

April 22, 1977

11. Pressure Control Equipment.

0-1800' - 12" 3000# BOP with blind and pipe rams.

1800-8330' - 10" 3000 BOP with blind and pipe rams, 10" 3000# annular type preventer, 3000# choke manifold, 80 gallon accumulator (minimum) with floor and remote operating station and auxiliary power system, upper and lower kelly cocks, inside BOP's for all size equipment in drill string. The BOP's and choke manifold will be tested to rated working pressure 3000# by an independent testing company prior to drilling out cement in the 8-5/8" casing.

The pipe rams and Hydril will be actuated at least once each 24 hours and the blind rams each time the drill pipe is out of the hole.

A drill string safety valve in the open position will be maintained on the rig floor at all times while drilling operations are being conducted.

BOP drills will be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.

Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.

A mud/gas separator will be installed after drilling out from under the 8-5/8" so it will be operable by 4800'.

12. Mud Program.

0- 30' 13-3/8" conductor pipe set with rat hole machine and cemented with Redi-Mix.

30-1800' Spud mud. Gel flocculated with Lime. Treat with coarse fibrous LCM. If severe loss occurs, dry drill ahead to casing point. Set 8-5/8" surface casing at 1800'.

1800-4700' Drill out with fresh water and circulate reserve pit.