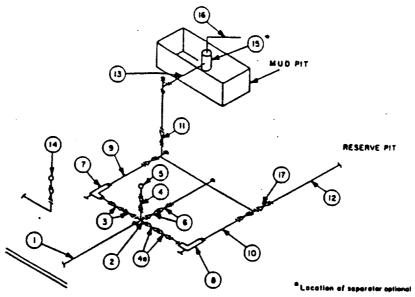
3 MWP - 5 MWP - 10 MWP



	EY	0	NO	SU	851	RU	CT	URE
--	----	---	----	----	-----	----	----	-----

			MINI	MUM REQL	JIREMENT!	5			-	
		3,000 MWP			5,000 MWP			10.000 MWP		
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool	_1	3.	3,000		3-	5,000		3*	10.000
2	Cross 3"x3"x3"x2"			3,000			5,000		<u> </u>	,,,,,,,
	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	Vaive Gate □ 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			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'x5'	
16	Line		4"	1,000		4*	1,000		4.	2,000
17	Valves Gate □ (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 68 or 68X and ring gaskets shall be API RX or BX. 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.
- 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.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.