

Document Number:
401932047

Date Received:
02/07/2019

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 05-123-27370-00 Well Name: ROTHARMEL Well Number: 21-32
 Location: QtrQtr: NENW Section: 32 Township: 7N Range: 66W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: EATON Field Number: 19350

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.536720 Longitude: -104.805690
 GPS Data:
 Date of Measurement: 12/13/2006 PDOP Reading: 2.9 GPS Instrument Operator's Name: H. L. TRACY
 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	7375	7385	01/08/2019	B PLUG CEMENT TOP	7325

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	944	660	944	0	VISU
1ST	7+7/8	4+1/2	10.5	7,556	755	7,556	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7325 with 2 sacks cmt on top. CIBP #2: Depth 7000 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 _____ 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:
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 114 sacks half in. half out surface casing from 1724 ft. to 0 ft. Plug Tagged:

Set 17 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: 01/09/2019
of _____

*Wireline Contractor: Ranger Energy Services *Cementing Contractor: C&J Energy Services

Type of Cement and Additives Used: Type III 14.8 PPG Portland Cement

Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Rotharmel 21-32 (05-123-27370)/Plugging Procedure
Producing Formation: Codell: 7375'-7385'
Upper Pierre Aquifer: 420'-1466'
TD: 7570' PBTD: 7538.7'
Surface Casing: 8 5/8" 24# @ 944' w/ 660 sxs cmt.
Production Casing: 4 1/2" 10.5# @ 7556' w/ 755 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 7325'. Top with 2 sxs cmt.
4. TIH with CIBP. Set BP at 7000'. Top with 2 sxs cmt.
5. TIH with tubing to 1724'. RU cementing company. Mix and pump 131 sxs 14.8#/gal Type III cement down tubing (Pierre coverage from 1700'-1200'). Cement circulate to surface.
6. 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: 2/7/2019 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: Strathman, Elliot Date: 4/16/2019

CONDITIONS OF APPROVAL, IF ANY: _____

COA Type **Description**

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Attachment Check List

Att Doc Num **Name**

401932047	FORM 6 SUBSEQUENT SUBMITTED
401932057	CEMENT JOB SUMMARY
401932059	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group **Comment**

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)