LOWOUT PREVENTER SPECIFICATION EQUIPMENT DESCRIPTION

TYPE II-C

All equipment should be at least 3000 psi WP or higher unless otherwise specified.

- 1. Bell nipple.
- 2. Hydril or Shaffer bag type preventer.
- 3. Ram type pressure operated blowout preventer with blind 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.
- 8. 4-inch flanged gate or plug valve.
- 9. Ram type pressure operated blowout, preventer with pipe rams.
- 10. Flanged type casing head with one side outlet (furnished by Exxon).
- 11. 2-inch threaded (or flanged) plug or gate valve (furnished by Exxon). Flanged on 5000# WP, threaded on 3000# WP or less.
- 12. Needle valve (furnished by Exxon).
- 13. 2-inch nipple (furnished by Exxon).
- 14. Tapped bull plug (furnished by Exxon).
- 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° E11.
- 22. Cameron (or equal.) threaded pressure gage.
- 23. Threaded flange.
- 35. 2-inch flanged tee.
- 36. 3-inch (minimum) hose. (Furnished by Exxon).
- 37. Trip tank. (Furnished by Exxon).
- 38. 2-inch flanged plug or gate valve.
- 39. 2-1/2-inch pipe, 300' to pit, anchored.
- 40. 2-1/2-inch SE valve.
- 41. 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.

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