

ating head if necessary
Fill up Line

Flowline

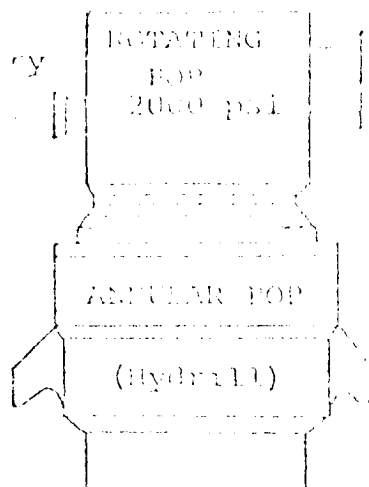
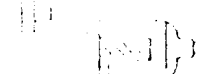
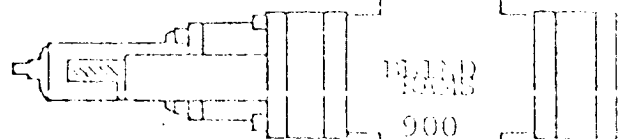


Exhibit E



Shaffer 10" Series 900

Hydraulically Operated B.O.P.'s

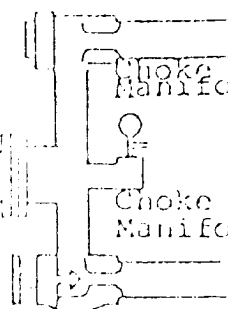


Check Valve
Kill Line

Steel Valve

4 inch Line

inghead or Bradenhead



FOLLOWING CONSTITUTE MINIMUM REQUIRED WELL HEAD REQUIREMENTS

All preventers to be hydraulically operated with secondary manual control installed prior to drilling out iron and casing.

Choke outlet to be a minimum of 4" diameter.

Kill line to be of all steel construction of 1" minimum diameter.

All connections from operating manifold to preventers to be all steel, hole or tube a minimum of one inch in diameter.

The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.

All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.

Inside blowout preventer to be available on rig floor.

Operating controls located a safe distance from the rig floor.

Hole must be kept filled on trips before entering into casing. Operator not responsible for blowouts resulting from not keeping hole full.

D. P. float must be installed and used to detect any first gas intrusion.

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OCT 21 1982
G. E. L.
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