

FORM
6
Rev
02/20

State of Colorado
Oil and Gas Conservation Commission

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



DE	ET	OE	ES
Document Number: 402347771			
Date Received: 03/20/2020			

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: <u>69175</u>	Contact Name: <u>Valerie Danson</u>
Name of Operator: <u>PDC ENERGY INC</u>	Phone: <u>(970) 506-9272</u>
Address: <u>1775 SHERMAN STREET - STE 3000</u>	Fax: _____
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>	Email: <u>valerie.danson@pdce.com</u>

For "Intent" 24 hour notice required, Name: _____ Tel: _____
 Email: _____

COGCC contact: _____

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

API Number <u>05-123-14338-00</u>	Well Name: <u>STATE</u>	Well Number: <u>22-16</u>
Location: QtrQtr: <u>SENW</u> Section: <u>16</u> Township: <u>6N</u> Range: <u>64W</u> Meridian: <u>6</u>	County: <u>WELD</u>	Federal, Indian or State Lease Number: <u>67914</u>
Field Name: <u>WATTENBERG</u>	Field Number: <u>90750</u>	

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.487810 Longitude: -104.556780

GPS Data: GPS Quality Value: 1.7 Type of GPS Quality Value: _____ Date of Measurement: 06/27/2010

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
NIOBRARA-CODELL	6740	7050	02/19/2020	B PLUG CEMENT TOP	6690

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	315	175	315	0	VISU
1ST	7+7/8	4+1/2	11.6	7,189	220	7,189	6,470	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6690 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 86 sks cmt from 1760 ft. to 1510 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 536 sacks half in. half out surface casing from 880 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: 1710 ft. of 4+1/2 inch casing Cut and Cap Date: 02/20/2020
*Wireline Contractor: SureFire Wireline Services *Cementing Contractor: Magnum Cementing Services
Type of Cement and Additives Used: Type III 14.8 PPG Portland Cement
Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

State 22-16 (05-123-14338)/Plugging Procedure
Producing Formation: Niobrara/Codell: 6740'-7050'
Upper Pierre Aquifer: 530'-1610'
TD: 7189' PBD: 7100' (4/10/2010)
Surface Casing: 8 5/8" 24# @ 315' w/ 175 sxs
Production Casing: 4 1/2" 11.6# @ 7189' w/ 220 sx cmt (TOC @ 6470' - Form 5)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6690'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio perms @ 6740')
4. Run Strip Log from 6650' to surface for casing cut verification (Log not kept).
5. TIH with casing cutter. Cut 4 1/2" casing at 1710'. Pull cut casing.
6. TIH with tubing to 1760'. RU cementing company. Mix and pump 86 sxs 14.8#/gal Type III cement down tubing (Pierre coverage from 1710'-1510'). TOC at 1510'.
7. TIH with tubing to 880'. Mix and pump 536 sxs 14.8#/gal Type III cement down tubing (Pierre coverage from 630'-surface). Cement circulate to surface.
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: Valerie Danson
Title: Reg Tech Date: 3/20/2020 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.

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402347771	FORM 6 SUBSEQUENT SUBMITTED
402348734	CEMENT JOB SUMMARY
402348735	OPERATIONS SUMMARY
402348736	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	GPS location appears accurate on satellite imagery. Ops notice given. Pre-PA BH test filed. Form 7 reporting PA status. Flowline registered. Zones and casing history are consistent with approved intent. Procedure, WBD and tickets are consistent.	03/08/2021

Total: 1 comment(s)