

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



DE

ET

OE

ES

Replug By Other Operator

Document Number:

402700141

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: 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		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: _____ 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: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: _____

COA Type **Description**

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Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402700154	WELLBORE DIAGRAM
402700155	WELLBORE DIAGRAM
402700156	LOCATION PHOTO
402700158	SURFACE OWNER CONSENT
402700159	SURFACE OWNER CONSENT
402700160	SURFACE OWNER CONSENT

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Submit tab procedures and Plugging Procedure tab information doesn't match, emailed Valerie. Return to draft for operator corrections.	05/26/2021

Total: 1 comment(s)