

Surface to Total Depth -

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 2000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# Celloflake/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/362 sx 50/50 Class "G"/TXI Liteweight w/2.5% sodium metasilicate, 2% calcium chloride, 10 pps gilsonite and 0.5 pps Celloflake. Tail w/90 sx 50/50 Class "G" Poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.1% antifoam and 0.25 pps Celloflake (1049 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 2590'. First stage: cement with 211 sx Class "G" 50/50 poz w/2% gel, 5 pps Gilsonite, 2% calcium chloride, 0.25 pps Celloflake, 0.1% antifoam. Second stage: 302 sx Class "G"/TXI Liteweight with 2.5% sodium metasilicate, 2% calcium chloride, 0.5 pps Celloflake, 10 pps Gilsonite (1049 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 2280'. Two turbolating centralizers at the base of the Ojo Alamo at 2280'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to circulate liner top. Pump 235 sx 50/50 Class "G" Poz w/0.25 pps Celloflake, 5% gel, 0.1% retardant, 5 pps gilsonite, 0.25% fluid loss additive, 0.15% dispersant (338 cu.ft., 40% excess to circulate liner top). WOC a minimum of 18 hrs prior to completing.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.