

FORM
6Rev
05/18

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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Date Received:

12/17/2018

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: Valerie Danson

Name of Operator: PDC ENERGY INC

Phone: (970) 506-9272

Address: 1775 SHERMAN STREET - STE 3000

Fax:

City: DENVER State: CO Zip: 80203

Email: valerie.danson@pdce.com

For "Intent" 24 hour notice required,

Name: Silver, Randy

Tel: (720) 827-6688

COGCC contact:

Email: randy.silver@state.co.us

API Number 05-123-25205-00

Well Name: WASTE MANAGEMENT

Well Number: 11-26

Location: QtrQtr: NWNW Section: 26 Township: 3N 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: 40.201390

Longitude: -104.525860

GPS Data:

Date of Measurement: 09/13/2007

PDOP Reading: 2.0

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: 1800

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 | 6972 | 6982 | | | |
| NIOBRARA | 6732 | 6748 | | | |

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 | 763 | 420 | 763 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | 10.5 | 7,606 | 230 | 7,606 | 6,194 | CBL |
| | | | Stage Tool | 4,898 | 215 | 4,892 | 3,986 | CBL |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6682 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 <u>40</u> sks cmt from <u>5148</u> ft. to <u>4648</u> ft. | Plug Type: <u>CASING</u> | Plug Tagged: <input type="checkbox"/> |
| Set <u>255</u> sks cmt from <u>1915</u> ft. to <u>1500</u> ft. | Plug Type: <u>STUB PLUG</u> | Plug Tagged: <input type="checkbox"/> |
| Set <u>475</u> sks cmt from <u>963</u> ft. to <u>0</u> ft. | Plug Type: <u>OPEN HOLE</u> | Plug Tagged: <input type="checkbox"/> |
| Set _____ sks cmt from _____ ft. to _____ ft. | Plug Type: _____ | Plug Tagged: <input type="checkbox"/> |
| Set _____ sks cmt from _____ ft. to _____ ft. | Plug Type: _____ | Plug Tagged: <input type="checkbox"/> |

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. _____ inch casing Plugging Date: _____
of _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Waste Management 11-26 (05-123-25205)/Plugging Procedure (Intent)

Producing Formation: Niobrara/Codell: 6732'-6982'

Upper Pierre Aquifer: 610'-1680'

TD: 7626' PBD: 7361.5'

Surface Casing: 8 5/8" 24# @ 763' w/ 420 sxs cmt

Production Casing: 4 1/2" 10.5# @ 7606' w/ 230 sxs cmt (TOC @ 6194' - CBL).

2nd stage cement @ 4900' w/ 215 sxs cmt (TOC @ 3986' - CBL).

DV Tool @ 4898'

Tubing: 2 3/8" tubing set @ 6957' (1/18/2008).

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.

2. RU wireline company.

3. TIH with CIBP. Set BP at 6682'. Top with 2 sxs 15.8#/gal CI G cement.

4. TIH with tubing to 5148'. RU cementing company. Mix and pump 40 sxs 15.8#/gal CI G cement down tubing (DV Tool coverage from 5148'-4648'). TOOH with tubing.

5. TIH with casing cutter. Cut 4 1/2" casing at 1800'. Pull cut casing.

6. TIH with tubing to 1915'. Mix and pump 255 sxs 15.8#/gal CI G cement w/ 2% CaCl down tubing (Pierre coverage from 1915'-1500').

7. Pickup tubing to 963'. Mix and pump 475 sxs 15.8#/gal CL G cement down tubing. Cement should circulate to surface.

8. 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: Valerie Danson

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: 3/7/2019

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 9/6/2019

COA Type**Description**

| | |
|--|---|
| | 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Prior to placing the 963' 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 orders. 3) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 713' or shallower and provide 10 sx plug at the surface. 4) Leave at least 100' of cement in the wellbore for each plug. 5) Properly abandon flowlines per Rule 1105. File electronic Form 42 once abandonment is complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line, the operator must submit a Flowline Report, Form 44. |
| | Operator shall implement measures to control venting, to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare. |
| | If there has not been a reported Bradenhead test within 60 days of plugging this well, prior to starting plugging operations, a Bradenhead test shall be performed. 1) If, before opening the Bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. 3) If sampling is required contact COGCC engineering for a confirmation of plugging requirements prior to placing any plugs. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. The Form 17 shall be submitted within 10 days of the test. |

Attachment Check List**Att Doc Num****Name**

| | |
|-----------|-------------------------|
| 401875495 | FORM 6 INTENT SUBMITTED |
| 401875511 | WELLBORE DIAGRAM |
| 401875512 | WELLBORE DIAGRAM |
| 401875513 | GYRO SURVEY |

Total Attach: 4 Files

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

| | | |
|------------------------|---|------------|
| Engineer | 1) Deepest Water Well within 1 mile = 74'. 2) Fox Hills Bottom- 663', per SB5. | 03/07/2019 |
| Well File Verification | Pass | 12/24/2018 |
| Permit | Separated intervals on zones tab. Pass | 12/18/2018 |

Total: 3 comment(s)