

WATER ANALYSIS

Company: UNION TEXAS PETROLEUM  
Address: 375 U.S. HWY 64  
FARMINGTON, NM 87401  
Attention: MIKE PIPPIN  
Date Sampled: 10/8/85

Report No: 1  
Date: 10/11/85  
County: RIO ARRIBA, N.M.  
Field: BASIN  
Formation: DAKOTA  
Lease: JICARILLA N  
Well: #2

Specific Grav: 1.002  
Chloride 7,498 mg/l  
Bicarbonate: 244 mg/l  
Sulfate: 100 mg/l  
Sulfide: 0  
Total Hardness  
(as CaCO<sub>3</sub>) 500 mg/l  
Resistivity: 0.74  
Potassium: 0

pH 8.50  
Calcium: 80 mg/l  
Magnesium: 73 mg/l  
Total iron: 3 mg/l  
Sodium: 4,768 mg/l  
Total Dissolved  
Solids: 12,766 mg/l  
Ohm Meters @: 70 F  
Carbonate: 180 mg/l


Sample Source: Bottom of Dakota Condensate Tank

Remarks:

Dakota water production is less than 1 BPD.

Dakota and Gallup waters from this well are compatible, i.e. there should be no detrimental effects such as a precipitate.

DEPUTY EXAMINER STODNER  
Oil Conservation Division  
VTP Exhibit No. 12  
Case No. 8768

  
LOREN L. DIEDE  
SMITH ENERGY ENGINEER

WATER ANALYSIS

Company: UNION TEXAS PETROLEUM  
Address: 375 U.S. HWY 64  
FARMINGTON, NM 87401  
Attention: MIKE PIPPIN  
Date Sampled: 10/8/85

Report No: 2  
Date: 10/11/85  
County: RIO ARRIBA, N.M.  
Field: OTERO  
Formation: GALLUP  
Lease: JICARILLA N  
Well: #2

Specific Grav: 1.000  
Chloride 1,800 mg/l  
Bicarbonate: 366 mg/l  
Sulfate: 0  
Sulfide: 0  
Total Hardness  
(as CaCO<sub>3</sub>) 300 mg/l  
Resistivity: 2.00  
Potassium: 0

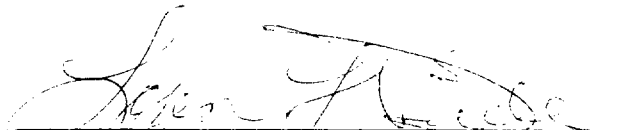
pH 7.50  
Calcium: 40 mg/l  
Magnesium: 49 mg/l  
Total iron: 3 mg/l  
Sodium: 1,164 mg/l  
Total Dissolved  
Solids: 3,421 mg/l  
Ohm Meters @: 70 F  
Carbonate: NONE

Sample Source: Bottom of Gallup Condensate Tank

Remarks:

Gallup water production is less than 1 BPD.

Dakota and Gallup waters from this well are compatible, i.e. there should be no detrimental effects such as a precipitate.

  
LOREN L. DIEDE  
SMITH ENERGY ENGINEER