



COGCC Rule 502.b
Variance Request for
1001.c Surface Owner Waiver

Location: Pat and Mike - 65N65W 9NWNE

Location ID: 333340

Tank Battery Facility ID: 447129

Well Name: Pat and Mike 2-9

API #: 05-123-14269

Well Name: Pat and Mike 6 LL

API #: 05-123-24423

Well Name: WFH 5

API #: 05-123- 27058

Prepared for:
PDC Energy Inc.

Prepared by:
Duraroot, LLC

Date:
June 2020



June 26, 2020

Director Jeff Robbins
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203

RE: COGCC Rule 502.b Variance Request for 1001.c Surface Owner Waiver
Location: Pat and Mike-65N65W #9NWNE
Location ID: 333340 Tank Battery Facility ID: 447129
Well Name: Pat and Mike 2-9 API #: 05-123-14269
Well Name: Pat and Mike 6 LL API #: 05-123-24423
Well Name: WFH 5 API #: 05-123-27058
Section 9: NWNE, Township 5 North, Range 65 West, 6th P.M.
Weld County, Colorado

Dear Director Robbins,

PDC Energy, Inc. (PDC) has obtained a surface owner waiver under Rule 1001.c for final reclamation of the former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery. PDC has plugged and abandoned (P&A) all wellheads, abandoned all flowlines, and removed all associated well and production facility equipment and debris from the site in accordance with the requirements of Rule 1004.a. In agreement with the surface owner's Final Reclamation Agreement (see Attachment A) and due to the surface owner's plans to mine the location in the future, PDC requests your approval for a variance from the requirements of:

- Rule 1004.a,
- Rule 1004.c (2 and 3),
- Rule 1004.d, and
- Rule 1004.e,

pursuant to Rule 1001.c., to waive surface reclamation requirements on the former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery. For the purpose of this request, waived reclamation requirements include revegetation of the surface, implementation of further weed control and stormwater management on the location, and reclamation of existing roads serving the location.

Furthermore, the facility was constructed on active gravel mining operations and the surface owner (Varra Companies Inc) intends to accept responsibility for stormwater management and weed control upon approval of this variance request. Under these circumstances, Varra waives the Rule 1004 requirements that PDC revegetate the location, implement further weed control and stormwater management at the location, and reclaim existing roads serving the location. PDC and Varra also request that the Commission promptly conduct a final reclamation inspection and submit a Field Inspection Form confirming that final reclamation at the location is complete subject to the requested variance.

The documents attached to this letter for the former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery were developed in accordance with the December 17, 2019, version of

the Colorado Oil and Gas Conservation Commission's (COGCC's) Rule 1001.c: Surface Owner Waiver for Final Reclamation guidance document (Operator Guidance Document).

Attachment A: Executed Final Reclamation Agreement

Attachment A is a signed and executed agreement that PDC has entered with the surface owner (Varra Companies Inc) regarding the location's final reclamation status and the request to forgo reclamation efforts on the well and facility pad surface. Attachment A, along with Exhibit A, fulfills the four (4) requirements listed in Sections 3.1, 3.3, 3.4, and 3.8 of the Guidance Document.

Attachment B: Operator Demonstration

Attachment B, along with all figures and Exhibits A and B, fulfills the requirements of Sections 3.5 and 3.6 of the Guidance Document to waive compliance with specified provisions of Rule 1004, via a Variance. Attachment B contains the required supporting documentation to demonstrate that granting this final reclamation variance for applicable requirements of Rule 1004 will not negatively impact public health, public safety, public welfare, the environment, or wildlife.

PDC has made a good faith effort to provide the necessary information and evidence requested in the December 17, 2019, version of the COGCC Rule 1001.c: Surface Owner Waiver for Final Reclamation guidance document for the Director to evaluate our request for waiving specified provisions of Rule 1004 to fulfill the surface owner's request for final reclamation.

If you have any questions or concerns about PDC's variance request, please do not hesitate to contact me.

Sincerely,



Phillip Porter
Senior Environmental Representative – Wattenberg
PDC Energy, Inc.

Attachments:

Attachment A: Executed Final Reclamation Agreement
Attachment B: Operator Demonstration
Exhibit A: Facility Photos and Aerial Imagery
Exhibit B: Well Abandonment - Subsequent Form 6

Attachment A:
Executed Final Reclamation Agreement



District Office
4000 Burlington Avenue
Evans, CO 80620
970-506-9272
www.pdce.com

December 12, 2018

Varra Companies Inc.
Garrett Varra
8120 Gage St.
Frederick CO 80516-9439

Re: **Final Reclamation Agreement**

Well(s): WFH 5 (API# 05-123-27058), Pat & Mike 6LL (API# 05-123-24423), Pat & Mike 2-9 (API# 05-123-14269), M&M 4-10 (API# 05-123-13225), Mel & Blanche 1/M&M 3-10 (API# 05-123-13903) , Walter D 5-10 (API# 05-123-13915), Mel & Blanch 5 (API# 05-123-27057), M&M 4-10/ Nacomi (API# 05-123-13917), DRJ 6 LL (API# 05-123-25092), M&M 6-10/DRJ (API# 05-123-13671), Emily 7-10 (API# 05-123-14568), Bonnertz 1 (API# 05-123-12598) *table with corresponding facility IDs attached*

Township 5 North, Range 65 West, 6th P.M.
Section(s) 9&10: NE & NW
Weld County, Colorado

Dear Garrett Varra (Varra Companies) (the "Surface Owner"):

PDC Energy, Inc. ("PDC") has previously consulted with you concerning the final reclamation of the above-captioned well(s) in accordance with your direction concerning future use of the land and applicable rules of the Colorado Oil and Gas Conservation Commission ("COGCC"). The well(s) were plugged and abandoned on August 2018 and PDC has removed all associated well and production facility equipment from the site(s). Pursuant to COGCC Rule 1001.c, PDC and the Surface Owner, agree to enter into this Final Reclamation Agreement in order to set forth the respective rights and responsibilities of the parties, and to seek COGCC's waiver of compliance with certain 1000-series rules.

The specific portions of the oil and gas location, see attached maps labeled as Exhibit A (the "Location") subject to this Final Reclamation Agreement and waiver include:

- Production facility, associated wells and respective access roads are within mining operational areas.

The reasons for Surface Owner entering into this Final Reclamation Agreement and thereby waiving PDC's obligations for additional reclamation required under COGCC Rule 1004 at the Location include:



District Office
4000 Burlington Avenue
Evans, CO 80620
970-506-9272
www.pdce.com

- Oil and Gas operations for PDC Energy were on Varra Companies (Varra) active gravel mining operations. Varra has plans to mine at all the wells, production facilities and access road locations in the near future.
- The locations are within Varra Companies storm water permit boundaries.
- Varra will accept responsibility for weed control.

As the Surface Owner, you acknowledge that the current condition of the property subject to this Final Reclamation Agreement, and is satisfactory to you. If applicable, you acknowledge responsibility of topsoil protection. Additionally, by executing this letter below, as the Surface Owner, you also acknowledge that you knowingly, and forever, waive all reclamation protections otherwise afforded by COGCC Rule 1004 and that you will assume responsibility for any further reclamation activities you wish to have undertaken at these sites. Provided however, PDC must comply with all final reclamation requirements under the Rule 1000-series that may not be waived by Surface Owner including COGCC Rule 1004.c.(4-5).

If this Final Reclamation Agreement correctly reflects your agreement, please sign, date, and have your signature notarized on both originals of this letter, keep one for your files and return one to the undersigned.

Please be aware that although you have signed this Final Reclamation Agreement and PDC subsequently submits a reclamation variance request, the COGCC may deny such request and PDC will then be required to complete all final reclamation in accordance with the COGCC 1000 Series rules. PDC is responsible for surface stabilization, stormwater management, and weed control until the variance request is approved.

Thank you for your time and consideration in this matter. If you have any questions or comments, please contact me at (720) 556-4950.

Respectfully,

Greg Wilson
Agent to PDC Energy, Inc.

I acknowledge and agree as set forth above.

Varra Companies
Garrett Varra

Signed: Garrett Varra
Garrett Varra

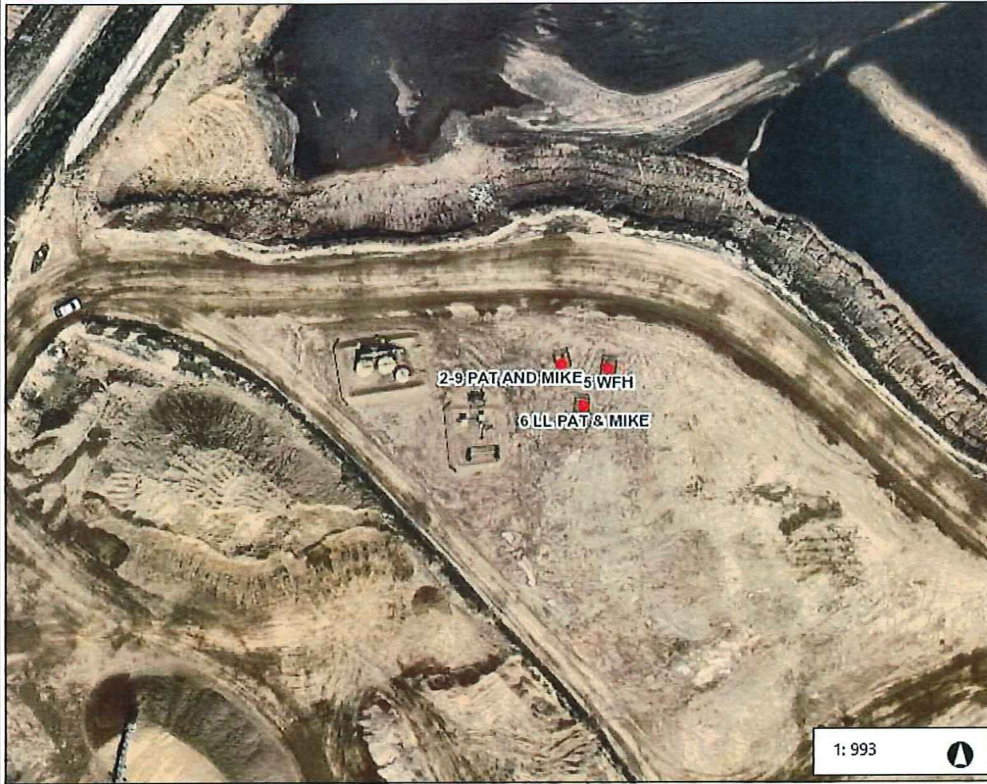
Date: 12/17/18

Wells and Corresponding Facility ID #s

Well Name	API	Tank Battery Facility ID
WFH 5	05-123-27058	447129
Pat & Mike 6LL	05-123-24423	447129
Pat & Mike 2-9	05-123-14269	477129
M & M 4-10	05-123-13225	446709
Mel & Blanche 1 (M&M 3-10)	05-123-13903	446675
Walter D 5-10	05-123-13915	447117
Mel & Blanche 5	05-123-27057	447117
3#3 Nacami (M & M 2-10)	05-123-13917	447157
DRJ 6LL	05-123-25092	447108
M&M (DRJ) 6-10	05-123-13671	447108
Emily 7-10	05-123-14568	446737
Bonertz 1	05-123-12598	435339

Exhibit A





Legend

- Parcels
- Well Name Label
- COGCC Oil and Gas Wells
 - Producing
 - Abandoned Location
 - Plugged and Abandoned
 - Permit
 - Dry and Abandoned
 - Drilling
 - Shut-in
 - Injection
 - Waiting on Completion
 - Temporarily Abandoned
 - Active Well
 - Other
- Highway
- County Boundary

1:993



Notes

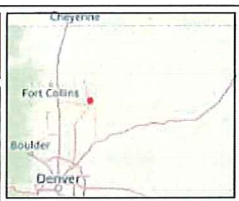
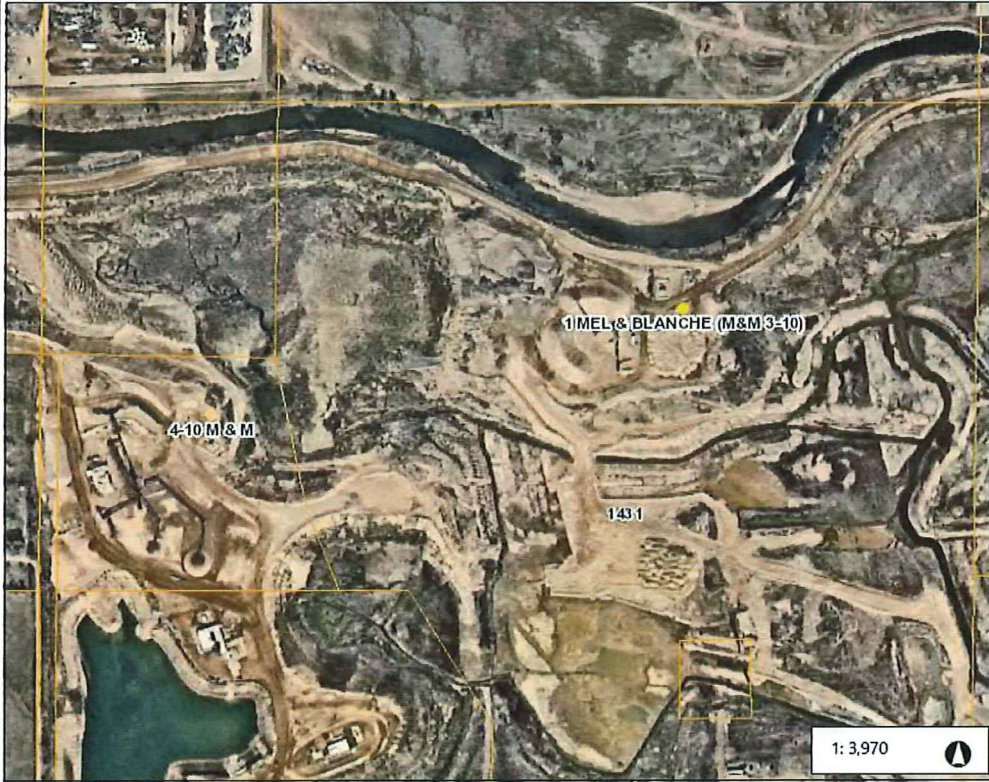
WFH 5, Pat & Mike 6LL, Pat & Mike 2-9

165.4 0 82.72 165.4 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Weld County Colorado

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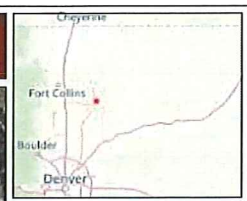
Legend

- ▭ Parcels
- Well Name Label
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 - Producing
 - Abandoned Location
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 - Permit
 - Dry and Abandoned
 - Drilling
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 - Temporarily Abandoned
 - Active Well
 - Other
- Highway
- ▭ County Boundary

Notes
M&M 4-10, Mel & Blanche 5

661.7 0 330.87 661.7 Feet
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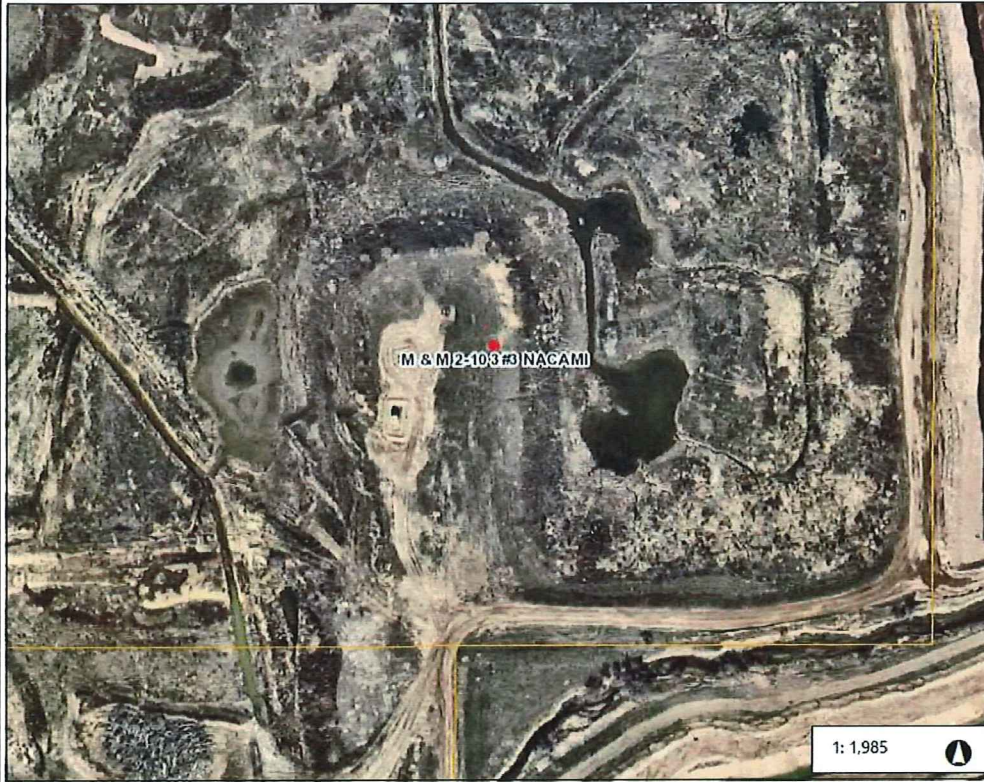
Legend

- Parcels
- Well Name Label
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 - Drilling
 - Shut-in
 - Injection
 - Waiting on Completion
 - Temporarily Abandoned
 - Active Well
 - Other
- Highway
- County Boundary

Notes
5 Mel & Blanche, Walter D 5-10

3309 0 165.43 330.9 Feet
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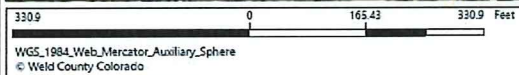


Legend

- Parcels
- Well Name Label
- COGCC Oil and Gas Wells
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 - Abandoned Location
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 - Drilling
 - Shut-in
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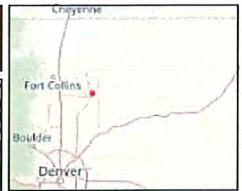
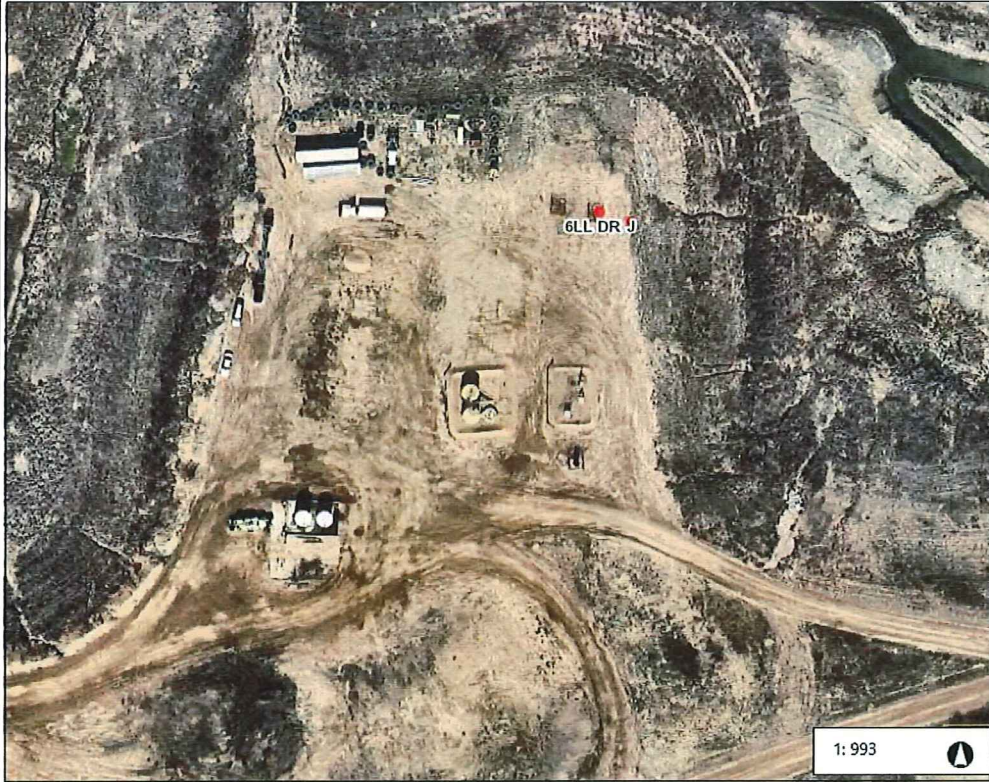
1: 1,985

Notes
Nacomi(M&M 2-10)



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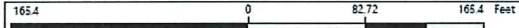
THIS MAP IS NOT TO BE USED FOR NAVIGATION



Legend

- Parcels
- Well Name Label**
- COGCC Oil and Gas Wells**
- Producing
- Abandoned Location
- Plugged and Abandoned
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- Dry and Abandoned
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- Injection
- Waiting on Completion
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- Active Well
- Other
- Highway
- County Boundary

1: 993



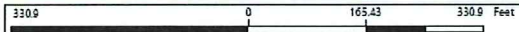
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Notes
6LL Dr J, M&M DrJ 6-10

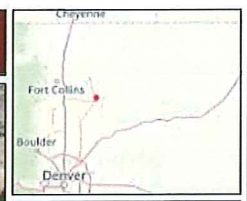


1: 1,985



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Legend

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Notes
Emily 7-10



Legend

- Parcels
- Well Name Label
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1: 1,985

330.9 0 165.43 330.9 Feet

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Notes

Bonertz: 1

Attachment B:
Operator Demonstration

Attachment B



June 26, 2020

RE: Operator Demonstration for:

Location: Pat and Mike-65N65W #9NWNE

Location ID: 333340

Tank Battery Facility ID: 447129

Well Name: Pat and Mike 2-9

API #: 05-123-14269

Well Name: Pat and Mike 6 LL

API #: 05-123-24423

Well Name: WFH 5

API #: 05-123-27058

Section 9: NWNE, Township 5 North, Range 65 West, 6th P.M.

Weld County, Colorado

The information below addresses the requirements detailed in Sections 3.5 and 3.6 of the Colorado Oil and Gas Conservation Commission's (COGCCs) Rule 1001.c: Surface Owner Waiver for Final Reclamation guidance document (Operator Guidance Document) dated December 17, 2019. Sections 3.5 and 3.6 of the Guidance Document outlines the evaluation of whether public health, safety, and welfare are protected and how significant adverse environmental impacts are prevented if specified provisions of Rule 1004 are waived, via a Variance.

1 – Evidence that all wells on the location have been Plugged and Abandoned (P&A) and that a Form 6 subsequent was submitted for each well.

PDC Energy, Inc. (PDC) certifies that the former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells (Location ID: 333340) have been P&A as per the COGCC Rules and the Form 6 Subsequent has been submitted and approved (Exhibit B: Document Numbers 401775996, 401778080, and 402042177).

2 – Evidence that all oil and gas equipment has been removed, including flowline and gathering risers.

PDC certifies that all oil and gas equipment, including flowline and gathering risers, has been removed from the location where the final reclamation variance is being requested. Exhibit A consists of facility photos taken on January 17, 2020, that demonstrate all equipment has been removed.

3 – Evidence that all trash and debris belonging to the operator or its agents has been removed.

PDC certifies that all trash and debris belonging to PDC or any of our contractors or agents has been removed from the location where the final reclamation variance is being requested. Exhibit A consists of facility photos taken on January 17, 2020, that demonstrate all trash and debris has been removed.

4 – Evidence that noxious weeds have been controlled as required by Rule 1004.

PDC certifies that noxious weeds have been controlled and/or removed from the location and will be managed by PDC until approval of this final reclamation variance. Exhibit A consists of facility photos taken on January 17, 2020, that demonstrate noxious weed control on the location.

5 – Documentation of Good Faith Surface Owner Consultation regarding final reclamation pursuant to Rule 306.f.

Attachment A, accompanied by Exhibit A, provides the “Final Reclamation Agreement” provided to and signed by the surface owner (Mr. Garrett Varra - Varra Companies Inc) on December 17, 2018, for the former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery documenting good faith consultation with the surface owner.

6 – Documentation of existing state of reclamation.

PDC certifies that the location has been reclaimed in accordance with the request of the surface owner (see Attachment A). The surface owner waived the requirement that PDC reclaim the surface in accordance with Rule 1004.a. P&A for the Pat and Mike 2-9 wellhead was finalized on September 6, 2018. P&A for the Pat and Mike 6 LL wellhead was finalized on August 30, 2018. P&A for the WFH 5 wellhead was finalized on April 15, 2019. All associated well and production facility equipment have been removed and flowlines have been abandoned. Exhibit A consists of facility photos taken on January 17, 2020, that demonstrate the existing state of reclamation on the Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery.

7 – Evidence that site is stabilized, and stormwater management is adequate pending COGCC’s final sign-off reclamation inspection.

The former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery are located on an active gravel mine that is required to comply with general stormwater permit requirements and provide stormwater management for operations. The facility location and surrounding area are covered under the surface owner’s current stormwater permit.

PDC will maintain the location to ensure proper stabilization and stormwater management until this variance is approved and all conditions of approval are fulfilled. Exhibit A consists of facility photos taken on January 17, 2020, that demonstrate current site conditions, including adequate site stabilization and stormwater management.

8 – Operator analysis of protection of public health, safety, and welfare; and prevention of significant adverse environmental impacts.

PDC has evaluated potential impacts to public health, safety, and welfare as well as potential significant adverse environmental impacts to this final reclamation variance to Rule 1004 [except Rules 1004.c.(4) and 1004.c.(5)]. Based on the explanation below, PDC has determined that a variance from the applicable requirements of Rule 1004 for the former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery (Location ID: 333340) would have NO NEGATIVE IMPACTS on public health, public safety, public welfare, environment, or wildlife.

Public Health Analysis

The specified final reclamation variance request from Rule 1004 is minor and with COGCC approval will maintain protection of public health. The former Pat and Mike 2-9 (40.41903, -104.66561), Pat and Mike 6 LL (40.41895, -104.66555), and WFH 5 (40.41902, -104.66550) wellheads have been properly P&A (see Exhibits A and B), flowlines have been properly abandoned, and all facility equipment and debris have been removed. Furthermore, according to the "Surface Owners" COGCC GIS mapping layer, does not require any consultations with the Colorado Department of Public Health and Environment (CDPHE) or Colorado's Division of Water Resources (DWR).

Public Safety Analysis

The specified final reclamation variance request from Rule 1004 is minor and will maintain protection of public safety. The former facility is on private property of limited, monitored access. The property is an active gravel mine and the surface and surrounding area are used for active mining operations. The former Pat and Mike 2-9 (40.41903, -104.66561), Pat and Mike 6 LL (40.41895, -104.66555), and WFH 5 (40.41902, -104.66550) wellheads have been properly P&A (see Exhibits A and B), flowlines have been properly abandoned, and all facility equipment and debris have been removed. The tank battery has been decommissioned and all equipment removed.

Public Welfare Analysis

The specified final reclamation variances requested from Rule 1004 are minor requests that maintain the protection of public welfare. The location is on private property of limited, monitored access and will eventually undergo surface disturbance activities during future mining operations by the surface owner. The location is zoned "Agricultural" by Weld County and Weld County has approved the mine as an appropriate land use.

Environment

The former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery do not fall within a Rule 317B Public Water System Protection area, according to the COGCC GIS “PWS 317B” mapping layer. The former Pat and Mike location is approximately 572 feet from the nearest surface water according to several COGCC GIS “Water Resources” mapping layers (Figure 1).

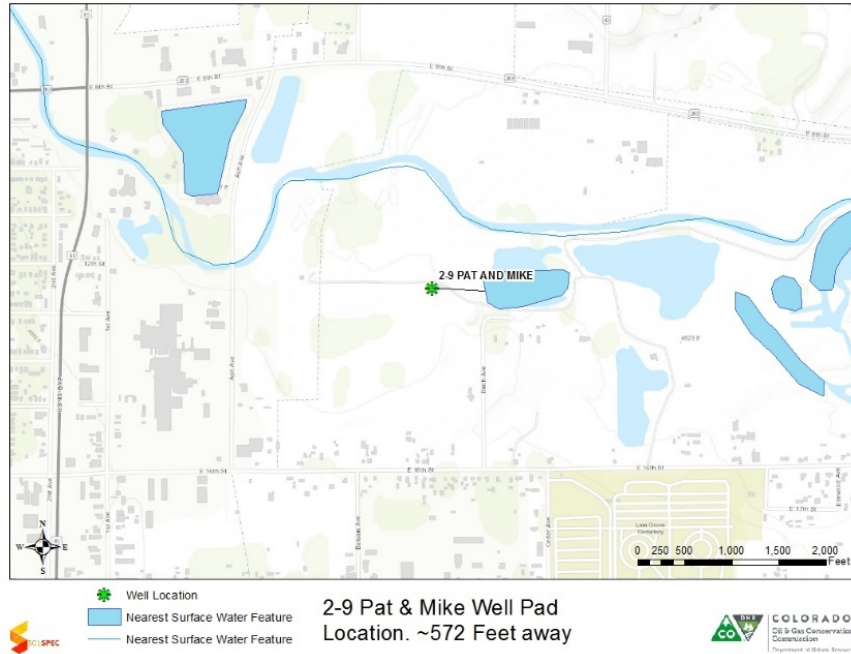


Figure 1. Distance to nearest surface water feature for the former Pat and Mike location.

The former Pat and Mike location does fall within a defined FEMA, State, or Weld County 100-Year Floodplain, according to COGCC GIS “Floodplain” mapping layers and Weld County Floodplain data (Figure 2).

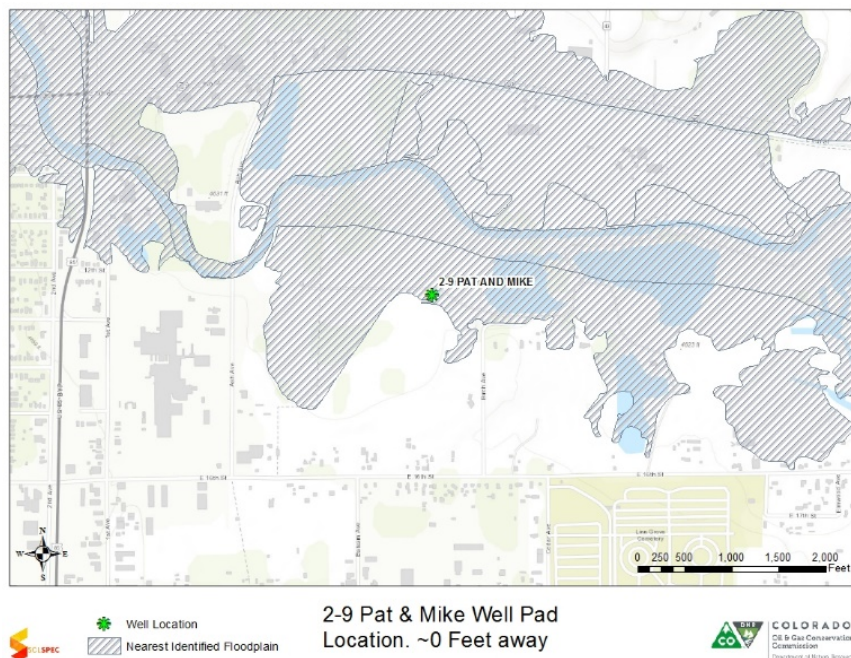


Figure 2. Distance to nearest 100-Year Floodplain for the former Pat and Mike location.

The former Pat and Mike location is approximately 223 feet east of the nearest groundwater well according to COGCC GIS “DWR_Wells” mapping layer, which is based on Colorado’s DWR information (Figure3).



Figure 3. Distance to nearest groundwater well for the former Pat and Mike location.

Wildlife

The former Pat and Mike location is not within a defined “Restricted Surface Occupancy” (RSO) or “Sensitive Wildlife Habitat” (SWH) area as identified in the COGCC GIS “CPW_RSO” and “CPW_SWH” mapping layers. The nearest defined SWH area is 448 feet northeast of the former Pat and Mike location (Figure 4).

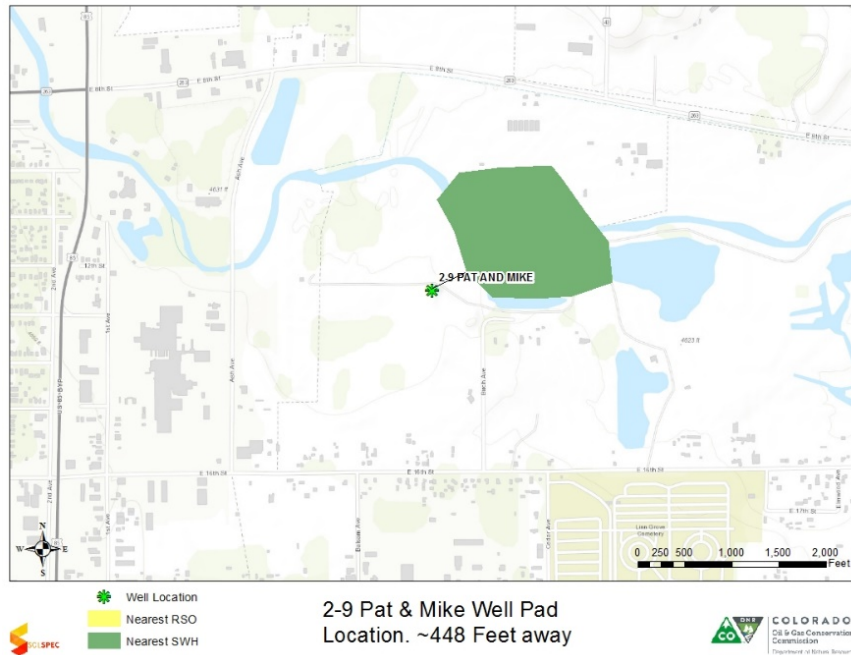


Figure 4. Distance to nearest Restricted Surface Occupancy (RSO) or Sensitive Wildlife Habitat (SWH) for the former Pat and Mike location.

Based on this evaluation it has been established that:

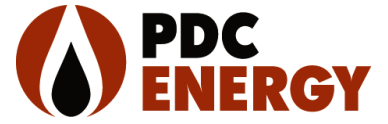
- given the small size of the location;
- the nature of the variance;
- the surface owner's future plans for the location;
- the adjacent, active mining operations; and
- the fact that the location is on private property;

Granting this final reclamation variance for the former Pat and Mike 2-9, Pat and Mike 6 LL, and WFH 5 wells and associated tank battery (Location ID: 333340) would have NO NEGATIVE IMPACTS on public health, public safety, public welfare, environment, or wildlife.

Exhibit A:
Facility Photos and Aerial Imagery

Exhibit A: FACILITY PHOTOS

PREPARED FOR: PDC ENERGY INC.



Facility:

Facility Type:

Legal Description:

Date of Assessment:

COGCC Location ID#:

County:

Date Prepared:



- Legend**
- Highway
 - Township / Range
 - Section
 - Quarter Section
 - County Boundary

1: 5,063

843.9 0 421.94 843.9 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Weld County Colorado

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THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes



Legend

- API Label
- Well Name Label
- ▲ Weld Oil and Gas Location As
- Oil and Gas Wells - Active
 - Producing
 - Permit
 - Drilling
 - Injection
 - Shut-In
 - Temporarily Abandoned
 - Waiting on Completion
 - Gas Storage / Monitoring
- Oil and Gas Wells - Inactive
 - Abandoned Location
 - Plugged and Abandoned
 - Dry and Abandoned
 - Other
- Highway
- Section
- Quarter Section

Notes

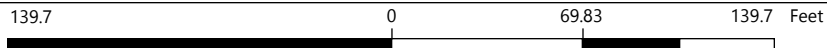


Exhibit B:

Well Abandonment – Subsequent Form 6

Document Number:
401775996

Date Received:
09/27/2018

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: _____ Tel: _____
 COGCC contact: Email: _____

API Number 05-123-14269-00 Well Name: PAT AND MIKE Well Number: 2-9
 Location: QtrQtr: NWNE Section: 9 Township: 5N Range: 65W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: 67454
 Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.419030 Longitude: -104.665610
 GPS Data:
 Date of Measurement: 07/05/2006 PDOP Reading: 6.0 GPS Instrument Operator's Name: THOMAS CARLSON
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 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
CODELL	7024	7034	08/31/2018	B PLUG CEMENT TOP	6655
NIOBRARA	6706	6932	08/31/2018	B PLUG CEMENT TOP	6655

Total: 2 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	259	140	259	0	VISU
1ST	7+7/8	4+1/2	15.1	7,164	200	7,164	6,150	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6655 with 2 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 140 sks cmt from 1631 ft. to 1183 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 315 sacks half in. half out surface casing from 606 ft. to 0 ft. Plug Tagged:

Set 5 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: 1500 ft. 4+1/2 inch casing Plugging Date: 09/06/2018
of _____

*Wireline Contractor: Ranger Energy Services

*Cementing Contractor: C&J Energy Services

Type of Cement and Additives Used: Type III Portland Cement

Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Pat and Mike 2-9 (05-123-14269)
Producing Formation: Niobrara: 6706'-6932' Codell: 7024'-7034'
Upper Pierre Aquifer: 353'-1364'
TD: 7168' PBTD: 7145'
Surface Casing: 8 5/8" 24# @ 259' w/ 140 sxs
Production Casing: 4 1/2" 15.1# @ 7164' w/ 200 sxs cmt (TOC @ 6150' - CBL).

Proposed Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6655'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with casing cutter. Cut 4 1/2" casing at 1500'. Pull cut casing.
5. TIH with tubing to 1631'. RU cementing company. Mix and pump 140 sxs 14.8#/gal Type III cement w/ 2% CaCl down tubing (Pierre coverage from 1625'-1200'). TOOH with tubing at 1183'.
6. Pick up tubing to 606'. Mix and pump 320 sxs 14.8#/gal Type III cement down tubing. Cement circulate to surface.
7. 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: Valerie Danson

Title: Reg Tech Date: 9/27/2018 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.

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401775996	FORM 6 SUBSEQUENT SUBMITTED
401776058	CEMENT JOB SUMMARY
401776075	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

Document Number:
401778080

Date Received:
09/28/2018

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: _____ Tel: _____

COGCC contact: Email: _____

API Number 05-123-24423-00

Well Name: PAT & MIKE Well Number: 6 LL

Location: QtrQtr: NWNE Section: 9 Township: 5N Range: 65W Meridian: 6

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

Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.418950 Longitude: -104.665550

GPS Data:
Date of Measurement: 01/03/2008 PDOP Reading: 3.7 GPS Instrument Operator's Name: ROBERT D. THOMAS

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____

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
CODELL	7106	7120	08/28/2018	B PLUG CEMENT TOP	6740
NIOBRARA	6790	7014	08/28/2018	B PLUG CEMENT TOP	6740

Total: 2 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	544	440	544	0	VISU
1ST	7+7/8	4+1/2	11.6	7,240	580	7,240	1,404	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6740 with 2 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 140 sks cmt from 1528 ft. to 1039 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 253 sacks half in. half out surface casing from 768 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: 1350 ft. 4+1/2 inch casing Plugging Date: 08/30/2018
of _____
*Wireline Contractor: Ranger *Cementing Contractor: C&J
Type of Cement and Additives Used: 14.8 type 3
Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Pat & Mike 6 LL (05-123-24423)/Plugging Procedure
Producing Formation: Niobrara: 6790'-7014' Codell: 7106'-7120'
Upper Pierre Aquifer: 355'-1354'
TD: 7269' PBTD: 7200'
Surface Casing: 8 5/8" 24# @ 544' w/ 440 sxs
Production Casing: 4 1/2" 11.6# @ 7240' w/ 580 sxs cmt (TOC @ 1404' - CBL).

Tubing: 2 3/8" tubing set @ 7096' (6/8/2016).

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 6740'. Top with 2 sxs 15.8#/gal CI G cement. While dump bailing cement on top of CIBP Ranger Energy Services lost their dump bailer on top of the CIBP, attempts were made to fish out bailer-bailer was cemented in.
4. Additional 2 sacks of cement was dump bailed on top of fish top.
5. TIH with casing cutter. Cut 4 1/2" casing at 1350'. Pull cut casing.
6. TIH with tubing to 1528'. RU cementing company. Mix and pump 140 sxs 14.8#/gal type 3 cement down tubing (coverage from 1528'-1039').
7. Pick up tubing to 768'. Mix and pump 253 sxs 14.8#/gal type 3 cement down tubing. Cement circulate to surface.
8. 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: JEnifer Hakkarinen
Title: Reg TEch Date: 9/28/2018 Email: JEnifer.Hakkarinen@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: Strathman, Elliot

Date: 6/4/2019

CONDITIONS OF APPROVAL, IF ANY:

<u>COA Type</u>	<u>Description</u>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401778080	FORM 6 SUBSEQUENT SUBMITTED
401778113	WELLBORE DIAGRAM
401778366	CEMENT JOB SUMMARY

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

Document Number:
 402042177
 Date Received:
 05/13/2019

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: _____ Tel: _____
COGCC contact: Email: _____

API Number 05-123-27058-00 Well Number: 5
 Well Name: WFH
 Location: QtrQtr: NWNE Section: 9 Township: 5N Range: 65W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.419020 Longitude: -104.665500
 GPS Data:
 Date of Measurement: 01/03/2008 PDOP Reading: 3.8 GPS Instrument Operator's Name: ROBERT D. THOMAS
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 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
CODELL	7054	7068	09/10/2018	B PLUG CEMENT TOP	6697
NIOBRARA	6747	6966	09/10/2018	B PLUG CEMENT TOP	6697

Total: 2 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	462	390	462	0	VISU
1ST	7+7/8	4+1/2	11.6	7,204	600	7,204	1,382	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 44 sks cmt from 765 ft. to 0 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:
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 1365 ft. with 35 sacks. Leave at least 100 ft. in casing _____ CICR Depth
Perforate and squeeze at 700 ft. with 34 sacks. Leave at least 100 ft. in casing _____ CICR Depth
Perforate and squeeze at 500 ft. with 109 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. _____ inch casing Cut and Cap Date: 04/15/2019
of _____

*Wireline Contractor: C&J Energy Services *Cementing Contractor: C&J Energy Services

Type of Cement and Additives Used: Type III 14.8 PPG Portland Cement

Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

WFH 5 (05-123-27058)/Plugging Procedure
Producing Formation: Niobrara: 6747'-6966' Codell: 7054'-7068'
Upper Pierre Aquifer: 382'-1360'
TD: 7267' PBTD: 7200'
Surface Casing: 8 5/8" 24# @ 462' w/ 390 sxs
Production Casing: 4 1/2" 11.6# @ 7204' w/ 600 sxs cmt (TOC @ 1382' - CBL).
Existing CIBP at 6697' with 2 sxs cement on top (9/10/2018)

Procedure:

1. MIRU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. Run CBL 2000' to Surface.
4. TIH with perforation gun. Shoot lower squeeze holes at 1365' and upper squeeze holes at 1200'.
5. TIH with tubing to 1467'. RU cementing company. Sting in and pump 35 sxs 14.8#/gal Type III cement. Sting out and pump cement through squeeze holes. TOC at 1015'.
6. TIH with casing cutter. Cut 4 1/2" casing at 700'. Attempted to pull cut casing, but casing was not free.
7. TIH with perforation gun. Shoot squeeze holes at 500'.
8. TIH with tubing to 765'. RU cementing company. Mix and pump 44 sxs 14.8#/gal Type III cement down tubing. Close off casing returns. Shut blind ram and squeeze 34 sxs 14.8#/gal Type III cement through casing cut at 700' into annular space. Cement circulate to surface.
9. With casing returns still closed off, mix and pump 109 sxs 14.8#/gal Type III cement downhole and squeeze through perforation at 500' into annular space. Cement circulate to surface.
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: Valerie Danson

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: 11/27/2019

CONDITIONS OF APPROVAL, IF ANY:**COA Type****Description**

COA Type	Description

Attachment Check List**Att Doc Num****Name**

402042177	FORM 6 SUBSEQUENT SUBMITTED
402042197	CEMENT BOND LOG
402042198	CEMENT JOB SUMMARY
402042203	WELLBORE DIAGRAM
402042204	WIRELINE JOB SUMMARY

Total Attach: 5 Files

General Comments**User Group****Comment****Comment Date**

Engineer	Requested Form 42/44 Submitted 11/25/2019	09/03/2019
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Total: 1 comment(s)