

be used for connecting to the 4-inch t.D. choke flow line and kill line, except when air or gas drilling. The substructure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continu-

a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within ous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. _seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with (2) Accumulators with

the remaining accumulator fluid volume at least _____ percent of the original. (3) <u>When requested</u>, an additional source of power, remote and equivalent, is to be available to operate the obave pumps; or there shall be additional pumps operated by separate power and equal in performance copobilities. the remaining accumulator fluid volume at least

The disting assisted and remote aloging manifold shall have a suparate control for each pressure-aperated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a coord pressure reducer shall be available to limit operating fluid pressures to ram preventer. Suff Legion No.38 hydroulic ail, an equivalent or better, is to be used as the fluid to operate the hydroulic equipment.

the dentick substructure. All other volves are to be equipped with handles. and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and dritting fluids. The chole flow line valves connected to the dritting space and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of Tre choice manifold, choice flow line, and choice lines are to be supported by metal stands and adequately anchared. The choice flow line and choice lines shall be constructed as straight as possible

* To include demick floor mounted controls.