FORM 2 Rev

08/19

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109





Document Number:

402191526

APPLICATION FOR PERMIT TO:	(SUBMITTED)
▼ Drill Deepen Re-enter Recomplete and Operate	
TYPE OF WELL OIL GAS COALBED OTHER: Unplanned Sidetrack Refiling	Date Received:
ZONE TYPE SINGLE ZONE ▼ MULTIPLE ZONES □ COMMINGLE ZONES □ Sidetrack ▼	
Well Name: Pyramid Well Number: 5N	_
Name of Operator: PDC ENERGY INC COGCC Operator Num	ber:69175
Address: 1775 SHERMAN STREET - STE 3000	
City: DENVER State: CO Zip: 80203	
Contact Name: Venessa Chase Phone: (303)318-6102 Fax: (303)860-5838	
Email: venessa.chase@pdce.com	
RECLAMATION FINANCIAL ASSURANCE	
Plugging and Abandonment Bond Surety ID: 20160047	
WELL LOCATION INFORMATION	
QtrQtr: SENE Sec: 36 Twp: 5N Rng: 64W Meridian: 6	
Latitude: 40.358521 Longitude: -104.490525	
FNL/FSL FEL/FWL Footage at Surface: 1680 Feet FNL 600 Feet FEL	
Field Name: WATTENBERG Field Number: 90750	
Ground Elevation: 4588 County: WELD	
GPS Data:	
Date of Measurement: 01/20/2018 PDOP Reading: 2.2 Instrument Operator's Name: Jason Dahlman	
If well is Directional X Horizontal (highly deviated) submit deviated drilling plan.	
Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL FEL/FWL	L
2610 FNL 737 FEL 2610 FNL 150 FWL	
Sec: <u>36</u> Twp: <u>5N</u> Rng: <u>64W</u> Sec: <u>35</u> Twp: <u>5N</u> Rng:	
LOCAL GOVERNMENT INFORMATION	
County: WELD Municipality: N/A	
Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "local government with jurisdiction to approve the proposed oil and gas location."	ne siting of the
The local government with jurisdiction is: County	
Does the local government with jurisdiction regulate the siting of Oil and Gas Locations, with respect to this COGCC application? If the local government has waived its right to precede the COGCC in siting determination, indicate by selecting "NO" here and selecting "Waived" below.	☐ Yes ☒ No
If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location.	
The local government siting permit type is:	
The local government siting permit was filed on:	
The disposition of the application filed with the local government is:	

Additional explanation of local process:		
Unplanned sidetrack for approved well		
LOCATION SURFACE & MINERALS	DICUT TO CONSTRUCT	
LOCATION SURFACE & MINERALS	RIGHT TO CONSTRUCT	
Surface Ownership:	Federal Indian	
The surface switch is:	ner beneath the location.	
(check all that apply) is committed to a	n Oil and Gas Lease.	
has signed the Oil and Gas Lease.		
is the applicant.		
The Mineral Owner beneath this Oil and Gas Location is: Fee State Federal Indian		
The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes		
The right to construct the Oil and Gas Location	is granted by: Surface Use Agreement	
Surface damage assurance if no agreement is i	n place: Su	urface Surety ID:
LEASE INFORMATION		
Using standard QtrQtr, Sec, Twp, Rng format, of beneath surface location if produced. Attach se		
Township 5 North, Range 64 West, 6th P.M.,		
Total Acres in Described Lease: 40	Described Mineral Lease is: Fee	e 🗵 State 📗 Federal 📗 Indian
Federal or State Lease # 7586.1		
Distance from Completed Portion of Wellbore to	 Nearest Lease Line of described lease: 	0 Feet
OLU TUDAL DIOTANOE INFORMATIO		INSTRUCTIONS:
CULTURAL DISTANCE INFORMATIO	N 1	- All measurements shall be provided from center of
Distance to nearest:		the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
Building: 1222	Feet	- Enter 5280 for distance greater than 1 mile.
Building Unit: 1335	Feet	- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for
High Occupancy Building Unit: 5280	Feet	both.
Designated Outside Activity Area: 5280	Feet	- Building Unit, High Occupancy Building Unit, Designated Outside Activity Area, School Facility,
Public Road: 588	Feet	and Child Care Center – as defined in 100 Series
Above Ground Utility: 360	Feet	Rules.
Railroad: 5280	Feet	
Property Line: 362	- : Feet	
School Facility: 5280	- Feet	
School Property Line: 5280		
School Froperty Line. 5280	Feet	
	Feet	
Child Care Center: 5280	_	Duffer 7ano as described in Dule 604 a (2) within
Child Care Center: 5280 DESIGNATED SETBACK LOCATION	_	- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit
Child Care Center: 5280 DESIGNATED SETBACK LOCATION INFORMATION	Feet	1,000' of a Building Unit - Exception Zone - as described in Rule 604.a.(1),
Child Care Center: 5280 DESIGNATED SETBACK LOCATION	Feet Buffer Zone	1,000' of a Building Unit
Child Care Center: 5280 DESIGNATED SETBACK LOCATION INFORMATION	Feet Buffer Zone Exception Zone	1,000' of a Building Unit - Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
Child Care Center: 5280 DESIGNATED SETBACK LOCATION INFORMATION Check all that apply. This location is within a:	Feet Buffer Zone Exception Zone Urban Mitigation Area	1,000' of a Building Unit - Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit Urban Mitigation Area - as defined in 100-Series
Child Care Center: 5280 DESIGNATED SETBACK LOCATION INFORMATION Check all that apply. This location is within a: Pre-application Notifications (required if location	Feet Buffer Zone Exception Zone Urban Mitigation Area is within 1,000 feet of a building unit):	1,000' of a Building Unit - Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit Urban Mitigation Area - as defined in 100-Series
Child Care Center: 5280 DESIGNATED SETBACK LOCATION INFORMATION Check all that apply. This location is within a:	Feet Buffer Zone Exception Zone Urban Mitigation Area is within 1,000 feet of a building unit): ea Notification to Local Government:	1,000' of a Building Unit - Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit Urban Mitigation Area - as defined in 100-Series

SPACING and UNIT INFORMATION
Distance from completed portion of proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the
same formation:Feet
Distance from Completed Portion of Wellbore to Nearest Unit Boundary Feet (Enter 5280 for distance greater than 1 m
Federal or State Unit Name (if appl): Unit Number:
SPACING & FORMATIONS COMMENTS
If this Form 2 is associated with a Drilling and Spacing Unit application, provide docket number:
OBJECTIVE FORMATIONS
Objective Formation(s) Formation Code Spacing Order Number(s) Unit Acreage Assigned to Well Unit Configuration (N/2, SE/4
NIOBRARA NBRR 407-2687 1280 S 35, 36: All
DRILLING PROGRAM
Proposed Total Measured Depth: 16822 Feet
Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged we
Enter distance if less than or equal to 1,500 feet: 33 Feet No well belonging to another operator within 1,500 feet
Will a closed-loop drilling system be used? Yes
Is H2S gas reasonably expected to be encountered during drilling operations at concentrations greater than
or equal to 100 ppm? No (If Yes, attach an H2S Drilling Operations Plan)
Will salt sections be encountered during drilling?
Will salt based (>15,000 ppm Cl) drilling fluids be used?
Will oil based drilling fluids be used? Yes
BOP Equipment Type: 🗵 Annular Preventor 🗵 Double Ram 🔯 Rotating Head None
GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING
Water well sampling required per Rule 318A
PRILLING WASTE MANAGEMENT PROGRAM
Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Recycle/reuse
Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal
Other Disposal Description:
See Comments
Beneficial reuse or land application plan submitted? Yes
Reuse Facility ID: 449950 or Document Number:
CASING PROGRAM
Casing Type Size of Hole Size of Casing Wt/Ft Csg/Liner Top Setting Depth Sacks Cmt Cmt Btm Cmt
SURF 12+1/4 9+5/8 36 0 1680 780 1680 0 IST 8+1/2 5+1/2 20 0 16822 2035 16822 0
Conductor Casing is NOT planned
DESIGNATED SETBACK LOCATION EXCEPTIONS

Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of

Date Run: 9/27/2019 Doc [#402191526] Well Name: Pyramid 5N

Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)

Check all that apply:

Rule 604.a.)
Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)
GREATER WATTENBERG AREA LOCATION EXCEPTIONS
Check all that apply:
Rule 318A.a. Exception Location (GWA Windows).
Rule 318A.c. Exception Location (GWA Twinning).
RULE 502.b VARIANCE REQUEST
Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number
OTHER LOCATION EXCEPTIONS
Check all that apply:
Rule 318.c. Exception Location from Rule or Spacing Order Number
Rule 603.a.(2) Exception Location (Property Line Setback).
ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).
OPERATOR COMMENTS AND SUBMITTAL
The surface hole will be drilled with water based mud and the production hole will be drilled with oil based mud. Water based drilling fluid and cuttings will be land applied at PDC spread field with COGCC Facility ID 449950. Oil based drilling fluids will be recycled and reused. If the disposal is required, the oil based drilling fluids will be disposed at a commercial solid waste disposal facility. Oil based mud drill cuttings for the production hole will be disposed at a permitted commercial solid waste disposal facility. We shut down circulating at a MD depth of 3,062' to pick up our agitator. Unfortunately, we don't think we circulated long enough before picking up the agitator and our BHA got packed off with cuttings. We were able to recover our drill string to a depth of 2,702' but not our drilling BHA below that (360' long fish). This morning PDC's Drilling Superintendent notified me that our jars had stopped firing and we made the decision that it was time to throw in the towel and ask permission to sidetrack. I spoke with you at 6:30 AM this morning to update you of our situation and received verbal permission to sidetrack. We will be a setting a 500' cement plug with a bottom depth of 2,700' MD and a top depth of 2,200' MD. a. Well name and API - Pyramid 5N / API 05-123-48812-00 b. Explanation of situation and why you need to sidetrack – BHA got packed in with cuttings while picking up agitator c. Total measured depth reached (also have TVD) 3,062' MD/ 3,018' TVD d. Casing sizes set and measured depth 9-5/8'' @ 1,680' MD/ 1,669' TVD e. Description of fish-including top and bottom. Drilling BHA and bit, top of fish @ 2,702' and bottom of fish @ 3,062' f. Type of cement you will be using including weight, yield, and sacks. Neat Class G Cement, 15.8 ppg, 1.15 cuft/sk, 205 sks g. Measured depth and TVD of sidetrack point 2,200' MD/ 2,178' TVD (top of 500' cement plug) h. Proposed target formation of sidetrack hole if different than permitted. Same as permit. i. BHL of sidetrack hole. Same as orig
This application is in a Comprehensive Drilling Plan No CDP #:
Location ID:459349
Is this application being submitted with an Oil and Gas Location Assessment application? No
I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.
Signed: Print Name: Venessa Chase

Date:

Email:

Title: Regulatory Supervisor

venessa.chase@pdce.com

Based on the information provided herein, this Application for SB 19-181 and is hereby approved.	Permit-to-Drill complies with	h COGCC Rules, applicable orders, and
COGCC Approved:	Director of COGCC	Date:
API NUMBER 05 123 48812 01	Expirat	ion Date:

Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

COA Type	<u>Description</u>
	Best Management Practices
No BMP/COA Type	Description
1 Drilling/Completion Operations	Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
2 Drilling/Completion Operations	Operator will comply with COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated May 29, 2012. The Colorado Oil and Gas Conservation Commission (COGCC) has established this Policy Regarding Bradenhead Monitoring During Hydraulic Fracturing Treatments ("Treatment") in the Greater Wattenberg Area ("GWA") pursuant to COGCC 207.a. ("Policy"). This Policy applies to oil and gas operations in the GWA as defined by the COGCC Rules of Practice and Procedure.
3 Drilling/Completion Operations	ALTERNATIVE PROGRAM: One of the first wells drilled on the pad will be logged with open-hole resistivity log and gamma-ray log from the kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of every well will be logged with a measured-whiledrilling gamma-ray log. The Form 5, Completion Report, for each well on the pad will list all

Total: 3 comment(s)

Attachment Check List

logs run and have those logs attached. The Form 5 for a well without open-hole logs shall state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify the type of log and the well (by API #) in which open-hole logs were run.

Att Doc Num	<u>Name</u>
402191576	OffsetWellEvaluations Data
402191628	WELLBORE DIAGRAM
402191735	CORRESPONDENCE

Total Attach: 3 Files

	General Comments	
User Group	Comment	Comment Date
		Stamp Upon Approval
Total: 0 comme	nt(s)	

Public Comments
No public comments were received on this application during the comment period.
No public comments were received on this application during the comment period.