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11. Pressure Control Equipment

0 - 600'

600' - 3000'

3000'-11,500'

None

12" 3000# ram type preventers with one set blind rams and one set pipe rams.

10" 5000# ram type preventer with one set blind rams and one set pipe rams; annular type preventer and rotating head including 5000# choke manifold and 80 gallon accumulator with floor and remote operating stations and auxiliary power system.

A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

After setting the 8-5/8" casing and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent testing company. Any equipment failing to test satisfactorily, shall be repaired or replaced. The USGS will be notified in sufficient time for a representative to witness the tests and will be furnished a copy of the pressure test report.

BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulator 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 setting the 8-5/8" casing and be operable before drilling into the Wolfcamp formation.