A blowout preventer stack, therefore, may be fully identified by a very simple designation, such as:

5M 13-5/8 - RSRA

This hookup would be rated 5,000 psi working pressure, and would have a throughbore of 13-5/8 in., arranged as in figure K1-2a.

Since pipe rams and blank rams are readily interchangeable and since their relative position is optional, it is not considered necessary that the code be complicated further merely to show type of rams to be used in each of the ram-type preventers.

Figures K1-1 through 3 depict IADC recommended land stack arrangements for each of the IADC classes. The figures are intended to illustrate the minimum components required for each service class, as described in K1, sub-paragraph C. Other arrangements of the same components are equally acceptable and depend on the philosophy of the operators involved in the drilling of a particular well.

E. Complete System

For a complete system, you are referred to Sections K2-Diverters, K3-spools, K4-Choke Manifolds and K5-Kill lines.

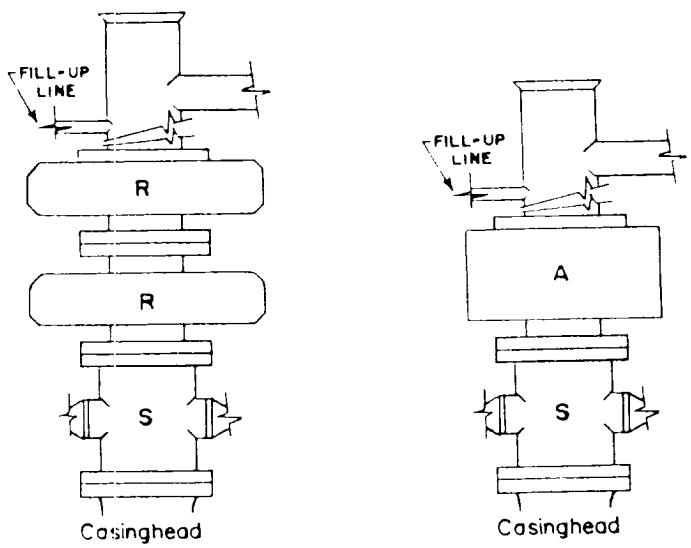

FIGURE K1-1. Recommended IADC Class 2 BOP stack, 2000 pwi WP. Either SRd (left) or SA (right) arrangement is acceptable and drilling spool is optional.

Schematic of BOP for Johnson #1

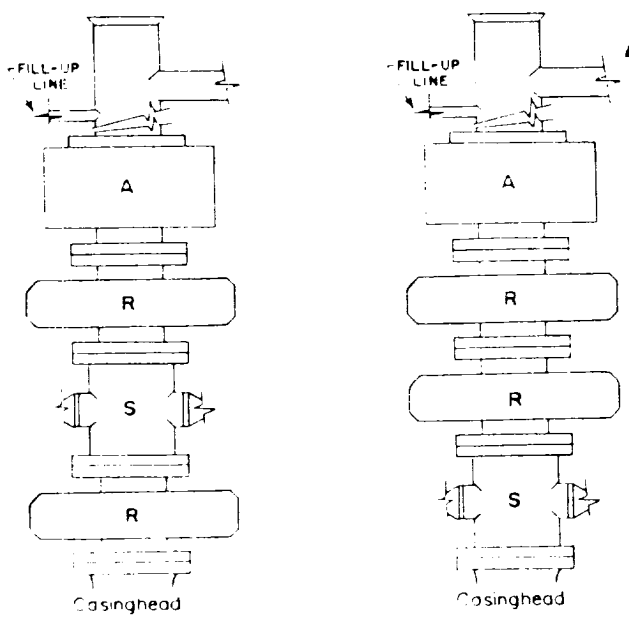

FIGURE K1-2. Recommended IADC Class 3(3000 psi WP) and 5(5000 psi WP) stacks. Either RSRA (left) or SRRA (right) is acceptable and drilling spool is optional is side outlets on rams

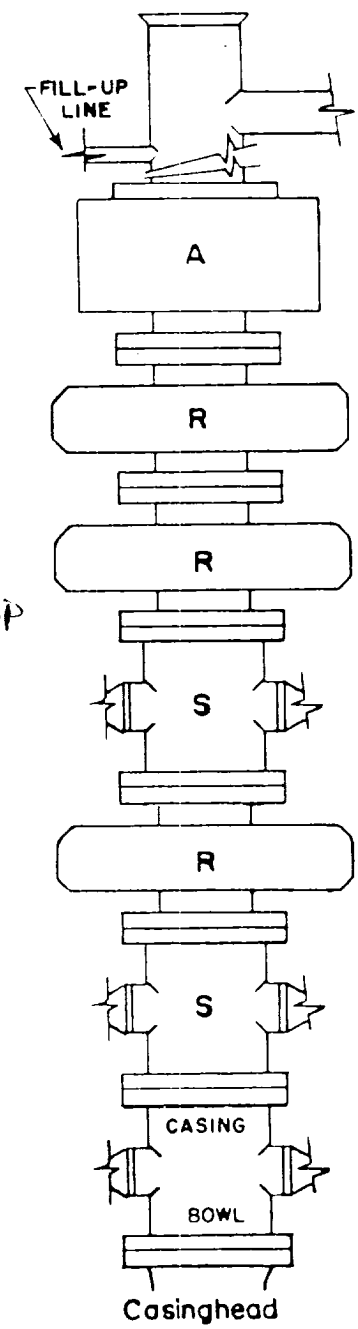

FIGURE K1-3. Recommended IADC Class 10 BOP stack arrangement SRSRRA, 10,000 psi WP. Lower drilling spool is optional with outlets on lower ram. Annular preventers may be 5000 or 10,000 psi.