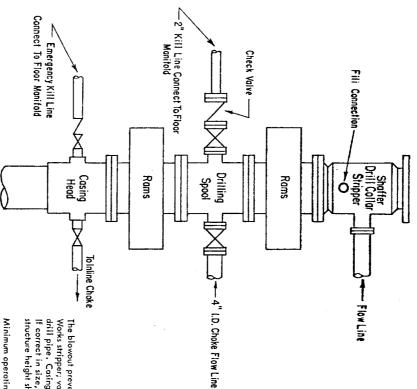
DRAWING NO. 2 Revised April, 1970

ADDITIONS - DELETIONS - CHANGES

SPECIFY



Beyond Edge of
Derrick Floor

2"Choke

To Reserve and Mud Pit
Straight Line From Spool To Reserve Pt.

3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

Works stripper; valves; chokes and connections, as illustrated. If a tapered drill string is used, a ram preventer must be pravided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. The ram preventers may be two singles or a double type. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and kill line. The substructure height shall be sufficient to install a rotating blowout preventer. The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated; a Shaffer Tool

lent, is to be available to operate the above pump (s); or there shall be an additional pump (s) operated by separate power and equal in performance operated devices simultaneously within pump (s). With the charging pump (s) shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-Minimum operating equipment for the preventers shall be as follows: (1) Pump (s), driven by a continuous source of power, capable of closing all the pressure-operated devices simultaneously within \_\_\_\_seconds. The pump (s) is to be connected to a closed type hydraulic operating system.

(2) <u>An arequested, accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive a fluid charge from the above</u> remaining accumulator fluid volume at least\_ seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the percent of the original. (3) When requested, an additional source of power, remote and equiva-

The closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handies indicating open and closed positions. A pressure reducer and regulator must be provided if a Hydril preventer is used. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

chake lines shall be constructed as stroight as possible and without sharp bends. Easy and safe access is to be maintained to the chake manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The chake flow line valve 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 choke manifold, in hoke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and the edge of the derrick substructure. All other valves are to be equipped with handles.