ATTACHMENT NO. 2

(See Section 4) Poge 1 of 1

TO BE INSTALLED AFTER SETTING 8-5/8 INCH CASING

Contractor or Pzt. to furnish items checked (X). See attached drawing.

No.	ltem	Min. Size *	Туре	Press.	Furnished By	
				Rating	Contr.	Pzl.
			-			
1.	Flow Line	8"	Welded	125	X	
2.	Fill Up Line	2"	Thd or Wld	125	X	
3.	Bell Nipple	8"	Welded	125	x	· ·
4.	Rotating Head			_		·
5.	Hydraulically Operated Gate Valve					
6.	Blooie Line	ļ				
7.	Blooie Line Bag Preventer Manuelly Hydroulicolly Operated Ram Preventer (Db/Gak) Drilling Spool with in. and in.					
8.	Hydraulically Operated Ram Preventer (Db/ Gate)	8"	Flanged	3000	x	
9.	Drilling Spool with in. and in.					
	Side Outlets	8"	Flanged	2000	x	ļ
10.	Preventer Side Outlets, in. and in.					
	Use as alternate to No. 9 above.	8"	Thd or Flg	2000	X	
11.	Gate Valve	2-1/16.	Thd or Flg	2000	X	
12.	Hydraulically Operated Gate Valve					
13.	Line to Choke Manifold	2"	Thd or Flg	2000	X	
14.	Gote Volve	2-1/16	Thd or Flg	2000	X	
15.	Hydraulically Operated Gate Valve					
16.	Check Volve					
17.	Drilling Spool with in. and in.					
	side outlets					
				- 1.		
18.	Preventer Side Outletsin. andin.					
	Use as alternate to No. 17 above.	1				
19.	Gate Valve	2"	Threaded	2000		<u> </u>
20.	Hydraulically Operated Gate Volve	1				
21.	ReliefLine			•_		
22.	Wear Flonge or Bushing	N/A			·	
23.	Kill Line to accessible location approxft.	1 .				
	from rig.					
24.	Gate Vaive	Į	ļl			
25.	Kill Line to rig pump manifold	2"	Thd or Flg	2000	<u> </u>	
26.	Way Cross,in. xin. xin. x					
	in.		<u> </u>			
27.	Tee, in.x in.x in.					
28.	Holf Union		ļ			
29.	Casing Spool	<u> </u>				
30.	Gate Valve	_				
31.	Cosing Spool			L		
32.	Gate Valve					_
33.	Pressure Gouge					
34.	Casing Head	8"	Flg x Thd	2000		X_
35.	Gate Valve					
36.	Gate Volve			1		

*Line sizes to be inside diameter.

Valves, spools and preventer sizes to be bore dimension.

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- All connections on the BOP stack shall be flanged or bolted ring clamp of comparable rating. 1.
- All flanges to be API 6B or 6BX and ring gaskets shall be API RX or BX. 2.
- All drilling spools are to be forged steel construction. Spools constructed from pipe are not acceptable. 3. 4.
- The fill-up line shall not be connected to any side outlet below the uppermost preventer. 5.
- Replacement parts for the BOP equipment shall be obtained from the original manufacturer. 6.
- BOP stock shall be properly braced to rig substructure by turnbuckled lines or rods. 7.
 - Connections on the kill line, choke lines and choke manifold:
 - May be threaded, welded, flanged or balled ring clamp.
 - Shall be either flanged or bolted ring clamp of comparable rating.
 - All gate valves must be equipped with hand wheels.
- Choke and kill lines are to be seamless steel pipe having a minimum working pressure that is based on 80% of 9. the API minimum internal yield pressure rating of that pipe. 10.
- The kill line shall not be used as a fill-up line. 11.
- All choke lines must be as straight as possible with no abrupt bends or turns.
- All choke lines are to be securely anchored. 12.

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- Steel hose (chicksons) are not to be used in any part of the choke manifold. 13.
- The occumulator unit and master set of controls shall be located at ground level, a minimum of_ 14. 50 from the well bore. The remote set of controls is to be located near the drillers position on the rig floor. All hydraulic lines between the accumulator and any hydraulically operated device shall be of seamless steel 15.
- pipe and swing joints. Rubber hases are not permitted. Short lengths of high pressure hase are permitted in lines connecting the remote station to the valve actuating cylinders on the master control unit. Housing and heating should be provided for accumulator, blowout preventers and choke manifold where condi-16.
- tions warrant. 17.
- All drill string blowout prevention equipment must be maintained in good operating condition and stored in an orderly condition on the rig floor.
- Operating wrenches for the drill string BOP equipment are to be kept in full view near the driller's position. 16.
- Contractor to make no connection to casing head side outlets except by orders of Pzl. Ϋ. . 0.
 - Keep on rig: (a) One spare set of pipe roms, complete with packing rubbers for each size of drill pipe in use. Replacement parts for all manual adjustable chokes along with the necessary tools for (b) changing parts.
- When a rotating head is in use on the BOP stack, dresser sleeve connections in the flowline are not permitted. 21.
- Hand wheels and extensions (outside the substructure) shall be installed for operating the locking screws on 22. all rom preventers and hydroulically operated gate valves on the choke and kill lines. If the installation of these extensions create a safety hazard or far some unavoidable reason cannot be properly installed, a hand crank or wrench should be readily available to operate the locking screws. 23
- When a wear bushing is required, only the lock-in type shall be used. 24.
- Water lines and valves shall be connected and ready for use on all internal combustion engine exhausts.
- The cellar is to be kept jetted and the preventer stock and choke manifold washed down at all times. 25. 26.
- All volves are to be lubricated at regular intervals.
- All valves are to be clearly identified as being open or closed. 27.
- Proper alignment of the rig with the center line or the BOP stock and casing shall be maintained at all times. 28. All flange bolts on the stack, kill line and choke manifold should be tightened at least once each week. 29.



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