

Document Number:
403378259

Date Received:
04/20/2023

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: 1099 18TH STREET SUITE 1500 Fax: _____
 City: DENVER State: CO Zip: 80202 Email: valerie.danson@pdce.com

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

COGCC contact: _____

Type of Well Abandonment Report: Notice of Intent to Abandon Subsequent Report of Abandonment

API Number 05-123-20240-00 Well Number: 14-18
 Well Name: HOWARD
 Location: QtrQtr: SWSW Section: 18 Township: 5N Range: 64W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: WATTENBERG Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.393500 Longitude: -104.600110
 GPS Data: GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Date of Measurement: 08/21/2010

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
CODELL	6897	6905	01/16/2023	B PLUG CEMENT TOP	6847

Total: 1 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J55	24	0	398	320	398	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7098	160	7098	6156	CBL
S.C. 1.1						6156	250	6156	2728	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6847 with 2 sacks cmt on top. CIBP #2: Depth 6548 with 2 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 100 sks cmt from 2559 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged:
Set 100 sks cmt from 1461 ft. to 1248 ft. Plug Type: OPEN HOLE 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 250 sacks half in. half out surface casing from 600 ft. to 0 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: 2500 ft. of 4+1/2 inch casing Number of Days from Setting Surface Plug to Capping or Sealing the Well: 57
Surface Plug Setting Date: 01/17/2023 Cut and Cap Date: 03/15/2023

*Wireline Contractor: Ranger Energy Services *Cementing Contractor: DUCO Inc. Cementing Services

Type of Cement and Additives Used: Class G 15.8 PPG Cement

Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

Howard 14-18 (05-123-20240) / Plugging Procedure
Producing Formation: Codell: 6897'-6905'

Upper Pierre Aquifer: 260'-1360'

Deepest Water Well: 100'

TD: 7124' PBD: 7083' (11/22/2002)

Surface Casing: 8 5/8" 24# @ 398' w/ 320 sxs cmt

Production Casing: 4 1/2" 11.6# @ 7098' w/ 160 sxs (TOC @ 6156' - CBL)

S.C.C.1. @ 6156' w/ 250 sxs (TOC @ 2728' - CBL)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6847'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell perms @ 6897')
4. TIH with CIBP. Set BP at 6548'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 6598')
5. Ran a CBL from 6000' to Surface.
6. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
7. TIH with tubing to 2559'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub Plug from 2550'-2300') TOC at 2300'.
8. TIH with tubing to 1461'. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Pierre Coverage from 1460'-1260') TOC tagged at 1248'.
9. Pick up with tubing to 600'. Mix and pump 250 sxs 15.8#/gal CI G cement down tubing. Cement circulate to surface.
10. Well casing cut and capped per COGCC guidelines at a depth as not to interfere with soil cultivation.

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 Analyst Date: 4/20/2023 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: Jacobson, Eric Date: 6/23/2023

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description
0 COA	

Attachment List

Att Doc Num	Name
403378259	FORM 6 SUBSEQUENT SUBMITTED
403378307	CEMENT JOB SUMMARY
403378308	OTHER
403378309	OPERATIONS SUMMARY
403378310	WELLBORE DIAGRAM
403379458	CEMENT BOND LOG

Total Attach: 6 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)