



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		1	Delaware Ramsey
Spud with MILGEL [®] and MIL-LIME [™] in fresh water, maintaining viscosity as required with Flosal to set surface pipe.					3	
1,600-8,300	8.4-8.5	38-30	No Control		5	Bone Springs
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.					7	
8,300-9,400	9.8-10.1	28-30	No Control		9	3rd Bone Springs
Circulate the reserve using potash brine, adding Soda Ash and Caustic Soda for pH control.					11	Wolfcamp
9,400-10,500	10.0-11.6	30-35	10-12 ml		13	Strawn Atoka Morrow Barnett Chester
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.						