

FORM
6Rev
11/20

State of Colorado

Oil and Gas Conservation Commission

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



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Document Number:

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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: Serna, Abe

Tel: (720) 661-7317

COGCC contact:

Email: abe.serna@state.co.us

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

API Number 05-123-14479-00

Well Name: RIGGS

Well Number: 34-16

Location: QtrQtr: SWSE Section: 16 Township: 6N Range: 65W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 55994

Field Name: GREELEY

Field Number: 32760

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.480690

Longitude: -104.665360

GPS Data: GPS Quality Value: 1.7 Type of GPS Quality Value: Date of Measurement: 08/25/2006

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes ☐ No Estimated Depth: 1560Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore 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-FT HAYS-CODELL	6821	7126			

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	318	175	318	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7278	250	7278	6288	CBL
S.C. 1.1						4558	100	4558	4368	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6771 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>33</u>	sks cmt from <u>4558</u>	ft. to <u>4368</u>	ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>10</u>	sks cmt from <u>3424</u>	ft. to <u>3293</u>	ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>100</u>	sks cmt from <u>1610</u>	ft. to <u>1360</u>	ft.	Plug Type: <u>STUB PLUG</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 3610 ft. with 76 sacks. Leave at least 100 ft. in casing 3425 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 225 sacks half in. half out surface casing from 550 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: _____ ft. of _____ inch casing Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____
 Surface Plug Setting Date: _____ Cut and Cap Date: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

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

Technical Detail/Comments:

Riggs 34-16 (05-123-14479)/Plugging Procedure (Intent)
 Producing Formation: Niobrara/Ft Hays/Codell: 6821'-7126'
 Upper Pierre Aquifer: 450'-1460'
 TD: 7278' PBTD: 7183' (1/24/13)
 Surface Casing: 8 5/8" 24# @ 318' w/ 175 sxs cmt
 Production Casing: 4 1/2" 11.6# @ 7278' w/ 250 sxs cmt (TOC @ 6288' - CBL)
 Remedial Casing Squeeze @ 4558' w/ 100 sxs cmt (TOC @ 4368' - CBL)

Tubing: 2 3/8" tubing set @ 7099' (1/24/13)
 Proposed Procedure:
 1. MIRU pulling unit. Pull 2 3/8" tubing.
 2. RU wireline company
 3. TIH with CIBP. Set BP at 6771'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio perms @ 6821')
 4. TIH with tubing to 4558'. RU cementing company. Mix and pump 33 sxs 15.8#/gal CI G cement down tubing. (Remedial Casing Coverage from 4558'-4368')
 5. TIH with perf gun. Shoot lower squeeze holes at 3610' and upper squeeze holes at 3410'.
 6. TIH with CICR. Set CICR at 3425'. RU cementing company. Sting in and pump 86 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 86 sxs) cement on top of CICR. (Top of Parkman @ 3660')
 7. TIH with casing cutter. Cut 4 1/2" casing @ 1560'. Pull cut casing.
 8. TIH with tubing to 1610'. RU cementing company. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Stub Plug and Pierre coverage from 1610'-1360')
 9. Wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact engineering before continuing operations.
 10. Pick up tubing to 550'. Mix and pump 225 sxs 15.8#/gal CI G cement down tubing. Cement should 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: _____

Expiration Date: _____

COA Type

Description

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Attachment List

Att Doc Num

Name

402584980	WELLBORE DIAGRAM
402584982	WELLBORE DIAGRAM

Total Attach: 2 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)