FORM 6 Rev 12/05

State 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: 401399521

Date Received:

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, COGCC contact: Name: Helgeland, Gary Tel: (970) 216-5749 Email: gary.helgeland@state.co.us

API Number 05-123-25477-00

Well Name: DUCKWORTH Well Number: 41-16

Location: QtrQtr: SENE Section: 16 Township: 2N Range: 68W 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: 40.141595 Longitude: -105.002292

GPS Data:

Date of Measurement: 03/17/2008 PDOP Reading: 2.7 GPS Instrument Operator's Name: CECIL CLARK

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
CODELL	7538	7558			
J SAND	7980	8000			
NIOBRARA	7321	7337			

Total: 3 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	637	350	350	0	CALC
1ST	7+7/8	4+1/2	11.6	8,143	220	8,143	6,966	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7940 with 4 sacks cmt on top. CIPB #2: Depth 7250 with 40 sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 110 sks cmt from 5210 ft. to 3760 ft. Plug Type: CASING Plug Tagged: ☐

Set 230 sks cmt from 1450 ft. to 850 ft. Plug Type: OPEN HOLE Plug Tagged: ☐

Set 205 sks cmt from 850 ft. to 240 ft. Plug Type: CASING Plug Tagged: ☐

Set 75 sks cmt from 240 ft. to 0 ft. Plug Type: CASING Plug Tagged: ☐

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Perforate and squeeze at 5220 ft. with 300 sacks. Leave at least 100 ft. in casing 5210 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 _____ sacks half in. half out surface casing from _____ ft. to _____ 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. of _____ inch casing Plugging Date: _____

*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. Submit electronic Form 42 to COGGC 48 hours prior to performing Form 17 Bradenhead Test.
2. Perform Form 17 Bradenhead Test and sample for gas, water, and oil per COGCC Regulation. Note: previous test performed 05/16/2017 (COGCC DOC# 401285302).
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. RU Slick line, pull plunger and bumper spring.
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 pulling unit. Kill well with treated produced water (5 gal/100 bbls BH XC1427 biocide).
9. ND wellhead, NU BOP.
10. Un-land tubing.
11. TOOH with tubing.
12. RIH with bit and scraper. Tag.
13. TOOH with tubing.
14. RU wireline.
15. RIH with wireline and set CIBP @ 7920' (60' above top J Sand perforation). Ensure that CIBP is set in the middle of the joint of casing.
16. POOH with wireline.
17. RIH with wireline and dump bail 4 sx cement on top of CIBP.
18. POOH with wireline.
19. TIH with tubing and set CIBP @ 7250' (71' above top Niobrara perforation). Ensure that CIBP is set in the middle of the joint of casing. Lay down 1 joint, load hole, and pressure test plug to 500 psi. Hold pressure for 15 minutes. Chart pressure on 1000 psi pressure chart.
20. Set a balanced plug with 40 sx (~8 bbl) of cement on top of CIBP from ~6723' to 7250'.
21. Pull tubing above cement plug with about 30 joints (15 stands). Reverse circulate to clear tubing.
22. TOOH with tubing.
23. RU E-line.
24. Ensure hole is full. Run conventional CBL from 6000' to surface. Call Production Engineer if results change proposed Sussex/Shannon suicide squeeze.
25. RIH and shoot squeeze holes @ 5220' (211' below Shannon base).
26. RIH and shoot suicide squeeze holes @ 4000' (256' above Sussex top).
27. RIH with wireline and set CICR @ 5210'.
28. TIH with tubing. Check circulation through stinger and sting into CICR.
29. Attempt to establish circulation. If unable to establish injection, call Production Engineer for path forward.
30. Circulate mud wash to condition annulus.
31. Pump ~5 bbl water ahead. Pump 300 sx (~74 bbl) of gas check cement. Sting out. Circulate to clear tubing.
32. TOOH with tubing.
33. RU E-line.
34. Ensure hole is full. Run conventional CBL from CICR to 3000'. Call Production Engineer after CBL to confirm top provides adequate cement coverage. Top of cement needs to be 4256' or shallower (~200' above Sussex top).
35. TIH with tubing.
36. Set a balanced plug with 110 sx (~23 bbl) of cement on top of CICR from ~3760' to 5210'.
37. Pull tubing above cement plug with about 60 joints (30 stands). Reverse circulate to clear tubing.
38. TOOH with tubing.
39. ND 7-1/16" BOP, NU 11" BOP.
40. RU wireline.
41. RIH with wireline and jet cutter and cut 4-1/2" production casing at 2000'.
42. Circulate and condition hole.
43. Pull up 4-1/2" production casing. Pump a balanced plug with 100 sx (~25 bbl) gas check cement from ~1686' to 2000'.
44. POOH with 4-1/2" production casing. Lay down casing.
45. Wait on cement overnight.
46. TIH with 2-3/8" tubing. Tag stub plug. Note tag depth and report tag depth to Production Engineer.
47. Pull up with 2-3/8" tubing to 1450' (~222' below Upper Pierre base).
48. Pump a balanced plug with 230 sx (~47 bbl) cement from ~850' to 1450'.
49. TOOH with tubing, standing back 20 joints (10 stands) in derrick and laying down next 20 joints in singles.
50. RIH with 20 joints (10 stands) stood back in derrick to ~850'. Pump a balanced plug with 205 sx (~42 bbl) cement from ~240' to 850'.
51. TOOH with tubing, standing back 20 joints (10 stands) in derrick and laying down next 20 joints in singles.
52. TIH with tubing to 240'. S
53. TOOH with tubing. Lay down tubing.
54. Top off surface casing if necessary.
55. Contact Maintenance Supervisor for flowline abandonment plan fo

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: _____ 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: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: _____

COA Type	Description

Attachment Check List

Att Doc Num	Name
401399558	PROPOSED PLUGGING PROCEDURE
401399559	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)