t. 26 R. 16W SEE. 4

V__CO Water Analysis

Prepared for STERLING DRILLING COMPANY

TROUSDALE, KS

Gary L. Fritzler

NALCO Chemical Company

9-Jan-86

Well Number : MAYHEW A-7-4

Water Source : WELLHEAD

DISSOLVED SOLIDS

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Cations ======	mg/1 ====	meq/1		mg/1
Sodium Na- Calcium Ca- Magnesium Mg- Barium Ba-	++ 12,800.00 ++ 2,187.00	1,937.84 640.00 179.99	as NaCl as CaCO3 as CaCO3 as CaCO3	32,000.00 9,000.00
Total Cations	s 59,557.32	2,757.83		
Anions	mg/l ====	meq/l		mg/l ====
Chloride Cl- Sulfate SO Carbonate CO	4= 473.20	2,738.78 9.84	as NaCl' as Na2SO4 as CaCO3	160,000.00
B irb. HC	561.20	9.20	as CaCO3	460.00
Total Anions	98,154.40	2,757.83		
Total Solids	157,711.73			
Total Iron, Fe Acid to Phen			as Fe as CaCO3	480.00

SCALING INDICES

Temp	CaCO3	CaSO4	BaSO4
50 F 77 F 95 F 122 F 149 F 176 F	+0.37 +0.61 +0.81 +1.19 +1.66 +2.21	-8.18 -8.41 -7.92	
203 F	+2.85	7.40	

Positive values indicate scaling is likely.
Scaling Indices calculated using ASTM standard practices.

O' R PROPERTIES

	
pH ·	6.40
Specific Gravity	1.13
Turbidity	
Oxygen, as O2 ppm	