

## McLaughlin 72 Plugging Procedure

1. Contact COGCC 48 hours prior to commencement of P&A
2. Pot hole down 6' Install 21' of casing 7" ( note: well is an open bore well with no surface casing) Install a 24"X24" Plate that has been welded to the 7" @ 6' from the surface on pipe this will have casing to ground level., build a cement retainer box 36' X 36" X 18", mix cement fill retainer box to stabilize casing. Back fill hole less 12". Build berm around well for P&A work.
3. Tag plug back TD with TD machine - Calculate required shale rock fill from PBTD to +/- 350' Fill well with shale rock from PBTD to +/- 350' (+/- 50')
4. Tag top of shale rock with TD machine- Backfill if required until top of shale rock is 350' (+/- 50') RIH with TD machine to verify, TIH with 2" pipe Spot 50' cement plug with Class ASTM "C" let set till morning.
5. Rig up TD machine verify cement top, If acceptable, Backfill hole with reject sand from +/- 300' to 140'-160' - Tag top of sand with TD machine
6. Calculate cement and required to fill from 140' – 160' to 4 feet from surface
7. Run in hole with 2" pipe to spot Class ASTM "C" cement - Spot cement from top of sand to four feet from surface
8. SDFN and allow cement to settle and set
9. Check top of cement with TD machine or tubing and refill casing to 4' while POH with tubing
10. If cement is visible but deeper than 4' top off casing to four feet with bag cement
11. Allow cement to set and stabilize outside of driven pipe with cement to four feet below surface
12. After cement has set, cut-off surface pipe and weld on plate beaded with well information
13. Backfill above stub with soil and reclaim site as weather allows