


- (9) Casing Setting Depth and Cementing Program:
- (a) Surface casing will be set at 400', cemented with 525 sacks Howco Class "H" cement with 2%  $\text{CaCl}_2$ .
  - (b) Intermediate casing will be set at 4,200' and cemented with 1,000 sacks 16% Gel Gulfmix and 200 sacks Class "C" neat.
  - (c) Production casing will be set at 13,100' 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 9,500'. 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: 0-400' fresh water spud mud; 400-4,200' brine water; 4,200-10,300' brackish water, 8.5-10 ppg; 10,300-13,100' brine water polymer with 4% KCl. Weight of 10 ppg and up. Viscosity 34-38 sec., filtrate 10 cc's to 12,500' and 4 cc's to 13,100'.
- (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 start between June 1, 1979 and July 1, 1979.
- (15) Other Facets of the Proposed Operation: None.

Yours very truly,

  
R. C. ANDERSON  
Area Production Manager

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WASH., D. C.