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 402560567  
 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: \_\_\_\_\_  
 Email: \_\_\_\_\_  
**COGCC contact:**

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

API Number 05-123-16711-00  
 Well Name: HARLEY S. RUPERT Well Number: 2  
 Location: QtrQtr: SWSE Section: 9 Township: 4N Range: 65W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: 60782  
 Field Name: WATTENBERG Field Number: 90750

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

Latitude: 40.321139 Longitude: -104.664725  
 GPS Data: GPS Quality Value: 2.2 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 01/14/2010  
 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
NIOBRARA-CODELL	6810	7108	11/20/2020	B PLUG CEMENT TOP	6760

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	333	225	333	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7234	445	7234	3500	CALC

Subsurface hazards include, but are not limited to, the following: overpressured zones, underpressured zones, major geologic faults, salt sections, H2S at concentrations greater than or equal to 100 ppm.

### Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6760 with 2 sacks cmt on top. CIPB #2: Depth 4342 with 2 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 30 sks cmt from 2925 ft. to 2550 ft. Plug Type: CASING Plug Tagged:   
 Set 100 sks cmt from 2550 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set 100 sks cmt from 1520 ft. to 1320 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:

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 215 sacks half in. half out surface casing from 533 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: 0

Surface Plug Setting Date: 11/23/2020 Cut and Cap Date: 11/23/2020

\*Wireline Contractor: Rocky Mtn Wireline 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:

Harley S Rupert 2 (05-123-16711)/Plugging Procedure  
Producing Formation: Niobrara/Codell: 6810'-7108'

Upper Pierre Aquifer: 450'-1440'

TD: 7234' PBD: 7150' (11/19/2015)

Surface Casing: 8 5/8" 24# @ 333' w/ 225 sxs cmt

Production Casing: 4 1/2" 11.6# @ 7234' w/ 445 sxs cmt (TOC @ 3500' – Sundry, Doc# 134333)

**Procedure:**

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6760'. Top with 2 sx 15.8#/gal CI G cement. (Top of Nio perms @ 6810')
4. Run a CBL from 6700' to surface.
5. Pressure tested casing, test failed. Hunted and identified holes @ 2875'-2844'. Contacted the State, moved forward with the approved procedure change.
6. TIH with CIBP. Set BP at 4342'. Top with 2 sx 15.8#/gal CI G cement. (Top of Sussex @ 4392')
7. TIH with tubing to 2925'. RU cementing company. Mix and pump 30 sx 15.8#/gal CI G cement down tubing. (Casing Leak Coverage from 2925'-2550') TOC at 2550'.
8. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
9. TIH with tubing to 2550'. RU cementing company. Mix and pump 100 sx 15.8#/gal CI G cement down tubing. (Stub plug from 2550'-2300') TOC at 2300'.
10. TIH with tubing to 1520'. Mix and pump 100 sx 15.8#/gal CI G cement down tubing. (Stub plug from 1520'-1320') TOC at 1320'.
11. Pick up tubing to 533'. Mix and pump 215 sx 15.8#/gal CI G cement down tubing. Cement circulate to surface.
12. 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:**

**COA Type**

**Description**

COA Type	Description

**Attachment Check List**

Att Doc Num	Name
402560569	CEMENT BOND LOG
402560570	CEMENT JOB SUMMARY
402560571	OTHER
402560572	OPERATIONS SUMMARY
402560573	WELLBORE DIAGRAM

Total Attach: 5 Files

**General Comments**

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)