

7.22  
T.26 R.16W SEC.4

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 V...CO Water Analysis

Prepared for STERLING DRILLING  
 TROUSDALE, KS

Gary L. Fritzler  
 NALCO Chemical Company  
 7-Jan-86

Well Number : CUDNEY B-11-4  
 Water Source : WELLHEAD

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DISSOLVED SOLIDS

Cations		mg/l	meq/l		mg/l
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Sodium	Na+	45,603.19	1,982.75	as NaCl	
Calcium	Ca++	11,760.00	588.00	as CaCO3	29,400.00
Magnesium	Mg++	2,235.60	183.99	as CaCO3	9,200.00
Barium	Ba++			as CaCO3	
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Total Cations		59,598.79	2,754.74		

Anions		mg/l	meq/l		mg/l
=====		=====	=====		=====
Chloride	Cl-	97,120.00	2,738.78	as NaCl	160,000.00
Sulfate	SO4=	574.60	11.95	as Na2SO4	850.00
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	244.00	4.00	as CaCO3	200.00
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Total Anions		97,938.60	2,754.74		

Total Solids 157,537.39

Total Iron, Fe			as Fe	
Acid to Phen, CO2	220.00		as CaCO3	500.00

SCALING INDICES

Temp	CaCO3	CaSO4	BaSO4
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50 F	-0.43	-7.30	
77 F	-0.20		
95 F		-7.56	
122 F	+0.38	-7.03	
149 F	+0.85		
176 F	+1.40	-6.50	
203 F	+2.04		

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

OTHER PROPERTIES

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pH	6.00
Specific Gravity	1.13
Turbidity	
Oxygen, as O2 ppm	