

Plug and Abandonment Procedure
Jordan Loustaunau #34-10
NWSW Section 34, T1N, R65W
API# 05-123-14809

1. Provide 48 hr notice Form 42 to COGCC prior to rig up per Form 6 COA
2. Familiarize all personnel with allowed access to location and areas allowed to be disturbed.
3. Secure permission to access area and identify prospective well locations via satellite and survey data.
4. Verify well location and excavate well.
5. Once permission to begin work is secure, excavate area around well to sufficient size for safe access of casing, Verify casing size, cut off cap, weld on slip collar w/ wellhead and riser, set cellar ring and back-fill.
6. MIRU WO Rig, beam, doghouse, BOP, accumulator, rig pump, shaker tank, rig tank, 9.5ppg water-based mud, pipe float, 3-1/8" collars, 2-3/8" work string, power swivel.
7. Make up BHA; 2 3/8 EUE string, 2x 3-1/8" drill collars, Float, POBS, 3.75" roller-cone bit.
8. RIH and drill out cement from 0-1300'.
9. Wash/Ream inside 4.5" Casing to 7,700'. If depth is not achieved, call OGCC engineer.
10. Circulate and condition hole.
11. TOOH, Laydown BHA.
12. MIRU Wireline Truck and run CBL from 7700' to surface. There are conflicting reports of depths and volumes for squeezes/plugs of original P&A. **If cement tops are different from "Before P&A" WBD, contact OGCC engineer and coordinate design adjustments.** Confirm free pipe specifically between 7075-6800' and 1700-1330'.
13. Once TOC's are confirmed, MU perforating guns and RIH w/ 2' of 4spf squeeze hole guns and perforate bottom squeeze holes at 7075' (1 gun/4 holes), and top squeeze holes at 6825' (1 gun/4 holes).). POOH and RDMO Wireline. MIRU cementers
14. MU 4.5" Cast iron cement retainer on 2-3/8" tbg and RIH to 6900'. Set retainer and establish circulation. Once circulation established, pump 100sks 15.8# Class G cement. **Pump 90 sacks through retainer, unsting, and set 10sacks on top of retainer, and displace.** POOH and LD 20 jts slow. RD cementers.
15. Valve around and reverse circulate to clean tubing.
16. POOH and LD tbg to 1600'. Stand back remaining tbg to derrick.

17. RU wireliners and RIH w/ 2' of 4spf squeeze hole guns and perforate bottom squeeze holes at 1700'(1 gun/4 holes), and top squeeze holes at 1330'(1 gun/4 holes). POOH and RDMO Wireline. MIRU cementers
18. MU 4.5" Cast iron cement retainer on 2-3/8" tbg and RIH to 1600'. Set retainer and establish circulation. Once circulation established, pump 190sks 15.8# Class G cement. **Pump 115 sacks through retainer, unsting, and set 75 sacks on top of retainer**, and displace. POOH w/ tubing. RD cementers.
19. POOH and LD to 600', reverse circulate tubing to clean up cement.
20. POOH and LD retainer stinger. Prep for surface plug.
21. RU wireliners and RIH w/ 1' of 4spf squeeze hole guns and perforate squeeze holes at 330'(1 gun/4 holes). POOH and RDMO Wireline. MIRU cementers.
22. Close blind rams and break circulation down 4.5" casing, and take returns up 8-5/8" surface casing. Once circulation established, begin circulating cement to surface (prescribed 120sx).
23. RDMO Cementers, Rig, and supporting equipment. Tidy location and prep for reclamation.
24. After 5 days, verify TOC is within 5' of surface. Top off if needed. Excavate cellar ring and wellhead, cut off casing 6' below ground level and weld on cap with full legal description welded onto plate. Back fill hole.
25. Reclaim location.
26. Submit Form 6 Subsequent and Form 42 for completion of COA.