

WATER ANALYSIS REPORT
furnished by TRETOLITE CHEMICALS

COMPANY: RICE ENGINEERING
LEASE: ARCO LANGLEIE FEDERAL SEC. 14, T25S, R37E, LEA COUNTY, NEW MEXICO
SAMPLE POINT: BLINEBRY
SAMPLE DATE: 5-27-88
SAMPLE TEMP.:

pH: 6.4
H2S: +
SPECIFIC GRAVITY: 1.1

TITRATED AND CALCULATED IONS

	MILLIGRAMS PER LITER	MILLIEQUIVALENTS PER LITER
HCO3	366.00	6.00
Cl	85200.00	2400.00
SO4	1750.00	36.46
Ca	9200.00	460.00
Mg	243.00	19.92
Na	15138.42	1962.54

IONIC STRENGTH = 2.71
TOTAL HARDNESS = 24000.0 mg/ltr.
TOTAL DISSOLVED SOLIDS = 141820.1 mg/ltr.
TOTAL IRON (Fe) = 2.0 ppm

PROBABLE MINERAL COMPOSITION AND ION PAIRING

	MILLIEQUIVALENTS PER LITER	MILLIGRAMS PER LITER
Ca(HCO3)2	6.00	486.24
CaSO4	36.46	2481.72
CaCl2	417.54	23173.56
Mg(HCO3)2	0.00	0.00
MgSO4	0.00	0.00
MgCl2	19.92	948.50
NaHCO3	0.00	0.00
Na2SO4	0.00	0.00
NaCl	1962.54	114730.10

CALCULATED SCALING TENDENCIES

SCALING INDEX

CaCO3 @ 80 DEG F. = 0.5
CaCO3 @ 120 DEG F. = 1.0

SATURATION POINT

CaSO4 @ 70 DEG F. = 1845.4 MG/LTR.
CaSO4 @ 110 DEG F. = 1825.0 MG/LTR.

(THIS SAMPLE CONTAINED 2481.7 MG/LTR. CaSO4)

EXHIBIT "H"