

## HSR-Brinton 14-10A (76850)

## P&amp;A

1. 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 IOC (970-506-5980) at least 24 hr prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.
2. MIRU slickline services. Pull bumper spring and tag bottom. RDMO slickline services.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
5. MIRU WO rig. Kill well as necessary w/ water containing biocide. ND WH, NU BOP.
6. Unseat and LD landing joint. PU w/ 2-3/8" tbg (4.7#, J-55, 8rd EUE) to break any sand bridges. Do not exceed the safety tensile load of 57,384 lbs (80% of upset yield strength).
7. TOO H and SB 2-3/8" tbg and LD 1.66" tbg. NOTE: 1.66" OD stinger extends from 7,395'-7,783' (375' into the 2-7/8" liner).
8. MIRU Wireline. RIH w/ gauge ring/junk basket for 2-7/8", 6.5# casing to 7,760'. POOH and LD gauge ring/junk basket.
9. PU CIBP for 2-7/8" (6.5#, N-80, 8RD EUE) pipe and RIH on wireline to +/- 7,750'. Set CIBP in the liner and spot 1 sk of cmt on top of the CIBP. POOH wireline.
10. PU gauge ring for 4.5" csg (11.6#, I-70, LTC) on wireline and RIH to +/- 7,000'. POOH and LD gauge ring.
11. PU and RIH a CIBP for 11.6#, I-70, LTC csg on wireline at 6,974'. Set CIBP and pressure test to 1000 psi for 15 min. RDMO wireline.
12. TIH 2-3/8" tbg to +/- 6,974' (+/- 225 jts) while hydrotesting each joint to +/- 3000 psi and tag CIBP.
13. MIRU Cementing Services. Spot 25 sx of cmt (Class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301, and R-3 to achieve 2:30 pump time) mixed at 15.8 ppg and 1.38 cuft/sk from 6,974' to 6,574'.

14. PUH w/ 2-3/8" tbg to +/- 6,300' (+/- 22 jts) and circulate tbg clean. POOH, SB 134 jts of tbg, LD remainder.
15. MIRU Wireline. PU and RIH two 1' perf guns (3-1/8", 3 spf, "Big Hole" 0.6" EHD, 7" penetration, 120° phasing, 2' net, 6 total holes) to 4,730'. Perf bottom squeeze holes at 4,730' then PUH to 4,130' and perf top squeeze holes in 4.5" prod csg. POOH perf guns. RDMO wireline.
16. PU CICR for 4.5" csg (11.6#, I-70, LTC) on 2-3/8" tbg. TIH and set at +/- 4,160' (+/- 134 jts).
17. MIRU Cementing Services. Pump 5 bbls of fresh water, 20 bbls of metalillicate, and 5 bbls of fresh water followed with 250 sx of cmt (Class G w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301) mixed at 15.8 ppg and 1.15 cuft/sk. Under displace by 3bbls of cement, sting out of CICR and dump cmt on CICR. PUH to +/- 3,400 (+/- 24 jts) and circulate to clean tbg. TOO H and SB 46 jts of tbg and LD remainder. Planned cement is from 4,730' to 4,130' in 9" OH (plus 20% excess) & from 4,730' to 4,000' in 4.5", 11.6# csg. RDMO Cementing Services.
18. MIRU wireline. PU a jet cutter and RIH to +/- 1,230' to cut 4.5" csg. Cut, TOO H, and LD csg. RDMO wireline.
19. TIH w/ 2-3/8" tbg to +/- 1,330' (+/- 43 jts).
20. MIRU Cementing Services. Pump 10 bbls of SAPP (Sodium Acid Pyrophosphate) followed by 20 bbls of fresh water containing biocide prior to pumping cement. Spot 420 sx of cmt (Type III w/ cello flake and CaCl<sub>2</sub> as deemed necessary) mixed at 14.8 ppg at 1.33 cuft/sk. Planned cement is from 1,330' to 1,230' stub plug in 4.5", 11.6# csg stub, 1,230' to 467' in 9" OH (plus 20% excess), and from 467' to 265' inside 8.625", 24# surface csg. PUH to 150' and circulate tbg clean. RDMO Cementing Services. WOC for 4 hrs.
21. Tag TOC and if TOC is deeper than 265' contact engineer for possible further cement work. TOO H and LD 2-3/8" tbg.
22. MIRU wireline. PU CIBP on wireline for 8-5/8" (24#) csg and TIH to +/- 80'. Set CIBP and test to 1000 psi for 15 min. POOH and LD wireline. RDMO wireline.
23. RDMO WO rig.

24. NOTE: Instruct cementing & wireline contractors to email copies of all job logs/job summaries & invoices to [rscDJVendors@anadarko.com](mailto:rscDJVendors@anadarko.com) within 24 hours of the completion of the job.
25. Wellsite supervisor should turn all paper copies of cementing reports/invoices and logs into Joleen Kramer.
26. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
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. Fill the last 80' inside the 8-5/8" prod. casing until 10' below surface. Use 4,500 psi compressive strength redi-mix cement (Sand and Cement only, no gravel) to finish filling surface casing to top of cut off.
30. Check top of cement inside 8-5/8" surface casing at least 5' below ground level.
31. Have welder spot weld on steel marker plate. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ description) and API number.
32. Properly abandon flowlines as per rule 1103.
33. Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
34. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.

Michael Sax - Engineer  
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