

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



DE	ET	OE	ES
Document Number: 401706242			
Date Received: 07/18/2018			

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 05-123-25028-00 Well Number: 33-26
 Well Name: CARMICHAEL
 Location: QtrQtr: NWSE Section: 26 Township: 7N Range: 63W 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: 40.542920 Longitude: -104.400360
 GPS Data:
 Date of Measurement: 11/06/2007 PDOP Reading: 2.2 GPS Instrument Operator's Name: HOLLY 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	6785	6791	06/12/2018	B PLUG CEMENT TOP	6489
NIOBRARA	6542	6646	06/12/2018	B PLUG CEMENT TOP	6489
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	540	380	540	0	VISU
1ST	7+7/8	4+1/2	10.5	6,935	635	6,935	240	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6489 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 30 sks cmt from 1820 ft. to 1424 ft. Plug Type: CASING Plug Tagged:
Set 78 sks cmt from 744 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 220 ft. with 63 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: 06/12/2018
of _____
*Wireline Contractor: _____ *Cementing Contractor: C&J
Type of Cement and Additives Used: 15.8 PPG CL G NEAT
Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Carmichael 33-26 (05-123-25028)/Plugging Procedure
Producing Formation (Perforations): Niobrara: 6542'-6646' Codell: 6785'-6791'
Pierre Aquifer: 595'-1622'
TD: 6954' PBTD: 6894'
Surface Casing: 8 5/8" 24# @ 540' w/ 380 sxs
Production Casing: 4 1/2" 10.5# @ 6935' w/ 635 sxs cmt (TOC @ 240' - CBL).

Tubing: 2 3/8" tubing set @ 6838' (2/19/2015).

Procedure:

1. Unhang rods and unseat pump. If necessary, hot oil tubing. TOOH with hanging rods.
2. MIRU pulling unit. Pull 2 3/8" tubing.
3. RU wireline company.
4. TIH with CIBP. Set BP at 6489'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with perforation gun. Shoot 2 holes for annular squeeze at 220' @ 1 SPF or preferred.
6. RU cementing company. TIH with tubing to 1820'. Mix and pump 30 sxs 15.8#/gal CI G cement down tubing to 1424'.
7. Pick up tubing to 744'. Mix and bullhead 141 sxs 15.8#/gal CI G cement down tubing. Cement reach surface inside and outside production casing.
8. 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: 7/18/2018 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, Eric _____

COGCC Approved:

Date: 11/20/2018

CONDITIONS OF APPROVAL, IF ANY:

COA Type

Description

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Attachment Check List

Att Doc Num

Name

401706242	FORM 6 SUBSEQUENT SUBMITTED
401706439	WELLBORE DIAGRAM
401706444	CEMENT JOB SUMMARY

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)