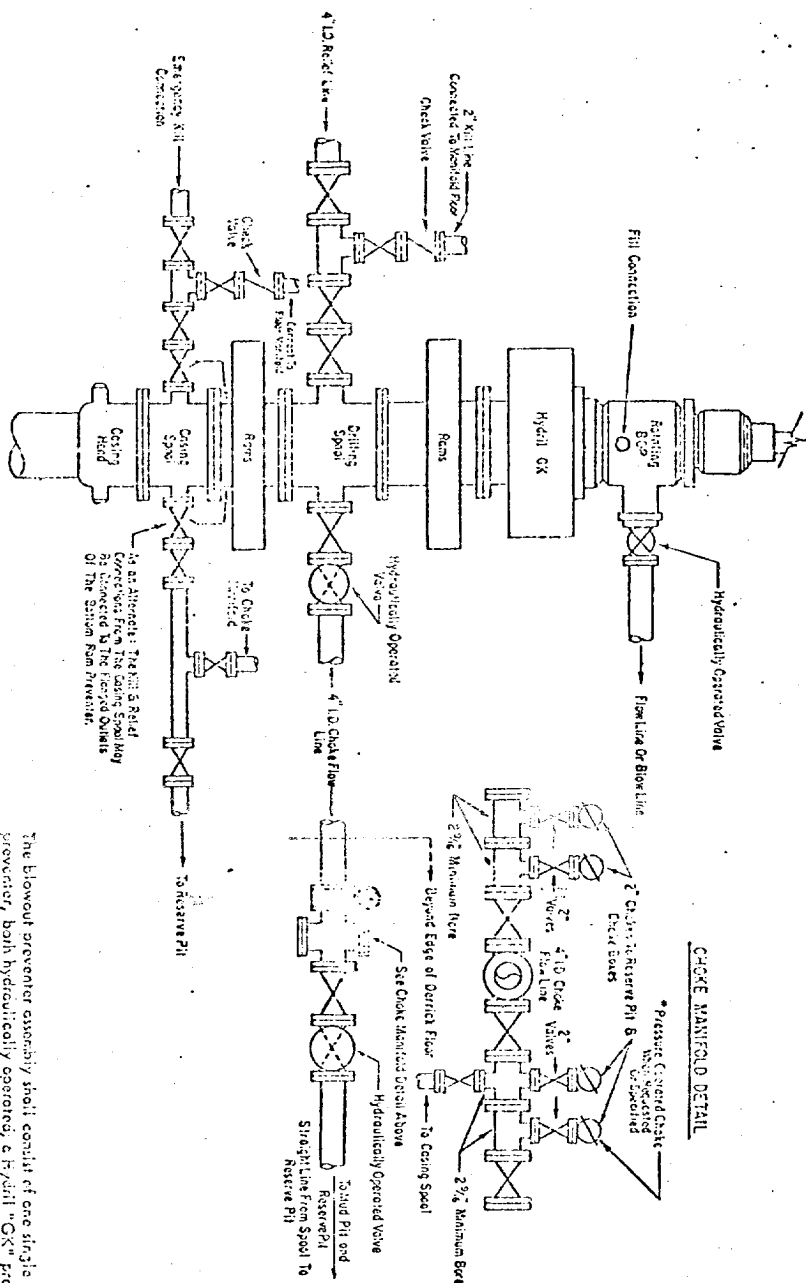




ADDITIONS - DELETIONS - CHANGES  
SPECIFY

# 5000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected to or to receive the aforementioned fluid charge. With the operating pumps shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within \_\_\_\_\_ seconds, after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least \_\_\_\_\_ percent of the original. (3) When required, an additional source of power, remote and equivalent, 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 manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure indicator and regulator must be provided for operating the hydraulic preventer. When required, a second pressure reducer shall be available to limit operating fluid pressure to ram preventers. Gulf Legion No. 32 hydraulic oil, or equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, when 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 straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. If necessary, walkways and stairways shall be erected to the choke manifold. All valves are to be maintained in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling manifold 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 the derrick substructure. All other valves are to be equipped with handwheels.

\* To include device floor mounted controls.