

CHECK LIST AND DRAWINGS (ATTACHED)
 MINIMUM LOWOUT PREVENTER EQUIPMENT REQUIREMENTS
 (ATTACHMENT NO. _____ TO BID SHEET AND WELL SPECIFICATIONS)
 3000 PSI WORKING PRESSURE
 TO BE INSTALLED AFTER SETTING 8 5/8 INCH CASING
 Contractor or Pzl to furnish items checked (X). See attached drawing

No.	Item	Min. Size #	Type	Press. Rating	Furnished By	
					Contr.	Pzl.
1.	Flow Line	8"	Weld	125	X	
2.	Fill Up Line	2"	Thd or Weld	125	X	
3.	Bell Nipple	8"	Weld	125	X	
4.	Rotating Head					
5.	Hydraulically Operated Gate Valve					
6.	Bloose Line					
7.	Bag Preventer	8"	Flanged	3000	X	
8.	Hydraulically Operated Ram Preventer					
9.	Drilling Spool with 2 in. and 2 in. Side Outlets	8"	Flanged	3000	X	
10.	Preventers Side Outlets 2 in. and 2 in. Use as alternate to No. 9 above.	8"	Flanged	3000	X	
11.	Gate Valve	2"	Flanged	3000	X	
12.	Hydraulically Operated Gate Valve (HCR Valve)					
13.	Line to Choke Manifold	2"	Flanged	3000	X	
14.	Gate Valve	2"	Flanged	3000	X	
15.	Hydraulically Operated Gate Valve					
16.	Check Valve					
17.	Drilling Spool with _____ in. and _____ in. Side outlets					
18.	Preventer Side Outlets _____ in. and _____ in.					
19.	Gate Valve	2"	Flanged	3000		X
20.	Hydraulically Operated Gate Valve					
21.	Relief Line					
22.	Wear Flange or Bushing					
23.	Kill Line to accessible location approx. _____ ft. from rig. (MINIMUM DISTANCE)					
24.	Gate Valve					
25.	Kill Line to rig pump manifold	2"	Flanged	3000	X	
26.	_____ Way Cross, _____ in. x _____ in. x _____ in. _____ in.					
27.	Tee, _____ in. x _____ in. x _____ in.					
28.	Bull Plug					
29.	Casing Spool					
30.	Gate Valve					
31.	Casing Spool					
32.	Gate Valve					
33.	Pressure Gauge					
34.	Casing Head	8"	Flanged	3000		X
35.	Gate Valve					
36.	Gate Valve					

Line sizes to be inside diameter.

Valves, spools and preventers sizes to be bore dimension.