

7.26 Nalco Sec. 4

VCO Water Analysis

Prepared for STERLING DRILLING COMPANY  
TROUSDALE, KS

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NALCO Chemical Company  
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Well Number : MAYHEW A-6-4  
Water Source : WELLHEAD

DISSOLVED SOLIDS

Cations	mg/l	meq/l		mg/l
Sodium Na+	50,179.82	2,181.73	as NaCl	
Calcium Ca++	11,040.00	552.00	as CaCO3	27,600.00
Magnesium Mg++	2,527.20	207.99	as CaCO3	10,400.00
Barium Ba++			as CaCO3	
<b>Total Cations</b>	<b>63,747.02</b>	<b>2,941.72</b>		

Anions	mg/l	meq/l		mg/l
Chloride Cl-	103,797.00	2,927.08	as NaCl	171,000.00
Sulfate SO4=	473.20	9.84	as Na2SO4	700.00
Carbonate CO3=			as CaCO3	
Bicarb. HCO3-	292.80	4.80	as CaCO3	240.00
<b>Total Anions</b>	<b>104,563.00</b>	<b>2,941.72</b>		

Total Solids 168,310.02

Total Iron, Fe as Fe  
Acid to Phen, CO2 352.00 as CaCO3 800.00

SCALING INDICES

Temp	CaCO3	CaSO4	BaSO4
50 F	-0.36	-11.36	
77 F	-0.12		
95 F	+0.07	-11.62	
122 F	+0.45	-11.05	
149 F	+0.92		
176 F	+1.47	-10.57	
203 F	+2.11		

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

O' R PROPERTIES

pH 6.00  
Specific Gravity 1.14  
Turbidity  
Oxygen, as O2 ppm  
Sulfide as H2Sppm