



ADDITIONS-DELETIONS-CHANGES
SPECIFY

hydraulic separating system which may be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive the electromagnetic fluid charge. With the pumps shut down, the pressure in the accumulators must be sufficient to close off the pressure-operated device simultaneously within _____ seconds after closure, the remaining accumulator pressure shall be _____ or less than 3000 PSI with the remaining accumulator fluid volume at least _____ percent of the original. (3) When required, an additional source of power, remote and independent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The electric controls and separate interconnecting lines must have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. Controls are to be labeled "PRESSURE" and "FLUID" and "STOP" and "START".

Each control must be provided for operating the Hydraulic System. When required, a second pressure reducer shall be available to limit operating fluid pressures to flow preventers.

A pressure control valve must be provided for operating the Hydraulic System. When required, a second pressure reducer shall be available to limit operating fluid pressures to flow preventers.

Each hydraulic line, an equivalent of battery, is to be used as the fluid to operate the hydraulic equipment.

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The choke manifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and choke line shall be constructed as though as continuous and without stressors. They and side access is to be maintained to the choke manifold. If deemed necessary, walkways and stairways shall be erected if necessary at the choke manifold. All valves are to be subject to inspection in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling spool and all 1500 psi parameters must be supported with chain connections, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

* To include derrick floor mounted controls.