

**Plug and Abandonment Procedure**  
**Sawyer/Powell #32-4**  
**NWSW Section 32, T1N, R65W**  
**API# 05-123-14807**

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, 2-7/8" EUE work string, power swivel.
7. Make up BHA; 2 7/8 EUE string, 2x 3-1/8" drill collars, Float, POBS, 6.5" roller-cone bit.
8. RIH and drill out cement plugs from 0-28', 175-275', 1225-1275', and 1400-1450'.
9. Wash/Ream in 7-7/8" Open Hole to 7,800'. Tag cement plug above sand. Contact COGCC if not tagged. If not tagged, may need additional plug to isolate D/J-sands.
10. Circulate and condition hole.
11. TOOH, Laydown BHA.
12. RIH w/ 4.75" Tricone mill, XO, string float to 7150'. Circulate and condition hole.
13. MIRU cementers and pump 150sx Class G Neat Cement from 7150'-6800'. Displace and POOH through cement. Release cementers.
14. WOC 4 hours or otherwise advised by cementers and tag cement. If not tagged at or above 6800', contact engineer. May require additional cement.
15. POOH to 2500', circulate and condition hole. MIRU cementers and pump 50sx Class G Neat Cement from 2500'-2400'. Displace and POOH through cement.
16. WOC 4 hours or otherwise advised by cementers and tag cement. If not tagged at or above 2400', contact engineer. May require additional cement.
17. POOH to 1275', circulate and condition hole. MIRU cementers and pump 175sx Class G Neat cement from 1275'-850'. Displace and POOH through cement.

18. WOC 4 hours or otherwise advised by cementers and tag cement. If not tagged at or above 850', contact engineer. May require additional cement.
19. POOH to 300', circulate and condition hole. MIRU cementers and pump cement until returns taken to surface (115sks prescribed). Once good returns taken, SD cement and POOH. Top off as necessary.
20. RDMO Cementers, Rig, and supporting equipment. Tidy location and prep for reclamation.
21. 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.
22. Reclaim location.
23. Submit Form 6 Subsequent and Form 42 for completion of COA.