



**CRESTONE PEAK**  
RESOURCES

**Boulder Bank 13-7**

API# 05-123-21276  
SESW Sec 7-1N-67W  
Weld County, Colorado

**P&A Procedure**

**AFE #16191370**

**June 8, 2018**

Engineer: Cole Carveth/Pam Woods

Production Engineering Manager: Nate Kurczewski

Completions Superintendent: Matt Rohret

VP, DJ Operations: John Schmidt

Attachments: Current Wellbore Diagram  
Proposed Wellbore Diagram

## Objective

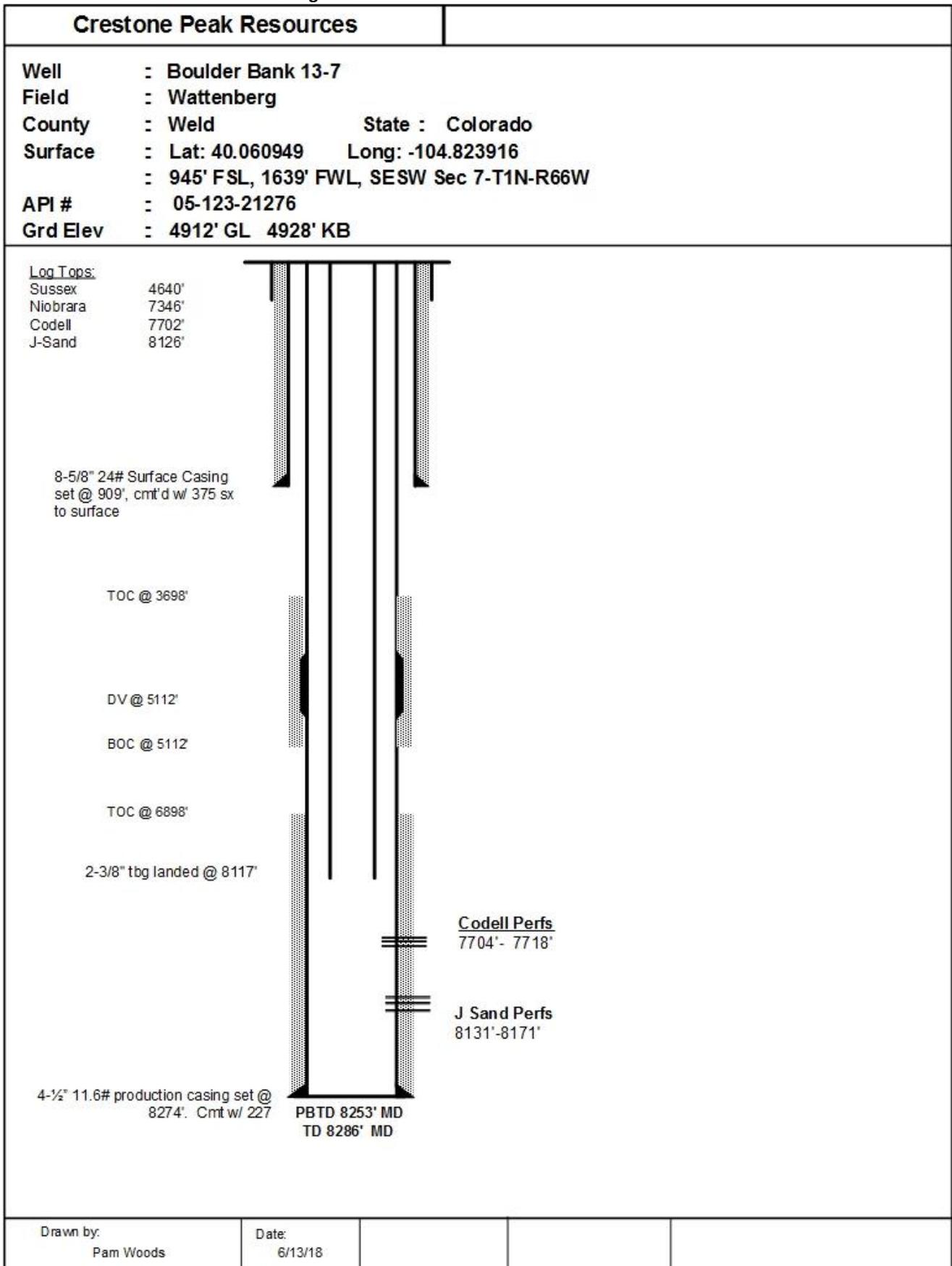
Pull tubing and production equipment. Plug and abandon well.

## 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 ~8,060' (within 50'-100' of the top J-Sand perf at 8,131', 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 ~7,290' (Niobrara top at 7,346', set 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 5 min. POOH with wireline.
16. TIH w/ tubing to 5,170'.
17. Pump 50 sx Class G balanced plug from 5,170' to 4,590'. 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 1,788'. Trip out of hole to 960'. Roll hole. Ensure there is no sign of hydrocarbons. If evidence is found, contact engineering. If circulation was not maintained, plug must be tagged after WOC.
21. Pump 65 sx Class G or Type III spot balanced plug across surface casing shoe. TOC will be approximately 780'. TOO H laying down all casing. Wait on cement for 4 hours.
22. TIH w/ tubing and tag cement top. Report top to engineering. Pressure test casing to 250 psi. 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. RIH w/ plastic tubing to CIBP at 80'.
30. Pull vacuum on tubing with water truck. Blow backside dry with air compressor to ensure hole is dry.
31. Reverse circulate 20 sx cement from 80' to surface. Top off well as necessary.
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

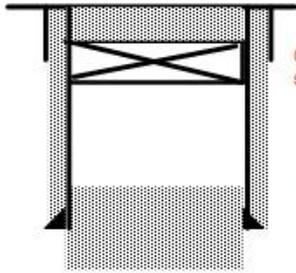


Attachment #2 – Proposed Plugged Wellbore Diagram

Crestone Peak Resources	
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Well : Boulder Bank 13-7  
 Field : WATTENBERG  
 County : WELD State : Colorado  
 Surface : 945' FSL, 1639' FWL, SESW Sec 7-T1N-R66W  
 API # : 05-123-21276  
 :  
 Grd Elev : 4912' GL KB Elev : 4928' KB

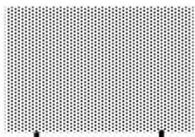
Log Tops:  
 Sussex 4640'  
 Niobrara 7348'  
 Codell 7702'  
 J Sand 8126'



CIBP set @ 80' w 20 sx cement to surface

Surface Casing and Cement  
 8-5/8" 24# J-55, Set @ 909'  
 Cemented with 375 sxs

65 sx balanced plug ~780' - 960'  
 (calculated with 20% excess in OH)



75 sx balanced plug 1,788' - 2,000'  
 (calculated with 20% excess in OH)

4-1/2" casing cut at 2,000'

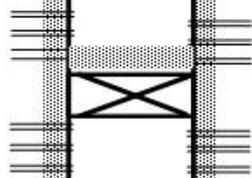
TOC @ 3698'

DV Tool @ 5112'  
 BOC @ 5112'

TOC @ 6898'

50 sx balanced plug ~4590'-5170'

CIBP set @ 7290' w 2 sx cement



Codell 7704' - 7718'

CIBP set @ 8060' w 2 sx cement

J-Sand 8131'-8171'

Production Casing and Cement  
 4-1/2" 11.6# casing set @ 8274'

8253' PBD

8286' TD

Drawn by: Pam Woods	5/31/18		
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