

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:<br>401169409 |    |    |    |
| Date Received:<br>12/19/2016  |    |    |    |

## 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: Peterson, Tom Tel: (303) 815-9641 |                                    |
| COGCC contact: Email: tom.peterson@state.co.us                                |                                    |

|                                                                        |                                        |
|------------------------------------------------------------------------|----------------------------------------|
| API Number 05-123-22366-00                                             | Well Number: 30-33                     |
| Well Name: SHULTZ FARM                                                 |                                        |
| Location: QtrQtr: NWSE Section: 30 Township: 4N Range: 67W 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: 40.282530                                                                                                                                                                                | Longitude: -104.929860                                       |
| GPS Data:                                                                                                                                                                                          |                                                              |
| Date of Measurement: 07/29/2010                                                                                                                                                                    | PDOP Reading: 1.5 GPS Instrument Operator's Name: Steve Cure |
| 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: 613                                         |
| Fish in Hole: <input checked="" type="checkbox"/> Yes <input 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: Production Tubing: no recent record – Initial Completion (3/2005) indicates 238 jts 2 7/8" set at 7309.35', daily report from 11/2/2005 indicated tubing parted and fishing unsuccessful. |                                                              |

## Current and Previously Abandoned Zones

| Formation        | Perf. Top | Perf. Btm | Abandoned Date | Method of Isolation | Plug Depth |
|------------------|-----------|-----------|----------------|---------------------|------------|
| CODELL           | 7315      | 7325      |                |                     |            |
| NIOBRARA         | 7028      | 7179      |                |                     |            |
| 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              | 413           | 290          | 413        | 0          | VISU   |
| 1ST         | 7+7/8        | 4+1/2          | 11.6            | 7,479         | 480          | 7,479      | 3,670      | CBL    |

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7260 with 2 sacks cmt on top. CIBP #2: Depth 6953 with 2 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 230 sks cmt from 675 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 \_\_\_\_\_ 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. of \_\_\_\_\_ inch casing Plugging Date: \_\_\_\_\_

\*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:

Shultz Farm #30-33 (05-123-22366)/Plugging Procedure (Intent)

Producing formation: Niobrara/Codell

Existing Perforations: Niobrara/Codell - 7,028'-7,325'

TD: 7,479' PBD: 7,431'

Surface Casing: 8 5/8" 24# @ 413' w/ 290 sks cmt.

Production Casing: 4 1/2" 11.6# @ 7479' w/210 sks HLC Lead, 120 sx HLC middle cmt, 150 sx Tail cmt (TOC at 3,670').

Production Tubing: no recent record - Initial Completion (3/2005) indicates 238 jts 2 7/8" set at 7309.35', daily report from 11/2/2005 indicated tubing parted and fishing unsuccessful.

Proposed Procedure:

1. MIRU pulling unit.
2. Blow down to tanks. Load with fluid to kill well.
3. TOOH with production tubing or fish parted tubing as necessary.
4. Rig up wireline. RIH with CIBP. Set CIBP at 7,260'.
5. Load dump bailer with 2sx of 15.8#/gal CI G cement. TIH with dump bailer and spot on top of CIBP.
6. Rig up wireline. RIH with CIBP. Set CIBP at 6,953'.
7. Load dump bailer with 2sx of 15.8#/gal CI G cement. TIH with dump bailer and spot on top of CIBP.
8. RIH w/ casing cutter and cut casing at 613'. Pull casing out of hole.
9. TIH with workstring to 675'. Circulate and condition well in preparation to pump cement stub plug.
10. RU cementers. Mix and pump 675' of cement with 230 sks (5 sks in 62' cut tbg, 95 sks in 200' OH, 130 sks in 413' surface csg to surface) of 15.8#/gal
- CL G cement. Cement should circulate to surface.
11. 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

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: 12/29/2016

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 6/28/2017

**COA Type****Description**

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ol style="list-style-type: none"><li>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</li><li>2) For the 675' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be at 363' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the casing for each plug.</li><li>3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li><li>4) Prior to starting plugging operations a Bradenhead test shall be performed. If the beginning pressure is greater than 25 psi, or if pressure remains at the conclusion of the test, or if any liquids were present contact COGCC Engineering for sampling requirements. The Form 17 shall be submitted within 10 days of the test.</li></ol> |
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**Attachment Check List****Att Doc Num****Name**

|           |                         |
|-----------|-------------------------|
| 401169409 | FORM 6 INTENT SUBMITTED |
| 401169416 | WELLBORE DIAGRAM        |
| 401169417 | WELLBORE DIAGRAM        |

Total Attach: 3 Files

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

|             |                                         |            |
|-------------|-----------------------------------------|------------|
| Public Room | Document verification complete 12/21/16 | 12/21/2016 |
|-------------|-----------------------------------------|------------|

Total: 1 comment(s)