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

3 MWP - 5 MWP - 10 MWP (15 UD PIT 'n RESERVE PIT 10 2 *Location of separator optiono

BEYOND SUBSTRUCTURE

			MINU	MUM REQU	IREMENTS	5				
		3,000 MWP			5,000 MWP			10,000 MWP		
Na.		1.D.	NOMINAL	BATING	1.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3"	3,000		3-	5,000		3.	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000		1	
	Cross 3"x3"x3"x3"									10,000
з	Valves(1) Gate D Plug D(2)	3-1/8-		3,000	3-1/8"		5,000	3-1/8-		10,000
4	Gate G Valve Plug D(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"	1	5,000	3-1/8*		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Gate C Valves 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"	1	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	Gate 🗆 Valves Plug 🔤 (2)	3-1/8"		3,000	3-1/8*		5,000	3-1/8*		10,000
12	Lines	1	3*	1,000		3-	1,000		3"	2.000
13	Lines		3.	1,000	1	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	1	4*	1,000		4"	1,000		4"	2,000
17	Valves Gate C Plug C(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, lianged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 68 or 68X and ring gaskets shall be API RX or 8X. Use only 8X 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 preasure gauge shall be located on the rig floor in conjunction with the standpips pressure gauge.
- 6. 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.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the welt.