EXHIBIT #1

MINIMUM BLOWOUT PREVENTE: ________

3,000 psi Working Pressure

3 MWP

STACK REQUIREMENTS

No.		_	Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up line			2*
3	Drilling nipple			
4	Annular preventer		1	
5	Two single or one dual I operated rams	hydraulically		
64	Drilling spool with 2" mi 3" min choke line outlet			
6 b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)			
7	Valve	Gele 🛛 Plug 🗅	3-1/8*	
8	Gale valve—power operated		3-1/8"	
9	Line to choke manifold			3.
10	Valves	Gele 🖸 Piug 🖸	2-1/16-	
11	Check valve		2-1/16*	
12	Casing head			
13	Valve	Gele D Plug D	1-13/16*	· · · · · · · · · · · · · · · · · · ·
14	Pressure gauge with ner	die velve		
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 psl, minimum.
- 2. Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or isse 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.
- Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- Extra set pipe rams to fit 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 clemp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chore. 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 perts for edjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently tocated for immediate use.
- All values to be equipped with handwheels or handles ready for immediate use,
- 8. Choke lines must be suitably anchored.

7.Hendwheels and extensions to be connected and ready for use.

- Valves adjecent to drilling spool to be kept open. Use outside valves except for emergency.
- All seemises steel centrel piping (2000 pel working pressure) to have flexible joints to avaid stress. Hosee 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.

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