



# TRETOLITE

369 Marshall Avenue / Saint Louis, Missouri 63119  
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

## WATER ANALYSIS REPORT

COMPANY Rupe Oil Co. Inc. ADDRESS \_\_\_\_\_ DATE: 11-20-84

SOURCE City of Stockton # 318 DATE SAMPLED 10-31-84 ANALYSIS NO. 16939

Analysis

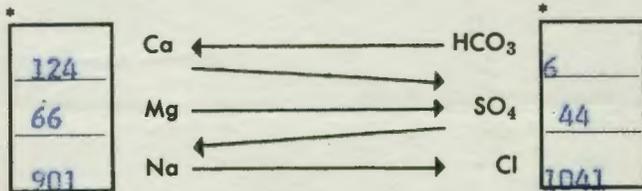
Mg/L

\*Meq/L

1. pH	<u>6.8</u>				
2. H <sub>2</sub> S (Qualitative)	<u>pos</u>				
3. Specific Gravity	<u>1.030</u>				
4. Dissolved Solids		<u>63403</u>			
5. Suspended Solids					
6. Phenolphthalein Alkalinity (CaCO <sub>3</sub> )					
7. Methyl Orange Alkalinity (CaCO <sub>3</sub> )		<u>290</u>			
8. Bicarbonate (HCO <sub>3</sub> )		HCO <sub>3</sub> <u>354</u>	÷ 61	<u>6</u>	HCO <sub>3</sub>
9. Chlorides (Cl)		Cl <u>36966</u>	÷ 35.5	<u>1041</u>	Cl
10. Sulfates (SO <sub>4</sub> )		SO <sub>4</sub> <u>2100</u>	÷ 48	<u>44</u>	SO <sub>4</sub>
11. Calcium (Ca)		Ca <u>2480</u>	÷ 20	<u>124</u>	Ca
12. Magnesium (Mg)		Mg <u>802</u>	÷ 12.2	<u>66</u>	Mg
13. Total Hardness (CaCO <sub>3</sub> )		<u>9500</u>			
14. Total Iron (Fe)		<u>1</u>			
15. Barium (Qualitative)					
16. Strontium					

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### PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20°C
Ca CO <sub>3</sub>	13 Mg/L
Ca SO <sub>4</sub> • 2H <sub>2</sub> O	2,090 Mg/L
Mg CO <sub>3</sub>	103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.04		<u>6</u>		<u>486</u>
Ca SO <sub>4</sub>	68.07		<u>44</u>		<u>2995</u>
Ca Cl <sub>2</sub>	55.50		<u>74</u>		<u>4107</u>
Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.17				
Mg SO <sub>4</sub>	60.19				
Mg Cl <sub>2</sub>	47.62		<u>66</u>		<u>3143</u>
Na HCO <sub>3</sub>	84.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
Na Cl	58.46		<u>901</u>		<u>52672</u>

REMARKS Sutter

Respectfully submitted  
TRETOLITE

J. Ward

Master copy John Ward 4/8/85