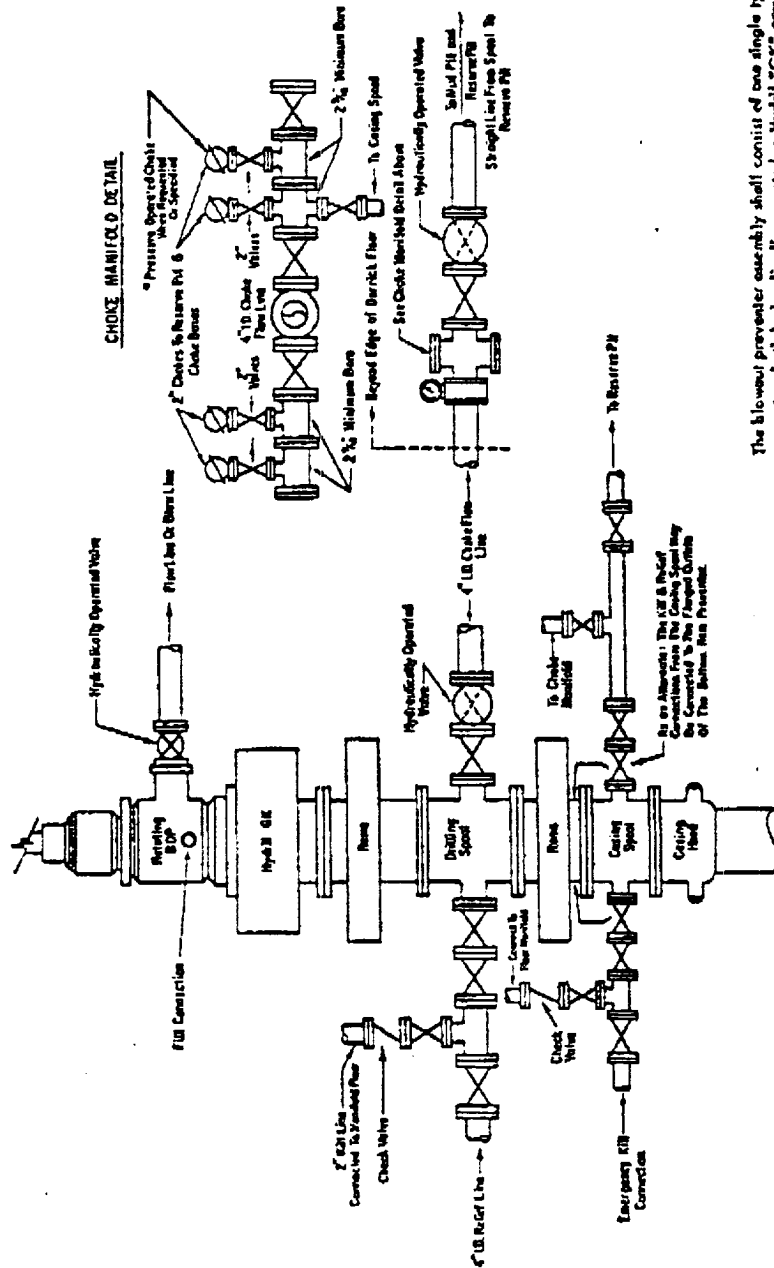


ShearnWest Fed #1
1980' FSL & 660' FRI,
I-11-25S-25F,
Eddy NM



3000# PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly shall consist of one single type blind ram preventer and one single type pipe ram preventer, both hydraulically operated; a flydill "CG" preventer; a rotating blowout preventer; valves; chokes and connections, as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing runs to fit the preventers are to be available as needed. 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 4-inch flanged line to the mud line. All preventer connections are to be extra-fine flanged.

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within _____ minutes. Also, the pumps are to be connected to the nitrogen precharge of nitrogen of not less than 750 PSI and connected so as to react to the aforementioned fluid charge. With this equipment, the nitrogen precharge must be sufficient to close all the pressure-operated devices simultaneously within _____ seconds, after closure. (2) The nitrogen precharge must be sufficient to close all the pressure-operated devices simultaneously within _____ seconds, after closure. (3) When requested, an additional source of fluid shall be added (fluid volume ascertained by separate power and equal in performance capabilities).

hydraulic operating system which is to be the charging pumps shut down, the pressure in the remaining accumulative pressure shall power, remote and equivalent, is to be a

The clamping manifold and remote clamping 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 for operating the Hydrulic prover. When required, a second pressure reducer shall be available to limit operating fluid pressure to ram prevention. A full section No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and 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. If droned necessary, walkways and stairways shall be erected in and around the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drifting pool and all run type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

* To include particle flow mounted controls.