



f. 28 N5c. 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 K13 - wellhead

DISSOLVED SOLIDS

Cations	mg/l	meq/l
Sodium, Na (Calc.)	11,661	507
Calcium, Ca	2,400	120
Magnesium, Mg	2,673	220
Barium, Ba	0	0

RESULTS AS COMPOUNDS

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

Cations Total 16,734

Anions	mg/l	meq/l
Chloride, Cl	29,743	839
Sulfate, SO ₄	14	0
Carbonate, CO ₃	0	0
Bicarbonate, HCO ₃	488	8

as NaCl	49,000
as Na ₂ SO ₄	21
as CaCO ₃	0
as CaCO ₃	400

Anions Total 30,245

Total Dissolved Solids (Calc.) 46,979
Total Iron, Fe .55
Acidity to Phenolphthalein, CO₂

as Fe .55
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**

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