

001-6663  
P. + 114042



02143937

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

RECEIVED  
AUG 27 1973  
ATTACHMENT  
30 MIN. & GAS CONNS. CHAM.

MEMBER Amoco Production Company  
OPERATOR Amoco Production Company  
WELL NO. Champlin 113; Amoco A-1  
FIELD Noonan Ranch  
COUNTY Adams  
STATE Colorado

LAB NO. 10552 REPORT NO.  
LOCATION MSA Section 23-3S-59W  
FORMATION "J" Sand  
INTERVAL 6189-6199  
SAMPLE FROM Pit Tank (7/13/73)  
DATE July 16, 1973

REMARKS & CONCLUSIONS: Clear water.

| Cations       | mg/l | meq/l  | Anions           | mg/l | meq/l  |
|---------------|------|--------|------------------|------|--------|
| Sodium        | 4952 | 215.41 | Sulfate          | 220  | 4.58   |
| Potassium     | 277  | 7.09   | Chloride         | 6950 | 195.99 |
| Lithium       | -    | -      | Carbonate        | -    | -      |
| Calcium       | 78   | 3.89   | Bicarbonate      | 1635 | 26.81  |
| Magnesium     | 12   | 0.99   | Hydroxide        | -    | -      |
| Iron          | -    | -      | Hydrogen sulfide | -    | -      |
| Total Cations |      | 227.38 | Total Anions     |      | 227.38 |

Total dissolved solids, mg/l 13,294  
NaCl equivalent, mg/l 12,829  
Observed pH 7.6

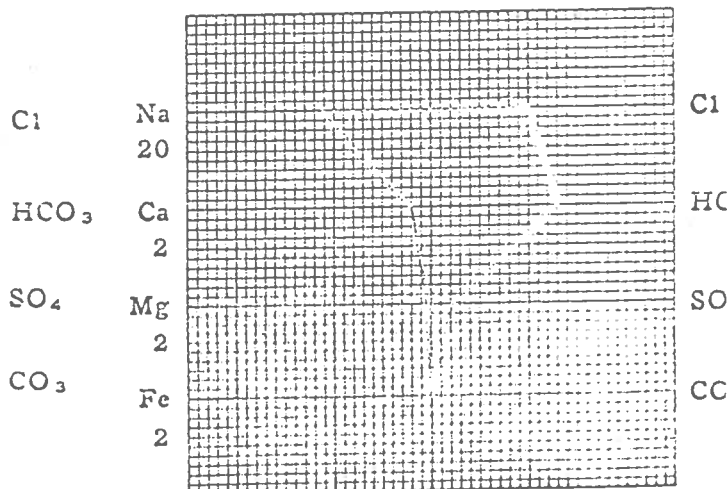
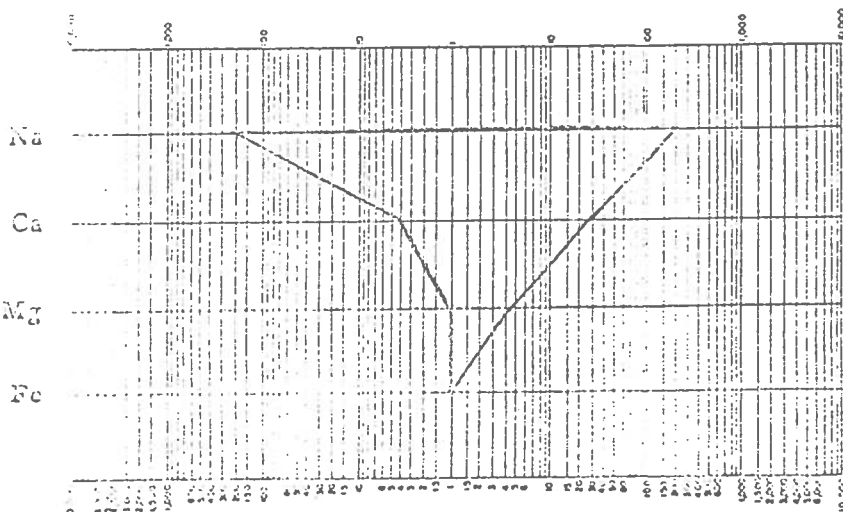
Specific resistance @ 68° F.:  
Observed 0.60 ohm-meters  
Calculated 0.52 ohm-meters

### WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



(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