

Document Number:
 402472973
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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: _____ Tel: _____
 COGCC contact: Email: _____

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

API Number 05-123-23054-00
 Well Name: CORNISH Well Number: 21-3
 Location: QtrQtr: NENW Section: 3 Township: 6N Range: 63W 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: 40.521690 Longitude: -104.424890
 GPS Data: GPS Quality Value: 2.5 Type of GPS Quality Value: _____ Date of Measurement: 11/06/2007
 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: _____
 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	6756	6762	07/21/2020	B PLUG CEMENT TOP	6706

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	400	220	400	0	VISU
1ST	7+7/8	4+1/2	10.5	6,900	155	6,900	6,074	CBL
S.C. 1.1				6,074	305	6,074	2,170	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6706 with 2 sacks cmt on top. CIBP #2: Depth 6447 with 2 sacks cmt on top.
 CIBP #3: Depth 2920 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 100 sks cmt from 1748 ft. to 1480 ft. Plug Type: STUB PLUG 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 268 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: 1680 ft. 4+1/2 inch casing Cut and Cap Date: 07/22/2020
 of _____
 *Wireline Contractor: Ranger Energy Services *Cementing Contractor: Ranger Energy 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:

Cornish 21-3 (05-123-23054)/Plugging Procedure
 Producing Formation: Codell: 6756'-6762'

Upper Pierre Aquifer: 480'-1580'

TD: 6951' PBTD: 6874' (12/20/2013)
 Surface Casing: 8 5/8" 24# @ 400' w/ 220 sx cmt
 Production Casing: 4 1/2" 10.5# @ 6900' w/ 460 sx cmt (TOC @ 2170' - CBL)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6706'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell perms @ 6756')
4. TIH with CIBP. Set BP at 6447'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 6497')
5. TIH with CIBP. Set BP at 2920'. Top with 2 sxs 15.8#/gal CI G cement.
6. Run a strip log from 2000' to Surface for casing cut verification (log not kept).
7. TIH with casing cutter. Cut 4 1/2" casing @ 1680'. Pull cut casing.
8. TIH with tubing to 1748'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub/Pierre plug from 1680'-1480') TOC at 1480'.
9. Pick up tubing to 600'. Mix and pump 268 sxs 15.8#/gal CI G 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:

COA Type

Description

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Attachment Check List

Att Doc Num

Name

402472975	CEMENT JOB SUMMARY
402472976	OPERATIONS SUMMARY
402472977	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)