

9. Casing Setting Depth and Cementing Program:
- Surface casing will be 10-3/4" casing set at 1800' and cemented with 1000 sacks of lightweight cement plus 200 sacks of Class "C" Neat cement with 2% CaCl₂.
 - Intermediate casing will be 7-5/8" 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'.
 - Production casing will be 5-1/2" 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:
- | | |
|---------------|--|
| 0' - 1800' | Fresh Water spud mud; |
| 1800' - 8700' | Brackish water with brine water as needed to increase weight; Polymer as required for samples and DST's; |
| 8700' - 9600' | Fresh water; |
| 9600' - 9800' | Fresh water mud weighted to 13.5 ppg. |
12. Testing, Logging and Coring Programs:
- Formation testing may be done at any depth where samples, drilling rate or log information indicate a possible show of oil or gas.
 - Open hole logs will be run at total depth.
 - No cores are anticipated.
13. Abnormal Pressure or Temperature and Hydrogen Sulfide Gas: Abnormal pressure may be encountered in the Wolfcamp formation at 9700'. A weighted mud will be used and BOP's with remote control and choke manifold as shown on Drawing No. 4 will be installed prior to drilling below surface casing. No abnormal temperature or Hydrogen Sulfide are anticipated.
14. Anticipated Starting Date: Drilling operations should begin approximately August 25, 1980.
15. Other Facets of the Proposed Operation: None.

Yours very truly,

R. C. Anderson
R. C. Anderson
Area Production Manager

RLV/tdp