

**BLOWOUT PREVENTER SPECIFICATION
EQUIPMENT DESCRIPTION**

**TYPE 2
3,000 AND 5,000 PSI WORKING PRESSURE**

All equipment shall be at least minimum stack WP or higher unless otherwise specified.

1. Bell nipple or rotating head.
2. Hydril or Shaffer bag type preventer.
3. Ram type pressure operated blowout preventer with pipe rams.
4. Flanged spool with one 4-inch and one 2-inch (minimum) outlet.
5. 2-inch (minimum) flanged plug or gate valve.
6. 2-inch by 2-inch by 2-inch (minimum) flanged tee.
7. 4-inch pressure operated gate valve. May be optional - See drilling procedure.
8. 4-inch flanged gate or plug valve.
9. Ram type pressure operated blowout preventer with blind rams.
10. Flanged type casing head with one side outlet (furnished by operator).
11. 2-inch threaded (or flanged) plug or gate valve (furnished by operator).
Flanged on 5000# WP, threaded on 3000# WP or less.
12. Needle valve (furnished by operator).
13. 2-inch nipple (furnished by operator).
14. Tapped bull plug (furnished by operator).
15. 4-inch flanged spacer spool.
16. 4-inch by 2-inch by 2-inch by 2-inch flanged cross.
17. 2-inch flanged plug or gate valve.
18. 2-inch flanged adjustable choke.
19. 2-inch threaded flange.
20. 2-inch XXH nipple.
21. 2-inch forged steel 90° Ell.
22. Cameron (or equal) threaded pressure gage.
23. Threaded flange.
24. 2-inch flanged tee.
25. 2-inch flanged plug or gate valve.
26. 2-1/2-inch pipe, 300' to pit, anchored.
27. 2-1/2-inch valve.
28. 2-1/2-inch line to steel pit or separator.

NOTES:

1. Items 3, 4 and 9 may be replaced with double ram type preventer with side outlets between the rams.
2. The two valves next to the stack on the fill and kill line to be closed unless drill string is being pulled.
3. Kill line is for emergency use only. This connection shall not be used for filling.
4. Replacement pipe rams and blind rams shall be on location at all times.
5. Only type U, LWS and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
6. Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.