

### **Summary of Re-entry and Re-plugging Operations (H H 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 4" riser off wellbore at the top of the 10-3/4" surface casing. 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 7153'.
6. POOH and spot cement plug from 6717'-6567' with class G cement (50 sks).
7. Pull up and spot plug from 6432'-6132' with class G cement (99 sks). Tag plug once set.
8. Spot plug from 652' to surface with class G cement (257 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.