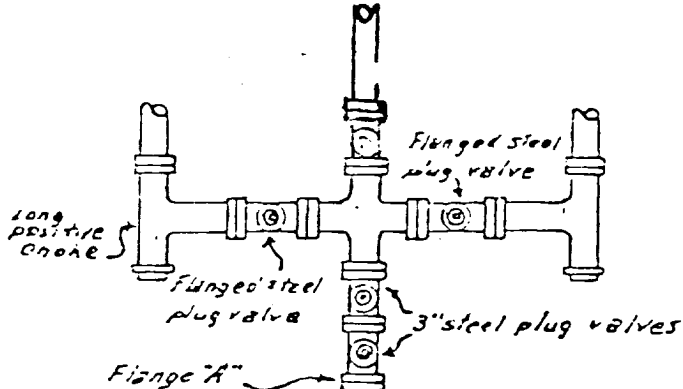


Fill-up Line

Flow Line

Hydril  
Alternate:  
Q.R.C. Preventer  
w/drill pipe rams.

PLAN VIEW - CHOKE MANIFOLD



4" Steel Plug Valve

PIPE RAMS

BLANK RAMS

Cameron SS, 2 Q.R.C. or  
Shaffer Hydraulic Double Gate.  
And in special instances  
a double Shaffer  
hand operated B.O.P.

"Emergency flow line"

Flange "A"  
See plan view

4" valves

2" or 3" valves with  
latter preferred.

Kill Line - 2" valves

Conductor pipe

- NOTES -

1. BOP hand controls to be extended clear of substructure & ramps.
2. All valves to be same test pressure capacity as BOP's
3. Compare minimum ID of BOP equipment with OD of casing hangers to be passed thru. Everything flanged where shown.
4. Cameron Double-D Rubber Ring Guard gaskets are to be used in flanges indicated by \* on sketch.
5. New metal rings are to be used each time a flange is assembled.
6. BOP's to be well braced at all times.

If possible install head so kill line valves will be under BOP's for protection. These valves to be kept closed after BOP's tested & kill line removed (by use of quick union) to fill-up line. When used this way kill line must be high-pressure.

# SINGLE PIPE RAM BLOWOUT PREVENTOR HOOKUP