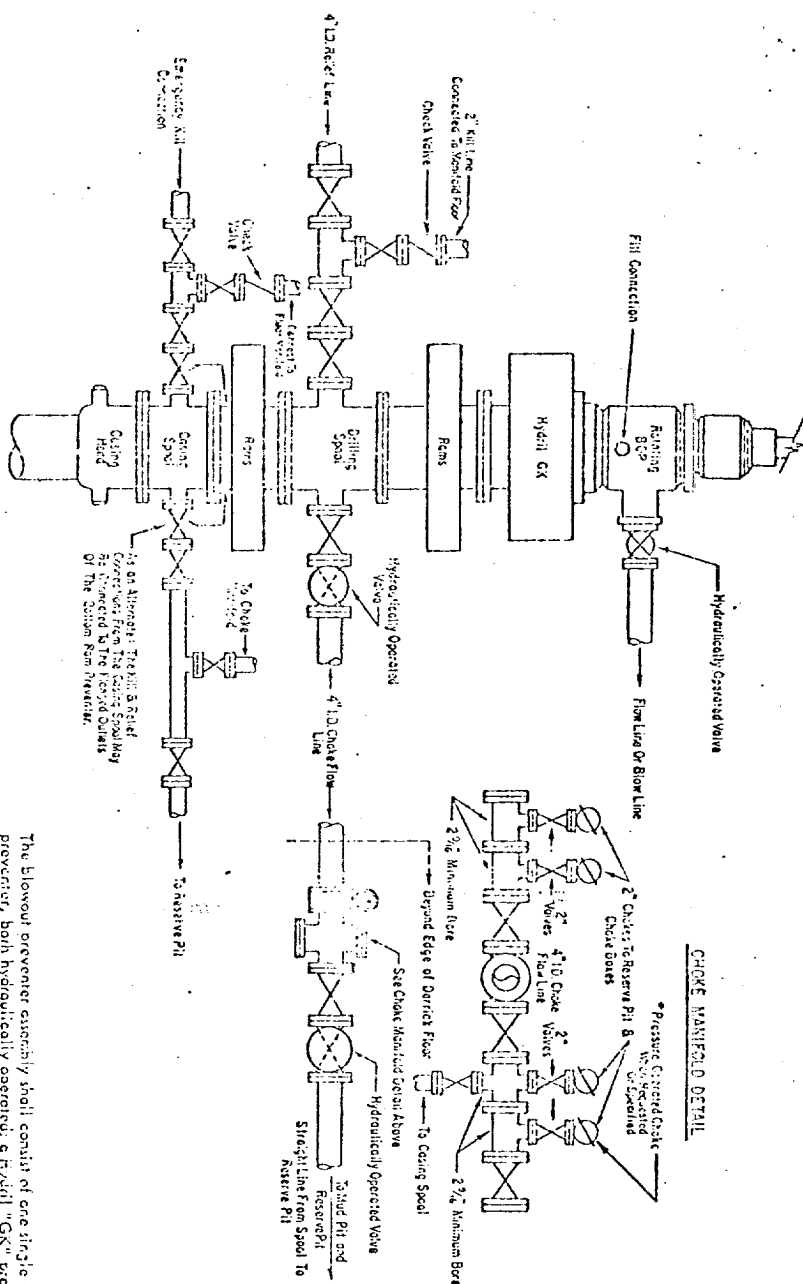




CHOKER MANIFOLD DETAIL

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 the charging pumps shut down, the accumulated fluid volume must be sufficient to close all the pressure-actuated devices simultaneously within _____ seconds, after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume of at least _____ percent of the original. (3) When requested, an additional source of power, remote and available, 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 closing, opening and remote closing manifold shall have a separate control for each pressure-actuated device. Controls are to be labeled, with control handles indicating open and closed positions. A status indicator must be provided for operation of the hydraulic preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Cuff Legion No. 33 hydraulic oil, or equivalent oil, 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. Stay and tie supports are to be maintained in the choke manifold. If deemed necessary, walkways and stairways shall be erected in and around the choke manifold. All valves are to be tested for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves connected to the drilling spool 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 handles.

* To include derrick floor mounted controls.

The blowout preventer assembly shall consist of one single type blind ram preventer and one single type pipe ram preventer, both hydraulically operated, a 4\"/>

Minimum operating equipment for the preventer, and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid changing the total accumulator volume from the nitrogen precharge pressure to its rated pressure within _____ minutes. Also, the pumps are to be connected to the

the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume of at least _____ percent of the original. (3) When requested, an additional source of power, remote and available, is to be available to operate the above pumps or there shall be additional pumps operated by separate power and equal in performance capabilities.