

One double-gate BOP with 4-1/2” and then 3-1/2” pipe and blind rams.  
One choke manifold with adjustable and positive chokes.  
An accumulator will hydraulically operate the BOP with 1-1/2 times the necessary capacity to close the rams and retain a minimum of 200psi above recharge. The remote unit will be located in the bottom “dog house” or on the ground between the “dog house” and the toolpushers trailer. A rotating head on top of the BOP stack will be utilized when necessary.

Testing Procedure:  
The BOP and related equipment will be tested in accordance with the provisions of Onshore Oil and Gas Order No. 2.

BOP’s will be operationally tested daily and each test will be logged in the IADC Daily Drilling Report.

Bloolie Line:  
The bloolie line and related equipment will meet all requirements of Onshore Oil and Gas Order No. 2.

4. CASING AND CEMENTINNG PROGRAM

<u>SURFACE CASING (Spud Mud)</u>						
<u>Age</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
New	0-350’	12-1/4”	9-5/8”	32.3#	H-40	ST&C

<u>INTERMEDIATE CASING (FW Mud)</u>						
<u>Age</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
New	0-2797’	8-3/4”	7”	20#	K-55	ST&C

<u>PRODUCTION CASING (Air Dusting)</u>						
<u>Age</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
New	0-TD	6-1/4”	4-1/2”	11.6#	L-80	LT&C

MINIMUM SAFETY FACTORS  
Collapse: 1.125  
Tension: 1.8  
Burst: 1.0