

9. Casing Setting Depth and Cementing Program:

- a. Surface casing will be 9-5/8" casing set at 2100' and cemented with 800 sacks of lightweight cement plus 200 sacks of Class "C" Neat cement.
- b. Production casing will be 5-1/2" set at approximately 11,650' and cemented with Class "H" cement with 5# per sack KCl and a friction reducer. Volume of cement will be determined from caliper log. Cement will be brought back to 6500'.

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' - 2,100'	Fresh water spud mud;
2,100' - 10,000'	Brackish water with brine water as needed to increase weight; Polymer as required for samples and DST's;
10,000' - 11,000'	Brine water polymer with 3-4% KCl; Weight adjusted upwards from 10 ppg as well conditions dictate; Viscosity minimum; Filtrate 10-15 cc's;
11,000' - 11,650'	Brine water polymer as above; Filtrate, 4 cc's or less.

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 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 gas is not anticipated.

14. Anticipated Starting Date: Drilling operations should begin approximately September 1, 1978.

15. Other Facets of the Proposed Operation: None.

Yours very truly,



C. D. BORLAND
Area Production Manager