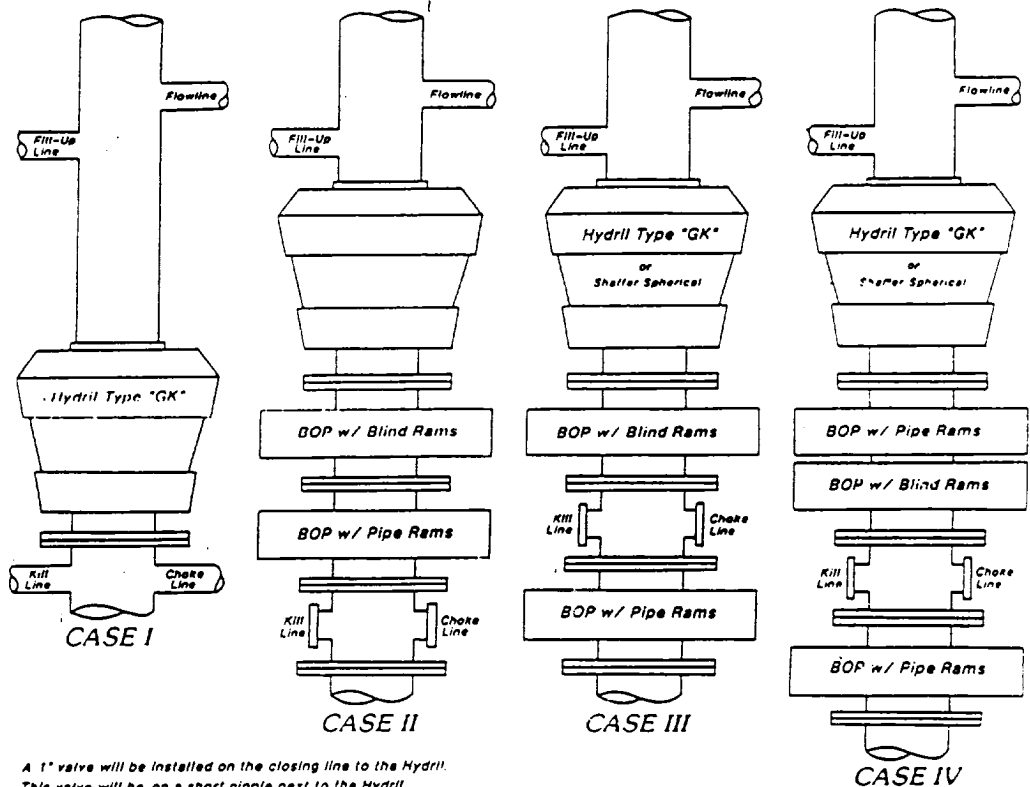
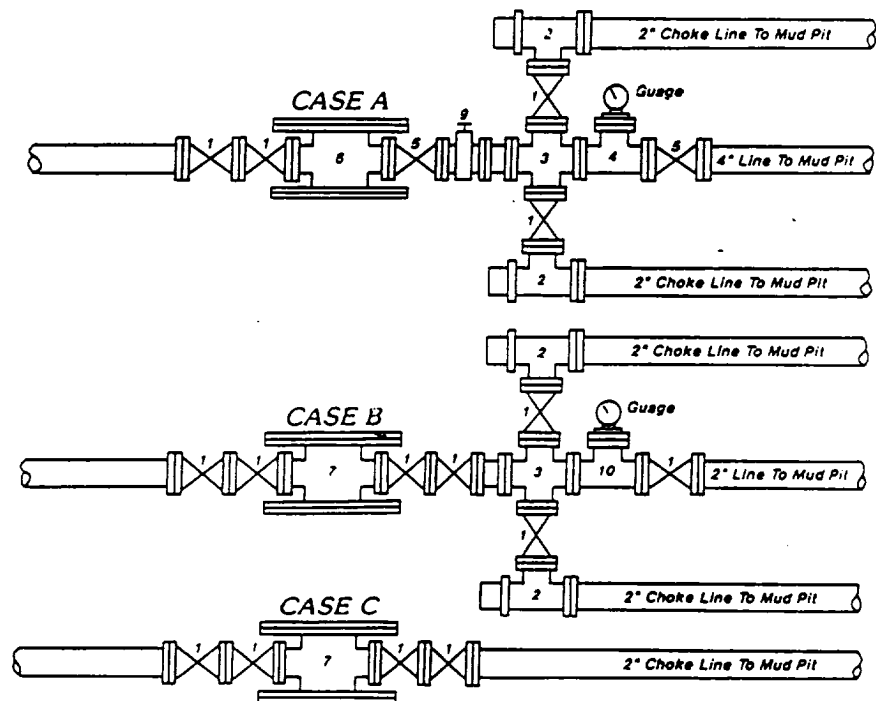
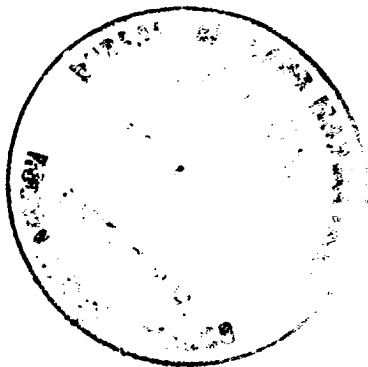


ATTACHMENT MINIMUM BLOWOUT PREVENTER REQUIREMENTS



A 1" valve will be installed on the closing line to the Hydril.
This valve will be on a short nipple next to the Hydril.
The closing line must be equipped w/ a 1"-3000 psi WP plug
valve on the nipple into the Hydril.



Legend

1. 2" flanged all steel valve must be either Cameron "F", Halliburton Low Torque, or Shaffer Flo-Seal.
2. 2" flanged adjustable chokes, min. 1" full opening & equipped w/ hard trim.
3. 4" x 2" flanged steel cross.
4. 4" flanged steel tee.
5. 4" flanged all steel valve (Type as in no. 1).
6. Drilling spool w/ 2" x 4" flanged steel outlet.
7. Drilling spool w/ 2" x 2" flanged outlet.
8. 2" x 2" flanged steel cross.
9. 4" pressure operated gate valve.
10. 2" flanged steel tee.

Notes

Choke manifold may be located in any convenient position. Use all steel fittings throughout. Make 90° turns with bull plugged tees only. No field welding will be permitted on any of the components of the choke manifold and related equipment upstream of the chokes. The choke spool and all lines and fittings must be at least equivalent to the test pressure of the preventers required. Independent closing control unit with clearly marked controls to be located on derrick floor near driller's position.