

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:

400886113

Date Received:

08/18/2015

## 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: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-123-11537-00

Well Name: CHARLES

Well Number: 1

Location: QtrQtr: NESW Section: 14 Township: 6N Range: 66W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: BRACEWELL

Field Number: 7487

☒ Notice of Intent to Abandon☐ Subsequent Report of Abandonment

## Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.486439

Longitude: -104.747349

GPS Data:

Date of Measurement: 01/22/2010

PDOP Reading: 2.1

GPS Instrument Operator's Name: Brandon Lucason

Reason for Abandonment: ☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 3555

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	7205	7222			
NIOBRARA	6925	7070			

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	315	300	315	0	
1ST	7+7/8	4+1/2	11.6	7,356	155	7,356	6,405	
S.C. 1.1	7+7/8	4+1/2	11.6	4,150	169	4,150	3,655	

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7155 with 2 sacks cmt on top. CIBP #2: Depth 6875 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 36 sks cmt from 4595 ft. to 4100 ft. Plug Type: CASING Plug Tagged: ☐  
Set 50 sks cmt from 3605 ft. to 3391 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: ☐

Perforate and squeeze at 4650 ft. with 80 sacks. Leave at least 100 ft. in casing 4600 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 279 sacks half in. half out surface casing from 1000 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: \_\_\_\_\_ 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:

Proposed Plugging Procedure

Surface Csg: 8-5/8" - 24# - Set @ 315' w/ 300 sxs.

Production Csg: 4-1/2" - 11.6# - Set @ 7,356' w/ 155 sxs.

Production Csg Squeeze: 4-1/2" @ 4,150' w/ 169 sxs.

Original CBL TOC @ 6,405'

Original Volumetric Squeeze TOC @ 3,655'

\*\*Need CBL run for TOC and squeeze BOC confirmations

- 1) MIRU WO rig.
- 2) Load well and make sure well is dead.
- 3) MIRU WL unit.
- 4) PU CBL tool.
- 5) RIH and log entire well.
- 6) Locate current TOC's (If current TOC's/BOC are different, then adjust and contact engineer and state for approval).
- 7) PU CIBP.
- 8) RIH w/ CIBP and set @ 7,155'.
- 9) POOH.
- 10) RU cmt services.
- 11) PU dump bailer w/ 2 sxs cmt.
- 12) RIH w/ bailer and spot cmt on CIBP from 7,154' to 7,127'.
- 13) POOH w/ bailer.
- 14) PU CIBP.
- 15) RIH w/ CIBP and set @ 6,875'.
- 16) POOH.
- 17) PU dump bailer w/ 2 sxs cmt.
- 18) RIH w/ bailer and spot cmt on CIBP from 6,874' to 6,847'.
- 19) POOH w/ bailer.
- 20) PU perf gun.
- 21) RIH and perforate 4.5" production csg from 4,650' to 4,648' (60 deg phase, 12 shots, .42").
- 22) TOOH and perforate 4.5" production csg from 4,200' to 4,198' (60 deg phase, 12 shots, .42").
- 23) POOH w/ perf gun.
- 24) Load well.
- 25) PU cmt retainer.
- 26) RIH w/ retainer and set @ 4,600'.
- 27) Sting into retainer.
- 28) Displace 80 sxs cmt through retainer (Sussex squeeze - Est. TOC @ 4,250').
- 29) Sting out of retainer.
- 30) Spot a 36 sx balance cmt plug on top of retainer from 4,595' to 4,100'.
- 31) POOH.
- 32) PU casing cutter tool.
- 33) RIH w/ cutter and cut 4.5" production csg @ 3,555'.
- 34) POOH w/ cutter.
- 35) POOH w/ cut section of csg.
- 36) RIH and spot a 50 sx balance cmt plug from 3,605' to 3,391' (Stub plug).
- 37) TOOH and spot a 279 sx balance cmt plug from 1,000' to surface (Surface plug).
- 38) Top off any remaining volume.
- 39) RDMO service units.
- 40) Cut and weld 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: Regulatory TEch

Date: 8/18/2015

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: HICKEY, MIKE

Date: 9/4/2015

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 3/3/2016

**COA Type**

**Description**

	<ol style="list-style-type: none"><li>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</li><li>2) For 1000' plug: pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – must be 265' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug.</li><li>3) Properly abandon flowlines as per Rule 1103. Once flowlines are properly abandoned, file electronic form 42.</li></ol>
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### Attachment Check List

**Att Doc Num****Name**

400886113	FORM 6 INTENT SUBMITTED
400886132	WELLBORE DIAGRAM
400886133	WELLBORE DIAGRAM

Total Attach: 3 Files

### General Comments

**User Group****Comment****Comment Date**

Permit	IN PROCESS - Operator added niobrara perf interval.	9/1/2015 2:43:28 PM
Permit	196408 well completion 07/01/1996 1340220 Completed Interval Report 08/29/2002  ON HOLD - Zones tab is missing perf info for the Niobrara. Contacted operator to correct.	9/1/2015 2:32:07 PM
Public Room	DOCUMENT VERIFICATION COMPLETE 8/19/15	8/19/2015 2:56:27 PM

Total: 3 comment(s)