

Serafini Gas Unit Plugging

Recommended Procedure

Plug and Abandonment

Operator: TOP Operating Company
Well Name: Serafini Gas Unit
Legal: NENE Section 18 2N Range 68W 6 PM
Location: Weld County, Colorado
GPS: 40.142936, -105.040198
API: 05-123-10290
Surface: 8-5/8" 24# at 210' **Hole size:** 12-1/4" **TOC:** Surface
Production: 4-1/2" 11.6# and 10.5# at 7,972' **Hole size:** 7-7/8" **TOC:** 7120'
Perforations: 7,869' – 7,886' (J Sand)
PBTD: 7,949'
TD: 7,970'
Note: Deepest water well within 1-mile radius: 100'

Procedure is based off of known wellbore information.

1. Conduct pre-job safety meeting and complete daily JSA
2. Ensure that bradenhead test has been performed or perform bradenhead test
 - a. Surface casing shoe cannot be pumped until there is no pressure in bradenhead
3. Prior to MIRU, check rig anchors and blow down well if necessary
4. Dig out around wellhead and check surface annulus for pressure
 - a. If present call Paul Herring #720-663-1698 and Chad Vannest #970-381-5818 for orders
5. TOH and tally 7740' of tubing to derrick if present
6. MIRU P&A equipment, NDWH, NUBOP
7. RU wireline, PU 4-1/2" 11.6# JC/GR, TIH to 7819', TOH
8. PU 4-1/2" 11.6#, 10K, CIBP, TIH and set at 7,819', TOH
9. TIH and CDB 2 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement on top, TOH
 - a. 2 sxs is 26' in 4-1/2", TOC: 7793'
10. TIH and perforate casing at 6,860', TOH, PU 4-1/2" 11.6# CICR
11. TIH and set CICR at 6,826', TOH, RD wireline
12. PU stinger, TIH to 6,826', pressure test casing to 500 psi. for 5 minutes
13. Sting into CICR at 6,826', establish injection rate into CICR
 - a. If pressure test fails or unable to establish injection rate, call Paul Herring and Chad Vannest
 - b. Pump 55 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement, 44 sxs under and 11 sxs on top
 - c. 4 sxs is 52' in 4-1/2", 40 sxs is 201' in 4-1/2" x 7-7/8", Annular TOC: 6,675'
 - d. 11 sxs is 145' in 4-1/2", TOC: 6,681'
14. TOH and LD to 6,560', reverse circulate tubing clean, TOH and LD to 3,050', TOH
15. RU wireline, TIH and perforate casing at 2,950', TOH
16. PU 4-1/2" 11.6# CICR, TIH and set CICR at 3,050', TOH, RD wireline
17. PU stinger, TIH to 3,050', pressure test casing to 500 psi. for 5 minutes
18. Sting into CICR at 3,050', establish injection rate into CICR
 - a. If pressure test fails or unable to establish injection rate, call Paul Herring and Chad Vannest
19. Pump 55 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement, 44 sxs under and 11 sxs on top
 - a. 4 sxs is 52' in 4-1/2", 40 sxs is 201' in 4-1/2" x 7-7/8", Annular TOC: 2,899'
 - b. 11 sxs is 145' in 4-1/2", TOC: 3,201'

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20. TOH and LD to 3,100', reverse circulate tubing clean, TOH and LD tubing
21. RU wireline, TIH and perforate casing at 350', TOH, RD wireline
22. Establish circulation to surface via perforations
23. Circulate 76 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to surface
24. Dig out and cut off wellhead, verify cement at surface, top off if necessary
25. Weld info plate onto casing, backfill pit, clean location, P&A complete