

T.28 NSC-160 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 111 - wellhead

### DISSOLVED SOLIDS

Cations	mg/l	meq/l
Sodium, Na (Calc.)	14,007	609
Calcium, Ca	2,400	120
Magnesium, Mg	2,673	220
Barium, Ba	0	0

### RESULTS AS COMPOUNDS

	mg/l
as NaCl	
as CaCO <sub>3</sub>	6,000
as CaCO <sub>3</sub>	11,000
as BaSO <sub>4</sub>	0

Cations Total 19,080

### Anions

	mg/l	meq/l
Chloride, Cl	33,385	941
Sulfate, SO <sub>4</sub>	9	0
Carbonate, CO <sub>3</sub>	0	0
Bicarbonate, HCO <sub>3</sub>	488	8

as NaCl	55,000
as Na <sub>2</sub> SO <sub>4</sub>	14
as CaCO <sub>3</sub>	0
as CaCO <sub>3</sub>	400

Anions Total 33,882

Total Dissolved Solids (Calc.) 52,962

Total Iron, Fe .35

Acidity to Phenolphthalein, CO<sub>2</sub>

as Fe .35  
as CaCO<sub>3</sub>

### OTHER PROPERTIES

pH	7.2
Specific Gravity	1.040
Turbidity (JTU)	

### CaCO<sub>3</sub> STABILITY INDEX

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

Remarks:

Gary Tharp

**NALCO CHEMICAL COMPANY**  
**VISCO CHEMICALS**

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