MINIMUM BLOWOUT PREVENTI OUREMENTS

3,000 psi Werking Pressure

3 MWP

STACK REQUIREMENTS

No.	kem		Min. I.D.	Min. Nominal
1	Flowline		1	
2	Fill up line			2*
3	Drilling nipple		1	
4	Annular preventer			<u> </u>
5	Two single or one dual hydraulically operated rams			
64	Drilling speel with 2" min. kill line and 3" min choke line extlets			
6 b	2" min. till line and 3" min. choke line outlets in ram. (Alternate to 6a above.)			
7	I VOIVU	Gele [] Piug []	3-1/8*	
8	Gate valve-power operated		3-1/8*	
9	Line to choke manifold			3"
10		Bate C Plug C	2-1/16*	
11	Check valve		2-1/16*	
12	Casing head			
13		iale 🗆 Nug 🖸	1-13/16"	, , , , , , , , , , , , , , , , , , ,
14	Pressure gauge with needle vi	evie		
15	Kill line to rig mud pump manif			2"

	CONFIGURATION A
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	ANNULAR PREVENTER
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	PHPE RAWS
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	Example 1

OPTIONAL				
16 Flanged valve	1-13/16*			

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers 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 on derrick floor at all times with proper threads to fit pipe being used.
- E.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 gaskets in place of Type R.

MEC TO FURMISH:

- 1.Bradenhead or casinghead and side valves.
- 2.Wear bushing, Il 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 pump pressure must be flanged (autable clamp connections acceptable) and have minimum working pressure equal to sated 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 opening 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 bean 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 enchored.

- 7.Handwheets and extensions to be connected and ready for use.
- Valves adjacent to drilling speel to be kept open. Use outside valves except a emergency.
- All seemiess steel control piping (3000 pei working pressure) to have fiemble joints to avaid stress. Hoses 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.