

API# 05-123-07782  
Rig/ Sup Bohler/Eisenach  
Job Type Re-entry P&A  
AFE# TBD



Month of May 2023  
Location: SWSW 32 1N65W 6 PM

## Sack Hiatt 1

### Well Info

- Surface: 8-5/8" 23# @ 200'. Cement: Surface VISU
- Production: 5" 18# @ 8,034'. 7-7/8" OH
- KB: 10'. Last W/O 06/15/1983 (P&A)
- Using 20% excess cement for all open hole plugs

### Procedure

\*\* Verdad will be using a closed-loop recirculating returns system consisting of shaker tank, mud tank, cuttings bin, and a utility tank to divert fluid to for solids to settle out, fluid for disposal, etc.\*\*

1. File Form 42 2 days prior for P&A ops, notify COGCC field engineer of ops commencing
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 and beam, BOP, accumulator, rig pump, shaker tank, rig tank, 9.5ppg water-based mud, pipe float, 3-1/8" collars, 2-3/8" PH6 work string, power swivel
7. Rig up tubing tools, NU BHA and function test
8. Make up BHA consisting of: 2-3/8 PH6 string, 2x 3-1/8" drill collars, float, POBS, and 4 1/8" roller-cone bit
9. RIH and drill out previous cement plug from estimated 0-225'
10. Wash or ream in 5" cased hole to 2,200'
11. Circulate and condition hole
12. Drill cement until reaching tubing fish top. Contact engineer to discuss tripping for different bit better suited for cement/tubing milling
13. TOOH and laydown BHA
14. PU agreed upon BHA to mill tubing/cement
15. TIH to tubing fish top and mill tubing/cement until there are no more cement returns. If making good hole, continue to mill up tubing, if not, mill tubing to set up for a pipe body overshot
16. TOOH and MU new BHA consisting of 3-7/8" overshot w/ 2 7/8" grapple
17. RIH and latch onto tubing body. Perform stretch test to get rough idea of free point
18. MIRU eline WL truck. RIH w/ free point tool and determine free point of tubing
19. POOH w/ free point tool and prepare for chem cut
20. RIH w/ chem cut tool and cut tubing at lowest free point. POOH w/ WL and then POOH w/ 2-3/8" PH6 overshot with cut tubing



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21. Contact engineer and fishing hand and MU BHA with overshot, jars, and intensifiers to attempt to jar our remaining tubing
22. POOH w/ jarred tubing, if full string does not come, assess depth of new fish top. If tubing fish top is below 7,090' proceed with cement job
23. Make up BHA consisting of: 4 1/8" tricone mill, XO, string float, 2-3/8 PH6 string and RIH to bottom of well
24. Circulate and condition hole. TOOH w/ tubing
25. RU WL, load hole and run CBL from deepest point to surface, this will determine where and if we need to annulus cement coverage
26. TIH w/ perforating guns and shoot 4 holes @ 7,090'. TOOH w/ perf guns. TIH w/ 5" CICR and set @ 7,040' MD. TOOH w/ setting tool and RD WL.
27. TIH w/ tbg and sting into CICR. Mix and pump 70 sks of Class G, 15.8 ppg, 1.15 yield cement into CICR. Pull out of CICR and leave 15 sks of Class G, 15.8 ppg, 1.15 yield cement on top of CICR. This will isolate the Niobrara Formation
28. Displace cement and POOH to 2,550', circulate and condition hole. POOH to surface
29. RU WL and TIH w/ perforating guns and shoot 4 holes @ 2,250'. TOOH w/ perf guns. TIH w/ 5" CICR and set @ 2,500' MD. TOOH w/ setting tool and RD WL.
30. TIH w/ tbg and sting into CICR. Mix and pump 70 sks of Class G, 15.8 ppg, 1.15 yield cement into CICR. Pull out of CICR and leave 15 sks of Class G, 15.8 ppg, 1.15 yield cement on top of CICR. This will isolate the Upper Pierre Formation
31. POOH to 1,264', circulate and condition hole. Prior to placing the Fox Hills Aquifer plug, verify that all fluid (liquid and gas) migration has been eliminated. If evidence of fluid migration or pressure remains, contact engineer to verify with the COGCC for an update to plugging orders
32. If no fluid migration, RU cementers and pump 30 sks of Class G, 15.8 ppg, 1.15 yield cement from 1,264' – 964' to isolate the Fox Hills Aquifer. Displace and POOH through cement and release cementers, ensure that EOT is a minimum 100' above cement top before WOC
33. WOC 4 hours or otherwise advised by cementers and tag cement. If not tagged at or above 1,164', contact engineer. May require additional cement
34. POOH w/ tubing
35. RU WL and TIH w/ perforating guns and shoot 4 holes @ 250'. TOOH w/ perf guns and RD WL
36. TIH w/ tbg to 250'. Mix and pump 70 sks of Class G, 15.8 ppg, 1.15 yield cement through perfs, circulating to surface in the annulus and inside the 5" casing. Top off hole w/ cement. This will isolate the surface shoe and serve as the surface plug
37. RDMO cementers, rig, and supporting equipment. Tidy location and prep for reclamation
38. 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
39. Reclaim location
40. Submit Form 6 Subsequent and Form 42 for completion of COA