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## 3.000 pel Working Pressure

3 MWP

	STACK	REQUIREM	- ENTS	
No.	Kem		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2"
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams	draulically		
64	Drilling speel with 2° min 3° min choke line outlets	. till line and		
<b>6</b> b	2° min. till line and 3° min. chake line outlets in ram. (Alternate to 6a above.)			
7	Valve	Gele 🗆 Plug 🗅	3-1/8*	
8	Gale valve-power opera	led	3-1/8"	
9	Line to choke manifold			3.
10	Valves	Gale C Piug C	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gale [] Plug []	1-13/16*	
14	Pressure gauge with need	le valve		



	OPTIONAL		
16 Flanged valve		1-13/16"	

## CONTRACTOR'S OPTION TO FURNISH:

15 Kill line to rig mud pump manifold

- 1.All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psl, minimum.
- 2. Automatic accumulator (80 gallon, minimum) capable of closing 80P 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 biowout prevventer or its equivalent on derrick floor at all times with proper threads to itt pipe being used.
- 6.Kelly saver-sub equipped with subber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 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 valves.
- 2.Wear bushing, Il required.

## GENERAL NOTES:

2.

- 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 (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 opening and closing position.
- 4. Choixee will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for edjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All values to be equipped with handwheels or handles ready for immediate line.
- 6. Choke lines must be suitably anchored.

- 7.Handwheels and extensions to be con nected and ready for use.
- Valves adjacent to drilling speet to be kept open. Use outside valves except i emergency.
- All ecomics stoci centrel piping (3000 pel working pressure) to have flexible joints to avoid stress. Hasse 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.