

API# 05-123-11425
Rig/ Sup Bohler/Eisenach
Job Type Re-entry P&A
AFE# 2023CO88- 94 Split



Month of November 2023
Location: SWNW 16 1N 64W 6

East Hudson B State #1-16

Well Info

- Surface: 8-5/8" 24# @ 212'. Cement: Surface VISU
- Production: 4-1/2" 11.6# @ 7,920'. Top: 560'. 7-7/8" OH
- KB: 10'. Last W/O 10/7/1983 (P&A)
- Using 20% excess cement for all open hole/behind pipe 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" EUE work string, power swivel
7. Rig up tubing tools, NU BHA and function test
8. Make up BHA consisting of: 2-3/8" EUE string, 2x 3-1/8" drill collars, float, and 6-3/4" roller-cone bit
9. RIH and drill out previous cement plug from estimated 0-10'
10. Wash or ream in 8-5/8" cased hole estimated 120'
11. Tag surface shoe cement plug and drill out plug from 120' – 220'
12. Wash or ream in 7-7/8" open hole to estimated 460', drill cement from 460' – 560'. Tag casing stub to confirm depth
13. Circulate and condition hole
14. TOOH to pick up bit consisting of: 2-3/8" EUE string, 2x 3-1/8" drill collars, float, and 3-3/4" roller cone bit
15. RIH to 560' and enter casing
16. Wash or drill through existing 4-1/2" casing fish to an estimated 2,000'
17. Continue washing or drilling to the cut casing stub @ 4,620'
18. Circulate and condition hole
19. MIRU cementers and pump 70 sks of Class G, 15.8 ppg, 1.15 yield cement from 4,620' – 4,420' to isolate the Niobrara Formation and Stub Plug. Displace and POOH through cement to 2,130'
20. Circulate and condition hole
21. RU cementers and pump 70 sks of Class G, 15.8 ppg, 1.15 yield cement from 2,130' – 1,930' to isolate the bottom plug and Upper Pierre Formation. Displace and POOH through cement to 1,227'



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22. Circulate and condition hole
23. 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
24. If no fluid migration, RU cementers and pump 15 sks of Class G, 15.8 ppg, 1.15 yield cement from 1,227' – 1,027' to isolate the Fox Hill Aquifer. Displace and POOH through cement to 610'
25. Circulate and condition hole
26. RU cementers and pump 35 sks of Class G, 15.8 ppg, 1.15 yield cement from 610' – 510' to isolate the Fox Hills Aquifer and the top plug. Displace and POOH to surface
27. WOC 4 hours or otherwise advised by cementers and tag cement. If not tagged at or above 510', contact engineer. May require additional cement
28. Pull uphole to 262'
29. RU cementers and pump 85 sks of Class G, 15.8 ppg, 1.15 yield cement from 262' – surface to isolate surface shoe and surface. Once good returns taken, SD cement and POOH. Top off as necessary
30. RDMO cementers, rig, and supporting equipment. Tidy location and prep for reclamation
31. 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
32. Reclaim location
33. Submit Form 6 Subsequent and Form 42 for completion of COA