

FORM
6Rev
05/18State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

401616816

Date Received:

04/23/2018

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: Toby Sachen

Name of Operator: CRESTONE PEAK RESOURCES OPERATING LLC

Phone: (720) 410-8536

Address: 1801 CALIFORNIA STREET #2500

Fax:

City: DENVER State: CO Zip: 80202

Email: toby.sachen.contractor@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 05-123-21343-00

Well Name: GRENNEMYER

Well Number: 44-26

Location: QtrQtr: SESE Section: 26 Township: 1N Range: 67W 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: 40.016158

Longitude: -104.850051

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: 2100

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
J SAND	8159	8198			

Total: 1 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	1,036	382	1,036	0	VISU
1ST	7+7/8	4+1/2	11.6	8,310	250	8,310	6,750	CBL
S.C. 1.1				5,140	225	5,142	4,266	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8100 with 2 sacks cmt on top. CIBP #2: Depth 7225 with 2 sacks cmt on top.
CIBP #3: Depth 900 with 5 sacks cmt on top. CIBP #4: Depth _____ with _____ sacks cmt on top.
CIBP #5: Depth _____ with _____ sacks cmt on top.

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

Set <u>45</u> sks cmt from <u>5200</u> ft. to <u>4625</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>100</u> sks cmt from <u>2100</u> ft. to <u>1760</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input type="checkbox"/>
Set <u>15</u> sks cmt from <u>50</u> ft. to <u>0</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>30</u> sks cmt from <u>320</u> ft. to <u>220</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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 60 sacks half in. half out surface casing from 1100 ft. to 925 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 1105 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

1. Submit electronic Form 42 to COGCC 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 COGCC 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 ~8,100' (within 50'-100' of the top J-Sand perf at 8,159', between collars).
13. RIH w/ wireline and dump bail 2 sx cement on top of CIBP. Pressure test plug to 500 psi. Hold pressure for 15 min. Chart pressure on 1,000 psi pressure chart.
14. RIH w/ CIBP on wireline. Set CIBP at ~7,225' (within 50'-100' of the Niobrara formation top at 7,282', between collars).
15. RIH w/ wireline and dump bail 2 sx cement on top of CIBP. POOH.
16. TIH w/ tubing to 5,200'.
17. Pump 45 sx Class G balanced plug from 5,200' to 4,625'. 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 2,100'. 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 2,100' to 1,842'. Trip out of hole to 1,100'. Roll hole. Ensure there is no sign of hydrocarbons. If evidence is found, contact engineering. If circulation is not maintained then tag the plug after WOC.
21. Pump 50 sx Class G or Type III balanced plug across surface casing shoe. Pump wiper plug ahead of cement to ensure water does not mix with cement. TOC will be approximately 925'. 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 @ 900'. Pressure test casing to 250 psi. TOO H and LD setting tool.
24. TIH and pump 1 bbl (~5sx) cement on top of CIBP. TOO H to 50'
25. Pump 15 sx Type III balanced plug from 50' to surface.
26. ND BOP. Top off well as necessary with cement.
27. Disconnect flowline from separator and connect to junk tank placed at the battery.
28. Flush flowline with treated fresh water then blow dry with rig compressor. Prepare flowline for removal by construction department.
29. RDMO pulling unit.
30. Per ground disturbance procedure/policy, excavate around wellhead. Notify Environmental Department for surface review and inspection while digging.
31. Contact EHS to scan WH with FLIR to confirm well is plugged with no gas at surface. Save FLIR photo in well file.
32. Cut off casing 4 ft below ground level.
33. Weld on metal plate and dry hole marker.
34. Remove flowlines and backfill holes.
35. Notify Integrity Department to properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment is complete.
36. Restore surface location.
37. 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.
38. 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: Toby Sachen
Title: Contractor Date: 4/23/2018 Email: toby.sachen.contractor@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: 5/16/2018

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 11/15/2018

COA Type	Description
	<p>Venting</p> <p>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>Bradenhead Testing</p> <ul style="list-style-type: none"> • 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. • 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"> 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 2) Pressure remains at the conclusion of the test, or 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. • Form 17 Bradenhead Test Report shall be submitted within 10 days of the test. • 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.
	<p>Plugging</p> <ul style="list-style-type: none"> • Provide 48 hour notice of plugging MIRU via electronic Form 42. • COGCC Change: Increase volume of open hole stub plug at 2100' to 100 sx. • COGCC Change: Increase volume of shoe plug at 1100' to 60 sx • COGCC Change: Add 30 sx casing plug at 320-220', aquifer isolation. • If pressure or liquids are present on the surface casing at any time during the pre-plugging bradenhead test, wait 8 hrs after pumping stub plug at 2100', tag 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. • 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. • 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. • 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. • Properly abandon flowlines as per Rule 1103. File electronic Form 42 once flowline abandonment is complete.

Attachment Check List

Att Doc Num	Name
401616816	FORM 6 INTENT SUBMITTED
401616837	PROPOSED PLUGGING PROCEDURE
401617384	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Engineer	SB5 940-665 L-FH 267-22 L. Arapahoe WW 950 157	05/16/2018
Permit	•Permitting Review Complete.	05/10/2018
Well File Verification	Pass	04/24/2018

Total: 3 comment(s)