

FORM
6Rev
12/05State 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: 401514752 | | | |
| Date Received: 01/16/2018 | | | |

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: O'Donnell, Shaun Tel: (720) 305-8280 | |
| COGCC contact: Email: shaun.odonnell@state.co.us | |

| | |
|--|--|
| API Number 05-123-20005-00 | Well Number: 23-12 |
| Well Name: J&L FARMS | |
| Location: QtrQtr: SWNW Section: 23 Township: 6N Range: 64W Meridian: 6 | |
| County: WELD | Federal, Indian or State Lease Number: |
| 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: 40.473170 | Longitude: -104.525170 |
| GPS Data: | |
| Date of Measurement: 12/07/2008 | PDOP Reading: 1.2 GPS Instrument Operator's Name: Holly L. Tracy |
| Reason for Abandonment: <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Production Sub-economic <input type="checkbox"/> Mechanical Problems | |
| <input type="checkbox"/> Other | |
| Casing to be pulled: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated Depth: 650 |
| Fish in Hole: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If yes, explain details below |
| Wellbore has Uncemented Casing leaks: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 | 6874 | 6884 | | | |
| NIOBRARA | 6595 | 6720 | | | |

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 | 389 | 275 | 389 | 0 | |
| 1ST | 7+7/8 | 4+1/2 | 10.5 | 7,050 | 375 | 7,050 | 3,370 | CBL |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6545 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 355 sks cmt from 700 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 2500 ft. with 60 sacks. Leave at least 100 ft. in casing 2410 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. _____ inch casing Plugging Date: _____
of _____

*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:

J&L Farms 23-12 (05-123-20005)/Plugging Procedure (Intent)
Producing Formation (Perforations): Niobrara: 6595'-6720' Codell: 6874'-6884'
TD: 7122' PBD: 7010'
Surface Casing: 8 5/8" 24# @ 389' w/ 275 sxs
Production Casing: 4 1/2" 10.5# @ 7050' w/ 375 sxs cmt (TOC @ 3370' - CBL).

Tubing: 2 3/8" tubing set @ 6861' (12/14/2007).

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
 2. RU wireline company.
 3. TIH with CIBP. Set BP at 6545'. Top with 2 sxs 15.8#/gal CI G cement.
 4. TIH with casing cutter. Cut 4 1/2" casing at 650'. Pull cut casing.
 5. TIH with tubing to 700'. RU cementing company. Mix and pump 355 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
 6. Cut surface casing 6' below ground level and weld on cap.
- If there is bradenhead pressure:
1. MIRU pulling unit. Pull 2 3/8" tubing.
 2. RU wireline company.
 3. TIH with CIBP. Set BP at 6545'. Top with 2 sxs 15.8#/gal CI G cement.
 4. TIH with casing cutter. Cut 4 1/2" casing at 1500'. Pull cut casing.
 5. TIH with tubing to 1550'. RU cementing company. Mix and pump 75 sxs 15.8#/gal CI G cement down tubing. Wait 8 hours or overnight. Check to see if there is any bradenhead pressure or fluid flow after stub plug is set. If there is, contact COGCC for further guidance. If there is not, move on to step 6.
 6. TIH with tubing to 650'. RU cementing company. Mix and pump 450 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
 7. 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: Production Tech Date: 1/16/2018 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: HICKEY, MIKE Date: 2/5/2018

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 8/4/2018

COA Type

Description

| | |
|--|--|
| | 1)Submit Form 42 electronically to COGCC 48 hours prior to MIRU electronically to COGCC 48 hours prior to MIRU. 2)Prior to placing the 700' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging requirements. . 3)After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – top of plug must be not deeper than 339' and provide minimum 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug. 4)Properly abandon all flowlines. Once flowlines are properly abandoned, file electronic form 42. |
| | Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare. |

Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-------------------------|
| 401514752 | FORM 6 INTENT SUBMITTED |
| 401514763 | WELLBORE DIAGRAM |
| 401514764 | WELLBORE DIAGRAM |
| 401514766 | GYRO SURVEY |

Total Attach: 4 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|---------------------|
| Engineer | Bradenhead test dated 10/07/2016 shows no pressure/no flows. No additional Bradenhead test is required. Added 2500' plug at the operator's request. | 02/05/2018 |
| Public Room | Pass | 02/01/2018 |
| Permit | Pass. | 01/30/2018 |

Total: 3 comment(s)