

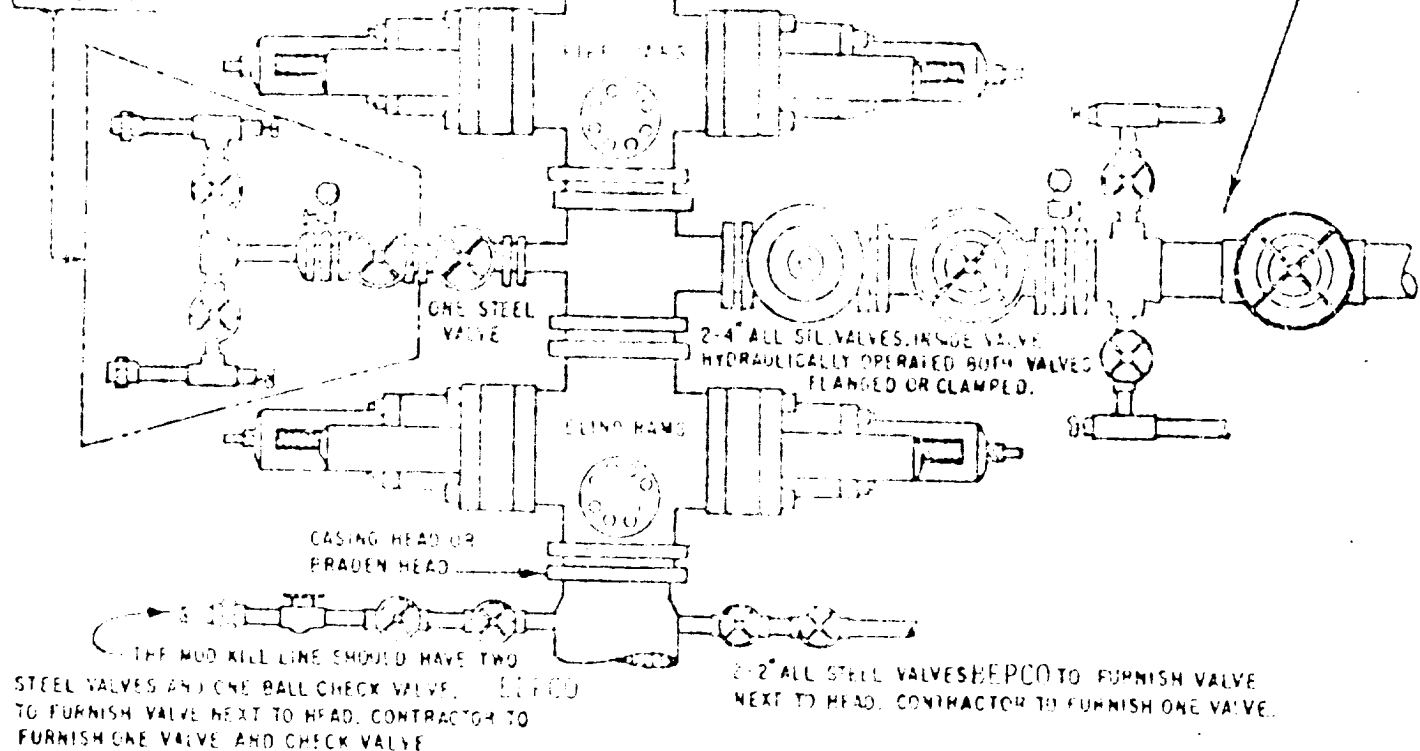
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U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

ILLEGIBLE

ALTERNATE POSITION FOR CHOKER MANIFOLD.
MASTER VALVES TO BE FLANGED
OR CLAMPED.



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- CONDITIONS MAY BE MET BY AN ANNULAR TYPE BLOWOUT PREVENTER ON TOP AND A CHOKER SPOOL BELOW AND EITHER:
 - (1) TWO RAM TYPE BLOWOUT PREVENTERS BELOW THE SPOOL, THE LOWER UNIT CONTAINING BLIND RAMS AND THE UPPER UNIT CONTAINING PIPE RAMS, OR
 - (2) A DUAL BLOWOUT PREVENTER BELOW THE SPOOL WITH BLIND RAMS ON BOTTOM AND PIPE RAMS ON TOP.
- OPENING ON CHOKER SPOOL TO BE FLANGED, STUDDED OR CLAMPED.
- ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE 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 BOP.
- ALL CONNECTIONS TO AND FROM PREVENTER TO HAVE A MINIMUM STRENGTH EQUIVALENT TO THAT OF THE BOP.
- MANUAL CONTROLS TO BE INSTALLED BEFORE CLOSING OF MANIFOLD.
- KELLY COCK TO BE INSTALLED ON KELLY.
- INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON WELL HEAD.
- DUAL OPERATING CONTROLS ONE LOCATED BY OPERATOR POSITION AND THE OTHER LOCATED A SAFE DISTANCE FROM THE RIG FLOOR.

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THREE CLOSURE HYDRAULIC BLOWOUT PREVENTERS

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