



Drilling Fluids Division

Date October 26, 1973

Company AMERICAN QUASAR

Location Section 1-T25S-R25E

Well Name ARCO Fed #1

Survey

County Eddy

State New Mexico

MUD SPECIFICATIONS

CASING

FORMATION

Depth
ft

Mud Weight
ppg

Viscosity
sec/qt

API Filtrate
ml

7-5/8"

9-5/8"

0-1,600 8.6-9.8 32-40 No Control

Spud with MILGEL[®] and MIL-LIME[™] in fresh water, maintaining viscosity as required with Flosal to set surface pipe.

1,600-8,300 8.4-8.5 38-30 No Control

Drill with fresh water, adjusting the mud weight with brine water as needed. Use MIL-LIME for pH control, Flosal sweeps for hole cleaning, and Paper-Ox for seepage.

8,300-9,400 9.8-10.1 28-30 No Control

Circulate the reserve using potash brine, adding Soda Ash and Caustic Soda for pH control.

9,400-10,500 10.0-11.6 30-35 10-12 ml

Continue to circulate the reserve pit, adding Caustic Soda and Soda Ash to control pH. When excessive gas is encountered, return to steel pits, adding Milchem's PERM-A-TEC SYSTEM[™] and increasing mud weight to the desired ranges.

10,500-12,000 10.0-11.6 30-35 10-12 ml

Should a weighted mud be required in the above formations, continue to circulate the steel pits, maintaining or reducing the mud densities to the lowest possible range.

Delaware
Ramsey

Bone Springs

3rd Bone Springs

Wolfcamp

Strawn
Atoka

Morrow

Barnett
Chester