OL .

MINIMUM BLOWDUT PREVENTER REQUIREMENTS

3,860 pel Working Pressure

3 MWP

STACK REQUIREMENTS

No.	Item		Min. I.D.	Min. Nominal
1	Flowing			
2	Fill up line			2-
3	Drilling supple		1	
4	Annular preventer			
5	Two single or one dual hydrautically operated rams			
64	Drilling speel with 2" min. bill 3" min choke line autlets	tine and		
66	2" min. till line and 3" min. chale line outlets in ram. (Alternate to 6s above.)			
7	TOTAL TOTAL	lete 🗆 Tug 🖸	3-1/8"	
8	Gate valve—power operated		3-1/6"	
9	Line to choke manifold			3.
10	-	tug C	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	·	ate [] tug []	1-13/16*	
14	Pressure gauge with needle ve	hre		
15	Kill line to rig mud pump menti			2*

•	ANNUL AR PREVENTER	•
	PIPE RAMS PIPE RAMS PRILLIMO SPOOL CASMO MEAS CASMO MEAS (8)	

CONFIGURATION A

OPTIONAL					
16	Flanged valve	1-13/16*			

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or essinghead. Working pressure of preventors to be 3,000 pel, 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.BOP 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 lit pipe being used.
- 6.Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowsut preventer tester.
- 8.Extra set pipe rams to lit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

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

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2. All connections, volves, fittings, piping, etc., subject to wall or pump pressure must be flanged (suitable clemp 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 epening and closing position.
- 4. Chokee will be positioned so as not to hamper or delay changing of choke beens. Replaceable parts for adjustable choke, other been sizes, retainers, and choke wrenches to be conveniently tocated for immediate use.
- S.All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

- 7. Handwheels and extensions to be connected and ready for use.
- 8. Valves adjacent to drilling speci to be kept open. Use outside valves except for emergency.
- emergency.

 9.All seemises steel centrel piping (2000 pel working pressure) to have flexible joints to avoid stress. Hosee will be permitted.
- 18. Ceeinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine III-up operations.