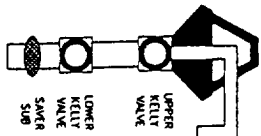
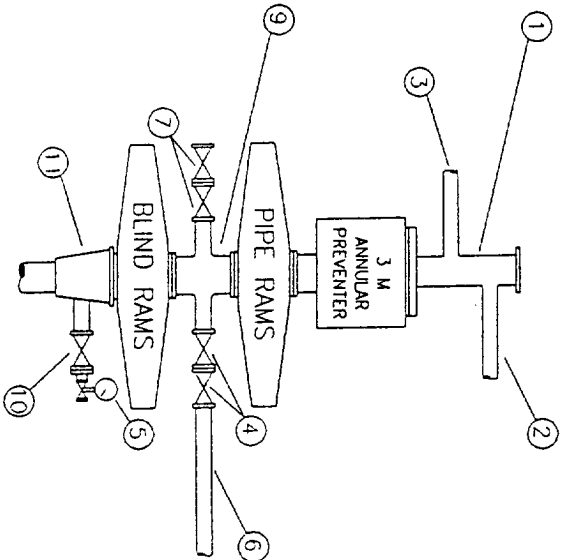


DRILLSTRING CONTROL DEVICES



ON DRILL FLOOR
WISSE
BOP
SAFETY VALVE
FULL OPENING

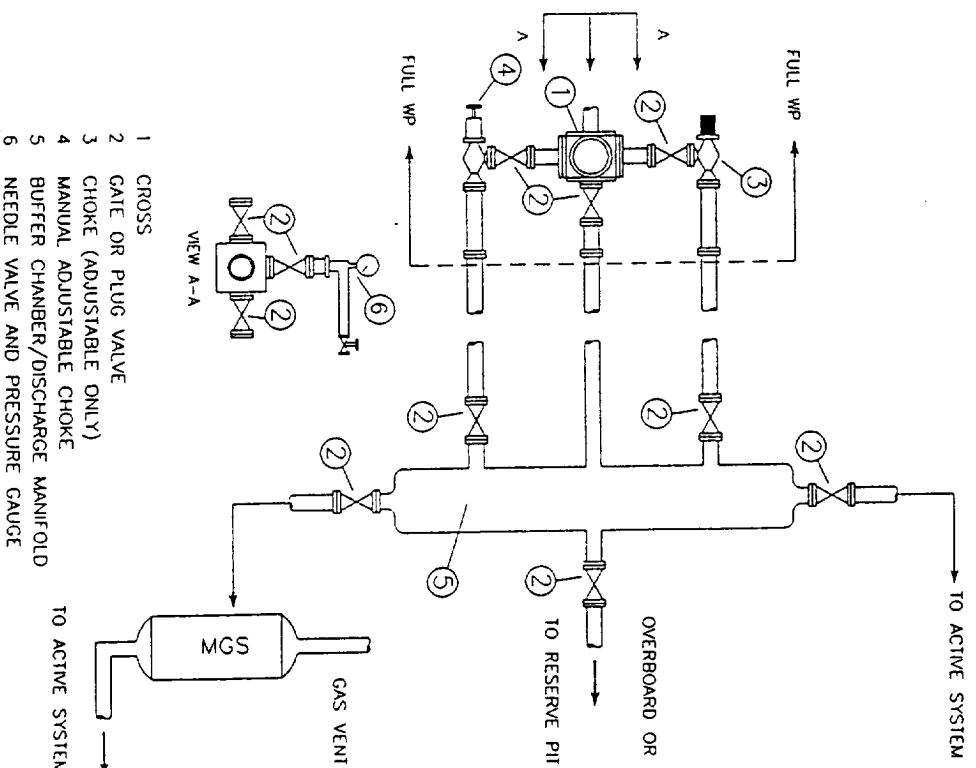
BOP STACK



- 1 BELL NIPPLE
- 2 FLOW LINE
- 3 FILL-UP LINE
- 4 3" FE PRESSURE-OPERATED CHOKE LINE VALVE
- 5 PRESSURE GAUGE
- 6 3" CHOKE LINE TO CHOKE MANIFOLD
- 7 3" FE GATE OR PLUG VALVES
- 8 2" KILL LINE
- 9 DRILLING SPOOL
- 10 2" SE OR FE GATE VALVE WITH NEEDLE VALVE
- 11 CASING HEAD HOUSING

CHOKE MANIFOLD

DISCHARGE MANIFOLD OPTIONAL FOR LAND RIGS



- 1 CROSS
- 2 GATE OR PLUG VALVE
- 3 CHOKE (ADJUSTABLE ONLY)
- 4 MANUAL ADJUSTABLE CHOKE
- 5 BUFFER CHAMBER/DISCHARGE MANIFOLD
- 6 NEEDLE VALVE AND PRESSURE GAUGE

Fig. 2.4. Class 2 BOP and Choke Manifold

17 18 19 20 21 22 23 24 25 26 27 28 29
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