



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 #: Four Well Mix
County: State:
Formation:
Depth:
Submitted by: K. Kearney

CHEMICAL COMPOSITION :	mg/L	meq/L
Chloride (Cl)	8328	235
Iron (Fe) (total)	22.0	
Total hardness	1425	
Calcium (Ca)	251	13
Magnesium (Mg)	194	16
Bicarbonates (HCO ₃)	204	3
Carbonates (CO ₃)	0	
Sulfates (SO ₄)	10	0
Hydrogen sulfide (H ₂ S)	2	
Carbon dioxide (CO ₂)	588	
Sodium (Na)	4838	210
Total dissolved solids	13825	
Barium (Ba)	8.6	
Strontium (Sr)	33	
Specific Gravity	1.009	
Density (#/gal.)	8.409	
pH	6.983	
IONIC STRENGTH	0.25	

Stiff-Davis (CaCO₃) Stability Index :

SI = pH - pCa - pAlk - K

SI @ 86 F = -0.53
104 F = -0.31
122 F = -0.06
140 F = +0.21
158 F = +0.49

This water is 3427 mg/l (-99.59%) under ITS CALCULATED
CaSO₄ saturation value at 82 F.
SATURATION= 3441 mg/L PRESENT= 14 mg/L

REPORTED BY ROBERT C MIDDLETON *Ram*
TECHNICAL SERVICES REPRESENTATIVE