CONFIGURATION

3 MWP

STACK REQUIREMENTS

No	Hem		Min I.D.	Min
1	Flowine			
2	Fill up time			2.
J	Drilling supple		7	· · · · · ·
4	Annular preventer			
5	Two single or one dual hydraulically operated rams			
64	Drilling spool with 2" min 3" min choke line outlets	. kill ime and		
6 b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)			
7	Valve	Gale D Plug D	3-1/8"	
8	Gate valve—power operated		3-1/8"	
9	Line to choke manifold			3.
10	Valves	Gale [] Plug []	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gale D	1-13/18*	
14	Pressure gauge with needle valve			
	Kill line to rig mud pump meniloid			2.

ANNULAR PREVENTER 4
PIPE RAMS
DRILLING TO 3
MEAD IS 10

	OPTIONAL
16 Flanged valve	1-13/16"

CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psl, minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.BDP controls, to be located near drillers position.
- 4. Kelly equipped with Kelly cock.
- 5.Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout prevenier tester.
- 8.Extra set pipe rams to fit drill pipe in use on location at all times.
- 8. Type RX ring paskets in place of Type R.

MEC TO FURNISH:

- 1.Bradenhead or casinghead and side valves
- 2. Wear bushing, Il required.

GENERAL NOTES:

- Deviations from this Brawing may be made only with the express permission of MEC's Drilling Manager.
- 2. All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flamped (suitable clemp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chore. Valves must be tuli opening and suitable for high pressure mud service.
- 3. Controts to be of standard design and each marked, showing opening and closing position.
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beens. Replaceable parts for adjustable choice, other been sizes, retainers, and choice wrenches to be conveniently located for immediate use.
- 5.All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

- 7. Hendwheels and extensions to be connected and ready for use.
- Valves adjacent to drifting spool to be kept open. Use outside valves except for emergency.
- 8.Ali seamiess steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations