

Beyond Edge of Derrick Floor

> ADDITIONS - DELETIONS - CHANGES SPECIFY

- 2"Choke



3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

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

2" Choke

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

capabilities. Minimum operating equipment for the proventers 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 hydroutic operating system. 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 (3). With the cherging pump (3) shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressureremaining accumulator fluid volume at least_ (2) <u>When requisted</u>, accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to requive a fluid charge from the above _ seconds; after closure, the remaining accumulator pressure shall be not less then 1000 PSI with the percent of the original. (3) When requested, an additional source of power, remote and equivo-

The closing manifold shall have a separate control for each pressure-operated device. Controls are to be lobeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided if a Hydril preventer is used. Guif Legion No. 33 hydraulic oil, an equivalent ar better, is to be used as the fluid to operate the hydraulic equipment.

choke lines shell be constructed as straight 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 choke flaw 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, choke flow line, and choke lines are to be supported by metal stands and adcquately anchored. The choke flow line and the edge of the derrick substructure. All other valves are to be equipped with handles.