



ADDITIONS - DELETIONS - CHANGES

3000 # PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one single type blind ram preventer and one single type pipe ram preventer, both hydraulically operated. A Hydrell "GK" preventer or rotating blowout preventer, valve chain and connections, as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Charging and tubing roads to fill the preventer are to be available as needed. If correct, the charged volume of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and 4-inch I.D. relief line, except when air or gas drilling. All preventer connections are to be open-face flanged.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of quickly charging the total accumulator or volume from the nitrogen precharge pressure to its rated pressure within _____ minutes. Also, the pumps are to be connected to the charging pump(s) that, down, the pressure and fluid volume stored in the accumulators will be sufficient to close 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. (2) 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 closing 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 reducer and regulator must be provided for operating the Hydril separator. When required, a second pressure reducer shall be available to limit operating fluid pressures to non-preservation. . . . in hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

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