



T. 28 NSC. 16G
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 C13 - wellhead

DISSOLVED SOLIDS

Cations	mg/l	meq/l
Sodium, Na (Calc.)	21,942	954
Calcium, Ca	2,800	140
Magnesium, Mg	2,430	200
Barium, Ba	0	0

RESULTS AS COMPOUNDS

	mg/l
as NaCl	
as CaCO ₃	7,000
as CaCO ₃	10,000
as BaSO ₄	0

Cations Total 27,172

Anions

	mg/l	meq/l
Chloride, Cl	45,525	1,284
Sulfate, SO ₄	20	0
Carbonate, CO ₃	0	0
Bicarbonate, HCO ₃	586	10

	mg/l
as NaCl	75,000
as Na ₂ SO ₄	30
as CaCO ₃	0
as CaCO ₃	480

Anions Total 46,131

Total Dissolved Solids (Calc.) 73,303

Total Iron, Fe 5.3

Acidity to Phenolphthalein, CO₂

as Fe 5.3
as CaCO₃

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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