

Operator: Synergy Resources
Well Name: Hergenreder #32-9
Legal: NESE, Section 32, Township 5N, Range 63W
Location: Weld County, CO
API: 05-123-12976
Surface: 8.625" 24# @ 296' **Hole Size:** 12.25" **TOC:** Surface
Production: 4.5" 11.6# @ 6654' **Hole Size:** 7.875" **TOC:** 5564' (CBL)
Perforations: 6493'-6507' (Nio-Codell)
TD: 6,654'

P&A Procedure

1. Conduct pre-job safety meeting and complete daily JSA
2. Blow down well if necessary, circulate hole with treated water
3. Dig out around wellhead and check surface annulus for pressure
4. MIRU WO unit, ND wellhead, NU BOP, tally all pipe
5. TIH w/ 4-1/2", 11.6# retainer, set at 6,654' and squeeze perms (10 sxs)
 - a. Release off of retainer and pump 5 sx on top to create 50' plug
 - b. TOOH
6. Pressure test csg to 500 psi for 15 minutes
7. TIH to 1400' and pump a 100' balance plug (1400'-1300') and POOH
 - a. 12 sx of 15.8# class G neat 1.15 cu./ft yield cement, (1400'-1300')
8. Cut 4.5"@ 400', and POOH
9. TIH to 450' and pump a 450' shoe plug (0' – 450')
 - a. 180 sx of 15.8# class G neat 1.15 cu./ft. yield cement, (450' – 0')
 - b. Over 50' out of surface casing
 - c. Wait 4 hours and tag plug
10. RDMO WO unit
11. Dig up wellhead and cut off 10' below restored ground level, top off if necessary
12. Weld on cap with ID plate, inscribed with well location, and identity
13. Backfill, clean location
14. P&A complete