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I hereby certify that the foregoing is true and correct		
signed Karen Rasa	KAREN ROSA ENGINEERING TECHNICIAN	Date <u>3/17/95</u>

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OPERATOR CERTIFICATION / hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Date and y Jackson Thise District Engineer Date 3/10/95 SURVEYOR CERTIFICATION / hereby certify that the well location shown on this plat well solution field notes of actual surveys made by me or under my supervision, and that the solution field notes of actual surveys made by me or under my supervision, and that the solution field notes of actual surveys made by me or under my supervision, and that the solution field notes of actual solution field notes of actual solution field notes of actual solution solution True Jase Ja	A S	SNO AL	LOWABLE WE	OR A NO	SIGNED T	O THIS	COMPLETION	UNTIL ALL IN	ITERESTS HA	VE BEEN	
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			 		· ·				V. Z. HEAN		

3,000 psi Working Pressure

3 MWP

EXHIBIT #1

	STACH	REQUIREME	NTS	
No.	item		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual h operated rams	ydraulically		
6a	Drilling spool with 2" min 3" min choke line outlet			
6b	2" min. kill line and 3" n outlets in ram. (Alternate	nin. choke line		
7	Valve	Gate 🗆 Piug 🗅	3-1/8"	
8	Gate valve-power oper	ated	3-1/8"	
9	Line to choke manifold			3"
10	Valves	Gate 🖸 Plug 🖸	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate D Piug D	1-13/16*	
14	Pressure gauge with ne	edia valve		
15	Kill line to rig mud pump			2*

		OPTIONAL
16	Flanged valve	1-13/16"

CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- 2. Automatic accumulator (60 galion, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.BOP controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- 5.Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6.Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- 8.Extra set pipe rams to lit drill pipe in use
- on location at all times. 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1.Bradenhead or casinghead and side valves. 2.Wear bushing, if required.

GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chone. Valves must be full opening and suitable for high pressure mud service.
- 3. Controls to be of standard design and each marked, showing opening and closing position.
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- 5. All valves to be equipped with handwheels or handles ready for immediate USØ.
- 6. Choke lines must be suitably anchored.

CONFIGURATION

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- 7.Handwheels and extensions to be connected and ready for use.
- 8.Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

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

EXHIBIT #1-A



BEYOND SUBSTRUCTURE

			MINI	MUM REQL	JAEMENT	S				
			3,000 MWP			5,000 MWP			10,000 MWF	>
No.		1.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	1.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			
	Cross 3"x3"x3"x3"									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 Gale [] Piug [](2)	1-13/16*		3,000	1-13/16*		5,000	1-13/16-		10,000
4 a	Valves(1)	2-1/16*		3,000	2.1/16"		5.000	3-1/8"		10.000
5	Pressure Gauge			3,000			5,000			
6	Valves Gate C Plug D(2)	3-1/8*		3.000	3-1/8"	· · · ·	5,000	3-1/8*		10,000 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.	
11	Valves Gate D Plug D(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"	_
14	Remote reading compound standpipe pressure gauge			3,000			5,000			2,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4"	1,000		4.	1.000		2'15'	
17	Valves Gate C Plug C(2)	3-1/8"		3,000	3-1/8*		5,000	3-1/8"	••••	2,000

(1) Only one required in Cless 3M.

(2) Gate valves only shall be used for Class 10M.

(3) Remote operated hydraulic choice 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 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.