

5/7. BOP & AUXILLARY EQUIPMENT

Bop & choke are set up as indicated on Exhibit #D-1 and #D-2.

Accumulator volume will be sufficient to provide repeated open and closing of preventers.

A drill string and drill collar safety valves (in open position) will be kept on the rig floor at all times during drilling operations.

An upper and lower Kelly Cock will be used.

The hole will be kept full and fill volumes will be monitored on all trips.

PVT, flow sensor, hydraulic choke, bulk barite, gas seperator and degasser will be installed prior to 10,800'.

Mud logging unit to be in service from 8700' - T.D.

Test Procedure and Drills

Ram type preventers will be tested to rated W.P. or 70% of casing burst, whichever is less.

Annular type BOP will be tested to 50% of W.P.

Pipe rams will be operated once each 24 hrs, and blind rams will be operated on each trip.

Approved close in procedure to be posted on rig floor.

Each rig crew to hold weekly BOP drill.

6. TYPE AND MUD SYSTEM CHARACTERISTICS

<u>From</u>	<u>To</u>	<u>Type</u>	<u>WT</u>	<u>VIS</u>	<u>WTR Loss</u>
-0-	400	Frsh wtr, gel lime	8.6 - 9.2	28 - 34	NC
400	5,200	Sat brine, native mud	10.0 -10.2	28 - 30	NC
		3-5% oil			
5,200	10,800	Cut brine, gel sweeps	9.4 - 9.8	29	NC
10,800	12,700	Weighted salt mud	9.6 -10.2	32 - 36	10 - 15
12,700	13,700	Weighted salt mud, KCL	10.2 -12.5	36 - 50	10 - 15

8. TESTING PROGRAM

Possible DST's 8700' - T.D. as dictated by shows. Such tests, if necessary, will be conducted under prudent industry practice.

Open Hole Logs Planned - Schlumberger
CNL/LDT/GR/CAL Surf - T.D.
DLL/MSFL 5200' - T.D.

9. POTENTIAL HAZARDS

No H²S or abnormal temperature is anticipated. Abnormal pressures are possible from 10,900' to T.D., but have been considered and designed for in the proposed program. Maximum mud weight is anticipated to be 12.5 PPG.

10. ESTIMATED STARTING DATE

As soon as possible subject to approval of this permit.