

FORM
6Rev
12/05

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:

401021675

Date Received:

04/05/2016

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: Gomez, Jason

Tel: (970) 573-1277

COGCC contact:

Email: jason.gomez@state.co.us

API Number 05-123-25025-00

Well Name: CHURCHILL

Well Number: 2-6B

Location: QtrQtr: NENW Section: 28 Township: 5N 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: 40.375760

Longitude: -104.557150

GPS Data:

Date of Measurement: 12/18/2007

PDOP Reading: 3.9

GPS Instrument Operator's Name: ROBERT THOMAS

Reason for Abandonment:

☐ Dry☒ Production Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☐ Yes☒ No

Estimated Depth:

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 | 6885 | 6896 | | | |
| NIOBRARA | 6582 | 6786 | | | |

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 | 452 | 300 | 452 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | 11.6 | 7,203 | 775 | 7,203 | 480 | CBL |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6532 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 65 sks cmt from 650 ft. to 0 ft. Plug Type: CASING Plug Tagged: ☐
Set 20 sks cmt from 20 ft. to 0 ft. Plug Type: ANNULUS 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:

Churchill 2-6B (05-123-25025)/Plugging Procedure (Intent)
Producing Formation: Niobrara 6582'-6786'
Plugged Back Formation: Codell 6885'-6896'
Existing CIBP: Set at 6875' with 2 sxs cement
TD: 7006' PBTD: 6852'
Surface Casing: 8 7/8" 24# @ 452' w/ 300 sks cmt
Production Casing: 4 1/2" 11.6# @ 7203' w/ 775 sks cmt (TOC 320' CBL).

Tubing: 2 7/8" 4.7# EUE set at 6567'. (6/16/2015)

Proposed Procedure:

1. MIRU RU pulling unit. Pull tubing.
2. RU wireline company. TIH with CIBP. Set bridge plug at 6540'. TIH with dump bailer. Spot 2 sxs cement on top of CIBP.
3. TIH with tubing to 650'.
4. Mix and pump a 65 sx balanced plug of 15.8#/gal CI G cement. Cement should circulate to surface.
5. Place an additional cement plug in surface casing annulus from 20' to surface.
6. 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: 4/5/2016 Email: Jenifer.Hakkarinen@pdce.com

Based on the information provided, this Well Abandonment Report (Form 6) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved:

Date: 4/22/2016

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 10/21/2016

COA Type

Description

| | |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Note changes to plugging procedure: 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Move planned CIBP at 6540', to 6532', to be between 50 and 10' above the top perforation in the Niobrara Formation. 3) For the 650' plug: pump plug and displace. If surface casing plug is not circulated to surface then tag plug – must be at 402' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the casing for each plug. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. |
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Attachment Check List

Att Doc Num

Name

| | |
|-----------|-------------------------|
| 401021675 | FORM 6 INTENT SUBMITTED |
| 401021687 | WELLBORE DIAGRAM |
| 401021689 | WELLBORE DIAGRAM |

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

| | | |
|-------------|-----------------------------------------|---------------------|
| Public Room | Document verification complete 04/07/16 | 4/7/2016 9:05:29 AM |
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Total: 1 comment(s)