

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

(SUBMITTED)

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 COGCC 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

COGCC Financial Assurance

The Operator has provided or will provide Financial Assurance to the COGCC 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: 66W Footage at BPZ: 150 FNL 500 FEL  
 Measured Depth of BPZ: 18032 True Vertical Depth of BPZ: 7315 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)  
 Sec: 17 Twp: 1S Rng: 66W Footage at BHL: 150 FNL 500 FEL  
FNL/FSL FEL/FWL

**LOCAL GOVERNMENT PERMITTING INFORMATION**

County: ADAMS Municipality: 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 LOCATION**

Surface Owner of the land at this Well’s Oil and Gas Location:  Fee  State  Federal  Indian

Mineral 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.)

Total Acres in Described Lease: 238 Described 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 FeetTVD 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 feetWill a closed-loop drilling system be used? YesIs H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If yes, attach an H<sub>2</sub>S 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? NoWill salt sections be encountered during drilling? NoWill salt based (>15,000 ppm Cl) drilling fluids be used? NoWill oil based drilling fluids be used? YesBOP Equipment Type:  Annular Preventor  Double Ram  Rotating Head  NoneBeneficial 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	0

 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	8287	7315			

**OPERATOR COMMENTS AND SUBMITTAL**

Comments



### Attachment List

<u>Att Doc Num</u>	<u>Name</u>
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: 7 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
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

Total: 1 comment(s)

