

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Water Analysis

Company.... Nalco/Exxon Energy Chemicals
Well # FRESH WATER STATION
Lease..... MARATHON
Location... Sec. 29, T-21-S, R-24-E
Date Run... 05/07/1997
Lab Ref #.. 97-MAY-N00407

Sample Temp... 70.0
Date Sampled.. 05/06/1997
Sampled by.... Dan Sweatt
Employee # ...
Analyzed by... DANIEL

EDDY COUNTY, NM

Dissolved Gasses

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H ₂ S)	0.00	16.00	0.00
Carbon Dioxide	(CO ₂)	0.00	22.00	0.00
Dissolved Oxygen	(O ₂)	0.00	8.00	0.00

Cations

Calcium	(Ca++)	100.50	20.10	5.00
Magnesium	(Mg++)	34.16	12.20	2.80
Sodium	(Na+)	196.61	23.00	8.55
Barium	(Ba++)	< .50	68.70	0.00
Manganese	(Mn++)	0.00	27.50	0.00

Anions

Hydroxyl	(OH-)	0.00	17.00	0.00
Carbonate	(CO ₃ =)	0.00	30.00	0.00
Bicarbonate	(HCO ₃ -)	268.84	61.10	4.40
Sulfate	(SO ₄ =)	550.00	48.80	11.27
Chloride	(Cl-)	24.33	35.50	0.69

Total Iron	(Fe)	0.14	18.60	0.01
Total Dissolved Solids		1,174.58		
Total Hardness As CaCO ₃		390.00		
Conductivity MICROMOHS/CM		1,200		

pH 7.220

Specific Gravity 60/60 F. 1.001

CaSO₄ Solubility @ 80 F. 45.89 MEq/L, CaSO₄ scale is unlikely**CaCO₃ Scale Index**

70.0	0.264
80.0	0.304
90.0	0.544
100.0	0.544
110.0	0.664
120.0	0.664
130.0	0.864
140.0	0.864
150.0	0.984

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