

PLUG AND ABANDONMENT PROCEDURE

Selby 1-32

1. Note: Production Casing = 2-7/8" OD, 6.5#/ft, J-55; Production Hole Drilled @ 7 7/8".
2. Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call foreman or lead operator at least 24 hr prior to rig move. Request they catch and remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence as needed.
3. MIRU slickline. Pull bumper spring and tag bottom. RDMO slickline services.
4. Prepare location for base beam equipped rig.
5. MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
6. Notify cementers to be on call. Provide volumes listed below:
 - 6.1 Niobrara Plug: 13 cu ft/10 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk (400' inside 2-7/8" Casing, no excess)
 - 6.2 SX Stub Plug: 483 cu ft/420 sx class "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (9-1/4" + 20% excess).
 - 6.3 Surface Plug: 279 cu ft/210 sx Type III CaCl₂ cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (205' in 9-1/2" OH + 40% excess, and 200' in 8 5/8" surface casing).
7. TOOH 1.66 " production tubing. Stand Back.
8. MIRU WL. RIH gauge ring for 2-7/8" 6.5#/ft casing to 6630'. POOH.
9. PU CIBP for 2-7/8" 2-7/8", 6.5# and RIH. Set at +/- 6565' (collars located at 6555' and 6573'). Pressure test CIBP to 1000 psi.
10. Run CBL from 6500' to surface. Send results to Tyler.Davis@anadarko.com.
11. RIH to 6565' with 1.66" OD tbg hydrotesting to 3000 psi. RU Cementers. Pump Niobrara Plug: 10 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk to place cement in 2-7/8" production casing from 6565' to 6165'.
12. PUH to 9 stands. Circulate 40 bbls water containing biocide to clear tubing. Then, TOOH.
13. RU WL. Shoot off casing at or below 4560'. RDMO WL. Circulate one full circulation with water containing biocide to remove any gas.
14. NDBOP, NDTH.
15. Install BOP on casing head with 2-7/8" pipe rams.
16. TOOH with 2-7/8" casing, LD.
17. RIH to 4660' w/ 1.66" OD tbg.
18. RU Cementers. Spot SX Stub Plug: 483 cu ft/420 sx class "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx to place cement from 4660' to 3720'. Pull 1.66" OD tbg up to ~3000' and circulate clean. WOC per cement company recommendation.
19. Tag SX plug at 3720'. LD 1.66" OD tbg to bring EOT to 750'.

20. RU Cementers. Spot Surface Plug: 279 cu ft/210 sx Type III CaCl₂ cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx from 750' to 345' (205' in 9-1/2" OH + 40% excess, and 200' in 8 5/8" surface casing).
21. Circulate 5 bbls water containing biocide to clear tubing.
22. TOOH. WOC 4 hrs. Tag Cement. Cement top needs to be above 345'; Proceed assuming TOC is above 345'. Otherwise, call production engineer.
23. MIRU WL. RIH 8 5/8" CIBP to 80'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
24. Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries and invoices to rscDJVendors@anadarko.com within 24 hrs of the completion of the job.
25. Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
26. Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
27. Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
28. Welder cut 8 5/8" casing minimum 5' below ground level.
29. MIRU ready cement mixer. Use 4500 psi compressive strength cement, (NO gravel) fill stubout.
30. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
31. Properly abandon flowlines per Rule 1103.
32. Back fill hole with fill. Clean location, level.
33. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed. File electronic Form 42 once abandonment complete.