

Analyses by Geological Survey, United States Department of the Interior
(parts per million) Brine Sample

Lab. No. 8016

| | | | | |
|---|---------|--|--|--|
| Date of Collection ...1955 | Nov. 7 | | | |
| Silica (SiO ₂) | -- | | | |
| Iron (Fe), dissolved <u>1/</u> | 302 | | | |
| Iron (Fe), total | .00 | | | |
| Manganese (Mn), dissolved <u>1/</u> | 4.0 | | | |
| Manganese (Mn), Total | -- | | | |
| Calcium (Ca) | 6,910 | | | |
| Magnesium (Mg) | 3,010 | | | |
| Sodium (Na) | 53,500 | | | |
| Potassium (K) | 2,030 | | | |
| Bicarbonate (HCO ₃) | -- | | | |
| Carbonate (CO ₃) | -- | | | |
| Sulfate (SO ₄) | 1,380 | | | |
| Chloride (Cl) | 108,000 | | | |
| Fluoride (F) | 4.0 | | | |
| Nitrate (NO ₃) | 123 | | | |
| Dissolved solids | | | | |
| Sum | 175,000 | | | |
| Residue on evaporation | -- | | | |
| at 180°C | | | | |
| Hardness as CaCO ₃ | 30,200 | | | |
| Non-carbonate | 30,200 | | | |
| Specific conductance | | | | |
| (micromhos at 25°C) | 118,000 | | | |
| pH | 4.2 | | | |
| Color | 12 | | | |
| Acidity as H ₂ SO ₄ | 881 | | | |
| Aluminum | .13 | | | |
| Bromide | 33 | | | |

1/ In solution at time of analysis.

Density: (gm. /ml.) 1.134

Note. -- Spot tests were made for Iodide, Chromium, Zinc and Copper and found to be negative.

Due to high concentration of iron, with its subsequent hydrolysis during analysis, the total acidity value cannot be considered reliable and is included only as an indication of the base neutralizing potential of the water.

Lab No. 8016. Salt water sample from No. 1 Wischart well produced Oct. 1955.