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



Location of separatar opt

BEYOND SUBSTRUCTURE

			MINI	MUM REQL	IREMENT	5				
No.		3,000 MWP			5,000 MWP			10.000 MWP		
		1.D.	NOMINAL	RATING	I.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		1	5,000			
	Cross 3*x3*x3*x3*					1				10,000
3	Valves(1) Gate D Plug D(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8*		10,000
4	Valve Gate G 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		1	5,000			10,000
6	Valves Gate C Plug C(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	17		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 Gale [] 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 C Ptug C(2)	3-1/8*		3,000	3-1/8"		5,000	J-1/8*		10,000

(1) Only one required in Class 3M.

(2) Gate velves only shell 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 shell 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 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 turns by large bends or 90° bends using buil plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.