EXHIBIT #1

MINIMUM BLOWOUT PREVENTER RE_ AREMENTS

3,000 psi Working Pressure

3 MWP

	STACK	REOUIREMI	ENTS	
No.	tem		Min. I.D.	Min. Nominal
1	Flowine			
2	Fill up line			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hydraulically operated rame			
64	Dritting spool with 2° min. 3° min choke line eutlets	kill line and		
6 b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)		-	
7	Valve	Gale D Plug D	3-1/8*	
•	Gate valve—power operated		3-1/6"	
9	Line to choke manifold			3*
10	Valves	Gate D Plug D	2-1/16*	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gale 🗋 Plug 🗋	1-13/16*	
14	Pressure gauge with need	le valve		
15	Kill line to rig mud pump m	_		2"



OP	NONAL
16 Flanged valve	1-13/16"

CONTRACTOR'S OPTION TO FURNISH:

۰.

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 pel, minimum.
- 2.Automatic accumulator (20 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.80P controls, to be located near drillers position.
- 4.Kelly equipped with Kelly cock.
- S.Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 5.Kelly saver-sub equipped with rubber casing protector at all times.
- 7.Plug type blowout preventer tester.
- Extra set pipe rams to itt 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 values.
- 2.Weer bushing, Il required.

GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Dritting 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 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. Choixes will be positioned so as not to hamper or delay changing of choixe beens. Replaceable parts for adjustable choixe, other bean sizes, retainers, and choixe wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6.Choke lines must be suitably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- 8. Valves adjacent to drilling speci to be kept spon. Use outside valves except for emergency.
- All examines steel control piping (2000 pel working pressure) to have flexible joints to avaid stress. Hasse will be permitted.
- 10. Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine III-up operations.