

**Field Name:** Rangely Weber Sand Unit  
**Well Name:** AC McLaughlin 44D – Disposal Well

**Scope change from cement squeeze to liner job. Steps begin after finding casing problems**

1. TIH w/ 2 7/8" workstring and on/off skirt, engage the on/off tool (4959'). R/U WL & pull plug in on/off profile. Kill well as necessary, Release the 7" Loc-Set PKR, POOH and L/D PKR & tailpipe.
2. PU & RIH w/ 7" clean out assembly (bit & string mill). Try to C/O to PBTD @ 5800' (maintain open communication on progress of clean out), POOH and L/D clean-out BHA.
3. RIH & set plug and packer to secure well for BOP change.
4. N/D 7" BOPE & tubing head.

**Note:** Lowering the wellhead will likely be required. Fill out necessary PTW's. Cut off 9 5/8" & 7" casing. Install centralizing ring between 7" and 9 5/8" casing. Weld on new 11" 5K casing head.

5. N/U 11" 5K x 11" 3K casing spool for 5 1/2" casing. Test void. N/U 11" 3K BOPE and test. N/U 7-1/16" 2-7/8" single gate ram.
6. Prep to run 5 1/2" liner from PBTD to surface. String blocks on 6 lines.
7. Retrieve & L/D plug and packer.
8. MIRU casing crew and equipment. P/U & TIH w/ liner:
  - a. 5 1/2" guide shoe, 1 joint 5 1/2" casing, 5 1/2" float collar, ~5755' of 5 1/2" 17 #/ft L-80 casing, and land @ 5790' (10' of rathole). Casing will need to have turned down collars. Verify depths with engineers
  - b. Fill casing regularly to prevent collapse
9. MIRU cementers & cement liner to surface per proposal.
10. Make rough cut on 5 1/2" casing. N/D 11" BOPE. Vetco to set slips and cut casing.
11. Make final cut and dress of 5 1/2" casing. N/U 11" 3K x 7 1/16" 3K tubing head & 7 1/16" BOPE and test.
12. MIRU wireline & run CBL from float collar to surface. Identify TOC & note in wellview.
13. PU & TIH w/ BHA (4 3/4" bit, bit sub, 6- 3 1/2" DC's, XO, & WS) to drill out shoe track. Test liner. Drill out float collar to casing shoe @ 5790'. Test liner. TOH. L/D BHA.  
  
-Notify COGCC field inspector for performing MIT test (1200 psi for 15 min).
14. MIRU wireline to re-perforate as directed by PE. POOH.
15. P/U & TIH w/ 5 1/2" casing scraper to PBTD. POOH. L/D scraper.
16. P/U & TIH w/ 5 1/2" RBP & packer to break down perfs, spot acid as directed by PE. TOH.

17. TIH with a wireline re-entry guide, 1 jt tail pipe 2-7/8" FGW-FL tubing, 7" LocSet packer & extended neck on/off tool w/ 1.875 F profile on 2 7/8" workstring. **Finalize packer setting depth and EOT with engineers prior to running.**
18. R/U WL. RIH & set plug in profile, R/D wireline.
19. POOH & L/D 2 7/8" workstring.
20. Change out elevators, slip dies, and BOP rams from 2 7/8" to 3.5" and test.
21. PU & RIH with on/off skirt, 2 7/8" FL tbg pup, 7" PS-1X Packer and new 3.5" fiberlined tubing. Space out and pump PKR fluid (110 gal of CRW132 mixed in annular volume). Engage On/off assembly and land tubing. **Confirm packer setting depth with engineers prior to running.**
22. R/D rig floor and N/D BOPE. N/U WH.
23. Notify COGCC (Kyle.Granaham@state.co.us) and perform MIT test. If necessary this can be done after the rig has moved off location.

**Test casing to 1200 psig for 15 min.**

24. RDMO Workover Rig.
25. RU Wireline & pull plug in profile, RD Wireline.
26. Notify WAGGER (Danny Jackson 970-620-1726) upon completion of work.