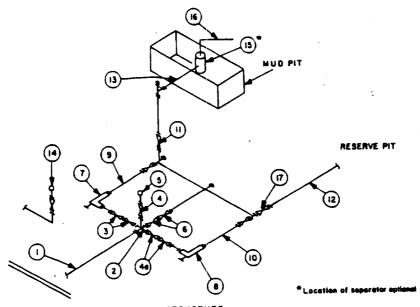
## MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP



REYOND SUBSTRUCTURE		OND	SUBST	RUCT	URE
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				NOBR MUN					000 1049	
			3,000 MWP		5,000 MWP			10,000 MWP		
		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING
No.		+	3*	3.000		3"	5,000		3"	10,000
1	Line from drilling spool	+		3.000			5,000			
2	Cross 3"x3"x3"x2"									10,000
. c	Cross 3"x3"x3"x3"	<del></del>				1				10,000
3	Valves(1) Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/6"	<u> </u>	10,000
_	Gale C	1-13/16"		3,000	1-13/16*		5,000	1-13/16*		10,000
	Plug Etty	2-1/16"	<del> </del>	3.000	2-1/16"	1	5,000	3-1/8"		10,000
48	Valves(1)	2-1/10	<del> </del>	3.000			5,000			10,000
5	Pressure Gauge		<del> </del>	0,555	<del>                                     </del>	<del> </del>				10,000
6	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"	<b> </b>	
	Chate(3)	2.		3,000	2"	1	5,000	2"	<del> </del>	10,000
_7	Adjustable Choke(3)	1.		3,000	1"		5,000	2-		10,000
	Adjustable Choke		3*	3,000		3*	5,000		3-	10,000
9	Line		2*	3,000		2*	5,000	l	3"	10,000
10	Line Gate 🗆	3-1/8"	<del> </del> -	3,000	3-1/8"		5,000	3-1/8"		10,00
11	Valves Plug □(2)	<del></del>	3"	1,000	<del>                                     </del>	3*	1,000		3*	2,00
12	Lines		3.	1,000		3-	1,000		3"	2,00
13		_	<del></del> -	1,000	+	<del>                                     </del>		1.		10.00
14	Remote reading compound standpipe pressure gauge		<u> </u>	3,000	<u> </u>		5,000		2'x5'	10,00
<del>                                     </del>			2'x5'	<u></u>		2'x5'				+
15			4"	1,000		4"	1,000		4"	2.00
10	Gate 🗆	3-1/8"		3,000	3-1/8*		5,000	3-1/8*		10,00

- (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.
- 5. 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.
- 6. Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make torse hands or 90° hands using bull plugged tees.