

WISCO Water Analysis

Prepared for WOOD, MCSHANE AND THAMS
KERMIT, TEXAS

WAYNE NAIL
NALCO Chemical Company
16-Jul-85

Well Number : SOUTH LEONARD QUEENS
Water Source : PRODUCED WATER AT WATER STATION

(Queen)

DISSOLVED SOLIDS

Cations		mg/l	meq/l		mg/l
		=====	=====		=====
Sodium	Na+	34,315.42	1,491.97	as NaCl	
Calcium	Ca++	4,680.00	234.00	as CaCO3	11,700.00
Magnesium	Mg++	4,860.00	399.98	as CaCO3	20,000.00
Barium	Ba++			as CaCO3	
Total Cations		43,855.42	2,125.95		

Anions		mg/l	meq/l		mg/l
		=====	=====		=====
Chloride	Cl-	72,233.00	2,036.97	as NaCl	119,000.00
Sulfate	SO4=	3,508.44	72.98	as Na2SO4	5,190.00
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	976.00	16.01	as CaCO3	800.00
Total Anions		76,717.44	2,125.95		
Total Solids		120,572.86			
Total Iron, Fe				as Fe	
Acid to Phen, CO2		176.00		as CaCO3	400.00

SCALING INDICES

Temp	CaCO3	CaSO4	BaSO4
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50 F	+0.84	+28.67	
77 F	+1.09		
95 F	+1.30	+27.96	
122 F	+1.68	+29.04	
149 F	+2.14		
176 F	+2.68	+31.09	
203 F	+3.30		

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

OTHER PROPERTIES

pH	7.20
Specific Gravity	1.10
Turbidity	
Oxygen, as O2 ppm	
Sulfide as H2S ppm	
Temperature F	70.00