| FORM 6 Rev 12/05 | **State of Colorado** **Oil and Gas Conservation Commission** 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109 **WELL ABANDONMENT REPORT** | DNR CO | DE | ET | OE | ES |

Document Number:

401481848

Date Received:

12/11/2017

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,   Name: O'Donnell, Shaun   Tel: (720) 305-8280

COGCC contact: Email: shaun.odonnell@state.co.us

API Number: 05-123-12259-00

Well Name: ANDERSON/JANUARY   Well Number: 1

Location: QtrQtr: NWSW   Section: 11   Township: 6N   Range: 66W   Meridian: 6

County: WELD   Federal, Indian or State Lease Number: 55490

Field Name: EATON   Field Number: 19350

☒ Notice of Intent to Abandon   ☐ Subsequent Report of Abandonment

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Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.500833   Longitude: -104.751667

GPS Data:

Date of Measurement: 01/18/2010   PDOP Reading: 2.6   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: 550

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	7306	7322			
NIOBRARA	7008	7209			
Total: 2 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	329	325	329	0	
1ST	7+7/8	4+1/2	11.6	7,418	260	7,418	6,258	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth __6958__ with __2__ sacks cmt on top. CIPB #2: Depth _____ with _____ 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 __310__ sks cmt from __600__ ft. to __0__ 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 _____ 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: _____ ft. _____ inch casing   Plugging Date: _____
of

*Wireline Contractor: _____   *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1103 ☐ Yes ☐ No   *ATTACH JOB SUMMARY

Technical Detail/Comments:

Anderson/January 1 (05-123-12259)/Plugging Procedure (Intent)
Producing Formation (Perforations): Niobrara: 7008'-7209' Codell: 7306'-7322'
TD: 7420' PBTD: 7376'
Surface Casing: 8 5/8" 24# @ 329' w/ 325 sxs
Production Casing: 4 1/2" 11.6# @ 7418' w/ 260 sxs cmt (TOC @ 6258' - CBL).

Tubing: 2 3/8" tubing set @ 7294' (3/31/2002).
Proposed Procedure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6958'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with casing cutter. Cut 4 ½" casing at 550'. Pull cut casing.
5. TIH with tubing to 600'. RU cementing company. Mix and pump 310 sxs 15.8#/gal CI G cement down tubing.   Cement should circulate to surface.
6. Cut surface casing 6' below ground level and weld on cap.
If there is bradenhead pressure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6958'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with casing cutter. Cut 4 ½" casing at 1500'. Pull cut casing.
5. TIH with tubing to 1550'. RU cementing company. Mix and pump 75 sxs 15.8#/gal CI G cement down tubing. Wait 8 hours or overnight. Check to see if there is any bradenhead pressure or fluid flow after stub plug is set. If there is, contact COGCC for further guidance. If there is not, move on to the next step.
6. TIH with tubing to 550'. RU cementing company. Mix and pump 375 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
7. 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: _____12/11/2017_____   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: HICKEY, MIKE _____   Date: 1/11/2018 _____

CONDITIONS OF APPROVAL, IF ANY: _____   Expiration Date: 7/10/2018 _____

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Prior to placing the 600' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging requirements. 3) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – top of plug must be not deeper than 279' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug. 4) Properly abandon all flowlines. Once flowlines are properly abandoned, file electronic form 42.
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	Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.

Attachment Check List

Att Doc Num	Name
401481848	FORM 6 INTENT SUBMITTED
401481853	WELLBORE DIAGRAM
401481854	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Public Room	Document verification complete 01/08/18	01/08/2018

Total: 1 comment(s)