

(9) Casing Setting Depth and Cementing Program:

- (a) Surface casing will be set at 500' and cemented with 525 sacks Halco Class "H" cement with 2% CaCl_2 .
- (b) Intermediate casing will be set at 4,000' and cemented with 1,000 sacks 16% gel Gulfmix and 200 sacks Class "C" neat.
- (c) Production casing will be set at 14,000' and cemented with adequate volume of Class "H" cement with 1.0% CFR-2 and 0.5% Halad-9 to bring cement top to approximately 9500'. NOTE: Volume of cement to be determined after running caliper log at total depth.

- (10) Pressure Control Equipment: The minimum specifications for pressure control equipment can be seen on the attached Drawing No. 4 of Gulf's blowout preventer hook-up for 5000 psi working pressure.

- (11) Circulating Media:
- | | |
|------------------|----------------------|
| 0' - 500' | Fresh water spud mud |
| 500' - 4,000' | Brine |
| 4,000' - 14,000' | Brine water poly |

(12) Testing, Logging and Coring Programs:

- (a) Formation testing may be done at any depth where samples, drilling rate or log information indicate a possible show of oil or gas.
- (b) Open-hole logs will be run prior to running casing at total depth.
- (c) Coring is not planned.

- (13) Abnormal Pressure of Temperature and Hydrogen Sulfide Gas: We do not anticipate any abnormal pressure or temperature; however, the following equipment will be installed while nipping up on intermediate casing for pressure control and detection: remote-controlled adjustable choke on flow manifold, drilling separator with gas vent line to burn pit, pit level sensors, flowline sensors and remote control BOP as shown on Drawing No. 4.

The presence of hydrogen sulfide gas is not anticipated.

- (14) Anticipated Starting Date: Drilling operations should begin approximately October 1, 1981.

- (15) Other Facets of the Proposed Operation: None

Yours very truly,



R. C. Anderson
Area Production Manager