

FORM 2 Rev 08/13	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: 400792106 (SUBMITTED) Date Received:
APPLICATION FOR PERMIT TO:			
<input checked="" type="checkbox"/> Drill <input type="checkbox"/> Deepen <input type="checkbox"/> Re-enter <input type="checkbox"/> Recomplete and Operate			
TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER _____		Refiling <input type="checkbox"/>	
ZONE TYPE SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONES <input checked="" type="checkbox"/> COMMINGLE ZONES <input checked="" type="checkbox"/>		Sidetrack <input type="checkbox"/>	
Well Name: <u>Stroh</u>		Well Number: <u>130-403</u>	
Name of Operator: <u>PDC ENERGY INC</u>		COGCC Operator Number: <u>69175</u>	
Address: <u>1775 SHERMAN STREET - STE 3000</u>			
City: <u>DENVER</u>		State: <u>CO</u>	Zip: <u>80203</u>
Contact Name: <u>Kelsi Welch</u>		Phone: <u>(303)831-3974</u>	Fax: <u>()</u>
Email: <u>Kelsi.Welch@pdce.com</u>			
RECLAMATION FINANCIAL ASSURANCE			
Plugging and Abandonment Bond Surety ID: <u>20090078</u>			
WELL LOCATION INFORMATION			
QtrQtr: <u>NESW</u>	Sec: <u>13</u>	Twp: <u>4N</u>	Rng: <u>67W</u>
Meridian: <u>6</u>	Latitude: <u>40.311030</u>	Longitude: <u>-104.842540</u>	
Footage at Surface: <u>2354</u> feet	FNL/FSL FSL: <u>1706</u> feet	FEL/FWL FWL: _____	
Field Name: <u>WATTENBERG</u>		Field Number: <u>90750</u>	
Ground Elevation: <u>4804</u>		County: <u>WELD</u>	
GPS Data:			
Date of Measurement: <u>01/30/2015</u>	PDOP Reading: <u>2.2</u>	Instrument Operator's Name: <u>Adam Kelly</u>	
If well is <input type="checkbox"/> Directional <input checked="" type="checkbox"/> Horizontal (highly deviated) submit deviated drilling plan.			
Footage at Top of Prod Zone: <u>1843</u> feet	FNL/FSL FSL: <u>2627</u> feet	FEL/FWL FWL: _____	Bottom Hole: <u>500</u> feet
Sec: <u>13</u>	Twp: <u>4N</u>	Rng: <u>67W</u>	Sec: <u>24</u>
			Twp: <u>4N</u>
			Rng: <u>67W</u>
LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT			
Surface Ownership: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian			
The Surface Owner is: <input checked="" type="checkbox"/> is the mineral owner beneath the location.			
(check all that apply) <input checked="" type="checkbox"/> is committed to an Oil and Gas Lease.			
<input type="checkbox"/> has signed the Oil and Gas Lease.			
<input type="checkbox"/> is the applicant.			
The Mineral Owner beneath this Oil and Gas Location is: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian			
The Minerals beneath this Oil and Gas Location will be developed by this Well: <u>Yes</u>			
The right to construct the Oil and Gas Location is granted by: <u>oil and gas lease</u>			
Surface damage assurance if no agreement is in place: _____		Surface Surety ID: _____	

LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

Township 4 North - Range 67 West
Section 13: NW/4, N/2 SW/4, SW/4 SW/4, SW/4 NE/4

Total Acres in Described Lease: 5744 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # _____

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 0 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2607 Feet
Building Unit: 2607 Feet
High Occupancy Building Unit: 4809 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 1683 Feet
Above Ground Utility: 1660 Feet
Railroad: 2408 Feet
Property Line: 310 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: Buffer Zone
 Exception Zone
 Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 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 Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 49 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 500 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS

E2SW, W2SE of Section 13 and E2W2, W2E2 of Section 24 in T4N R67W

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA-CODELL	NB-CD		480	GWA

DRILLING PROGRAM

Proposed Total Measured Depth: 14433 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 49 Feet (Including plugged wells)

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? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? No

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

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Land application

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

Drill cuttings will be land applied at PDC spread fields with COGCC Facility ID 429629, 430649, 431183, 434889, or 436033.

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: 429629 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 Top
SURF	13+3/4	9+5/8	36	0	875	830	875	0
1ST	8+3/4	7	26	0	7826	650	7826	500
1ST LINER	6+1/8	4+1/2	13.5	6625	14433			

Conductor Casing is NOT planned

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of 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

Comments

7" casing string will be cemented to at least 200' above Niobrara, around 500' from surface. CBL will only be run in the vertical section of the wellbore. Distance to nearest well, Stroh O 13-21D, measured to via the Anti-Collision Report in the Deviated Drilling plan.

PDC request an exception to rule 317.p.: PDC will not run an open hole log or cased hole log.

PDC intends to drill into the Codell formation and toe up into the Niobrara, so it will produce from both formations.

The Stroh 13O-403 will have a treated interval less than 150' from the treated interval of another well belonging to Noble Energy, Inc.

Please see attached the 317.s Stimulation Setback Consent attached as "other" for the Stroh O 13-21D(API# 123-30040).

The Stroh 13O-403 will also have a treated interval less than 150' from the treated interval of other wells belonging to PDC Energy, Inc (Stroh 13K-223, Stroh 13K-243 and Stroh 13K-303).

This application is in a Comprehensive Drilling Plan _____ CDP #: _____

Location ID: _____

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: Kelsi Welch _____

Title: Regulatory Analyst _____ Date: _____ Email: Kelsi.Welch@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: _____

API NUMBER

05

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.

Best Management Practices

No	BMP/COA Type	Description
1	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.
2	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 as-constructed gyro survey will be submitted to COGCC with the Form 5.

Total: 2 comment(s)

Attachment Check List

Att Doc Num	Name
400801979	DEVIATED DRILLING PLAN
400801980	DIRECTIONAL DATA
400801981	PROPOSED SPACING UNIT
400801984	EXCEPTION LOC WAIVERS
400801988	30 DAY NOTICE LETTER
400805796	OffsetWellEvaluations Data
400805801	WELL LOCATION PLAT
400805802	EXCEPTION LOC REQUEST
400805803	OPEN HOLE LOGGING EXCEPTION
400805804	SURFACE AGRMT/SURETY
400805807	OTHER

Total Attach: 11 Files

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)