MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,800 pel Working Pressure

3 MWP

STACK REQUIREMENTS

No.	Nem		Min. I.D.	Min. Nominal
1	Flowing			
2	Fill up line			2-
3	Drilling supple			
4	Annular preventer			
5	Two single or one dual hydraulically operated rams			
34	Drilling speel with 2" min. kill lie 3" min choke line outlets	ne and		
6 b	2° min. kill line and 3° min. Cho outlets in ram. (Alternate to 6a s	ke line bove.)		
7		Ne [] ug []	3-1/6"	
8	Gate valve—power operated		3-1/6"	
9	Line to choke manifold			3-
10		te C 4g C	2-1/16"	
11	Check valve		2-1/16"	
12	Casing head			
13			1-13/16*	
14	Pressure gauge with needle val-	70		
15	Kill line to rig mud pump menilol	d		2.

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ANNULAR PREVENTER	<u> </u>
PIPE RAMS ORILLING	
CASING	
(Evans)	® 9 (

CONFIGURATION A

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.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.
- 6. Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowaut preventer tester.
- Extra set pipe rams to fit 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 aide valves.
- 2. Wear bushing, if required.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Dritting Manager.
- 2.All connections, velves, fittings, piping, etc., subject to wait or pump 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.
- Controls to be of standard design and each marked, showing spening and closing position.
- 4. Chokes 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 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. 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.
- All seamless steel central piping (3000 pei working pressure) to have flexible joints to avoid 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 fill-up operations.