

T. 28 NSC-166 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 G11 - wellhead

### DISSOLVED SOLIDS

### RESULTS AS COMPOUNDS .

Cations	mg/l	meq/l		mg/l
Sodium, Na (Calc.) .....	14,398	626	as NaCl .....	
Calcium, Ca .....	2,800	140	as CaCO <sub>3</sub> .....	7,000
Magnesium, Mg .....	2,430	200	as CaCO <sub>3</sub> .....	10,000
Barium, Ba .....	0	0	as BaSO <sub>4</sub> .....	0
<b>Cations Total .....</b>	<b>19,628</b>			
<b>Anions</b>				
Chloride, Cl .....	33,992	959	as NaCl .....	56,000
Sulfate, SO <sub>4</sub> .....	14	0	as Na <sub>2</sub> SO <sub>4</sub> .....	21
Carbonate, CO <sub>3</sub> .....	0	0	as CaCO <sub>3</sub> .....	0
Bicarbonate, HCO <sub>3</sub> .....	439	7	as CaCO <sub>3</sub> .....	360
<b>Anions Total .....</b>	<b>34,445</b>			
<b>Total Dissolved Solids (Calc.) ...</b>	<b>54,073</b>			
Total Iron, Fe .....	.55		as Fe .....	.55
Acidity to Phenolphthalein, CO <sub>2</sub> ..			as CaCO <sub>3</sub> .....	

### OTHER PROPERTIES

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

pH ..... 7.4  
Specific Gravity ..... 1.040  
Turbidity (JTU) .....

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

Remarks:

Gary Tharp

**NALCO CHEMICAL COMPANY  
VISCO CHEMICALS**

P. O. BOX 87 • SUGAR LAND, TEXAS 77478