

Document Number:  
401606353

Date Received:  
04/16/2018

**WELL ABANDONMENT REPORT**

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set.

A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 10633 Contact Name: Renee Kendrick

Name of Operator: CRESTONE PEAK RESOURCES OPERATING LLC Phone: (303) 309-1931

Address: 1801 CALIFORNIA STREET #2500 Fax: \_\_\_\_\_

City: DENVER State: CO Zip: 80202 Email: renee.kendrick@crestonepr.com

**For "Intent" 24 hour notice required,** Name: Gomez, Jason Tel: (970) 573-1277

**COGCC contact:** Email: jason.gomez@state.co.us

API Number 05-123-19717-00

Well Name: GITTLEIN Well Number: 11-4

Location: QtrQtr: NWNW Section: 4 Township: 1N Range: 65W Meridian: 6

County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_

Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon       Subsequent Report of Abandonment

*Only Complete the Following Background Information for Intent to Abandon*

Latitude: 40.086493 Longitude: -104.675334

GPS Data:  
Date of Measurement: 06/04/2009 PDOP Reading: 1.5 GPS Instrument Operator's Name: PLinderholm

Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems

Other \_\_\_\_\_

Casing to be pulled:  Yes  No Estimated Depth: 2000

Fish in Hole:  Yes  No If yes, explain details below

Wellbore has Uncemented Casing leaks:  Yes  No If yes, explain details below

Details: \_\_\_\_\_

**Current and Previously Abandoned Zones**

| Formation | Perf. Top | Perf. Btm | Abandoned Date | Method of Isolation | Plug Depth |
|-----------|-----------|-----------|----------------|---------------------|------------|
| DAKOTA    | 7904      | 7944      |                |                     |            |
| J SAND    | 7706      | 7742      |                |                     |            |

Total: 2 zone(s)

**Casing History**

| Casing Type | Size of Hole | Size of Casing | Weight Per Foot | Setting Depth | Sacks Cement | Cement Bot | Cement Top | Status |
|-------------|--------------|----------------|-----------------|---------------|--------------|------------|------------|--------|
| SURF        | 12+1/4       | 8+5/8          | 24              | 943           | 520          | 943        | 0          | VISU   |
| 1ST         | 7+7/8        | 4+1/2          | 11.6            | 8,020         | 265          | 8,020      | 6,490      | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7850 with 2 sacks cmt on top. CIBP #2: Depth 7665 with 2 sacks cmt on top.  
CIBP #3: Depth 6900 with 2 sacks cmt on top. CIBP #4: Depth 500 with 10 sacks cmt on top.  
CIBP #5: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 75 sks cmt from 2000 ft. to 1800 ft. Plug Type: OPEN HOLE Plug Tagged:   
Set 25 sks cmt from 60 ft. to 0 ft. Plug Type: CASING Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:   
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:

Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth

Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth

Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 100 sacks half in. half out surface casing from 1100 ft. to 800 ft. Plug Tagged:

Set \_\_\_\_\_ sacks at surface

Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker:  Yes  No

Set \_\_\_\_\_ sacks in rat hole Set \_\_\_\_\_ sacks in mouse hole

### Additional Plugging Information for Subsequent Report Only

Casing Recovered: \_\_\_\_\_ ft. \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_  
of \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1103  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

Procedure

1. Perform Form 17 Bradenhead Test and sample for gas, water, and oil per COGCC regulation (if not performed within the last 60 days).
2. Submit electronic Form 42 to COGCC 48 hours prior to MIRU. Notify surface land and community relations 1 week prior to MIRU.
3. Submit form for Ground Disturbance Permit. Get One Call.
4. Rig supervisor to notify Automation and Production Department. Confirm with engineer that surface land and community relations have been notified.
5. 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.
6. Contact surveyor to acquire as-built surface location if not already done.
7. MIRU workover unit. ND wellhead, NU BOP.
8. TOOH w/tubing.
9. RIH with wireline and set CIBP @ ~7850' (50-100' of top Dakota perf, between collars).
10. RIH w/dump bailer & dump 2 sx G Neat cmt on top of CIBP. POOH with dump bailer.
11. RIH with wireline and set CIBP @ ~7665' (50-100' of top J Sand perf, between collars). Pressure test plug to 500 psi and record results.
12. RIH w/dump bailer & dump 2 sx G Neat cmt on top of CIBP. POOH with dump bailer.
13. RIH with wireline and set CIBP @ ~6900' (50-100' of top of Niobrara, between collars).
14. RIH w/dump bailer & dump 2 sx G Neat cmt on top of CIBP. POOH with dump bailer.
15. ND 7-1/16" BOP and wellhead. NU 11" BOP on surface casing. RU casing tongs and pipe wrangler.
16. Cut 4-1/2" casing at 2000' with jet cutter. Pull casing with spear to first joint, remove casing slips. Circulate.
17. Spot 75 sx balanced G Neat stub plug.
18. Do not proceed without COGCC Engineer approval if there is any pressure or evidence of gas migration (additional balanced cement plugs would be added to procedure).
19. Trip out of hole laying down casing to 1100'.
20. Spot balanced 14.6 ppg Shoe Blend (or similar) cement plug 1100-800'.
21. TOOH, laying down remainder of 4-1/2" casing.
22. TIH with tubing and tag TOC. Verify TOC is at least 100' inside 8-5/8" casing shoe.
23. Set CIBP at ~500' (in aquifer transition zone). Pump 1-2 bbl cement on top of CIBP. Pressure test plug to 250 psi.
24. TOOH to spot balanced Type III cement plug from 60' to surface. TOOH laying down all tubing. Top off as necessary.
25. Contact EHS to FLIR wellhead to confirm no gas leaks/vapors. Safe FLIR video in wellfile.
26. Contact Production Department to coordinate LOTO and disconnect flowlines at separator. Flush flowline with freshwater. Leave dry. Notify Integrity Department to properly abandon flowlines as per Rule 1103.
27. ND BOP, RDMO pulling unit.
28. Per ground disturbance procedure/policy, excavate around wellhead. Notify Environmental Department for surface review and inspection while digging.
29. Cut off casing 4 ft below ground level.
30. Weld on metal plate and dry hole marker.
31. Restore surface location.
32. 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.
33. Submit Form 6 Subsequent Report of Abandonment documenting the P&A to COGCC.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Renee Kendrick  
 Title: Regulatory Coordinator Date: 4/16/2018 Email: renee.kendrick@crestonepr.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Wolfe, Stephen Date: 4/19/2018

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 10/18/2018

| COA Type | Description  |
|----------|--|
|          | <p>Venting<br/>Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.</p> <p>Reporting<br/>Submit gyro survey if available with Form 6 SROA.</p>  |
|          | <p>Bradenhead Testing</p> <ul style="list-style-type: none"> <li>• Prior to the start of plugging operations, a bradenhead test shall be performed and reported if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.</li> <li>• If any of the following conditions exist then sampling of all fluids is required and sampling methods shall comply with Operator Guidance – Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling as found on the COGCC website, cogcc.state.co.us.               <ol style="list-style-type: none"> <li>1) The initial pressure measurement on the bradenhead is greater than 25 psi, prior to blowing down any liquid or gas from the bradenhead valve, or</li> <li>2) Pressure remains at the conclusion of the test, or</li> <li>3) Any liquids are present anytime during the test. If so, then stop the test as soon as liquids are present and sample before resuming the test.</li> </ol> </li> <li>• Form 17 Bradenhead Test Report shall be submitted within 10 days of the test.</li> <li>• If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</li> </ul>  |
|          | <p>Plugging</p> <ul style="list-style-type: none"> <li>• Provide 48 hour notice of plugging MIRU via electronic Form 42.</li> <li>• COGCC change: Place 10 sx of cement on top of CIBP at 500’.</li> <li>• If pressure or liquids were present on the surface casing at any time during the pre-plugging bradenhead test, wait 8 hrs after pumping stub plug at 2000’ and check for fluid migration or shut-in pressure on the well. Contact COGCC Engineer for revised plugging orders if well is not static at this time prior to continuing with plugging operations.</li> <li>• Check for fluid migration or shut-in pressure on the well prior to pumping any plug (open hole, annular or casing) that isolates deepest aquifer or the surface casing shoe (whichever is deeper). Contact COGCC Engineer for revised plugging orders if well is not static at this time, prior to continuing with plugging operations.</li> <li>• Tag required if the shoe plug, or combined stub/shoe plug, is not circulated to the surface and top of cement must be 50’ into the shoe, or 50’ above the stub, whichever is shallower.</li> <li>• Place a 50’ plug (minimum) at the surface, both inside the inner most casing and in all annular spaces. All other cement plugs, without mechanical isolation, shall have at least 100’ of cement left in the casing.</li> <li>• Properly abandon flowlines as per Rule 1103. File electronic Form 42 once flowline abandonment is complete.</li> </ul> |

**Attachment Check List**

| Att Doc Num | Name                        |
|-------------|-----------------------------|
| 401606353   | FORM 6 INTENT SUBMITTED     |
| 401606372   | PROPOSED PLUGGING PROCEDURE |
| 401609156   | WELLBORE DIAGRAM            |

Total Attach: 3 Files

### General Comments

| <u>User Group</u>         | <u>Comment</u>                                       | <u>Comment Date</u> |
|---------------------------|--|---------------------|
| Engineer                  | SB5 884-603 L-FH 245-38 L. Arapahoe<br>WW 920' 85    | 04/18/2018          |
| Well File<br>Verification | Pass   | 04/16/2018          |
| Permit                    | •Permitting Review Complete.                         | 04/16/2018          |
| Permit                    | Returned to Draft: Missing current Wellbore Diagram. | 04/16/2018          |

Total: 4 comment(s)