EXHIBIT #1

JUREMENTS

MINIMUM BLOWOUT PREVENTE

3,000 psi Working Pressure

3 MWP

STACK REQUIREMENTS

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No.	Kem		Min. I.D.	Min. Nominal
1	Flowline			
2	Fill up ine			2*
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hydraulically operated rame			
\$4	Drilling spool with 2° min. kill line and 3° min choke line cullets			
6b	2° min. kill line and 3° min. choke line outlets in ram. (Alternate to 6a above.)			
7	Valve	Gale [] Plug []	3-1/8*	
8	Gate valve-power operated		3-1/8*	
9	Line to choke manifold			3.
10	Valves	Gale D Plug D	2-1/16*	
11	Check valve		2-1/16*	
12	Casing head			
13	Valve	Gate 🗆 Plug 🗆	1-13/16"	
14	Pressure gauge with needl	e valve		
15	Kill line to rig mud pump menilold			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 (20 gallon, minimum) capable of closing BOP in 20 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, Il required.

GENERAL NOTES:

- 1.Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2. All connections, velves, 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 epening and closing position.
- 4. Chokes will be positioned so as not to hamper or delay changing of choke beens. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All values to be equipped with handwheels or handles ready for immediate use.
- 6. Choice lines must be suitably anchored.

- 7.Handwheels and extensions to be connected and ready for use.
- Valves adjecent to drilling speel to be kept open. Use outside valves except to emergency.
- All seemices steel control piping (2000 pel working pressure) to have flexible joints to avoid stress. Hosse will be permitted.
- 18. Casingheed connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine Illi-up operations.