

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



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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 05-123-13724-00

Well Name: LEWIS KLEIN

Well Number: 19-2

Location: QtrQtr: SWNE Section: 19 Township: 5N Range: 64W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 69037

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: 40.386247

Longitude: -104.590444

GPS Data:

Date of Measurement: 04/22/2010

PDOP Reading: 1.8

GPS Instrument Operator's Name: Chuck Kraft

Reason for Abandonment:

☐ Dry☐ Production for 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	6880	6895		B PLUG CEMENT TOP	6530
NIOBRARA	6643	6676		B PLUG CEMENT TOP	6530

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	322	220	322	0	CALC
1ST	7	3+1/2	10.3	7,066	250	7,066	5,916	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6530 with 2 sacks cmt on top. CIPB #2: Depth _____ with _____ sacks cmt on top.
CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 _____ 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: ☐
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Perforate and squeeze at 4500 ft. with 290 sacks. Leave at least 100 ft. in casing _____ CICR Depth

Perforate and squeeze at 540 ft. with 347 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 347 sacks half in. half out surface casing from 540 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: 01/05/2015

*Wireline Contractor: Nabors

*Cementing Contractor: Nabors

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1103 ☐ Yes ☐ No

*ATTACH JOB SUMMARY

Technical Detail/Comments:

Plugging Procedure

Codell

Niobrara

Existing Perforations:

Niobrara: 6643-6776'

Codell: 6880-6895'

PBTD: 6973'

8 5/8" 24# @ 322' w/ 220 sks cmt.

3.5" 10.3# @ 7066' w/ 250 sks cmt (TOC 5916')

Procedure:

1. MIRU wireline

2. Tag previous set CIBP w/ 2 sks @ 6544'

3. RIH, set CIBP @ 6530'

4. RIH w/dump bailer and dump 2 sx cement on top of CIBP @ 6530'

5. Run CBL, prior cement squeeze from 2344'-3400'

6. Shoot squeeze holes @ 4500'

7. Shoot squeeze holes @ 3500'

8. RIH, set CICR @ 3515'

9. Sting into retainer and pump 290 sack suicide squeeze to cover Parkman/Sussex (3500'-4500')

10. Shoot squeeze holes @ 540'

11. TIH and 347 sack cement plug from 540' to surface

12. Tag plug inside 3-1/2" casing @ 30'

13. Cut casing 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

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: Date:

CONDITIONS OF APPROVAL, IF ANY:

Attachment Check List

Att Doc Num	Name
400799358	WELLBORE DIAGRAM
400799361	CEMENT BOND LOG

Total Attach: 2 Files

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)