

Summary of Re-entry and Re-plugging Operations for Duell 1

1. Survey and locate plugged wellbore. Set a stake and record as-drilled GPS coordinates.
2. Excavate around wellbore to expose the top of the surface casing.
3. Cut existing cap off wellbore. Weld a crossover from 10-3/4" casing to 8-5/8" casing and necessary length of casing to reach ground level. Weld an 8-5/8" slip collar.
4. Install wellhead and BOP.
5. Drill out existing cement plugs with 6-1/2" bit. Pressure test surface casing to 250 psi before drilling out surface casing plug. Continue drilling or RIH to tag existing plug at 7150'.
6. POOH and spot cement plug from 6709'-6559' with class G cement (50 sks).
7. Pull up and spot plug from 6459'-6159' with class G cement (99 sks). Tag plug once set.
8. POOH and spot plug from 641' to surface with class G cement (317 sks).
9. Cut off casing 5' below surface and weld on a cap to seal the well.
10. Cover up the well and remediate the disturbed area.