

Document Number:
402002900

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: 69175 Contact Name: Valerie Danson
 Name of Operator: PDC ENERGY INC Phone: (970) 506-9272
 Address: 1775 SHERMAN STREET - STE 3000 Fax: _____
 City: DENVER State: CO Zip: 80203 Email: valerie.danson@pdce.com

For "Intent" 24 hour notice required, Name: _____ Tel: _____
 COGCC contact: Email: _____

API Number 05-123-22181-00 Well Number: 24-5
 Well Name: HINKLE
 Location: QtrQtr: SESW Section: 5 Township: 4N Range: 64W 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: 40.336110 Longitude: -104.576944
 GPS Data:
 Date of Measurement: 01/15/2010 PDOP Reading: 2.1 GPS Instrument Operator's Name: Brandon Lucason
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: _____
 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
NIOBRARA-CODELL	6680	6976	03/11/2019	B PLUG CEMENT TOP	6630

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	452	320	452	0	VISU
1ST	7+7/8	4+1/2	11.6	7,058	570	7,058	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6630 with 2 sacks cmt on top. CIBP #2: Depth _____ with _____ sacks cmt on top.
 CIBP #3: Depth _____ with _____ 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 30 sks cmt from 1926 ft. to 1460 ft. Plug Type: CASING Plug Tagged:
 Set 79 sks cmt from 1026 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 2820 ft. with 40 sacks. Leave at least 100 ft. in casing _____ CICR Depth
 Perforate and squeeze at 1450 ft. with 50 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. _____ inch casing Plugging Date: 03/11/2019
 of _____
 *Wireline Contractor: C&J Energy Services *Cementing Contractor: C&J Energy Services
 Type of Cement and Additives Used: Class G 15.8 PPG Cement & Type III 14.8 PPG Portland Cement
 Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Hinkle 24-5 (05-123-22181)/Plugging Procedure
 Producing Formation: Niobrara/Codell: 6680'-6976'
 Upper Pierre Aquifer: 595'-1490'
 TD: 7106' PBTD: 7025'
 Surface Casing: 8 5/8" 24# @ 452' w/ 320 sxs cmt
 Production Casing: 4 1/2" 11.6# @ 7058' w/ 570 sxs cmt (TOC @ surface - CBL).

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6630'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with perforation gun. Shoot holes for squeeze at 2820'.
5. TIH w/ tubing to 2925'. RU cementing company. Pump and squeeze 40 sxs 15.8#/gal CI G cement down tubing through holes at 2820'. TOC at 2397'.
6. TIH w/ tubing to 1926'. Mix and pump 30 sxs 14.8#/gal Type III cement down tubing. (Pierre coverage from 1700'-1200'). TOC at 1460'.
7. TIH with perforation gun. Shoot lower holes at 1450' and upper holes 1200' for squeeze.
8. TIH w/ tubing to 1460'. RU cementing company. Pump and squeeze 50 sxs 14.8#/gal Type III cement down tubing through holes at 1450' and 1200'. TOC at 1174'.
9. Pickup tubing to 1026'. Mix and pump 79 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
10. Cut surface casing 6' below ground level and weld on cap.

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

Signed: _____ Print Name: Valerie Danson
 Title: Reg Tech Date: _____ Email: valerie.danson@pdce.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: _____

<u>COA Type</u>	<u>Description</u>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402002920	CEMENT JOB SUMMARY
402002934	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)