



CRESTONE PEAK
RESOURCES

Haley 3-22

API# 05-123-15074
NESE Sec 22-T2N-R68W
Weld County, Colorado

P&A Procedure

DRAFT

October 12, 2017

Engineer:	Jeanell Ries
Director, Engineering:	Emily Miller
Workover Superintendent:	Matt Rohret
VP, DJ Operations:	John Schmidt
Attachments:	Current Wellbore Diagram Proposed Wellbore Diagram

Safety

Safety meetings are to be held with all service company personnel prior to each job. Wellsite supervisor must notify contractors as to known hazards of which the contractors may be unaware. Well site supervisor must ensure that all workers are aware of their responsibilities and duties under the EH&S guidelines. All safety meetings will be recorded on the Crestone Peak Resources daily completion reports in Wellview. Follow best practices for well control and proper handling of gas, oil and well fluids.

Regulations

All verbal notifications and approval from government regulatory agencies will be recorded on the Crestone Peak Resources daily report. The name of the individual contacted and the subject matter of approval or notification will be recorded.

Reason for Work

Sub-economic well.

- a) Casing to be pulled: 1700' of 4-1/2" production casing
- b) Fish in hole: No

Additional COGCC COAs

COGCC approval of Form 6 Notice of Intent to Abandon. No COAs that affect the plugging operations.

Objective

Plug and abandon well.

Procedure

1. Submit electronic Form 42 to COGGC 48 hours prior to performing Form 17 Bradenhead Test. (New test not required if Bradenhead Test has been completed within 6 months of plugging operations.)
2. Perform Form 17 Bradenhead Test and sample for gas, water, and oil per COGCC Regulation if required.
3. Submit electronic Form 42 to COGGC 48 hours prior to MIRU.
4. Submit form for Ground Disturbance Permit. Get One Call.
5. Notify Automation and Production Department.
6. 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.
7. Ensure any fluids that will be left in the wellbore are treated with biocide.
8. MIRU workover unit. ND wellhead, NU BOP.
9. TOOH w/tubing.
10. RU wireline and RIH with CIBP. Set at ~7920' (within 100' above J Sand perfs, between collars). POOH with wireline. Pressure test plug to 500 psi. Hold pressure for 15 min. Chart pressure on 1000 psi pressure chart. If recorder is unavailable, verify pressure test with gauge and time via photos.
11. RIH w/wireline and dump bail 2 sx G Neat cement on top of CIBP.
12. RIH w/wireline and shoot squeeze holes @ ~4250' (~ 100' above the top of the Sussex, between collars). POOH w/wireline.
13. TIH w/tubing and set composite cement retainer @ ~4190' (between collars).
14. Establish injection through retainer. If circulation through bradenhead can be established, contact Production Engineer to modify plan forward and circulate SAPP / surfactants to surface and condition hole for a minimum of 12 hrs .
15. Pump SMS and CaCl₂ ahead of 150 sx (~24 bbl bbl) thixotropic cement, under-displacing by 1 bbl (5 sx, ~65') to leave on top of retainer. Sting out of retainer, reverse circulate to clear tubing, and TOOH.
16. Run CBL to confirm a minimum of 200' good cement was placed above the top of the Sussex. Contact Production Engineer if cement is not adequate or if any bradenhead pressure exists to modify procedure forward.
17. ND 7-1/16" BOP and wellhead. NU 11" BOP on surface casing. RU casing tongs and pipe wrangler.
18. Cut 4-1/2" casing at 1700' with jet cutter. Pull casing with spear to first joint, remove casing slips. Circulate and clean open hole/annulus with SAPP and sweeps.
19. Spot 75 sx balanced stub plug. Trip out of hole laying down casing to 900'.
20. Spot balanced plug 900' to 400'.
21. TOOH, laying down remainder of 4-1/2" casing.
22. RU wireline. RIH and tag TOC with gauge ring. Verify TOC is at least 100' inside 8 5/8" casing shoe. Set CIBP @ 400', POOH.

23. TIH, spot balanced plug from 400' to surface. TOOH laying down all tubing.
24. ND BOP, RDMO pulling unit.
25. Per ground disturbance procedure/policy, excavate around wellhead. Notify Environmental Department for surface review and inspection while digging.
26. Cut off casing 4 ft below ground level.
27. Weld on metal plate and dry hole marker.
28. Contact Production Department to coordinate LOTO and disconnect flowlines at separator. Notify Integrity Department to properly abandon flowlines as per Rule 1103 by removing them.
29. Restore surface location.
30. Ensure all pressure charts, CBLs, cement and wireline tickets are emailed to the office for subsequent reporting. Emails shall be sent to Production Engineer, Workover Coordinator, and Production Technician.
31. Submit Form 6 Subsequent Report of Abandonment documenting the P&A to COGCC.