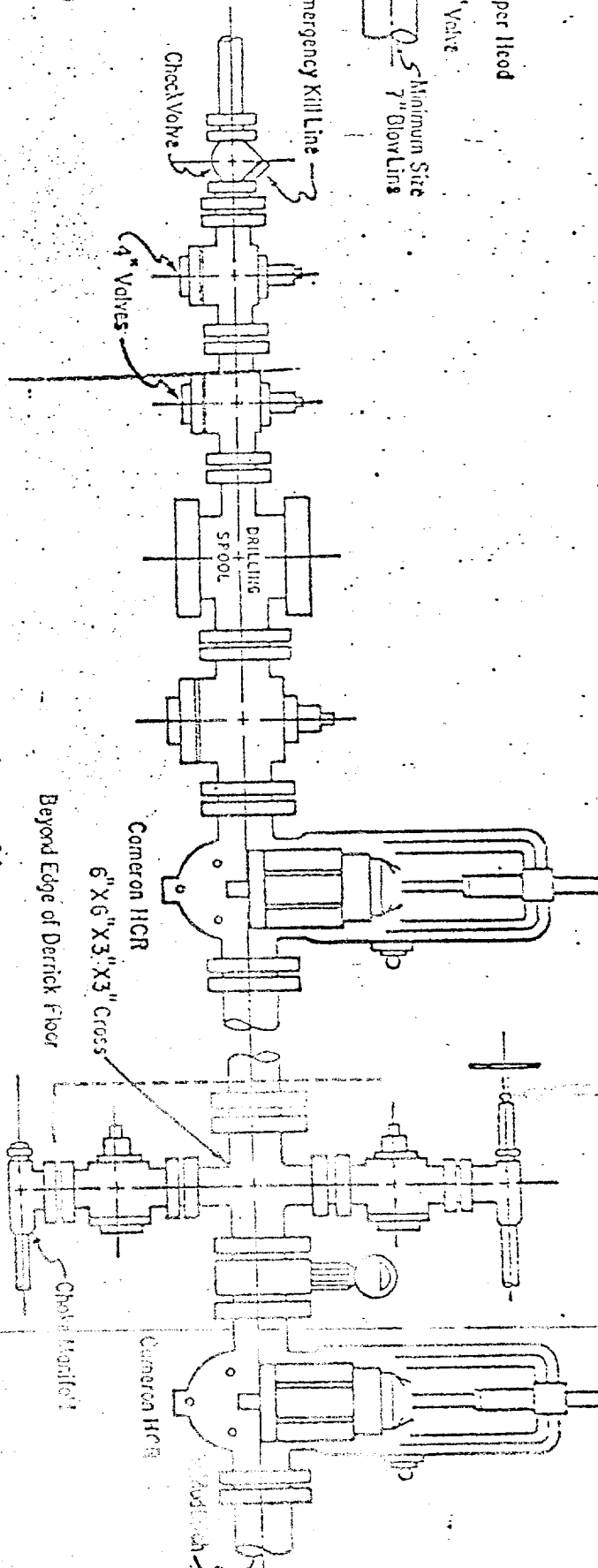
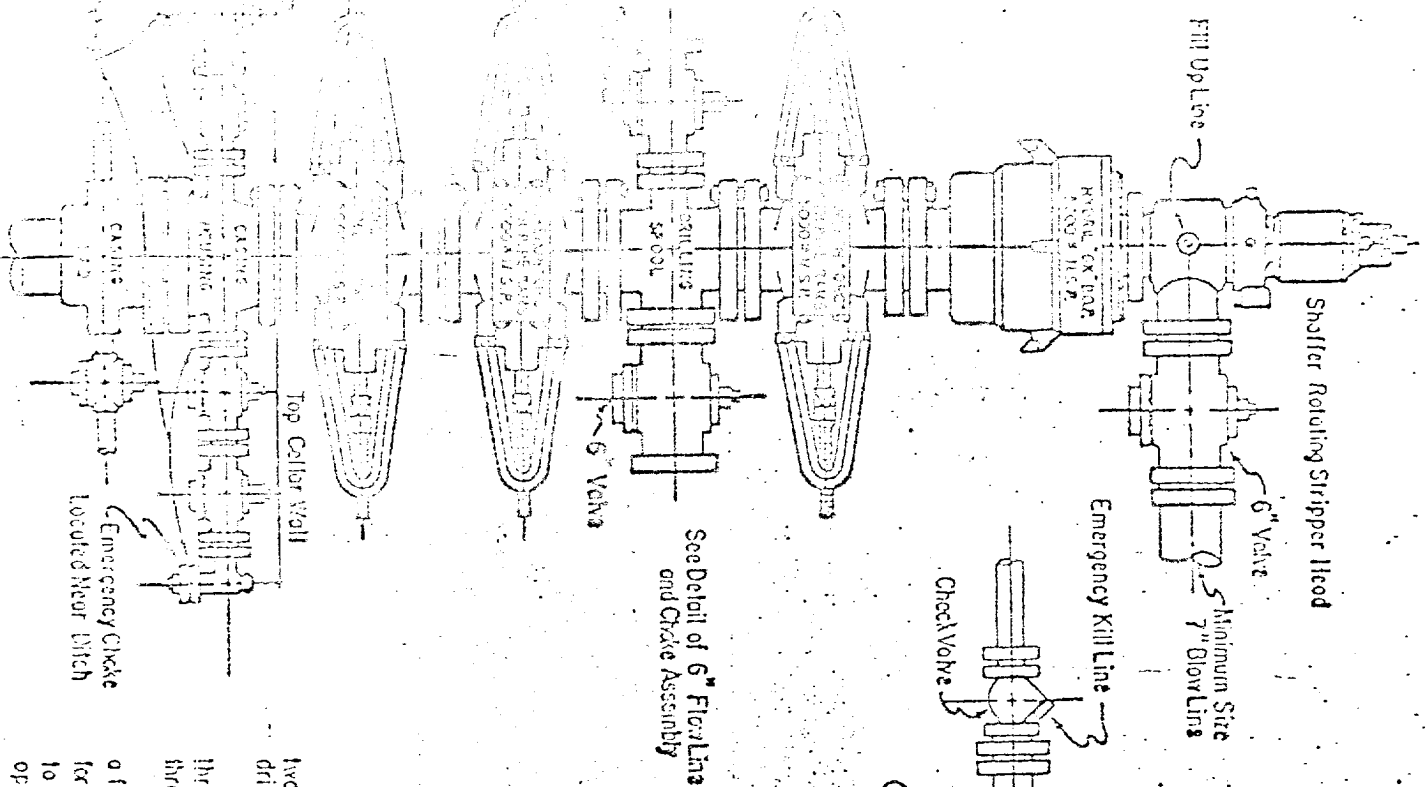




**AIR-GAS-MIST DRILLING
 5,000 PSI WORKING PRESSURE
 KILL, CHOKE, AND FILL CONNECTIONS**

API Series 1500 Flanges or better
 DETAIL OF 6" FLOW LINE CONNECTION ASSEMBLY

Minimum assembly for 5000 PSI working pressure will consist of four preventers and a Shafter Rotating Stripper Head. The two lower preventers may be Cameron QHC, Cameron Type F, single or double, or Shafter Type 100, single or double. The upper preventer may be Cameron QHC or Cameron Type F and the upper preventer below the Shafter Rotating Stripper Head may be a hydraulic drilling spool or be Cameron QHC or Cameron Type F. Size 8-7/8-inch preventers may be used for work down through 8-7/8-inch casing. Size 6-inch preventers may be used for work down through 7-7/8-inch casing. Size 6-inch preventers, with a 4-inch or larger flow line choke, may also be used for work down through 7-7/8-inch and 5-1/2-inch casings.

Minimum operating equipment for the preventers will be (1) an air operated pump and (2) an accumulator (s) with some means of controlling a fluid charge. A closed fluid system is recommended. The closing manifold and remote control manifold will have a separate frequency valve for each pressure operated device and a hydraulic regulator will be provided. Sufficient fluid capacity in the accumulator(s) should be available to close all the pressure operated devices on the same line with 25 per cent reserve. Fluid No. 50 hydraulic oil should be used on the operating fluid.

The six-inch flow line shall be supported by a metal stand or reinforced concrete. All valves throughout the assembly shall be selected for operation in both gas and fluids.

The main type preventers and the Cameron HCR valves will be provided with extension, universal joints, if needed, and operating wheels.

AIR-GAS-MIST DRILLING
 5,000 PSI WORKING PRESSURE
 KILL, CHOKE, AND FILL CONNECTIONS