



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. Conditions may be met by any combination of hydraulically operated BOPs which give the following combination:
 - (1) Blind rams on bottom.
 - (2) Pipe rams above the blind rams.
 - (3) Choke outlet at least four inches in diameter.
 - (4) Pipe rams above the choke outlet.
 - (5) Annular BOP above upper pipe rams.
 - (6) Rotating head on top of annular BOP.
- B. Opening between the rams to be flanged, studded, or clamped.
- C. All connections from operating manifolds to preventers to be all steel hose or tube a minimum of one inch in diameter.
- D. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate (close, open, and re-close) the preventers.
- E. All connections to and from preventer to have a pressure rating equivalent to that of the BOPs.
- F. Manual controls to be installed before drilling cement plug.
- G. Kelly cock to be installed on kelly.
- H. Inside blowout preventer to be available on rig floor.
- I. Dual operating controls: one located by drillers position and the other located a safe distance from the rig floor.

BOP DIAGRAM 2