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**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: Santistevan, Brittani Tel: (720) 471-1110  
**COGCC contact:** Email: brittani.santistevan@state.co.us

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

API Number 05-123-27371-00  
 Well Name: ROTHARMEL Well Number: 12-32  
 Location: QtrQtr: SWNW Section: 32 Township: 7N Range: 66W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: EATON Field Number: 19350

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

Latitude: 40.532250 Longitude: -104.810420  
 GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 12/13/2006  
 GPS Instrument Operator's Name: HOLLY L. TRACY  
 Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_  
 Casing to be pulled:  Yes  No Estimated Depth: 1018  
 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	7339	7349			

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	918	650	918	0	VISU
1ST	7+7/8	4+1/2	10.5	7,534	605	7,534	1,350	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7289 with 2 sacks cmt on top. CIBP #2: Depth 6960 with 2 sacks cmt on top.  
 CIBP #3: Depth 2500 with 2 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 78 sks cmt from 1530 ft. to 818 ft. Plug Type: STUB PLUG Plug Tagged:   
 Set 155 sks cmt from 500 ft. to 0 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 \_\_\_\_\_ 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 Cut and Cap Date: \_\_\_\_\_  
 of \_\_\_\_\_  
 \*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

Technical Detail/Comments:

Rotharmel 12-32 (05-123-27371)/Plugging Procedure (Intent)  
 Producing Formation: Codell: 7339'-7349'  
 Upper Pierre Aquifer: 400'-918'  
 TD: 7542' PBTD: 7506' (11/28/2006)  
 Surface Casing: 8 5/8" 24# @ 918' w/ 650 sxs  
 Production Casing: 4 1/2" 10.5# @ 7534' w/ 605 sx cmt (TOC @ 1350' - CBL)  
 Tubing: 2 3/8" tubing set @ 7323 (11/28/2006)  
 Proposed Procedure:  
 1. MIRU pulling unit. Pull 2 3/8" tubing.  
 2. RU wireline company.  
 3. TIH with CIBP. Set BP at 7289'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell perfs @ 7339')  
 4. TIH with CIBP. Set BP at 6960'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 7010')  
 5. TIH with CIBP. Set BP at 2500'. Top with 2 sxs 15.8#/gal CI G cement.  
 6. TIH with casing cutter. Cut 4 1/2" casing @ 1018'. Pull cut casing.  
 7. TIH with tubing to 1530'. RU cementing company. Mix and pump 78 sxs 15.8#/gal CI G cement down tubing.  
 8. Pick up tubing to 500'. Mix and pump 155 sxs 15.8#/gal CI G cement down tubing. (Pierre coverage from 500'-surface) Cement should circulate to surface.  
 9. 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: 3/11/2020 Email: valerie.danson@pdce.com



## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	-Confirmed as-drilled well location. -No other forms in process. -Production reporting up-to-date. -Confirmed producing interval docnum: 1968387. -Reviewed WBD. -Pass.	03/12/2020

Total: 1 comment(s)