



t. 28 R. 16E
Sec. 36

REPORT OF WATER ANALYSIS

Company JOHN T. DAVIS
Altoona, KS

Date 2-27-84
Analysis No.
Sampling Date 2-16-84
Date Sample Rec'd.

Sample Marked Umbarger K11 - wellhead

DISSOLVED SOLIDS

RESULTS AS COMPOUNDS .

Cations	mg/l	meq/l		mg/l
Sodium, Na (Calc.)	12,466	542	as NaCl	
Calcium, Ca	3,200	160	as CaCO ₃	8,000
Magnesium, Mg	1,944	160	as CaCO ₃	8,000
Barium, Ba	0	0	as BaSO ₄	0
Cations Total	17,610			
Anions				
Chloride, Cl	30,350	856	as NaCl	50,000
Sulfate, SO ₄	20	0	as Na ₂ SO ₄	30
Carbonate, CO ₃	0	0	as CaCO ₃	0
Bicarbonate, HCO ₃	390	6	as CaCO ₃	320
Anions Total	30,760			
Total Dissolved Solids (Calc.)	48,370			
Total Iron, Fe	.85		as Fe	.85
Acidity to Phenolphthalein, CO ₂			as CaCO ₃	

OTHER PROPERTIES

pH 7.4
Specific Gravity 1.040
Turbidity (JTU)

CaCO₃ STABILITY INDEX

@ 70° F.
@ 120° F.
@ 160° F.
Method of Stiff & Davis

Remarks:

Gary Tharp

**NALCO CHEMICAL COMPANY
VISCO CHEMICALS**

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