

9. Casing Setting Depth and Cementing Program:

- a. Surface casing will be 16" casing set at 400' and cemented with 200 sacks of lightweight cement plus 200 sacks of Class "C" Neat cement with 2% CaCl_2 .
- b. 1st intermediate casing will be 10-3/4" set at approximately 2650' and cemented with 900 sacks Class "C" with 16% gel and 1/4# floccle per sack.
- c. 2nd intermediate casing will be 7-5/8" set at 11,000' and cemented with 500 sacks Class "H" with .5% CFR-2, estimated TOC at 7000'.
- d. Production casing will be a 5" liner set from 10,800' to 12,800' and cemented with Class "H" cement with 1.0% friction reducer and .5% Halad-9. 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' - 400' | Fresh water spud mud |
| 400' - 2,700' | Saturated brine water |
| 2,700' - 11,000' | Brackish water; weight as needed to control well. Change to saturated brine water at top of Wolfcamp |
| 11,000' - 12,000' | Fresh water chemical mud; weight 11.5-11.9 ppg, filtrate 10 cc's or less. Weight will be adjusted upwards with barite if necessary |
| 12,000' - 12,800' | Same fluid as above with filtrate 5 cc's or less. Add 2-3% KCL to inhibit shales. Watch for possibility of loss of returns in the lower Morrow or upper Barnett |

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 gas is not anticipated.

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