FORM 6 Rev 05/18

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: 401513478

Date Received: 01/15/2018

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: Kelsi Welch

Name of Operator: PDC ENERGY INC Phone: (303) 831-3974

Address: 1775 SHERMAN STREET - STE 3000 Fax:

City: DENVER State: CO Zip: 80203 Email: kelsi.welch@pdce.com

For "Intent" 24 hour notice required, COGCC contact: Name: Montoya, John Tel: (970) 397-4124 Email: john.montoya@state.co.us

API Number 05-123-20485-00

Well Name: NOFFSINGER/MINN Well Number: 5C

Location: QtrQtr: NENE Section: 5 Township: 5N Range: 64W Meridian: 6

County: WELD Federal, Indian or State Lease Number:

Field Name: WATTENBERG Field Number: 90750

☐ Notice of Intent to Abandon ☒ Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.431250 Longitude: -104.569360

GPS Data:

Date of Measurement: 01/16/2009 PDOP Reading: 2.0 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	6872	6880	12/12/2017	B PLUG CEMENT TOP	6822

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	374	265	374	0	VISU
1ST	7+7/8	4+1/2	10.5	7,040	150	7,040	6,075	CBL
S.C. 1.1				6,075	250	6,075	3,580	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6822 with 2 sacks cmt on top. CIPB #2: Depth 6475 with 2 sacks cmt on top.

CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 160 sks cmt from 3674 ft. to 3250 ft. Plug Type: STUB PLUG Plug Tagged: ☐

Set 336 sks cmt from 706 ft. to 0 ft. Plug Type: CASING 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: 3570 ft. of 4+1/2 inch casing Plugging Date: 12/14/2017

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

Type of Cement and Additives Used: 15.8#/gal Cl G cement

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

Technical Detail/Comments:

Noffsinger Minn 5C (05-123-20485)/Plugging Procedure (Subsequent)
Producing Formation (Perforations): Codell: 6872'-6888'
TD: 7065' PBTD: 7022'
Surface Casing: 8 5/8" 24# @ 397' w/ 265 sxs
Production Casing: 4 1/2" 10.5# @ 7040' w/ 400 sxs cmt (TOC @ 3580' - CBL).

Tubing: 2 3/8" tubing set @ 6855' (3/14/2002).
Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6822'. Top with 2 sxs 15.8#/gal Cl G cement.
4. TIH with CIBP. Set BP at 6475'. Top with 2 sxs 15.8#/gal Cl G cement.
5. Pressure tested casing. Pressure test failed.
6. RIH with tension packer. Set packer at 3310'. Pressure tested up to 1000 psi from 3310' to top of CIBP. Good test. Found holes in casing from 2335'-2754'. Released packer.
7. TIH with casing cutter. Cut 4 ½" casing at 3570'. Pull cut casing.
8. TIH with tubing to 3674'. RU cementing company. Mix and pump 160 sxs 15.8#/gal Cl G cement down tubing.
9. TIH with tubing to 706'. RU cementing company. Mix and pump 336 sxs 15.8#/gal Cl G cement down tubing 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: Kelsi Welch

Title: Production Tech Date: 1/15/2018 Email: kelsi.welch@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: Jacobson, Eric Date: 10/15/2018

CONDITIONS OF APPROVAL, IF ANY:

COA Type	Description

Attachment Check List

Att Doc Num	Name
401513478	FORM 6 SUBSEQUENT SUBMITTED
401513500	WELLBORE DIAGRAM
401513502	CEMENT JOB SUMMARY
401513513	WIRELINE JOB SUMMARY
401513515	CEMENT BOND LOG

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
Engineer	Waiting for the operator to submit the bradenhead test results. File submitted 10/12/2018 EJ	07/10/2018

Total: 1 comment(s)