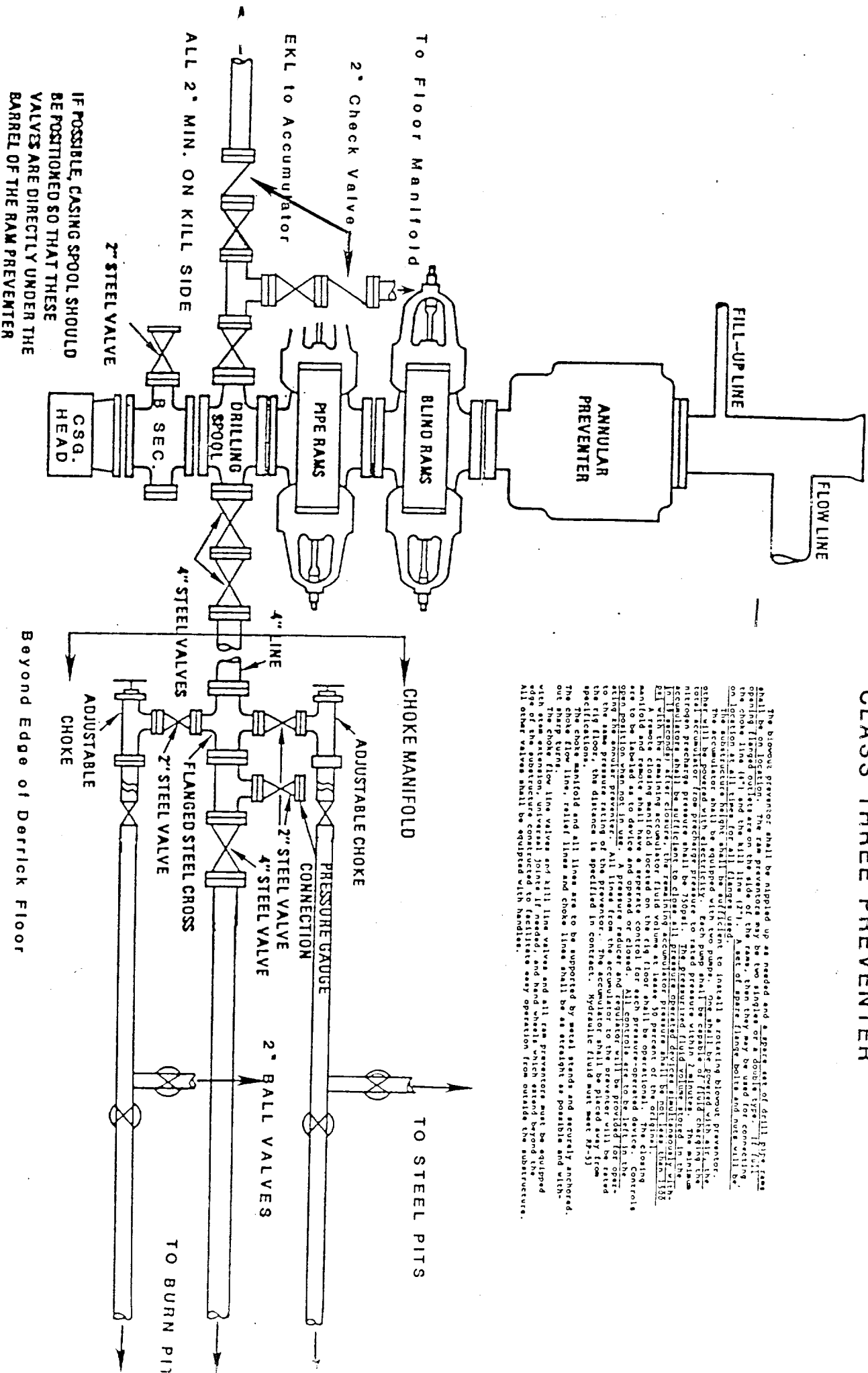


# HOBBS DIVISION

## CLASS THREE PREVENTER



The blowout preventer shall be applied up as needed and a spare set of drill pipe rams shall be on location. The ram preventer may be two rams or a double type. If fail opening (closed) rams are used, the rams, then they may be used for connecting the choke line (4") and the kill line (2"). The set of spare flange bolts and nuts will be on location at all times for all flanges used.

The substructure height shall be sufficient to install a rotating blowout preventer. The accumulator shall be equipped with two pumps. One shall be provided with air, the other with nitrogen. The accumulator shall be capable of fluid charging the nitrogen pressure pump (which is the ram) in 2 minutes. The minimum fluid volume stored in the accumulator shall be sufficient to close the ram in 15 seconds after closure. The ramming accumulator fluid volume stored in the ram shall be sufficient to close the ram in 15 seconds after closure. The ramming accumulator shall be capable of fluid charging the ram in 2 minutes. The ramming accumulator shall be capable of fluid charging the ram in 2 minutes. The ramming accumulator shall be capable of fluid charging the ram in 2 minutes.

A remote closing manifold located on the rig floor shall be operational. The closing line shall be capable of being opened and closed. All controls are to be left in the open position when not in use. All lines from the preventer will be provided for operating the annular preventer. All lines from the preventer will be provided for operating the annular preventer. All lines from the preventer will be provided for operating the annular preventer. The distance is specified in contract. Hydraulic fluid must meet API-3 specifications.

The choke manifold and all lines are to be supported by steel stands and securely anchored. The choke manifold, relief lines and choke lines shall be as straight as possible and without sharp turns. The choke flow line valves and kill line valves and all ram preventers must be equipped with stem extension, universal joints if needed, and hand wheel. The preventer shall be located beyond the edge of the substructure constructed to facilitate easy operation from outside the substructure. All other valves shall be equipped with handles.

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