

FORM
6Rev
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



DE ET OE ES

Document Number:

401565995

Date Received:

03/07/2018

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: Jenifer Hakkarinen

Name of Operator: PDC ENERGY INC

Phone: (303) 8605800

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: Jenifer.Hakkarinen@pdce.com

For "Intent" 24 hour notice required,

Name: Tel:

COGCC contact:

Email:

API Number 05-123-23029-00

Well Name: KOHLHOFF

Well Number: 23-22

Location: QtrQtr: NESW Section: 22 Township: 7N 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: 40.556390

Longitude: -104.538690

GPS Data:

Date of Measurement: 12/04/2006

PDOP Reading: 3.6

GPS Instrument Operator's Name: Holly L. Tracy

Reason for Abandonment:

☐ Dry☐ Production Sub-economic☐ Mechanical Problems☐ OtherCasing 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	7126	7134	02/15/2018	B PLUG CEMENT TOP	7026

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	411	230	411	0	VISU
1ST	7+7/8	4+1/2	10.5	7,320	485	7,320	2,706	CBL
S.C. 1.1				646	200	646	0	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7026 with 2 sacks cmt on top. CIBP #2: Depth 6778 with 2 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 20 sks cmt from 2929 ft. to 2672 ft. Plug Type: CASING Plug Tagged: ☐
Set 75 sks cmt from 665 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 650 ft. with 56 sacks. Leave at least 100 ft. in casing 665 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 10 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: 02/15/2018
of _____

*Wireline Contractor: _____ *Cementing Contractor: _____

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:

Kohlhoff 23-22 (05-123-23029)/Plugging Procedure
Producing Formation (Perforations): Codell: 7126'-7134'
TD: 7356' PBTD: 7305'
Surface Casing: 8 5/8" 24# @ 411' w/ 230 sxs
Production Casing: 4 1/2" 10.5# @ 7320' w/ 485 sxs cmt (TOC @ 2706' - CBL). Existing annular fill cement w/ 200 sxs cmt (Surface - 646' CBL).

Tubing: 2 3/8" tubing set @ 7233' (12/2/2015).

Procedure:

1. Run gyro survey.
2. MIRU pulling unit. Pull 2 3/8" tubing.
3. RU wireline company.
4. TIH with CIBP. Set BP at 7026'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with CIBP. Set BP at 6778'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with tubing to 2929'. Mix and pump 20 sxs 15.8#/gal CI G cement to 2672'.
7. Shoot lower squeeze holes at 750'. Shoot upper squeeze holes at 650'. Unable to establish circulation after several attempts. Mixed and pumped pill of SAPP to attempt to break possible bridge. Still unable to establish circulation through squeeze holes.
8. Set packer at 665'. Sting in and pump 75 sxs 15.8#/gal CI G cement. Sting out release packer.
9. TIH with cement retainer set at 665'. Sting into retainer and pump 75 sxs of 15.8#/gal CI G cement. sting out of retainer.
10. Mix and pump 56 sxs 15.8#/gal CI G cement to surface. Squeeze additional 10 sxs 15.8#/gal CI G cement into upper squeeze holes.
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: Jenifer Hakkarinen

Title: Reg Tech

Date: 3/7/2018

Email: Jenifer.Hakkarinen@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**

401565995	FORM 6 SUBSEQUENT SUBMITTED
401566011	GYRO SURVEY
401566021	CEMENT JOB SUMMARY
401566037	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments**User Group****Comment****Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)