

FORM  
6Rev  
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:

403206852

Date Received:

10/25/2022

## 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: Medina, Justin

Tel: (720) 471-0006

COGCC contact:

Email: justin.medina@state.co.us

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

API Number 05-001-06664-00

Well Name: WIGGETT

Well Number: 1

Location: QtrQtr: NENE Section: 22 Township: 1S Range: 67W Meridian: 6

County: ADAMS

Federal, Indian or State Lease Number:

Field Name: WATTENBERG

Field Number: 90750

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

Latitude: 39.954950

Longitude: -104.868950

GPS Data: GPS Quality Value: 1.1 Type of GPS Quality Value: PDOP Date of Measurement: 10/14/2022

Reason for Abandonment: ☐ Dry ☐ Production Sub-economic ☐ Mechanical Problems☒ Other Re-enter to Re-plug for PDC's GUS 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
J SAND	8274	8284	05/21/1999	CEMENT	8235

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	23	0	215	160	215	0	VISU
1ST	7+7/8	4+1/2	J55	15.1	0	8342	200	8342	7322	CALC
				Stage Tool		1198	200	1198	440	CBL

## 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	10	sks cmt from	5364	ft. to	5221	ft.	Plug Type:	CASING	Plug Tagged:	<input type="checkbox"/>
Set	10	sks cmt from	4614	ft. to	4471	ft.	Plug Type:	CASING	Plug Tagged:	<input type="checkbox"/>
Set	10	sks cmt from	2014	ft. to	1871	ft.	Plug Type:	CASING	Plug Tagged:	<input type="checkbox"/>
Set		sks cmt from		ft. to		ft.	Plug Type:		Plug Tagged:	<input type="checkbox"/>
Set		sks cmt from		ft. to		ft.	Plug Type:		Plug Tagged:	<input type="checkbox"/>

Perforate and squeeze at 5650 ft. with 106 sacks. Leave at least 100 ft. in casing 5365 CICR Depth

Perforate and squeeze at 4900 ft. with 106 sacks. Leave at least 100 ft. in casing 4615 CICR Depth

Perforate and squeeze at 2300 ft. with 106 sacks. Leave at least 100 ft. in casing 2015 CICR Depth

(Cast Iron Cement Retainer Depth)

Set 83 sacks half in. half out surface casing from 1198 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:

Wiggett 1 (05-001-06664)/Re-Enter to Re-Plug Procedure (Intent)  
Abandoned Formation: J-Sand: 8274'-8284' (AB - 5/21/1999)

Upper Pierre Aquifer Base: 2127'

Deepest Water Well: 1190'

TD: 8350' PBD: 8308' (4/30/1973)

Surface Casing: 8 5/8" 23# @ 215' w/ 160 sxs cmt

Production Casing: 4 1/2" 15.1# @ 8342' w/ 200 sxs (TOC @ 7322' - CALC)

DV Tool @ 1106' w/ 200 sxs @ 1198' (TOC @ 440' - CBL)

Tubing Fish: 1 1/4" Tubing @ 7469'-5700' (Stuck during plugging ops)

Existing Cement Plugs: 8235'-7967' (20 sxs cmt), 461'-200' (15 sxs cmt), 185'-Surface (13 sxs cmt), Surface squeeze @ 185' (52 sxs cmt)

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 for 1st plug is approximately 185', cement btm for 2nd plug is approximately 461' according to well history data.
5. TIH to 487' (tight spot), mill through tight spot. TIH to 5700', tag tbg fish.
6. RU wireline company.
7. Run a CBL from 1300' to surface, verify bond of DV tool and plugging squeeze.
8. TIH with perf gun. Shoot lower squeeze holes at 5650' and upper squeeze holes at 5350'.
9. TIH with CICR. Set CICR at 5365'. RU cementing company. Sting in and pump 116 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 116 sxs) cement on top of CICR.
10. TIH with perf gun. Shoot lower squeeze holes at 4900' and upper squeeze holes at 4600'.
11. TIH with CICR. Set CICR at 4615'. RU cementing company. Sting in and pump 116 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 116 sxs) cement on top of CICR.
12. TIH with perf gun. Shoot lower squeeze holes at 2300' and upper squeeze holes at 2000'.
13. TIH with CICR. Set CICR at 2015'. RU cementing company. Sting in and pump 116 sxs 15.8#/gal CI G cement. Sting out and leave 10 sxs (of the 116 sxs) cement on top of CICR.
14. Pick up tubing to 1198'. Mix and pump 83 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
15. 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 Analyst Date: 10/25/2022 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: Jacobson, Eric Date: 10/31/2022

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 4/29/2023

<b>COA Type</b>	<b>Description</b>
	Prior to commencing operations, the operator will post signs in conspicuous locations at intersections that will remain in place throughout the duration of the plug and abandonment activities. The signs will indicate plugging and abandonment operations are being conducted, the well name, well, and the applicable contact information. Signs will be placed so as not to create a potential traffic hazard.
	Due to proximity of plugging and abandonment (P&A) operations to BUs, operator will comply with Table 423 Maximum Permissible Noise Levels for residential land use. Prior to initiating work, operator will install temporary sound walls, straw bales, or other BMPs to dampen noise if necessary for compliance.
	Operator will implement measures to capture, combust, or control emissions 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 health, welfare and the environment. Due to the proximity of building units (BUs) all blowdown gasses will be controlled.
	1) Provide electronic Form 42 Notice of MIRU 2 business days ahead of operations and electronic Form 42 Notice of Plugging Operations 48 hours prior to mobilizing for plugging operations. 2) Prior to placing the 1198' plug: verify that all fluid (liquid and gas) migration has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders. 3) After isolation has been verified, pump surface casing shoe plug. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 165' or shallower and provide 10 sx plug at the surface. 4) Leave at least 100' of cement in the wellbore for each plug without mechanical isolation. 5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA listed above has been addressed.
4 COAs	

### **Attachment List**

<b>Att Doc Num</b>	<b>Name</b>
403206852	FORM 6 INTENT SUBMITTED
403207515	WELLBORE DIAGRAM
403207516	WELLBORE DIAGRAM
403207518	LOCATION PHOTO
403207520	SURFACE OWNER CONSENT

Total Attach: 5 Files

### **General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
OGLA	OGLA Review complete.	10/28/2022
Engineer	Well file verification not completed prior to approval of NOIA.	10/27/2022
Engineer	Deepest Water Well within 1 Mile – 1190' SB5 Base of Fox Hills - 1107' SB5 Base of Lower Arapahoe - 340'	10/27/2022
Permit	Confirmed as-drilled well location. No other forms in process. Confirmed productive interval docnum: 813461. Reviewed attachments. Pass.	10/25/2022

Total: 4 comment(s)