FORM 2 Rev

08/16

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:

401806591

APPLICATION FOR PERMIT TO:	
▼ Drill Deepen Re-enter Recomplete and Operate	
TYPE OF WELL OIL K GAS COALBED OTHER Refiling	Date Received:
ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES Sidetrack	
Well Name: Thunder Well Number: 4N	
Name of Operator: PDC ENERGY INC COGCC Operator No	imber: 69175
Address: 1775 SHERMAN STREET - STE 3000	
City: DENVER State: CO Zip: 80203	
Contact Name: Ally Ota Phone: (303)860-5800 Fax: ()	
Email: alexandria.ota@pdce.com	
RECLAMATION FINANCIAL ASSURANCE	
Plugging and Abandonment Bond Surety ID:20160047	
WELL LOCATION INFORMATION	
QtrQtr: SENW Sec: 3 Twp: 5N Rng: 64W Meridian: 6	
Latitude: 40.430820 Longitude: -104.540050	
FNL/FSL FEL/FWL	
Footage at Surface:1712 FeetFNL1591 FeetFWL Field Name: WATTENBERG Field Number: 90750	
Field Name: WATTENBERG Field Number: 90750 Ground Elevation: 4621 County: WELD	
GPS Data:	
Date of Measurement: 06/15/2018 PDOP Reading: 1.8 Instrument Operator's Name: Scott Sherard	
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/F	WL
970 FNL 250 FWL 970 FNL 150 FE	L
Sec: <u>3</u> Twp: <u>5N</u> Rng: <u>64W</u> Sec: <u>3</u> Twp: <u>5N</u> Rn	g: <u>64W</u>
LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT	
Surface Ownership: 🗵 Fee 🔲 State 📗 Federal 🔲 Indian	
The Surface Owner is: is the mineral owner beneath the location.	
(check all that apply) is committed to an 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 in place: Surface Surety ID:	

LEASE INFORMATION	N				
Using standard QtrQtr, Sec, beneath surface location if p					this well (Describe lease
Township 5 North, Range Section 3: W/2NW/4	e 64 West, 6th P.N	1.			
Total Acres in Described Le	ease: 80	Described Mineral Le	ease is: 🗵 Fee	e 🔲 State	e Federal Indian
Federal or State Lease #					
Distance from Completed P	ortion of Wellbore	to Nearest Lease Line of d	escribed lease:	0	Feet
CULTURAL DISTANC	F INFORMATI	ON		INSTRUCTIONS:	
Distance to nearest:				the Proposed W	ents shall be provided from center o Vell to nearest of each cultural ribed in Rule 303.a.(5).
В	uilding: 6	20 Feet		- Enter 5280 for	distance greater than 1 mile.
Buildir	ng Unit: 8	18 Feet			rest building of any type. If nearest ilding Unit, enter same distance for
High Occupancy Buildir	ng Unit: 52	Feet		both.	-
Designated Outside Activit	y Area: 52	80 Feet			High Occupancy Building Unit, and side Activity Area - as defined in
		93 Feet		100-Series Rule	
Above Ground	I Utility: 9	53 Feet			
Ra	ailroad: 52	80 Feet			
Proper	ty Line: 2	73 Feet			
DESIGNATED SETBA INFORMATION Check all that apply. This lo		N IX Buffer Zone ☐ Exception Zone		1,000' of a Build - Exception Zond within 500' of a - Urban Mitigati	e - as described in Rule 604.a.(1),
		Urban Mitigation Are	ea	Rules.	
Pre-application Notifications	s (required if locati	on is within 1,000 feet of a	building unit):		
		Area Notification to Local G			
Date of Rule 305.a.(2)	Buffer Zone Notifi	cation to Building Unit Own	ers: 07/19/20	18	
SPACING and UNIT IN					
Distance from completed po		wellhore to pearest comple	ated partian of of	foot wallbara na	ermitted or completed in the
same formation: 92	Feet	wellbore to flearest comple	stea portion of of	iset wellbore pe	emilited of completed in the
Distance from Completed P	_	to Nearest Unit Roundary	460 Fee	at (Enter 5280 f	or distance greater than 1 mile.)
-		to realest offit boundary			-
Federal or State Unit Name				Unit Nu	er.
SPACING & FORMAT					
Proposed Spacing Unit:	T5N-R64W Sectio	n 3: N2, Section 4: E2NE, F	PSU attached		
OBJECTIVE FORMAT	TONS				
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage As	ssigned to Well	Unit Configuration (N/2, SE/4, etc.
NIOBRARA	NBRR		40	0	GWA

DRILLING P	ROGRAM							
Proposed Tot	al Measured D	epth:12508 F	eet					
Distance from	the proposed	wellbore to neares	t existing or p	proposed wellbore	belonging to and	other operator,	including plug	ged wells:
Enter distance	e if less than or	equal to 1,500 fee	t: 146	Feet N	o well belonging	to another ope	rator within 1	,500 feet
Will a closed-	oop drilling sys	stem be used?	Yes					
Is H ₂ S gas rea	asonably expe	cted to be encounte	ered during o	drilling operations a	at concentrations	greater than		
or equal to 10	0 ppm? No	(If Yes, attach	an H2S Drill	ing Operations Pla	ın)			
Will salt section	ons be encount	ered during drilling	? No					
Will salt based	d (>15,000 ppn	n CI) drilling fluids b	oe used?	No				
Will oil based	drilling fluids b	e used? No						
BOP Equipme	ent Type: 🗵 A	Annular Preventor	⊠ Double	Ram 🗵 Ro	otating Head	None	е	
GROUNDWA	ATER BASE	LINE SAMPLIN	IG AND M	ONITORING A	ND WATER V	VELL SAMP	LING	
Water well sa	mpling require	d per Rule 318	ЗА					
DRILLING W	ASTE MAN	AGEMENT PR	OGRAM					
Drilling Fluids	Disposal:	OFFSITE	Drilling Flu	uids Disposal Meth	ods: I and applic	cation		
Cuttings Disp			_	tings Disposal Met				
		DITE.	Cut	urigs Disposai Met	nou. <u>Beneficial i</u>	euse		
	al Description:	II	16.11.20.	00000 5 33 15		200		
Drill cuttings	will be land app	olied at PDC spread	a fielas with	COGCC Facility ID	449950 or 4483	329.		
Beneficial	euse or land a	pplication plan sub	mitted? Y	′es				
Reuse Fa			cument Nun	nber:				
					_			
CASING PR	OGRAM							
Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	12+1/4	9+5/8	36	0	1600	920	1600	0
1ST	8+1/2	5+1/2	20	0	12508	2035	12508	0
Conductor								
		K LOCATION E	XCEPTIO	NS				
Check all that a								
	. ,	on Zone (within 50	·	•				
		on Location (existir	ng or approve	ed Oil & Gas Locat	tion now within a	Designated Se	etback as a re	sult of
Rule 604.8	·			- d Oil 9 O l	ian ia within a D	: C - 4h-	aaledua ta Du	ilalia ar I larik
	on after Location	on Location (existir on approval)	ng or approve	ed Oii & Gas Locat	ion is within a De	esignated Setb	ack due to Bu	liding Unit
Rule 604.	o.(2) Exception	Location (SUA or	site-specific	development plan	executed on or b	efore August 1	I, 2013)	
Rule 604.b developme		Location (Building	Units constr	ructed after August	1, 2013 within s	etback per an	SUA or site-sp	pecific
GREATER V	VATTENBE	RG AREA LOCA	ATION EX	CEPTIONS				
Check all that a	pply:							
Rule 318A	.a. Exception I	ocation (GWA Wir	ndows).					
N Dula 240A	c Exception I	ocation (GWA Twi	innina).					

RULE 502.b VARIANCE REQUEST

The distance to the Cornelected portion of the nearest well on the "Spacing of the authority owner of brown of the Cornelected interval of the Cornelected on the Institute of Institute on the Institute of Institute of Institute on the Institute on the Institute on the Institute of Institute on the Institute on th	Rule		
Check all that apply: Rule 318.c. Exception Location from Rule or Spacing Order Number Rule 603.a.(2) Exception Location (Property Line Setback). Alt. 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 Comments PDC requests an exception to rule 317.p.: PDC will run a cased hole log. The distance to the completed portion of the nearest well on the "Spacing and Formations" tab was measured to the Snowmass 4N. The distance to the nearest wellbore belonging to another operator on the "Dilling & Waste Plains" tab was measured to the Snowmass 4N. The distance to the nearest wellbore belonging to another operator on the "Dilling & Waste Plains" tab was measured to the Snowmass 4N. The distance to the nearest wellbore belonging to another operator on the "Dilling & Waste Plains" tab was measured to the Snowmass 4N. The distance to the nearest wellbore belonging to another operator on the "Dilling & Waste Plains" tab was measured to the Snowmass 4N. The distance to the nearest wellbore belonging to another operator on the "Dilling & Waste Plains" tab was measured to the Snowmass 4N. The distance to the nearest wellbore belonging to another operator on the "Dilling & Waste Plains" tab was measured to the Snowmass 4N. The distance was remeasured via the anitorial or the divinition reportation for Plains 4N. The bottom of the completed interval will be within the unit boundary setback at 970 FNL & 4800 FEL, Section 3. The wellbore beyond the unit boundary setback will be physically isolated and will not be completed. This application is in a Comprehensive Drilling Plan No CDP #: Location ID: Is this application being submitted with an Oil and Gas Location Assessment application? Print Name: Ally Ola Title: Regulatory Tech Date: Email: alexandria.ota@pdce.com Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and appli		502.b. Variance Reques	st from COGCC Rule or Spacing Order Number
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 Comments PDC requests an exception to rule 317.p.: PDC will run a cased hole tog. The distance to the completed portion of the nearest well on the "Spacing and Formations" tob was measured to the Snowmass 4N. The distance to the nearest wellbore belonging to another operator on the "Drilling & Waste Plans" tab was unashed to the Granados 4-3. Both distances were measured via the anti-collision report attached in the deviated drilling plan. The subject well will have a treated interval less than 150' from the treated interval of the Granados 4-3 (05-123-1647) owned by Noble. Please see the Rule 317.s Stimulation Setback Consent attached. This well has a bottom-hole location beyond the unit boundary setback. The bottom of the completed interval will be within the unit boundary setback at 970' FNL & 460' FEL, Section 3. The wellbore beyond the unit boundary setback will be physically isolated and will not be completed. This application is in a Comprehensive Drilling Plan No CDP #: Location ID: Is this application being submitted with an Oil and Gas Location Assessment application? Yes This regulatory Tech Date: Email: alexandria.ota@pdce.com Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved. Conditions Of Approval All 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 for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and	OTHER L	OCATION EXCEPT	TIONS
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Location ID: Is this application being submitted with an Oil and Gas Location Assessment application? I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete. Signed: Title: Regulatory Tech Date: Email: alexandria.ota@pdce.com Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved. COGCC Approved: Director of COGCC Date: Expiration 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.		within the unit bounda	ry setback at 970' FNL & 460' FEL, Section 3. The wellbore beyond the unit boundary setback will
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Is this application being submitted with an Oil and Gas Location Assessment application? Yes I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete. Signed: Print Name: Ally Ota Title: Regulatory Tech Date: Email: alexandria.ota@pdce.com Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved. COGCC Approved: Director of COGCC API NUMBER Expiration 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.		-	<u> </u>
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API NUMBER 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.	I hereby ce		le in this form are, to the best of my knowledge, true, correct, and complete.
API NUMBER 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.	I hereby ce	ertify all statements mad	le in this form are, to the best of my knowledge, true, correct, and complete. Print Name: Ally Ota
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.	I hereby ce Signed: Title:	ertify all statements mad Regulatory Tech e information provided h	Print Name: Ally Ota Date: Email: alexandria.ota@pdce.com
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.	I hereby ce Signed: Title: Based on the	Regulatory Tech e information provided how approved.	le in this form are, to the best of my knowledge, true, correct, and complete. Print Name: Ally Ota Date: Email: alexandria.ota@pdce.com Description of Permit-to-Drill complies with COGCC Rules and applicable orders
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No BMP/COA Type	<u>Description</u>
1 Drilling/Completion Operations	Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an asconstructed gyro survey will be submitted to COGCC with the Form 5.
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	One of the first wells drilled on the pad will be logged with Cased hole Pulsed Neutron Log with Gamma Ray Log from 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 while-drilling gamma-ray log. The Form 5, Completion Report, for each well on the pad will list all logs run in that well and have those logs attached. The Form 5 for each well shall clearly state "No openhole logs were run" and shall reference the Rule 317.p Exception granted for the well.

Total: 3 comment(s)

Attachment Check List

Att Doc Num	<u>Name</u>
401808043	OffsetWellEvaluations Data
401808048	SURFACE AGRMT/SURETY
401808050	OPEN HOLE LOGGING EXCEPTION
401808051	EXCEPTION LOC REQUEST
401808053	EXCEPTION LOC WAIVERS
401808054	STIMULATION SETBACK CONSENT
401808055	DEVIATED DRILLING PLAN
401808056	DIRECTIONAL DATA
401808057	PROPOSED SPACING UNIT
401808270	WELL LOCATION PLAT

Total Attach: 10 Files

General Comments

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

Total: 0 comment(s)

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