

MEMBER Atlantic-Richfield Company
 OPERATOR Atlantic-Richfield Company
 WELL NO. Dickinson Lease
 FIELD W. Padroni
 COUNTY
 STATE Colorado

LAB NO. 5545-2 REPORT NO.
 LOCATION
 FORMATION "O" Sand
 INTERVAL
 SAMPLE FROM Treater (5-4-71)
 DATE May 13, 1971

Facility 116190
 Document 2143692

REMARKS & CONCLUSIONS:

| Cations | mg/l | meq/l |
|---------------|--------|-------|
| Sodium | 1966 | 85.53 |
| Potassium | 18 | 0.46 |
| Lithium | - | - |
| Calcium | 7 | 0.35 |
| Magnesium | 4 | 0.33 |
| Iron | absent | - |
| Total Cations | | 86.67 |

| Anions | mg/l | meq/l |
|------------------|--------|-------|
| Sulfate | 183 | 3.81 |
| Chloride | 1590 | 44.84 |
| Carbonate | - | - |
| Bicarbonate | 2318 | 38.02 |
| Hydroxide | - | - |
| Hydrogen sulfide | absent | - |
| Total Anions | | 86.67 |

Total dissolved solids, mg/l 4910
 NaCl equivalent, mg/l 4306
 Observed pH 8.0

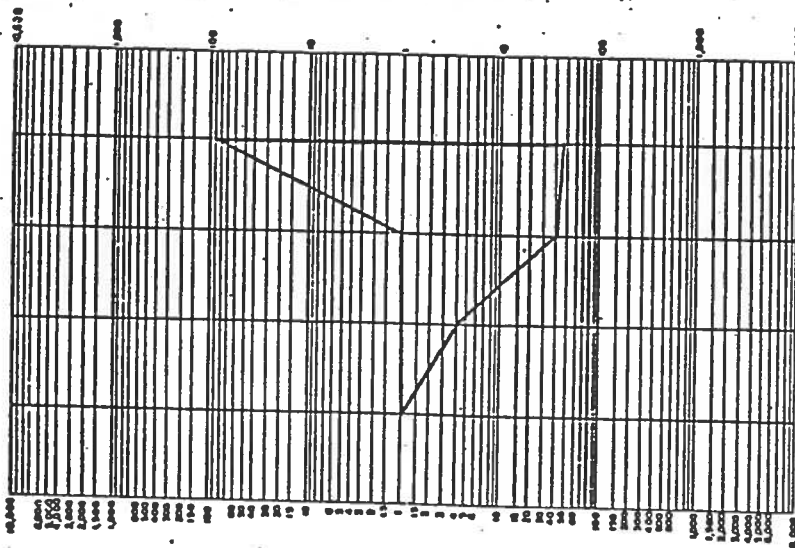
Specific resistance @ 68° F.:
 Observed 1.38 ohm-meters
 Calculated 1.44 ohm-meters

WATER ANALYSIS PATTERNS

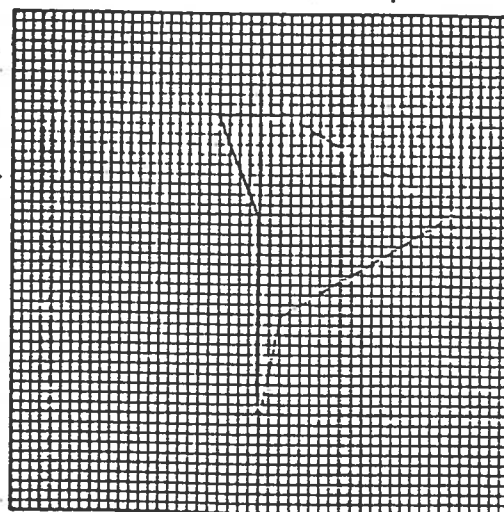
MEQ per unit

LOGARITHMIC

STANDARD



Cl Na
 20
 HCO₃ Ca
 2
 SO₄ Mg
 2
 CO₃ Fe
 2



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l=MILLigrams per liter. Meq/l=MILLigram equivalents per liter
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components