

Water Analysis

Sampled for WOOD, MCSHANE AND THAMS
HERMIT, TEXAS

WAYNE NAIL
NALCO Chemical Company
16-Jul-85

Well Number : SOUTH LEONARD QUEENS
Water Source : UN. WSW #1

San Andres Make Up Water

DISSOLVED SOLIDS

Cations	mg/l	meq/l		mg/l
	=====	=====		=====
Sodium Na+	25,207.21	1,095.97	as NaCl	
Calcium Ca++	960.00	48.00	as CaCO3	2,400.00
Magnesium Mg++	437.40	36.00	as CaCO3	1,800.00
Barium Ba++			as CaCO3	
Total Cations	26,604.61	1,179.96		

Anions	mg/l	meq/l		mg/l
	=====	=====		=====
Chloride Cl-	38,848.00	1,095.51	as NaCl	64,000.00
Sulfate SO4=	3,386.76	70.44	as Na2SO4	5,010.00
Carbonate CO3=			as CaCO3	
Bicarb. HCO3-	854.00	14.01	as CaCO3	700.00
Total Anions	43,088.76	1,179.96		

Total Solids 69,693.37

Total Iron, Fe		as Fe	
Acid to Phen, CO2	308.00	as CaCO3	700.00

SCALING INDICES

Temp	CaCO3	CaSO4	BaSO4
	-----	-----	-----
50 F	-0.21	-16.20	
77 F	+0.02		
95 F	+0.23	-16.70	
122 F	+0.61	-16.66	
149 F	+1.07		
176 F	+1.61	-13.86	
203 F	+2.24		

Positive values indicate scaling is likely.

Scaling Indices calculated using ASTM standard practices.

OTHER PROPERTIES

pH	6.80
Specific Gravity	1.05
Turbidity	
Oxygen, as O2 ppm	
Sulfide as H2S ppm	
Temperature F	70.00