- 9. Casing Setting Depth and Cementing Program:
 - a. Surface casing will be 10-3/4" casing set at 1800' and cemented with 1200 sacks lightweight cement plug 500 sacks Class "C" neat with 2% CaCl₂ circulated.
 - b. Intermediate casing will be 7-5/8" set at 8600' and cemented with 200 sacks 16% gel Gulfmix and 200 sacks Class "C" neat for estimated top of cement 6000'.
 - c. Production casing will be a 5" liner set at 11,950' and cemented with Class "C" cement with 1.5% Halad 9 & .2% CFR-2. Cement volume will be determined from caliper log.
- 10. <u>Pressure Control Equipment</u>: The minimum specifications for pressure control equipment can be seen on the attached Drawing #4 of Gulf's blowout preventer hook-up for 5000 psi working pressure.

11.	Circulating Media:	0' - 1,100'	Fresh water spud mud;
		1,100' - 1,800'	Brine system;
		1,800' - 8,600'	Fresh water;
		8,600' - 10,200'	Brine water polymer with 3-4% KCL;
			weight adjusted upwards from 10 ppg
			as well conditions indicate, viscos-
			ity minimum, filtrate 10-15 cc's;
		10,200' - 11,950'	Salt water polymer 10.0 weight, 33 vis,
			10cc water loss-lowered to 4cc at 11,200'.

- 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 #4 will be installed prior to drilling below surface casing.

The presence of hydrogen sulfide is not anticipated.

- 14. <u>Anticipated Starting Date</u>: Drilling operations should begin approximately November 5, 1981.
- 15. Other Facets of the Proposed Operation: None

Yours very truly,

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