



Murata 11-19
API# 05-123-20993
NWNW Sec 19-2N-66W
Weld County, Colorado

P&A Procedure

AFE #

May 7, 2018

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| Engineer: | Cole Carveth/Pam Woods |
| Director, Engineering: | Emily Miller |
| Completions Superintendent: | Matt Rohret |
| VP, DJ Operations: | John Schmidt |
| Attachments: | Current Wellbore Diagram Proposed Wellbore Diagram |

Objective

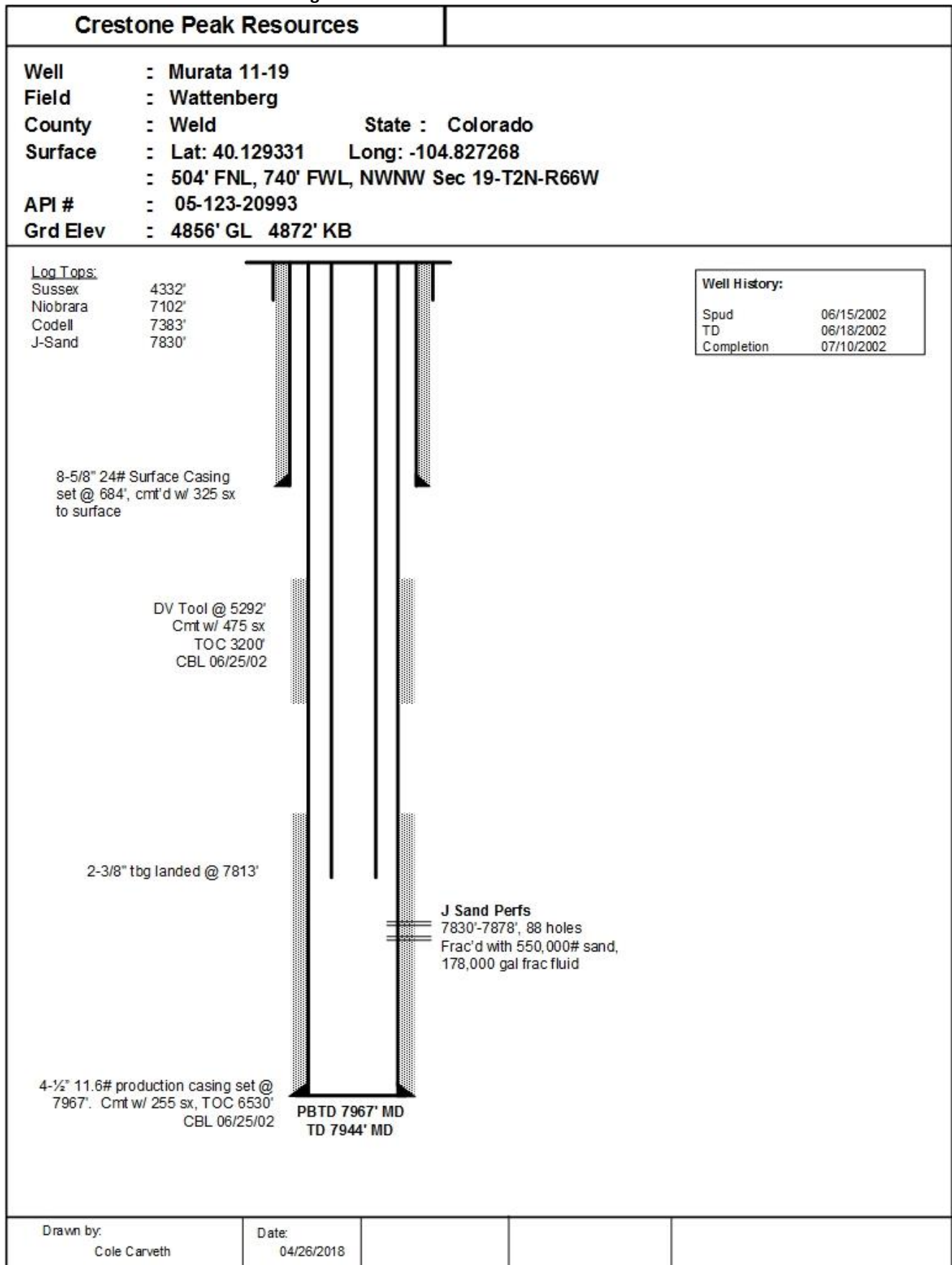
Pull tubing and production equipment. Plug and abandon well.

Procedure

1. Submit electronic Form 42 to COGGC 48 hours prior to performing Form 17 Bradenhead Test. (not required if Bradenhead Test has been completed within 60 days of plugging operations.)
2. Perform Form 17 Bradenhead Test and sample for gas, water, and oil per COGCC Regulation.
3. Contact surveyor to acquire as-built surface location.
4. Submit electronic Form 42 to COGGC 48 hours prior to MIRU.
5. Submit form for Ground Disturbance Permit. Get One Call.
6. Notify Automation and Production Department. Production to check pressures, retrieve plunger equipment and blow down well.
7. Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
8. MIRU workover unit. Blow down well.
9. ND wellhead. NU BOPE.
10. Un-land tubing and TOO H w/tubing.
11. MIRU wireline.
12. RIH w/ CIBP on wireline. Set CIBP at ~7,775' (within 50'-100' of the top J-Sand perf at 7,830', between collars).
13. RIH w/ wireline and dump bail 2 sx cement on top of CIBP. POOH.
14. RIH w/ CIBP on wireline. Set CIBP at ~7,050' (within 50'-100' of the top of the Niobrara at 7,102', between collars).
15. RIH w/ wireline and dump bail 2 sx cement on top of CIBP. POOH. Pressure test plug to 500 psi. Hold pressure for 15 min. Chart pressure on 1,000 psi pressure chart. POOH with wireline.
16. TIH w/ tubing to 5,360'.
17. Pump 85 sx Class G balanced plug from 5,360' to 4,275'. TOO H w/ tubing.
18. ND 7 1/16" BOP and wellhead. NU 11" BOP on surface casing. RU casing tongs and pipe wrangler.
19. RIH with casing jet cutter on wireline. Cut 4 1/2" casing at 2,000'. POOH with wireline. Pull casing with spear to first joint, remove casing slips. Establish circulation.
20. Pump and spot 75 sx Class G balance stub plug from 2,000' to 1,742'. Trip out of hole to 740'. Roll hole. Ensure there is no sign of hydrocarbons. If evidence is found, contact engineering. If circulation was not maintained, then the plug must be tagged after WOC.
21. Pump 65 sx Class G or Type III spot balanced plug across surface casing shoe. Pump wiper plug ahead of cement to ensure water does not mix with cement. TOC will be approximately 475'. TOO H laying down all casing. Wait on cement for 4 hours.
22. TIH w/ tubing and tag cement top. Report top to engineering. TOO H.
23. PU 8-5/8" CIBP. TIH and set @ 80'. Blow hole dry with rig compressor. TOO H. LD all tubing.

24. ND BOP. Install casing cap w/ relief valve.
25. Disconnect flowline from separator and connect to junk tank placed at the battery.
26. Flush flowline with treated fresh water then blow dry with rig compressor. Prepare flowline for removal by construction department.
27. RDMO pulling unit.
28. MIRU top off truck, water truck and air compressor.
29. Pull vacuum on tubing with water truck. Blow backside dry with air compressor to ensure hole is dry.
30. RIH w/ plastic tubing to CIBP at 80'.
31. Top off well with 20 sx cement from 80' to surface.
32. RDMO top off equipment.
33. Per ground disturbance procedure/policy, excavate around wellhead. Notify Environmental Department for surface review and inspection while digging.
34. Contact EHS to scan WH with FLIR to confirm well is plugged with no gas at surface. Save FLIR photo in well file.
35. Cut off casing 4 ft below ground level.
36. Weld on metal plate and dry hole marker.
37. Remove flowlines and backfill holes.
38. Notify Integrity Department to properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment is complete.
39. Restore surface location.
40. Ensure all pressure charts, cement and wireline tickets are emailed to the Denver office for subsequent reporting. Emails shall be sent to Production Engineer, Workover Coordinator, and Production Technician.
41. Submit Form 6 Subsequent Report of Abandonment documenting the P&A to COGCC.

Attachment #1 – Current Wellbore Diagram



Drawn by:
Cole Carveth

Date:
04/26/2018

Attachment #2 – Proposed Plugged Wellbore Diagram

