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Company John West Engineering

Field _____

Lease Graham State Comm #1

Sampling Date 5-12-80

Type of Sample Wellhead

WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca++)	212.00	4,240
Magnesium (Mg++)	44.00	528
Sodium (Na+) (CALCULATED)	640.44	14,724
Iron (Total)		1,700
Carbonate (HCO ₃ ⁻)	7.00	427
Carbonate (CO ₃ ⁻)	Not	Found
Hydroxide (OH ⁻)	Not	Found
Sulfate (SO ₄ ⁻)	7.29	350
Chloride (Cl ⁻)	882.15	31,282
Total Dissolved Solids		51,551
pH 6.43		
Temperature 68 °F		
Total Solids on Evap. at 103° - 105° C		
Hardness as CaCO ₃	256.00	12,800
Carbonate Hardness as CaCO ₃ (temporary)	7.00	350
Non-Carbonate Hardness as CaCO ₃ (permanent)	249.00	12,450
Alkalinity as CaCO ₃	7.00	350
Specific Gravity @ 68° F	1.037	

* mg/l = milligrams per Liter

* me/l = milliequivalents per Liter

CO₃ S. I. slightly positive at 86°F (0.01)

SO₄ S. I. negative (1.54)