



- Blowout preventers, master valve, plug valve and all fittings must be in good condition. Use new API Seal Rings.
- <u>,</u> Valves next to BOP to be plug type and nominal $3^{m{\mu}}.$ lent pressure rating as preventers. Valves to be flanged and at least 2" unless otherwise specified. All fittings (gates, valves, etc.) to be of equiva-
- Safety valve (Omsco or equivalent) must be available on rig floor at all times and with proper connec-Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.

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- tions. The I.D. of safety valves should be as great as I.D. of tool joints on drill pipe. Kelly safety valve installed, same working pressure
- pipe. All lines and controls to preventers must be connected and tested before drilling out of surface

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- accumulator. Controls may be either on floor or BOP's must be fluid operated, complete with ground near steps from rig floor.
- Fillup line tied to drilling nipple, the connection must be below and approximately 90 to the flow

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- Guage will be installed for testing but removed while drilling. .
- Spool not required, but when side outlet on BOP's is used, it must be below bottom ram

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Casinghead and casinghead fittings to be furnished by Marathon Oil Company.