

T.26 R.16W Sec.4

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 V. JO Water Analysis

Prepared for STERLING DRILLING  
 TROUSDALE, KS

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 NALCO Chemical Company  
 7-Jan-86

Well Number : CUDNEY B-10-4  
 Water Source : WELLHEAD

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DISSOLVED SOLIDS

Cations		mg/l	meq/l		mg/l
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Sodium	Na+	40,594.90	1,765.00	as NaCl	
Calcium	Ca++	11,600.00	580.00	as CaCO3	29,000.00
Magnesium	Mg++	2,089.80	171.99	as CaCO3	8,600.00
Barium	Ba++			as CaCO3	
Total Cations		54,284.70	2,516.99		

Anions		mg/l	meq/l		mg/l
=====		=====	=====		=====
Chloride	Cl-	88,622.00	2,499.14	as NaCl	146,000.00
Sulfate	SO4=	473.20	9.84	as Na2SO4	700.00
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	488.00	8.00	as CaCO3	400.00

Total Anions 89,583.20 2,516.99

Total Solids 143,867.90

Total Iron, Fe as Fe  
 Acid to Phen, CO2 193.60 as CaCO3 440.00

SCALING INDICES

Temp	CaCO3	CaSO4	BaSO4
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50 F	-0.18	-9.35	
77 F	+0.05		
95 F	+0.26	-9.63	
122 F	+0.64	-9.10	
149 F	+1.10		
176 F	+1.66	-8.45	
203 F	+2.29		

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

OTHER PROPERTIES

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pH 6.00  
 Specific Gravity 1.12  
 Turbidity  
 Oxygen, as O2 ppm