



# TRETOLITE DIVISION

369 Marshall Avenue / Saint Louis 19, Missouri.

## WATER ANALYSIS REPORT

Jul 23 11 13 AM '68  
D.C.C.

COMPANY Hanson Oil Co. ADDRESS Roswell, N.M. DATE: 1-26-68  
SOURCE Mescalero Ridge Unit DATE SAMPLED 1-20-68 ANALYSIS NO. 2040

| Analysis                                            | Mg/L                        | *Meq/L                         |
|-----------------------------------------------------|-----------------------------|--------------------------------|
| 1. PH <u>7.7</u>                                    |                             |                                |
| 2. H <sub>2</sub> S (Qualitative) <u>Neg.</u>       |                             |                                |
| 3. Specific Gravity <u>1.000</u>                    |                             |                                |
| 4. Dissolved Solids <u>2,950</u>                    |                             |                                |
| 5. Suspended Solids                                 |                             |                                |
| 6. Phenol Alkalinity (CaCO <sub>3</sub> )           |                             |                                |
| 7. M. O. Alkalinity (CaCO <sub>3</sub> ) <u>180</u> |                             |                                |
| 8. Bicarbonate (HCO <sub>3</sub> )                  | HCO <sub>3</sub> <u>220</u> | ÷ 61 <u>4</u> HCO <sub>3</sub> |
| 9. Chlorides (Cl)                                   | Cl <u>747</u>               | ÷ 35.5 <u>21</u> Cl            |
| 10. Sulfates (SO <sub>4</sub> )                     | SO <sub>4</sub> <u>954</u>  | ÷ 48 <u>20</u> SO <sub>4</sub> |
| 11. Calcium (Ca)                                    | Ca <u>80</u>                | ÷ 20 <u>4</u> Ca               |
| 12. Magnesium (Mg)                                  | Mg <u>24</u>                | ÷ 12.2 <u>2</u> Mg             |
| 13. Total Hardness (CaCO <sub>3</sub> ) <u>300</u>  |                             |                                |
| 14. Total Iron (Fe) <u>1.3ppm</u>                   |                             |                                |
| 15. Barium (Qualitative)                            |                             |                                |
| 16.                                                 |                             |                                |

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\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION

|    | Ca | HCO <sub>3</sub> |    | Compound                            | Equiv. Wt. | X | Meq/L | = | Mg/L  |
|----|----|------------------|----|-------------------------------------|------------|---|-------|---|-------|
| 4  | ←  | →                | 4  | Ca (HCO <sub>3</sub> ) <sub>2</sub> | 81.04      |   | 4     |   | 324   |
| 2  | ←  | →                | 20 | Ca SO <sub>4</sub>                  | 68.07      |   |       |   |       |
| 39 | ←  | →                | 21 | Ca Cl <sub>2</sub>                  | 55.50      |   |       |   |       |
|    |    |                  |    | Mg (HCO <sub>3</sub> ) <sub>2</sub> | 73.17      |   |       |   |       |
|    |    |                  |    | Mg SO <sub>4</sub>                  | 60.19      |   | 2     |   | 120   |
|    |    |                  |    | Mg Cl <sub>2</sub>                  | 47.62      |   |       |   |       |
|    |    |                  |    | Na HCO <sub>3</sub>                 | 84.00      |   |       |   |       |
|    |    |                  |    | Na <sub>2</sub> SO <sub>4</sub>     | 71.03      |   | 18    |   | 1,280 |
|    |    |                  |    | Na Cl                               | 58.46      |   | 21    |   | 1,230 |

  

| 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             |

REMARKS Mr. Ernest A. Hanson, Box 1515 Roswell N.M.  
Buford Parmer, Worsham, file

Respectfully submitted  
TRETOLITE COMPANY  
Ray Shaffner