

FORM

2

Rev
05/22

State of Colorado

Energy & Carbon Management Commission

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

Document Number:

403549557

Date Received:

03/03/2024

APPLICATION FOR PERMIT TO

☒ Drill
 ☐ Deepen
 ☐ Re-enter
 ☐ Recomplete and Operate
Amend ☐
 TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: _____
Refile ☐
 ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐
Sidetrack ☐

Well Name: Brighton Lakes

Well Number: 20-17-2NAH

Name of Operator: PROVIDENCE OPERATING LLC DBA POCO OPERATING

ECMC Operator Number: 10694

Address: 16400 DALLAS PARKWAY SUITE 400

City: DALLAS

State: TX

Zip: 75428

Contact Name: Meghan Grimes

Phone: (303)441-0720

Fax: ()

Email: mgrimes@providence-energy.com

FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

ECMC Financial Assurance

☒ The Operator has provided or will provide Financial Assurance to the ECMC for this Well.

Surety ID Number (if applicable): 20230033

Federal Financial Assurance

☐ In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for this Well. (Per Rule702.a.)

Amount of Federal Financial Assurance \$ _____

WELL LOCATION INFORMATION

Surface Location

QtrQtr: SESW Sec: 20 Twp: 1S Rng: 66W Meridian: 6

Footage at Surface: 825 Feet FSL 2057 Feet FWL

Latitude: 39.945589 Longitude: -104.801494

GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP

Date of Measurement: 02/24/2022

Ground Elevation: 5044

Field Name: WATTENBERG

Field Number: 90750

Well Plan: is ☐ Directional ☒ Horizontal (highly deviated) ☐ Vertical

If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.

Subsurface Locations

Top of Productive Zone (TPZ)

Sec: 20 Twp: 1S Rng: 66W

Footage at TPZ: 200 FSL 500 FEL

Measured Depth of TPZ: 8287

True Vertical Depth of TPZ: 7315 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)Sec: 17 Twp: 1S Rng: 66WFootage at BPZ: 150 FNL 500 FELMeasured Depth of BPZ: 18032True Vertical Depth of BPZ: 7315 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 17 Twp: 1S Rng: 66WFootage at BHL: 150 FNL 500 FELFNL/FSLFEL/FWL**LOCAL GOVERNMENT PERMITTING INFORMATION**County: ADAMSMunicipality: Brighton

Is the Surface Location of this Well in an area designated as one of State interest and subject to the requirements of §

24-65.1-108 C.R.S.? No

Per § 34-60-106(1)(f)(I)(A) C.R.S., the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas Location.

SB 19-181 provides that when "applying for a permit to drill," operators must include proof that they sought a local government siting permit and the disposition of that permit application, or that the local government does not have siting regulations. § 34-60-106(1)(f)(I)(A) C.R.S.

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this Location? ☒ 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 disposition of the application filed with the Relevant Local Government is: Approved Date of Final Disposition: 11/02/2023

Comments:

SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS LOCATIONSurface Owner of the land at this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ IndianMineral Owner beneath this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ Indian

Surface Owner Protection Bond (if applicable):

Surety ID Number (if applicable):

MINERALS DEVELOPED BY WELL

The ownership of all the minerals that will be developed by this Well is (check all that apply):

☒ Fee☐ State☐ Federal☐ Indian☐ N/A**LEASE INFORMATION**

Using standard QtrQtr, Section, Township, Range format describe one entire mineral lease as follows:

* If this Well is within a unit, describe a lease that will be developed by the Well.

* If this Well is not subject to a unit, describe the lease that will be produced by the Well.

(Attach a Lease Map or Lease Description or Lease if necessary.)

Please see lease map.

Total Acres in Described Lease: 238Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 994 Feet
Building Unit: 1129 Feet
Public Road: 810 Feet
Above Ground Utility: 857 Feet
Railroad: 4784 Feet
Property Line: 585 Feet

INSTRUCTIONS:

- Specify all distances per Rule 308.b.(1).
- 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 – as defined in 100 Series Rules.

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
NIOBRARA	NBRR	407-3534	640	T1S R66W Section 17: E2 and Section 20: E2

Federal or State Unit Name (if appl): _____

Unit Number: _____

SUBSURFACE MINERAL SETBACKS

Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 150 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 232 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: _____ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: _____ Feet

Exception Location

☐ If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers. _____

SPACING & FORMATIONS COMMENTS

DRILLING PROGRAM

Proposed Total Measured Depth: 18032 Feet

TVD at Proposed Total Measured Depth 7315 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:

Enter distance if less than or equal to 1,500 feet: 0 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 Plan unless a plan was already submitted with the Form 2A per Rule 304.c.(10).

Will there be hydraulic fracture treatment at a depth less than 2,000 feet in this well? No

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? Yes

BOP Equipment Type: ☒ Annular Preventor ☒ Double Ram ☒ Rotating Head ☐ None

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	26	16	A52A	43	0	100	500	100	0
SURF	13+1/2	9+5/8	J55	36	0	2350	1098	2350	0
1ST	8+1/2	5+1/2	P110	23	0	18032	1978	18032	

☐ Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	Top M.D.	Top T.V.D.	Bottom M.D.	Bottom T.V.D.	TDS (mg/L)	Data Source	Comment
Groundwater	Upper Arapahoe	0	0	200	200	501-1000	DWR	
Groundwater	Lower Arapahoe	200	200	950	950	501-1000	DWR	
Groundwater	Laramie-Fox Hills	950	950	1751	1751	501-1000	USGS	
Groundwater	Upper Pierre - Pawnee	1751	1751	2282	2282	1001-10000	Other	Upper Pierre Aquifer Water Quality Study, Project #2141
Confining Layer	Pierre Shale	2282	2282	5202	4848			
Hydrocarbon	Sussex	5202	4848	5540	5150			
Confining Layer	Pierre Shale	5540	5150	5800	5380			
Hydrocarbon	Shannon	5800	5380	6306	5833			
Confining Layer	Pierre Shale	6306	5833	8025	7260			
Subsurface Hazard	Sharon Springs	8025	7260	8105	7290			
Hydrocarbon	Niobrara	8105	7290	8130	7295			
Hydrocarbon	Niobrara A	8130	7295	18032	7315			

OPERATOR COMMENTS AND SUBMITTAL

Comments

Distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation was measured to Brighton Lakes 20-17-3NBH, per the anticollision report.

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells is the producing Prairie LE 17-013HN, API No. 05-001-10069, operated by PDC Energy Inc. The well was measured in 2-D with the surface leg of the Brighton Lakes 20-17-2NAH crossing over the productive interval of Prairie LE 17-013HN. The productive intervals are over 1,500' away.

The Brighton Lakes wellpad is an existing pad which was amended under the new OGDG process.

This application is in a Comprehensive Area Plan No CAP #: _____

Oil and Gas Development Plan Name BL Vintage OGDG OGDG ID#: 483938

Location ID: 451646

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Andrea Gross

Title: Permit Agent Date: 3/3/2024 Email: agross@upstreampm.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

Based on the information provided herein, this Application for Permit-to-Drill complies with ECMC Rules, applicable orders, and SB 19-181 and is hereby approved.

ECMC Approved:  Director of ECMC Date: 8/9/2024

Expiration Date: 11/12/2026

API NUMBER

05 001 10605 00

CONDITIONS OF APPROVAL, IF ANY LIST

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

Description

Interim Reclamation	Operator shall comply with Notice to Operators: Interim Reclamation Procedures for Delayed Operations (dated January 5, 2017).
Construction	If conductors are preset, operator shall comply with Rule 406.e
Drilling/Completion Operations	1) Submit Form 42 electronically to COGCC 2 business days prior to MIRU (spud notice) for the first well activity with a rig on the pad and provide 2 business day spud notice via Form 42 for all subsequent wells drilled on the pad. 2) Comply with Rule 408.j. and provide cement coverage from TD to a minimum of 500' above Niobrara. Verify coverage with a cement bond log.
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi is observed or if there is continuous flow, Operator must contact COGCC engineering for approval prior to stimulation. 2) If a delayed completion, a second test is required between 6-9 months after rig release and must be conducted prior to stimulation. If any pressure greater than 200 psi is observed or if there is continuous flow, Operator must contact COGCC engineering for approval prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.

4 COAs

Best Management Practices

No BMP/COA Type

Description

1	Drilling/Completion Operations	Alternative Logging: 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-while drilling gamma-ray log. The Form 5, Completion Report, for each well on the pad will list all 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.
---	--------------------------------	---

Total: 1 comment(s)

ATTACHMENT LIST

Att Doc Num

Name

403549557	FORM 2 SUBMITTED
403549633	SURFACE AGRMT/SURETY
403549635	OTHER
403549636	DEVIATED DRILLING PLAN
403549637	WELL LOCATION PLAT
403549642	DIRECTIONAL DATA
403549691	LEASE MAP
403626228	OffsetWellEvaluations Data

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	08/08/2024
Permit	•Permitting review complete and task passed.	08/07/2024
Permit	Returned to Draft: -The minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation is incorrect according to the attached Anticollision report and there is a closer well than the one identified on the submit tab.	02/25/2024
OGLA	The Commission approved OGDG #483938 on November 13, 2023 for the Oil and Gas Location related to this Form 2. OGLA task passed.	12/20/2023

Total: 4 comment(s)