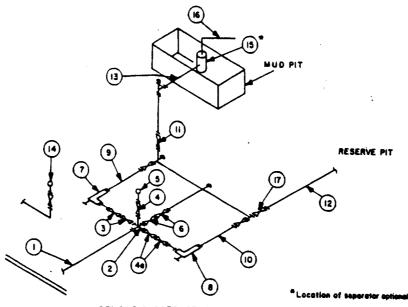
MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP



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			MINI	MUM REQL	JIREMENT!	s					
			3,000 MWP			5,000 MWP		10,000 MWP			
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	BATIN	
1	Line from drilling spool		3*	3,000		3"	5.000		3"	10.000	
2	Cross 3"x3"x3"x2"			3,000			5.000				
	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	
48	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	Valves Gate □ Plug □(2)	3-1/8*		3,000	3-1/8°		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	1"		5,000	2*		10.000	
9	Line		3"	3,000		3*	5,000		3-	10.000	
10	Line		2*	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'			2'15'		
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 6B or 6BX 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 standpipe pressure gauge.
- Line from drilling spool 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.