

FORM
6Rev
11/20

State of Colorado

Oil and Gas Conservation Commission

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



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Document Number:

402579880

Date Received:

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: Santistevan, Brittani

Tel: (720) 471-1110

COGCC contact:

Email: brittani.santistevan@state.co.us

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

API Number 05-123-13490-00

Well Name: MOSSBERG UP

Well Number: 2-31

Location: QtrQtr: NWNE Section: 31 Township: 5N Range: 66W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 67948

Field Name: WATTENBERG

Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.361111

Longitude: -104.820278

GPS Data: GPS Quality Value: 2.4 Type of GPS Quality Value: Date of Measurement: 07/21/2010

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes ☐ No Estimated Depth: 2500Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore 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 | 7033 | 7370 | | | |

Total: 1 zone(s)

Casing History

| Casing Type | Size of Hole | Size of Casing | Grade | Wt/Ft | Csg/Liner Top | Setting Depth | Sacks Cmt | Cmt Btm | Cmt Top | Status |
|-------------|--------------|----------------|-------|-------|---------------|---------------|-----------|---------|---------|--------|
| SURF | 12+1/4 | 8+5/8 | J-55 | 24 | 0 | 338 | 215 | 338 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | J-55 | 15.1 | 0 | 7525 | 230 | 7525 | 6350 | CBL |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6983 with 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 100 sks cmt from 2550 ft. to 2300 ft. Plug Type: STUB PLUG Plug Tagged: ☐
Set 100 sks cmt from 1550 ft. to 1350 ft. Plug Type: OPEN HOLE 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 206 sacks half in. half out surface casing from 550 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 Number of Days from Setting Surface Plug to Capping or Sealing the Well:
Surface Plug Setting Date: Cut and Cap Date:
*Wireline Contractor: *Cementing Contractor:
Type of Cement and Additives Used:
Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

Mossberg Up 2-31 (05-123-13490)/Plugging Procedure (Intent)
Producing Formation: Nio/Codell: 7033'-7370'
Upper Pierre Aquifer: 450'-1450'
TD: 7525' PBTD: 7404' (2/4/2008)
Surface Casing: 8 5/8" 24# @ 338' w/ 215 sxs cmt
Production Casing: 4 1/2" 15.1# @ 7525' w/ 230 sxs cmt (TOC @ 6350' - CBL)

Other In Hole: N/A

Tubing: 2 3/8" tubing set @ 7322.7' (2/6/2008)

Proposed Procedure:

1. MIRU. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6983'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Nio/Codell Perfs @ 7033')
4. TIH with casing cutter. Cut 4 1/2" casing @ 2500'. Pull cut casing.
5. TIH with tubing to 2550'. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Courtesy plug from 2550'-2300')
6. Wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact engineering before continuing operations
7. Pick up tubing to 1550'. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing. (Pierre coverage from 1550'-1350')
8. Pick up tubing to 550'. Mix and pump 206 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
9. 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: 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: Date:

CONDITIONS OF APPROVAL, IF ANY: Expiration Date:

| COA Type | Description |
|----------|-------------|
| | |

Attachment List

| Att Doc Num | Name |
|-------------|------------------|
| 402579883 | WELLBORE DIAGRAM |
| 402579884 | WELLBORE DIAGRAM |

Total Attach: 2 Files

General Comments

| User Group | Comment | Comment Date |
|------------|---------|---------------------|
| | | Stamp Upon Approval |

Total: 0 comment(s)