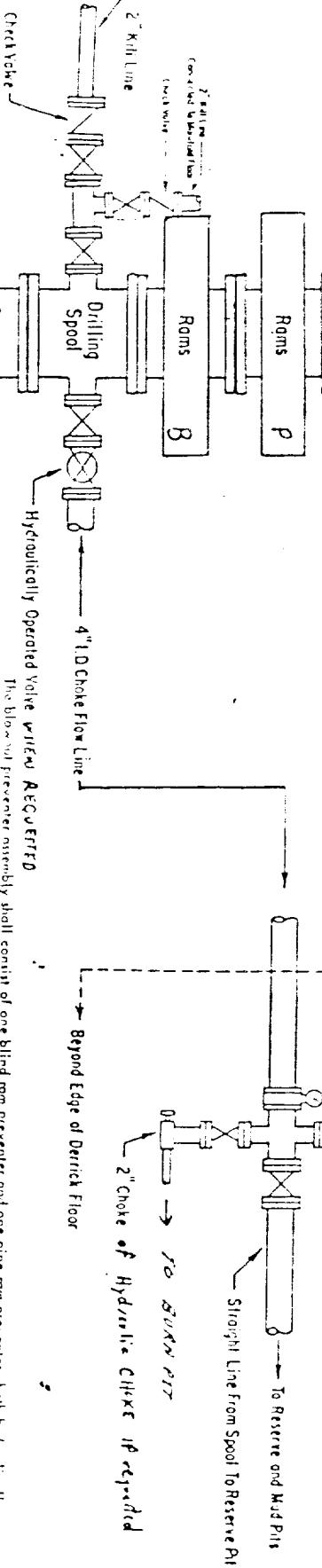
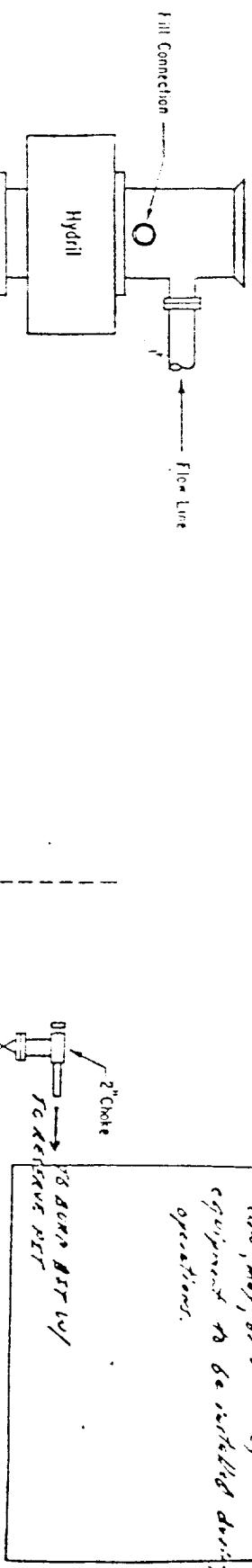


**ADDITIONS - DELETIONS - CHANGES**

*Note: Under Regulation 2000, any or any time the oil separator may, or will require the equipment to be installed during operations.*



**THE BLOWOUT PREVENTER ASSEMBLY SHALL CONSIST OF ONE BLOWOUT PREVENTER AND ONE PIPE RAM PREVENTER, BOTH HYDRAULICALLY OPERATED, A HYDRIL**

**PREVENTER, VALVE, CHOKER AND CONNECTIONS, AS ILLUSTRATED. IF A REVERSE DRILL STRING IS USED, A RAM PREVENTER SHALL BE PROVIDED FOR EACH TYPE OF DRILL PIPE. CASING AND TUBING RAMS TO FIT THE PREVENTERS ARE TO BE AVAILABLE AS NEEDED. THE RAM PREVENTERS MAY BE TWO STAGE OR A DOUBLE TYPE. IF CORRECT IN SIZE, THE FLANGED OUTLETS OF THE RAM PREVENTER MAY BE USED FOR CONNECTING IT TO THE 4-INCH I.D. CHOKING FLOW LINE AND TO THE KILL LINE. THE SUBSTRUCTURE HEIGHT SHALL BE SUFFICIENT TO INSTALL A ROTATING BLOWOUT PREVENTER.**

**MINIMUM OPERATING EQUIPMENT FOR THE PREVENTER AND HYDRAULICALLY OPERATED VALVE SHALL BE AS FOLLOWS: (1) HYDRAULIC POWER, PROVIDED BY A COMPRESSOR, GAS TANK, OR OTHER SOURCE OF POWER, CAPABLE OF FLUID CHARGING THE TOTAL ACCUMULATOR VOLUME FROM THE MINIMUM PRESSURE TO THE MAXIMUM PRESSURE WITHIN 2 MINUTES. ALSO, THE PUMPS ARE TO BE CONNECTED TO THE HYDRAULIC OPERATING SYSTEM, WHICH IS TO BE A CHOKED SYSTEM (2) ACCUMULATOR WITH A PRECHARGE OF NITROGEN OF NOT LESS THAN 750 PSI AND CONNECTED SO AS TO RECEIVE THE AUTOMATICALLY ACTIVATED FLUID CHARGE WHILE THE CHARGING PUMPS SHUT DOWN. THE PRECHARGED FLUID VOLUME STORED IN THE ACCUMULATOR SHALL BE SUITABLE TO CLOSE OFF THE PREVENTER, PROVIDED THE CHARGING PUMPS OPEN AND CLOSE, THE REMAINING ACCUMULATOR PRESSURE SHALL BE NO LESS THAN 100 PSI WITH THE REMAINING OR CUMULATOR FLUID VOLUME AT LEAST 50 PERCENT OF THE ORIGINAL. WHEN REQUIRED, EITHER AN ADDITIONAL SOURCE OF HYDRAULIC POWER AND EQUIVALENT, OR TO BE AVAILABLE TO OPERATE THE ABOVE PUMPS; OR THERE SHALL BE ADDITIONAL PUMPS OPERATED BY RESERVE POWER AND EQUIVALENT IN PERFORMANCE CAPABILITIES.**

**2000 - 3000 PSI WORKING PRESSURE  
BOP HOOK-UP FOR LARGE CASINGS**

**SPECIFY WORKING PRESSURE**

**Lot 1, with control handles to indicate open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. Control are to be available to limit operating fluid pressure to ram preventer. Gulf Reg No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment. The choke manifold, the choke flow line, the choke lines and the relief lines are to be supported by metal stands and adequately anchored. The choke flow line, relief lines and choke lines shall be connected as straight as possible and without sharp bends. Turn and valve access shall be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluid. The choke flow line valves and valves of the relief line connected to the drilling spool and all non API preventers must be equipped with stem extensions, except if required, end hand wheels which are to extend beyond the edge of the derrick substructure. All other valves shall be equipped with handles.**

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