

FORM
6Rev
02/20

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

402437544

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:

COGCC contact:

Email:

Type of Well Abandonment Report:



Notice of Intent to Abandon



Subsequent Report of Abandonment

API Number 05-123-12008-00

Well Name: QUANTUM

Well Number: 14-16

Location: QtrQtr: SWSW

Section: 16

Township: 4N

Range: 65W

Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 62810

Field Name: WATTENBERG

Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.306944

Longitude: -104.674167

GPS Data: GPS Quality Value: 2.5 Type of GPS Quality Value: Date of Measurement: 01/14/2010

GPS Instrument Operator's Name: Brandon Lucason

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	6903	7210	06/01/2020	B PLUG CEMENT TOP	6853

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	229	300	229	0	VISU
1ST	7+7/8	4+1/2	11.6	7,330	206	7,330	6,445	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6853 with 2 sacks cmt on top. CIBP #2: Depth _____ with _____ 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 <u>10</u> sks cmt from <u>4358</u> ft. to <u>4073</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>90</u> sks cmt from <u>2600</u> ft. to <u>2300</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input type="checkbox"/>
Set <u>82</u> sks cmt from <u>1600</u> ft. to <u>1400</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

Perforate and squeeze at 4534 ft. with 45 sacks. Leave at least 100 ft. in casing 4359 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 477 sacks half in. half out surface casing from 697 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. 4+1/2 inch casing Cut and Cap Date: 06/04/2020
of _____

*Wireline Contractor: Ranger Energy Services

*Cementing Contractor: NexTier

Type of Cement and Additives Used: Type III 12.0 PPG Sussex Blend & Type III 14.8 PPG Portland Cement

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

Quantum 14-16 (05-123-12008)/Plugging Procedure
Producing Formation: Niobrara/Codell: 6903'-7210'
Upper Pierre Aquifer: 570'-1500'
TD: 7330' PBTD: 7309' (4/15/2015)
Surface Casing: 8 5/8" 24# @ 337' w/ 300 sx cmt
Production Casing: 4 1/2" 11.6# @ 7330' w/ 206 sx cmt (TOC @ 6445' - CBL)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6853'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio perfs @ 6903')
4. Run a CBL from 5150' to Surface.
5. TIH with perf gun. Shoot lower squeeze holes at 4534' and upper squeeze holes at 4334'.
6. TIH with CICR. Set CICR at 4359'. RU cementing company. Sting in and pump 55 sxs 12.0#/gal Sussex Blend cement. Sting out and leave 10 sxs (of the 55 sxs) cement on top of CICR. TOC at 4073'.
7. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
8. TIH with tubing to 2600'. RU cementing company. Mix and pump 90 sxs 14.8#/gal Type III cement down tubing. TOC at 2300'.
9. TIH with tubing to 1600'. Mix and pump 82 sxs 14.8#/gal Type III cement down tubing. (Pierre coverage from 1600'-1400') TOC at 1400'.
10. Pick up tubing to 697'. Mix and pump 477 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
11. 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

402437545	CEMENT BOND LOG
402437546	CEMENT JOB SUMMARY
402437547	WELLBORE DIAGRAM
402437548	WIRELINE JOB SUMMARY

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)