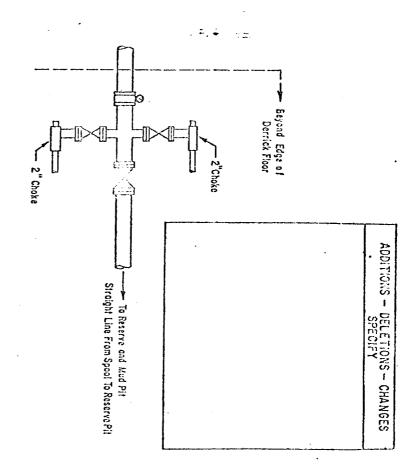


BLOWOUT PREVENTER HOOK-UP



While stripper; velves a chokes and connections, as illustrated. If a fapored drill string is used, a ram proventor must be provided for each size of drill pipe. Casing and tubing tame to the preventers are to be evolved as needed. The ram preventers are first 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 1.D. could not line and kill line. The substructure height shall be sufficient to install a rotating blowaut preventer. Element preventer assembly shall consist of one tiling rom preventer and one pipe rum preventer, both inclinationly operated: a Shaffer Tool

capabilities. lerity 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 remaining accumulator fivid volume et least_ operated devices simultaneously worth (2) When requested, accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive a fluid charge from the above pump (3). With the charging Function down, the pressure-Minimum operating equipment for the preventers shall be as follows: (1) Pum, (3), driven by a continuous source of power, capable of closing all the pressure-operated devices simultaneously within. seconds; effer effections, the remaining accumulator pressure shall be not less than 1000 PS; with the percent of this original. (3) When requested, on additional source of power, remote and equivoseconds. The sump (a) is to be connected to a closed type hydraulic operating system.

The closing monifold shall have a seperate control for each pressure-operated device. Controls are to be labeled, with control handles indicating even and along positions. A pressure reducer and regulator must be provided if a Hydril preventer is used. Gulf Legian No. 38 hydraulic oil, an equivalent at batter, is to be used as the fluid to operate the hydraulic equipment.

choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold.
All valves are to be selected for operation in the presence of oil, gas, and dilling fluids. The choke flow line valve connected to the citilling specifically and the presence of oil, and contains the content of the citilling specifically and the presence of oil and the content of the citilling specifically and the present of the cities of the content of the cities of the content of the cities of th The choke menifold, choke flow line, and choke lines are to be supported by motal stands and adequately anchored. The choke flow line and tha sage of the derrick substructure. All other valves are to be equipped with handles.