

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.

Document Number:
 403206852
 Date Received:
 10/25/2022

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 development
 Casing 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
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:
Set 10 sks cmt from 4614 ft. to 4471 ft. Plug Type: CASING Plug Tagged:
Set 10 sks cmt from 2014 ft. to 1871 ft. Plug Type: CASING 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 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

COA Type	Description
	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

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

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
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)