



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

PHONE: (505) 393-7726

## W A T E R   A N A L Y S I S   R E P O R T

Report for:	Date sampled: n/a
CC:	Date reported: 04-15-94
CC:	Lease or well # : Exxon State
CC:	County:                   State:
Company: Samedan	Formation:
Address:	Depth:
Service Engineer: Kenny Kearney	Submitted by: Kenny Kearney

### CHEMICAL COMPOSITION :

	mg/L	meq/L
Chloride (Cl)	20000	564
Iron (Fe) (total)	27.0	
Total hardness	4100	
Calcium (Ca)	1403	70
Magnesium (Mg)	145	12
Bicarbonates (HCO <sub>3</sub> )	48	1
Carbonates (CO <sub>3</sub> )	n/a	
Sulfates (SO <sub>4</sub> )	17	0
Hydrogen sulfide (H <sub>2</sub> S)	n/a	
Carbon dioxide (CO <sub>2</sub> )	n/a	
Sodium (Na)	11122	484
Total dissolved solids	32738	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	
Specific Gravity	1.023	
Density (#/gal.)	8.525	
pH	6.100	API GRAVITY 44.0 @ 74°
IONIC STRENGTH	0.61	

Stiff-Davis (CaCO<sub>3</sub>) Stability Index :

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

$$SI @ 86 F = -1.63$$

$$104 F = -1.40$$

$$122 F = -1.14$$

$$140 F = -0.85$$

$$158 F = -0.53$$

This water is 3287 mg/l (-99.28%) under ITS CALCULATED  
CaSO<sub>4</sub> saturation value at 82 F.

SATURATION= 3311 mg/L                   PRESENT= 24 mg/L

REPORTED BY ROZANNE JOHNSON  
LAB TECHNICIAN

*Handwritten notes:*  
04/15/94  
Samedan  
Exxon State

**RECEIVED**

APR 22 1994

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