



GP.O.BOX 2187
HOBBS, N.M. 88240

PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: Randall Smith
cc: Scott Mallone
cc: Pat Culpepper
cc:
Company: Phillips
Address:
Service Engineer: K. Kearney

Date sampled: 12-14-93
Date reported: 12-20-93
Lease or well #: Bilbrey 34-1
County: State:
Formation:
Depth:
Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	33000	931
Iron (Fe) (total)	27.0	
Total hardness	5200	
Calcium (Ca)	922	46
Magnesium (Mg)	704	57
Bicarbonates (HCO3)	488	8
Carbonates (CO3)	0	
Sulfates (SO4)	0	0
Hydrogen sulfide (H2S)	0	
Carbon dioxide (CO2)	1027	
Sodium (Na)	19234	836
Total dissolved solids	54349	
Barium (Ba)	33.6	
Strontium (Sr)	130	
Specific Gravity	1.038	
Density (#/gal.)	8.650	
pH	6.670	
IONIC STRENGTH	0.99	

Stiff-Davis (CaCO3) Stability Index :

$$SI = pH - pCa - pAlk - K$$

SI @ 86 F = -0.35
104 F = -0.12
122 F = +0.14
140 F = +0.43
158 F = +0.75

This water is 4837 mg/l (%-100.00%) under ITS CALCULATED
CaSO4 saturation value at 82 F.
SATURATION= 4837 mg/L PRESENT= 0 mg/L

REPORTED BY ROBERT C MIDDLETON *Rom*
TECHNICAL SERVICES REPRESENTATIVE