

# MARRS MUD, INC.

Sales Office  
1118 W. Aspen — Ph. 396-4876  
Lovington, N.M. 88260

1717 W. Second St.

Phone 623-2432

Roswell, New Mexico 88201

## Suggested Drilling Fluid Program

June 13, 1979

**RECEIVED**

**JUN 28 1979**

Boyd Operating Co.  
Drawer I  
Artesia, N. M. 88210

**U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO**

Dear Mr. Morgan;

Thank you for the opportunity to be of service to you and Boyd Operating Co.

The following is our proposed drilling fluid program for your "Blakemore Federal #1" to be drilled in Section 20, T-9-S, R-26-E, Chaves County, New Mexico.

Surface: 300' of 13 3/8"

We suggest spudding with a gel lime slurry having 32 to 34 Sec./1000<sup>cc</sup> viscosity. This fluid should be adequate to drill to casing point.

No trouble is anticipated in this interval.

Intermediate: 1,200' of 8 5/8"

We suggest drilling this interval with native mud and maintaining a stable 33 to 35 Sec./1000<sup>cc</sup> viscosity.

It is very important to maintain a stable viscosity to minimize hole trouble. This fluid should be adequate to drill to casing point.

Production: 6,000' of 5 1/2"

We suggest drilling out from under the intermediate casing with water and using Jet Jel to keep the water clean. This fluid should be adequate to drill to 5,000' or 150' above the Abo formation.

At this point we suggest raising the viscosity to 38 to 40 Sec./1000<sup>cc</sup> and adding 3 to 4% oil to help stabilize the hole. This fluid should be adequate to drill to 5,800', where we suggest adding starch to lower the fluid loss to 10 to 15<sup>cc</sup>.