MINIMUM BLOWOUT PREVENTE

QUIREMENTS

3,000 psi Working Pressure

3 MWP

No.				
	Nem		Min. I.D.	Min. Nominal
1 Flowline				
2 Fill up h	Fill up line			2.
3 Drilling	Drilling nipple			1
4 Annular	Annular preventer			1
	Two single or one dual hydraulically operated rams			
3° min c	Drilling spool with 2° min. till line and 3° min choke line extlets			
6b 2° min. outlets is	2" min. till line and 3" min. choke line outlets in ram. (Alternate to 6a above.)			
7 Valve	Piu	• 0 g 0	3-1/8*	
8 Gale val	Gale valve-power operated		3-1/8*	
9 Line to c	Line to choke manifold			3.
10 Vaives		• 🖸	2-1/16*	
11 Check vi	lve		2-1/16-	
12 Casing h	paci			
13 Valve			1-13/16"	
14 Pressure	gauge with needle valve	•		
15 Kill line k	Kill line to rig mud pump manifold			2



	OPTIONAL
16 Flanged valve	1-13/16"

CONTRACTOR'S OPTION TO FURNISH:

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

MEC TO FURNISH:

- 1.Bradenhead or casinghead and side values
- 2.Wear bushing, if required.

GENERAL NOTES:

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

CONFIGURATION



- versus acjacent to drilling spool to be kept open. Use outside valves except ic emergency.
- All seamless steel centrel piping (2000 pel working pressure) to have fienible joints to avaid stress. Hosee will be permitted.
- 18.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine ill-up operations.