



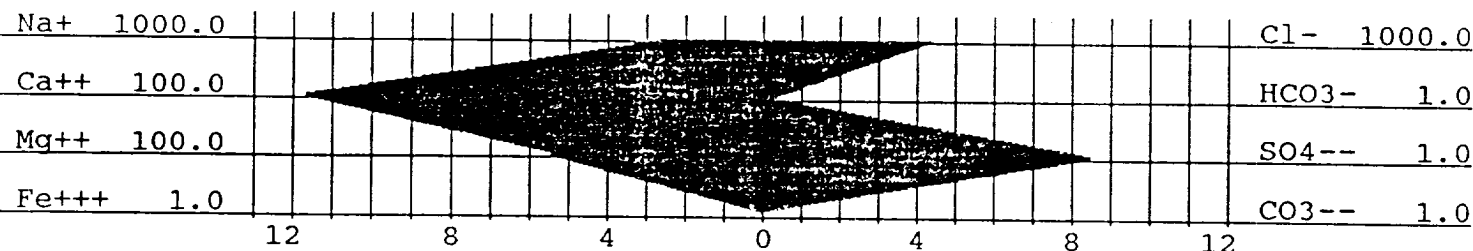
WATER ANALYSIS
for
SIETE OIL & GAS

Date of Analysis: JANUARY 15, 1991
Company: SIETE OIL & GAS
State: NEW MEXICO
Lease: GILA FEDERAL #1
Oil (bbl/day): N/D
Type of Water: PRODUCED
Sample Source: WELLHEAD
Representative: STEVE STROUD

Analysis #: 5116
Company Address: ROSWELL
Field: N/D
Well #: #1
Water (bbl/day): N/D
Temp., C: 20
Date of Sampling: JANUARY 15, 1981
Analysis By: CLYDE WILHOIT

WATER ANALYSIS PATTERN

(number beside ion symbol indicates me/l scale unit)



DISSOLVED SOLIDS

CATIONS	me/l	mg/l
Total Hardness :	1760.00	
Calcium, (Ca++) :	1200.00	24057.74
Magnesium, (Mg++) :	560.00	6804.78
Iron, (Fe+++)	0.05	1.00
Barium, (Ba++) :	N/D	N/D
Sodium, Na+(calc) :	2756.13	63390.91
Manganese, (Mn++) :	0.00	0.00

ANIONS	me/l	mg/l
Chloride, Cl- :	4507.04	159994.31
Sulfate, SO4-- :	8.74	420.00
Carbonate, CO3-- :	0.00	0.00
Bicarbonate, HCO3-- :	0.40	24.41
Hydroxyl, OH- :	0.00	0.00
Sulfide, S-- :	0.00	0.00
TOTAL SOLIDS (quant.) :		342693.10

DISSOLVED GASES

Hydrogen sulfide:	0.00	mg/l
Carbon dioxide :	106.92	mg/l
Oxygen :	N/D	mg/l

PHYSICAL PROPERTIES

pH :	5.30
Spec Grav. :	1.170
TDS (calc.) :	254693.55

SCALE STABILITIES

Temp., C	CaCO3	CaSO4	BaSO4
20.0	0.00	N/D	N/D
30.0	N/D	N/D	N/D
40.0	N/D	N/D	N/D
Max entity, (calc.)	994		0
RESIDUAL HYDROCARBONS:	N/D		

N/D = not determined

Remarks: @ 20'C...Slightly corrosive, and slight carbonate scale.
@ 20'C...Calcium sulfate scaling is unlikely.