

WATER ANALYSIS REPORT
furnished by TRETOLITE CHEMICALS

COMPANY: CONOCO
LEASE: EAVES
SAMPLE POINT: WINDMILL
SAMPLE DATE: 3/25/87
SAMPLE TEMP.:

location: 250' FSL & 2500' FWL, SEC 19, T-26S, R-37E

pH: 6.4
SPECIFIC GRAVITY: 1.005 / 1.002

TITRATED AND CALCULATED IONS

	MILLIGRAMS PER LITER	MILLIEQUIVALENTS PER LITER
HCO ₃	366.00	6.00
Cl	448.00	12.62
SO ₄	800.00	16.67
Ca	280.00	14.00
Mg	60.75	4.98
Na	375.06	16.31

IONIC STRENGTH = 0.05
TOTAL HARDNESS = 950.0 mg/ltr.
TOTAL DISSOLVED SOLIDS = 2330.2 mg/ltr.
TOTAL IRON (Fe) = 5.0 ppm

PROBABLE MINERAL COMPOSITION AND ION PAIRING

	MILLIEQUIVALENTS PER LITER	MILLIGRAMS PER LITER
Ca(HCO ₃) ₂	6.00	486.24
CaSO ₄	8.00	544.56
CaCl ₂	0.00	0.00
Mg(HCO ₃) ₂	0.00	0.00
MgSO ₄	4.98	299.72
MgCl ₂	0.00	0.00
NaHCO ₃	0.00	0.00
Na ₂ SO ₄	3.69	261.90
NaCl	12.62	737.75

CALCULATED SCALING TENDENCIES

SCALING INDEX

CaCO₃ @ 80 DEG F. = -0.2
CaCO₃ @ 120 DEG F. = 0.2

SATURATION POINT

CaSO₄ @ 70 DEG F. = 2507.8 MG/LTR.
CaSO₄ @ 110 DEG F. = 2564.6 MG/LTR.

(THIS SAMPLE CONTAINED 544.6 MG/LTR. CaSO₄)