

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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Document Number:

402583738

Date Received:

02/19/2021

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: 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: Serna, Abe

Tel: (720) 661-7317

COGCC contact:

Email: abe.serna@state.co.us

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

API Number 05-123-26226-00

Well Name: PESCHEL

Well Number: 5-20

Location: QtrQtr: SWSW Section: 20 Township: 4N Range: 65W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

Field Name: WATTENBERG

Field Number: 90750

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.294210

Longitude: -104.693000

GPS Data: GPS Quality Value: 2.9 Type of GPS Quality Value: PDOP Date of Measurement: 03/20/2009

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes ☐ No Estimated Depth: 800Fish 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	7225	7242			

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	J-55	24	0	539	380	539	0	VISU
1ST	7+7/8	4+1/2	J-55	11.6	0	7455	655	7455	940	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7175 with 2 sacks cmt on top. CIBP #2: Depth 6880 with 2 sacks cmt on top.
 CIBP #3: Depth 4350 with 2 sacks cmt on top. CIBP #4: Depth 2500 with 2 sacks cmt on top.
 CIBP #5: Depth _____ with _____ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set 290 sks cmt from 850 ft. to 0 ft. Plug Type: STUB PLUG 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: ☐
 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 Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____
 Surface Plug Setting Date: _____ Cut and Cap Date: _____
 *Wireline Contractor: _____ *Cementing Contractor: _____
 Type of Cement and Additives Used: _____
 Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

Peschel 5-20 (05-123-26226)/Plugging Procedure (Intent)
 SPUD Date: 10/29/2008
 Producing Formation: Codell: 7225'-7242'
 Deepest Water Well: 300'
 Upper Pierre Aquifer: 550'-1510'
 TD: 7456' PBTD: 7344'
 Surface Casing: 8 5/8" 24# @ 539' w/ 380 sxs cmt
 Production Casing: 4 1/2" 11.6# @ 7455' w/ 655 sxs cmt (TOC @ 940' - CBL)

Tubing: 2 3/8" tubing set @ 7211' 1/18/2016

Proposed Procedure:

1. MIRU. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 7175'. Top with 2 sxs 15.8#/gal CI G cement. (Top Perf Codell @ 7225')
4. TIH with CIBP. Set BP at 6880'. Top with 2 sxs 15.8#/gal CI G cement. (Top Nio Form @ 6930')
5. TIH with CIBP. Set BP at 4350'. Top with 2 sxs 15.8#/gal CI G cement. (Sussex Form @ 4402')
6. TIH with CIBP. Set BP at 2500'. Top with 2 sxs 15.8#/gal CI G cement. (Courtesy Plug @ 2500')
7. TIH with casing cutter. Cut 4 1/2" casing @ 800'. Pull cut casing.
8. Pick up with tubing to 850'. Mix and pump 290 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
9. Wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or fluid migration, contact engineering before continuing operations.
10. 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: <u>Jenifer Hakkarinen</u>	
Title: <u>Reg TEch</u>	Date: <u>2/19/2021</u>	Email: <u>Jenifer.Hakkarinen@pdce.com</u>	

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: McFarland, Nick Date: 2/22/2021

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 8/21/2021

COA Type	Description
	<p>Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.</p> <p>1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p> <p>If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.</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.
	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 2/22/2022. This NTO does not alter the deadlines for submission of, or compliance with any other Commission rule or Form.
	<p>1) Provide 2 business day notice of plugging MIRU via electronic Form 42.</p> <p>2) After placing the shallowest hydrocarbon isolating plug (4350'), 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 850' 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 489' 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) Properly abandon flowlines per Rule 1105. File electronic Form 42 once abandonment of on-location flowlines is complete. Within 90 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44.</p> <p>7) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p>

Attachment List

Att Doc Num	Name
402583738	FORM 6 INTENT SUBMITTED
402583749	WELLBORE DIAGRAM
402583750	WELLBORE DIAGRAM
402604830	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Returned to Draft: Missing Sussex plug.	02/01/2021
Engineer	Most recent bradenhead test 4/16/20 - 0 psi. Producing as of November 2020. SB5 Base of Fox Hills Aquifer: 371' Deepest water well within 1 mile: 300' # of wells: 34 Base of Upper Pierre: 1510' - Induction log Production within one mile: JSND, CODL, NBRR, SUSX	02/01/2021
Permit	Verified as-drilled GPS. Verified perf zone. Verified production reporting. Permitting review complete.	01/29/2021

Total: 3 comment(s)