

Oilfield Solutions, Inc.
2614 S.C.R. 1257, Midland, Tx. 79706

WATER ANALYSIS REPORT

LAYTON

Company: EL ZORRO
 Location: FREMONT #1
 Source: 0
 Date Sampled: 2/26/01

Sampled By: CHEM TECH SERVICES
 Analysis Date: 2/26/01
 Salesman:

ANALYSIS	mg/L	EQ. WT.	MEQ/L
1. pH	6.40		
2. Specific Gravity 60/60 f.	1.053		
3. Hydrogen Sulfide	NEGATIVE		
4. Carbon Dioxide	Not Determined		
5. Dissolved Oxygen	Not Determined		
6. Hydroxyl (OH-)	0 /	17.0 =	0.00
7. Carbonate (CO3=)	0 /	30.0 =	0.00
8. Bicarbonate (HCO3-)	501 /	61.1 =	8.20
9. Chloride (Cl-)	48,989 /	35.5 =	1,379.97
10. Sulfate (SO4=)	525 /	48.8 =	10.76
11. Calcium (CA++)	3,883 /	20.1 =	193.43
12. Magnesium (Mg++)	195 /	12.2 =	15.98
13. Sodium (Na+)	27,359 /	23.0 =	1,189.52
14. Barium (Ba++)	Not Determined		
15. Total Iron (Fe)	2.00		
16. Dissolved Solids	81.45		
17. Filterable Solids			
18. Total Solids	81.45		
19. Total Total Hardness As CaCO3	10,509		
20. Suspended Oil			
21. Volume Filtered (ml)			
22. Resistivity @ 75 F. (calculated)	0.09 cm.		
23. CAC03 Saturation Index			
@80 F.	-0.1473		
@100 F.	0.1622		
@120 F.	0.4222		
@140 F.	0.7622		
@160 F.	1.1622		
24. Calcium Sulfate solubility @ 90 F.	2,633 mg/L		

PROBABLE MINERAL COMPOSITION				
COMPOUND	EQ. WT.	X	MEQ/L	= mg/L
Ca(HCO3)2	81.04		8.20	665
CaSO4	68.07		10.76	732
CaCl2	55.50		174.47	9,683
Mg(HCO3)2	73.17		0.00	0
MgSO4	60.19		0.00	0
MgCL2	47.62		15.98	761
NaHCO3	84.00		0.00	0
NaSO4	71.03		0.00	0
NaCl	58.46		1,189.52	69,539

Chemist: _____