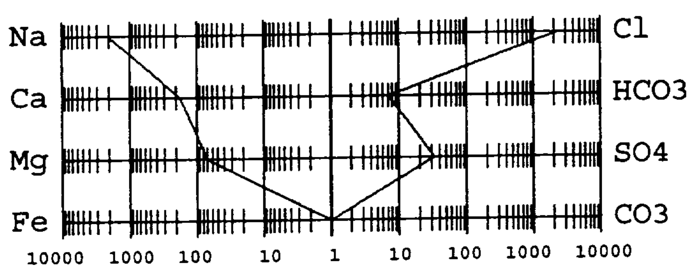
Oil Co. :	**SAGA Petroleum**	Sample Loc. :	**Transfer Pump**
Lease :	**U.S. Sawyer**	Date Analyzed:	**28-April-1998**
Well No.:	**# 6 & 11**	Date Sampled :	
Lab No. :			

ANALYSIS

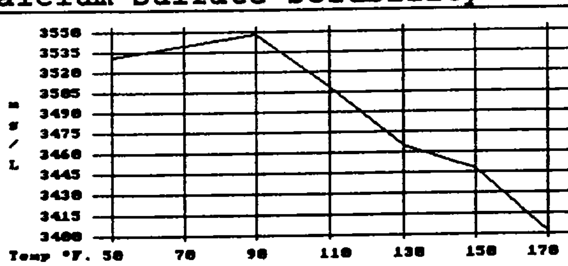
1. pH 5.860
2. Specific Gravity 60/60 F. 1.088
3. $CaCO_3$ Saturation Index @ 80 F. -0.554
   @ 140 F. +0.336

			MG/L	EQ. WT.	*MEQ/L
Dissolved Gasses					
4. Hydrogen Sulfide			Not Present		
5. Carbon Dioxide			Not Determined		
6. Dissolved Oxygen			Not Determined		
Cations					
7. Calcium	(Ca^{++})		3,439	/ 20.1 =	171.09
8. Magnesium	(Mg^{++})		822	/ 12.2 =	67.38
9. Sodium	(Na^{+})	(Calculated)	47,263	/ 23.0 =	2,054.91
10. Barium	(Ba^{++})		Not Determined		
Anions					
11. Hydroxyl	(OH^{-})		0	/ 17.0 =	0.00
12. Carbonate	$(CO_3^{=})$		0	/ 30.0 =	0.00
13. Bicarbonate	(HCO_3^{-})		415	/ 61.1 =	6.79
14. Sulfate	$(SO_4^{=})$		1,550	/ 48.8 =	31.76
15. Chloride	(Cl^{-})		79,982	/ 35.5 =	2,253.01
16. Total Dissolved Solids			133,471		
17. Total Iron	(Fe)		5	/ 18.2 =	0.25
18. Total Hardness As $CaCO_3$			11,971		
19. Resistivity @ 75 F.		(Calculated)	0.054 /cm.		

LOGARITHMIC WATER PATTERN
***meq/L.**



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT. X	*meq/L =	mg/L.
$Ca(HCO_3)_2$	81.04	6.79	550
$CaSO_4$	68.07	31.76	2,162
$CaCl_2$	55.50	132.54	7,356
$Mg(HCO_3)_2$	73.17	0.00	0
$MgSO_4$	60.19	0.00	0
$MgCL_2$	47.62	67.38	3,208
$NaHCO_3$	84.00	0.00	0
$NaSO_4$	71.03	0.00	0
NaCl	58.46	2,053.10	120,024

***Milli Equivalents per Liter**

This water is somewhat corrosive due to the pH observed on analysis.
The corrosivity is increased by the content of mineral salts in solution.