

WATER ANALYSIS REPORT
furnished by TRETOLITE CHEMICALS

COMPANY: RICE ENGINEERING
LEASE: ARCO STATE Y-8 SEC. 25, T25S, R37E, LEA COUNTY, NEW MEXICO
SAMPLE POINT: FUSSELMAN
SAMPLE DATE: 5-27-88
SAMPLE TEMP.:

pH: 6.2
H₂S: +
SPECIFIC GRAVITY: 1.05

TITRATED AND CALCULATED IONS

	MILLIGRAMS PER LITER	MILLIEQUIVALENTS PER LITER
HCO ₃	793.00	13.00
Cl	42600.00	1200.00
SO ₄	2500.00	52.08
Ca	6000.00	300.00
Mg	486.00	39.84
Na	21280.69	925.25

IONIC STRENGTH = 1.46
TOTAL HARDNESS = 17000.0 mg/ltr.
TOTAL DISSOLVED SOLIDS = 73623.7 mg/ltr.
TOTAL IRON (Fe) = 1.0 ppm

PROBABLE MINERAL COMPOSITION AND ION PAIRING

	MILLIEQUIVALENTS PER LITER	MILLIGRAMS PER LITER
Ca(HCO ₃) ₂	13.00	1053.52
CaSO ₄	52.08	3545.31
CaCl ₂	234.92	13037.88
Mg(HCO ₃) ₂	0.00	0.00
MgSO ₄	0.00	0.00
MgCl ₂	39.84	1896.99
NaHCO ₃	0.00	0.00
Na ₂ SO ₄	0.00	0.00
NaCl	925.25	54089.96

CALCULATED SCALING TENDENCIES

SCALING INDEX

CaCO₃ @ 80 DEG F. = 0.0
CaCO₃ @ 120 DEG F. = 0.6

SATURATION POINT

CaSO₄ @ 70 DEG F. = 3782.8 MG/LTR.
CaSO₄ @ 110 DEG F. = 2256.0 MG/LTR.

THIS SAMPLE CONTAINED 3545.3 MG/LTR. CaSO₄

EXHIBIT "H"