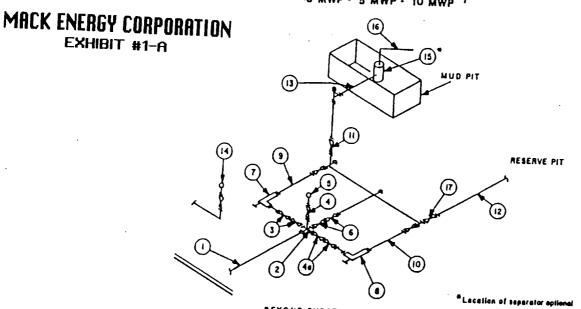
MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure 2 M will be used or greater 3 MWP - 5 MWP - 10 MWP



BEYOND SUBSTRUCTURE

				INIMUM REC	DINEMENT	S					
N	a.	 	3,000 M		<u>:</u>		5,000 MWP		10,000 MWP		
	Line from drilling spool	I.D.	NOMIN		1.0.	NOMINAL	RATING	1.D.	NOMINAL	RATI	
	2	 -	3.	3,000		3*	5,000		3"	10.0	
2	Cross 3"x3"x3"x3"			3,000			5,000	 	 	10,0	
3	Cata II	3-1/8*		3.000	3-1/6*					10,0	
	Coto C		 	3,000	3-1/6-		5,000	3-1/8*	10.0	10,0	
4	Plug (2)	1-13/16*		3,000	1-13/16*		5,000	1-13/16*		10,00	
5	Valves(1)	2-1/16*		3,000	2-1/16"		5,000	3-1/8"			
-	Pressure Gauge			3,000			5,000	3-1/8		10,00	
6	Valves Gate □ Plug □(2)	3-1/8*		3,000	3-1/6*		5,000	3-1/8*		10,00	
7	Adjustable Choke(3)	2"		3,000	2.					10,00	
8	Adjustable Choke	1.		3.000		 -	5,000	2.		10,00	
8	Line	7	3.	3,000			5,000	2.		10,00	
0	Line		2.	3,000		3*	5,000		3.	10,000	
1	Valves Gale D			3,000		2"	5,000		3.	10,000	
· 2	Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8-		10.000	
3	Lines	- .	3.	1,000		3-	1,000				
-		-	3*	1,000		3.	1,000		3"	2,000	
'	Remote reading compound standpipe pressure gauge			3,000			-	 -	3*	2,000	
	Gas Separator	 -	2'x5'	-			5,000	- 1	- 1	10,000	
	Line	 -	4"			2'x5'			2'x5'		
7	Valves Gate []			1,000		4.	1,000		4"	2.000	
\perp	Plug (2)	3-1/8"	- 1	3,000	3-1/8*		5.000	3-1/8"		0.000	

- (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 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 shalf 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 bull plugged tees.