

3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP Connect To Floor Manifold

The bloweut preventer assembly shall consist of one blind rem preventer and one pipe ram preventer, both hydraulically operated; a Shaffer Tool 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. Casing and tubing roms to fit the preventers are to be available as needed. The ram preventers may be two singles are abuble type. If correct in size, the floraged outlets of the ram preventer may be used for connecting to the 4-inch 1.0, choke flow line and kill line. The substructure height shall be sufficient to install a rotating blowout preventer.

capabilities. 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 the pressure-operated devices simultaneously within _____seconds. The pump (s) is to be connected to a closed type hydroulic operating system. (2) <u>When requested</u>, accumulators with a precharge of nitrogen of not less than 750 PSL and connected so as to receive a fluid charge from the above remaining accumulator fluid volume at least_ 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 _ 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 equive-

equivalent or better, is to be used as the fluid to operate the hydraulic equipment. The 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 if a Hydril preventer is used. Guif Legian No. 33 hydroulia oil, and

spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe occess is to be maintained to the choke maintaid. All values are to be salected for operation in the presence of ail, gas, and drilling fluids. The choke flow line value connected to the drilling The choke manifold, choke flow line, and choke lines are to be supported by metal stands and accountly anchored. The choke flow line and the edge of the derrick substructure. All other volves are to be equipped with handles.

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