

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



| | | | |
|-----------------------------------|----|----|----|
| DE | ET | OE | ES |
| Document Number: 401829946 | | | |
| 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: Montoya, John Tel: (970) 397-4124 Email: john.montoya@state.co.us | |
| COGCC contact: | |

| | |
|--|--|
| API Number 05-123-19475-00 | Well Number: 41-17 |
| Well Name: HOSHIKO | |
| Location: QtrQtr: NENE Section: 17 Township: 5N Range: 64W Meridian: 6 | |
| County: WELD | Federal, Indian or State Lease Number: 59398 |
| 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: 40.404440 | Longitude: -104.567170 |
| GPS Data: | |
| Date of Measurement: 08/22/2010 | PDOP Reading: 1.8 |
| 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: 1500 |
| 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 | 6846 | 6856 | | | |
| NIOBRARA | 6544 | 6674 | | | |
| 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 | 355 | 318 | 355 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | 9.3 | 7,074 | 174 | 7,074 | 6,125 | CBL |
| S.C. 1.1 | | | | 3,940 | 153 | 3,940 | 3,286 | CBL |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6494 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 250 sks cmt from 1615 ft. to 1200 ft. Plug Type: STUB PLUG Plug Tagged: ☐
Set 390 sks cmt from 600 ft. to 0 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 _____ 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:

Hoshiko 41-17 (05-123-19475)/Plugging Procedure (Intent)
Producing Formation: Codell: 6846'-6856' Niobrara: 6544'-6674'
Upper Pierre Aquifer: 330'-1320'
TD: 7097' PBD: 7017'

Surface Casing: 8 5/8" 24# @ 355' w/ 318 sxs cmt
Production Casing: 3 1/2" 9.3# @ 7074' w/ 174 sxs cmt (TOC @ 6125' - CBL).
2nd stage cement @ 3940' w/ 153 sxs (TOC @ 3286' - CBL).

Tubing: 1 1/2" tubing set @ 6832.3' (1/12/2018).

Proposed Procedure:

1. MIRU pulling unit. Pull 1 1/2" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6494'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with casing cutter. Cut 3 1/2" casing at 1500'. Pull cut casing.
5. TIH with tubing to 1615'. RU cementing company. Mix and pump 250 sxs 15.8#/gal CI G cement w/ 2% CaCl down tubing (Pierre coverage from 1615'-1200').
6. Pickup tubing to 600'. Mix and pump 390 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: 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 Check List

Att Doc Num

Name

| | |
|-----------|------------------|
| 401829968 | WELLBORE DIAGRAM |
| 401829970 | WELLBORE DIAGRAM |
| 401829972 | GYRO SURVEY |

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

| | | |
|--|--|---------------------|
| | | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)