

FORM

6

Rev  
11/20

# 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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Replug By Other Operator

Document Number:

402700141

Date Received:

05/26/2021

## 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: Santistevan, Brittani

Tel: (720) 471-1110

COGCC contact:

Email: brittani.santistevan@state.co.us

 Type of Well Abandonment Report: ☒ Notice of Intent to Abandon ☐ Subsequent Report of Abandonment

API Number 05-123-11434-00

Well Name: HOUGHTON

Well Number: 1

Location: QtrQtr: SESE Section: 6 Township: 6N Range: 66W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 55507

Field Name: EATON Field Number: 19350

### Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.511090 Longitude: -104.814370

GPS Data: GPS Quality Value: 1.7 Type of GPS Quality Value: PDOP Date of Measurement: 04/13/2021

Reason for Abandonment: ☐ Dry ☐ Production Sub-economic ☐ Mechanical Problems☒ Other This is a Re-Entry P&A for PDC's Wynkoop developmentCasing to be pulled: ☐ Yes ☒ No Estimated Depth:Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore 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	7331	7341	11/22/1993	B PLUG CEMENT TOP	7300

Total: 1 zone(s)

### Casing History

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J55	24	0	300	260	300	0	VISU
1ST	7+7/8	4+1/2	J55	11.6	0	7300	245	7300	6454	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 237 sks cmt from 3500 ft. to 3000 ft. Plug Type: OPEN HOLE Plug Tagged: ☒  
Set 100 sks cmt from 1540 ft. to 1340 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 395 sacks half in. half out surface casing from 625 ft. to 0 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

Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_ Number of Days from Setting Surface Plug to Capping or Sealing the Well: \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_

\*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

Houghton 1 (05-123-11434)/Re-Enter to Re-Plug Procedure (Intent)  
Abandoned Formation: Codell: 7331'-7341'

Upper Pierre Aquifer: 400'-1440'

Deepest Water Well: 525'

TD: 7425'

Surface Casing: 8 5/8" 24# @ 300' w/ 260 sxs cmt

Open Hole: 7 7/8" @ 6360'-300'

Production Casing: 4 1/2" 11.6# @ 7300' w/ unknown amnt sxs cmt (TOC @ 6454' – Wireline Invoice)  
Existing CIBP @ 7300 w/ 2 sxs cmt (11/22/1993)

Existing Cement Plugs: 6360'-6286' (35 sxs), 350'-230' (45 sxs), 32' to Surface (10 sx)

**Proposed Procedure:**

1. Dig out to find wellhead and check pressure.
2. Cut cap off, extend surface pipe to achieve ground level.
3. MIRU WO unit, ND wellhead, NU BOP, tally all pipe to be ran in well.
4. Mill cement, cement btm of surface shoe plug is approximately 350' according to well history data.
5. Wash run down and tag stub plug @ 6286' or depth that well allows.
6. TIH with tubing to 3500'. RU cementing company. Mix and pump 237 sxs 15.8#/gal CI G cement down tubing (Coverage from 3500'-3000').
  - a. If stub plug is not tagged in Step 5, wait 4 hours and tag this plug.
7. TIH with tubing to 1540'. Mix and pump 100 sxs 15.8#/gal CI G cement down tubing (Pierre Aquifer coverage from 1540'-1340'). PU tubing above plug and SI well.
  - a. Wait 4 hours and tag plug.
8. TIH with tubing to 625'. Mix and pump 395 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
9. RDMO WO unit. Remove extension of surface pipe.
10. Weld on cap with ID plate, inscribed with well location, and identity. Backfill, clean location. Re-Entry complete.

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  
Title: Reg Tech Date: 5/26/2021 Email: valerie.danson@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: JENKINS, STEVE Date: 6/9/2021

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 12/8/2021

### **Condition of Approval**

#### **COA Type**

#### **Description**

	<p>1. Prior to commencing operations, the operator will provide the HOA and Town of Severance an informational sheet that will include the operator's contact information and describes the nature, timing, and duration of the plugging and abandonment activities.</p> <p>2. Prior to commencing operations, at a minimum, the operator will provide an informational sheet to the Building Units (BUs) that are adjacent to the parcel on which the well is located. The sheet will include the operator's contact information and the nature and timing of the P&amp;A operations.</p>
	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.
	<p>1) Provide 48 hours notice of plugging MIRU via electronic Form 42.</p> <p>2) After placing the shallowest hydrocarbon isolating plug (1540'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.</p> <p>3) Prior to placing the 625' plug: verify that all fluid migration (liquid and gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.</p> <p>4) 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 250' or shallower and provide 10 sx plug at the surface.</p> <p>5) Leave at least 100' of cement in the wellbore for each plug.</p> <p>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p>

3 COAs

### **Attachment List**

#### **Att Doc Num**

#### **Name**

402700141	FORM 6 INTENT SUBMITTED
402700154	WELLBORE DIAGRAM
402700155	WELLBORE DIAGRAM
402700156	LOCATION PHOTO
402700158	SURFACE OWNER CONSENT
402700159	SURFACE OWNER CONSENT
402700160	SURFACE OWNER CONSENT

Total Attach: 7 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Verified as-drilled GPS. Verified perf zone. Production reporting prior to 1999; unverified. Permitting review complete.	05/28/2021
Engineer	1) Deepest Water Well within 1 mile = 575'. 2) Fox Hills Bottom- N/A, per SB5.	05/28/2021
Engineer	In accordance with the Notice to Operators (NTO): Timing for COGCC Forms adopted on 05/01/2020, this Form 6 Notice of Intent to Abandon is valid for 12 months from the date of approval expiring on 5/28/2022. This NTO does not alter the deadlines for submission of, or compliance with any other Commission rule or Form.	05/28/2021

Total: 3 comment(s)