

9. Casing Setting Depth and Cementing Program:
- a. Surface casing will be 9-5/8" casing set at 2050' and cemented with 1000 sacks of lightweight cement plus 200 sacks of Class "C" Neat cement with 2% CaCl<sub>2</sub>.
  - b. Intermediate casing will be 7" set at approximately 8700' and cemented with 800 sacks Class "H" cement with a .5% friction reducer and 1/4# flocele per sack for estimated top of cement 5500'.
  - c. Production casing will be a 5" liner set from 8500' to 9800' cemented with Class "H" cement with .75% friction reducer. Cement volume will be determined from caliper log.
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:
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|---------------|--|
| 0' - 2050'    | Fresh water spud mud;  |
| 2050' - 8700' | Brackish water with brine water as needed to increase weight; Polymer as required for samples and DST's;                                   |
| 8700' - 9800' | Brine water polymer with 3-4% KCl; Weight adjusted upwards from 10 ppg as well conditions dictate; Viscosity minimum; Filtrate 10-15 cc's. |
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 or oil or gas.
  - b. Open hole logs will be run at total depth.
  - c. No cores are anticipated.
13. Abnormal Pressure or Temperature and Hydrogen Sulfide Gas: We do not anticipate any abnormal pressure or temperature; however, BOP's with remote control and choke manifold as shown on Drawing No. 4 will be installed prior to drilling below surface casing.
- The presence of hydrogen sulfide is not anticipated.
14. Anticipated Starting Date: Drilling operations should begin approximately January 15, 1980.
15. Other Facets of the Proposed Operation: None.

Yours very truly,

*R. C. Anderson*  
R. C. ANDERSON  
Area Production Manager