

8-3/4" hole to 10,800'. Set 7", 26#, P-110, LTC, csg @ See Remarks

Note: 7" casing point may vary between 10,100' – 10,800' depending on hole conditions. Offset data indicates ability to drill to 10,800' without any mud weight increase (i.e. 9.0 – 10.0 ppm base fluid). Casing needs to be set as close to kick off point as possible to minimize open vertical hole during lateral operations.

6-1/8" Pilot Hole to Vertical Total Depth of 11,250'

Plug Back to Kick-off Point @ +/-10,925'

Target Azimuth = 124 Degrees

Final Inclination = 89.6 Degrees

Total Vertical Section = 2355'

Total Depth = 13,415' MD, 11,169' TVD

Run 4-1/2" 15.1# P-110 STL Liner. Hang off in 7" casing with mechanical liner hanger & isolation packer. (Top of liner @ +/- 10,600'). Liner will not be cemented.

5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.

- a.) Surface Hole (17-1/2" X 13 3/8" csg): Cmt w/625 sxs Class "C" Cmt + 2% Cacl, .25 pps Flocele.

(Volume estimated using 100% excess to circulate cement to surface).

- b.) Intermediate Hole (12-1/4" X 9 5/8" csg): **Single Stage**

Lead w/650 sxs Class "C" Lite Cmt + 6 pps Salt, .25 pps Flocele, **Tail** w/300 sxs Class "C" Cmt, 1% CaCl₂.

(Circulate cmt to surface. Volumes estimated using 200% excess).