

T. 26 N. 16w Sec. 4

 NALCO Water Analysis

Prepared for STERLING DRILLING
 TROUSDALE, KS

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 NALCO Chemical Company
 7-Jan-86

Well Number : MAYHEW A-2-4
 Water Source : WELLHEAD

DISSOLVED SOLIDS
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Cations		mg/l	meq/l		mg/l
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Sodium	Na+	52,043.03	2,262.74	as NaCl	
Calcium	Ca++	12,720.00	636.00	as CaCO3	31,800.00
Magnesium	Mg++	2,089.80	171.99	as CaCO3	8,600.00
Barium	Ba++			as CaCO3	
Total Cations		66,852.83	3,070.73		

Anions		mg/l	meq/l		mg/l
=====		=====	=====		=====
Chloride	Cl-	108,653.00	3,064.01	as NaCl	179,000.00
Sulfate	SO4=	169.00	3.52	as Na2SO4	250.00
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	195.20	3.20	as CaCO3	160.00
Total Anions		109,017.20	3,070.73		

Total Solids 175,870.03

Total Iron, Fe as Fe
 Acid to Phen, CO2 167.20 as CaCO3 380.00

SCALING INDICES
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Temp	CaCO3	CaSO4	BaSO4
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50 F	+0.35	-16.08	
77 F	+0.59		
95 F	+0.79	-16.28	
122 F	+1.17	-15.79	
149 F	+1.63		
176 F	+2.19	-15.47	
203 F	+2.83		

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

OTHER PROPERTIES
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pH 6.80
 Specific Gravity 1.15
 Turbidity
 Oxygen, as O2 ppm