

#### POINT 4: PRESSURE CONTROL EQUIPMENT (SEE ATTACHED DIAGRAM)

A BOP equivalent to Diagram 1 will be nipped up on the surface casing head. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. will be hydro-tested to the lowest rated working pressure of the equipment being tested. In addition to the rated working pressure test, a low pressure (200 psi) test will be required. These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Fifteen days after a previous test
- d) As required by well conditions

A BOP equivalent to Diagram 2 will be nipped up on the 7" intermediate casing head. The BOP stack, choke, kill lines, kelly cocks, inside BOP, etc. will be hydro-tested to the lowest rated working pressure of the equipment being tested. In addition to the rated working pressure test, a low pressure (200 psi) test will be required. These tests will be performed:

- a) Upon installation
- b) After any component changes
- c) Fifteen days after a previous test
- d) As required by well conditions

A function test to insure that the preventers are operating correctly will be performed on each trip. See the attached Diagrams 1 & 2 for the minimum criteria for the choke manifold.

#### POINT 5: MUD PROGRAM

DEPTH	MUD TYPE	WEIGHT	FV	PV	YP	FL	Ph
0' - 750'	FW	8.5 - 9.2	45-35	NC	NC	NC	9.5
750' - 4,150'	CBW	9.2 - 10.0	28-30	NC	NC	NC	9.5
4,150' - 8,300'	FW	8.6 - 8.9	28-30	4	2	<100	9.5
8,300' - 12,500'	CBW	8.6 - 9.0	28-30	6	4	<100	9.5
12,500' - TD	CBW/Polymer	9.0 - 13.5	32-55	12-20	12-22	10-15	9.5-10.0

#### POINT 6: TECHNICAL STAGES OF OPERATION

##### A) TESTING

Drill stem tests may be performed on significant shows in zones of interest.

##### B) LOGGING

Run #1:  
GR-CNL-LDT-LLD run from TD to 9-5/8" ICP, GR-CNL to surface. May run logging suite across Delaware prior to drilling below 8300' if mud log shows warrant.