

Plug and Abandonment Procedure
Van Aire #1
SWNE Section 7, T1S, R65W
API# 05-001-06699

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, 4" roller-cone bit.
8. RIH and drill out surface plug, and then CIBP @ 1297'.
9. Wash/Ream inside 5" Casing to 6880'.
10. Circulate and condition hole.
11. TOO, Laydown BHA.
12. MIRU Wireline Truck and run CBL from 6880' to surface. **If cement tops are different from "Before P&A" WBD, contact OGCC engineer and coordinate design adjustments.**
13. Once TOC's are confirmed, MU perforating guns and RIH w/ 2' of 4spf squeeze hole guns and perforate bottom squeeze holes at 6875' (1 gun/4 holes), and top squeeze holes at 6675'(1 gun/4 holes).). POOH and make up and RIH w/CICR, set at 6750'. POOH and RDMO Wireline. MIRU cementers
14. MU 5" Cement retainer stinger tool on 2-3/8" tbg and RIH to 6750'. Sting into retainer and establish circulation. Once circulation established, pump 64sks Class G Neat cement. Pump 57sx through retainer, unsting and leave 7sx on top of retainer. POOH w/ tbg.
15. MIRU Wireline, MU perforating guns and RIH w/ 2' of 4spf squeeze hole guns and perforate bottom squeeze holes at 2500' (1 gun/4 holes), and top squeeze holes at 2400'(1 gun/4 holes).). POOH and make up and RIH w/CICR, set at 2450'. POOH and RDMO Wireline. MIRU cementers

16. MU 5" Cement retainer stinger tool on 2-3/8" tbg and RIH to 2450'. Sting into retainer and establish circulation. Once circulation established, pump 32sks Class G Neat cement. Pump 27sx through retainer, unsting and leave 5sx on top of retainer. POOH w/ tbg.
17. RU wireliners and RIH w/ 5" CIBP and set @ 1500'. POOH and RDMO Wireline.
18. MU bull plug and perforated sub on 2-3/8" EUE tbg and RIH to 1295'. MIRU cementers and pump 55sx Class G Neat balanced plug on top of CIBP from 1300-800'. POOH w/ tbg.
19. RIH open-ended to 370' and circulate. Pump cement until returns taken to surface (45sks 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.