

FORM
6Rev
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



DE ET OE ES

Document Number:

401107359

Date Received:

09/12/2016

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,

Name: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-123-19476-00

Well Name: HETTINGER

Well Number: 34-18

Location: QtrQtr: SWSE Section: 18 Township: 5N Range: 64W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 59465

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: 40.393750

Longitude: -104.590500

GPS Data:

Date of Measurement: 08/21/2010

PDOP Reading: 1.7

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: 580

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	6866	6876			
NIOBRARA	6575	6701			

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	355	298	355	0	VISU
1ST	7+7/8	3+1/2	9.3	7,097	180	7,097	6,068	CBL
S.C. 1.1				7,097	140	3,600	3,200	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6536 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 250 sks cmt from 630 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. of _____ inch casing Plugging Date: _____

*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:

Hettinger #34-18 (05-123-19476)/Plugging Procedure (Intent)
Producing Formation: Niobrara 6575'-6701' Codell 6866'-6876'
TD: 7097' PBDT: 7037'
Surface Casing: 8" 24# @ 355' w/ 298 sks cmt.
Production Casing: 3½" 9.3# @ 7097' w/ 140 sks cmt (TOC 6068' & 3182' CBL).

Tubing: 1.9" 2.9# EUE set at 6849'. (10/9/2001)

Proposed Procedure:

1. MIRU RU pulling unit. Pull 1.9" tubing.
2. RU wireline company. Run gyro survey.
3. TIH with CIBP. Set bridge plug at 6535'. TIH with dump bailer. Spot 2 sxs cement on top of CIBP.
4. TIH with casing cutter. Cut 3½" casing at 580'. Pull 3½" casing.
5. TIH with tubing to 630'. Mix and pump 250 sxs of 15.8#/gal CI G cement. Cement should circulate to surface.
6. 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: Regulatory Analyst Date: 9/12/2016 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: JENKINS, STEVE Date: 9/26/2016

COA Type**Description**

	1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) For the 630' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be at 305' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the casing for each plug. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 4) Prior to initiation of plugging operations, a Bradenhead test shall be performed. If any pressure remains at the conclusion of the test or any liquids were present call COGCC Engineer for sampling requirements. Form 17 shall be submitted within 10 days.
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Attachment Check List**Att Doc Num****Name**

401107359	FORM 6 INTENT SUBMITTED
401107369	WELLBORE DIAGRAM
401107370	WELLBORE DIAGRAM

Total Attach: 3 Files

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

Permit	Form 7 is OK.	9/23/2016 11:10:52 AM
Public Room	DOCUMENT VERFICATION COMPLETE 07/08/16	9/12/2016 11:45:43 AM

Total: 2 comment(s)