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			MINI	MUM REQU	IREMENTS	5					
		T	3,000 MWP			5,000 MWP		10,000 MWP			
Na.		1.0.	NOMINAL	RATING	I.D.	NOMINAL	RATING	1.D.	NOMINAL	PATING	
1	Line from drilling spool		3*	3,000		3-	5,000		3.	10,000	
	Cross 3"x3"x3"x2"			3,000			5,000				
. 2	Cross 3"x3"x3"x3"									10,000	
3	Valves(1) Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000	
4	Valve Gate □ Plug □(2)	1-13/16*		3,000	1-13/16"		5,000	1-13/16*		10,000	
4a	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8*		10,000	
5	Pressure Gauge			3,000			5,000			10,000	
6	Gate □ Valves Plug □(2)	3-1/8"		3,000	3-1/6"		5,000	3-1/8*		10,000	
7	Adjustable Choke(3)	2"		3,000	2*		5,000	2"		10,000	
8	Adjustable Choke	1-		3,000	17		5,000	2*		10,000	
9	Line		3"	3,000		3-	5,000		3″	10,000	
10	Lina		5.	3,000		2-	5,000		3*	10,000	
11	Valves Gate □ Plug □(2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000	
12	Lines		3.	1,000		3-	1,000		3*	2,000	
13	Lines		3.	1,000		3*	1,000	•	3-	2,000	
14	Remote reading compound standpipe pressure gauge			3.000			5,000	·		10,000	
15	Gas Separator		2'x5'			2'x5'			2'x5'		
16	Line		4-	1,000		4"	1,000		4"	2,000	
17	Valves Gate ☐ Plug ☐(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000	

- (1) Only one required in Class 3M.
- (2) Gate valves only shall be used for Class 10M.
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 68 or 68X and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standplpe pressure gauge.
- 6. Line from drilling speel to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.