Drilling Operations Program Page Two

4b. The cementing program including type, amounts, and additives:

8-5/8" Surface Casing: Equip with guide shoe, insert float, and three centralizers.

Cement to surface with 250 sacks of API Class "B" cement wit

2% CaCl2.

4½" Production Casing: Equip with a float shoe, baffle collar, and 10 centralizers.

Cement to surface with 220 sacks of "Light" filler cement followed by approximately 220 sacks of API Class "B" cement

with 10% salt. All cement to contain 0.5% friction reducer

and 2% CaCl₂.

5. B.O.P. specification and testing: (see the attached schematic diagram for size and pressure ratings):

2,000 psi WP hydraulic double ram preventer with blind rams and drill pipe rams. Operation to be checked daily.

Test Hydraulic Operations

BOP	Pressure	Time	Remarks
Ram Type	1,000 psi	30 minutes	Test before drilling out
	·	•	surface casing.

6. Mud program and anticipated pressures:

From	То	Type Mud	Weight	<u>% 0il</u>	Water Loss
0' 225'	225' 1,250'	Native Gel-Chem	8.5-9.0 9.5-10.0		to weight up to las kicks are en-
1,250'	TD	Gel-Chem	10.0-11.0		c. 10 cc Water lo

7a. Type of drilling tools and auxiliary equipment:

Normal rotary tool operation requires:

- 1. Drill time and pipe weight to be recorded on a geolograph or equivalent instrument from surface to TD.
- 2. Single shot survey instrument.
- 3. Desilter or desander.