

FORM
2

Rev
12/20

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:

402830017

(SUBMITTED)

Date Received:

10/04/2021

APPLICATION FOR PERMIT TO:

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

Amend ☒

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: _____

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Well Name: Brighton Lakes Well Number: 20-17-1NAH
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: (720)441-0720 Fax: ()
Email: mgrimes@providence-energy.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20180056

WELL LOCATION INFORMATION

Surface Location

QtrQtr: SESW Sec: 20 Twp: 1S Rng: 66W Meridian: 6
Footage at Surface: 400 Feet FSL 1919 Feet FWL 1919
Latitude: 39.944420 Longitude: -104.801980
GPS Data: GPS Quality Value: 1.3 Type of GPS Quality Value: PDOP Date of Measurement: 12/21/2016
Ground Elevation: 5047
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: 460 FSL 1481 FEL 1481
Measured Depth of TPZ: 7900 True Vertical Depth of TPZ: 7280 FNL/FSL 1481 FEL/FWL 1481

Base of Productive Zone (BPZ)

Sec: 17 Twp: 1S Rng: 66W Footage at BPZ: 460 FNL 1451 FEL 1451
Measured Depth of BPZ: 17597 True Vertical Depth of BPZ: 7336 FNL/FSL 1451 FEL/FWL 1451

Bottom Hole Location (BHL)

Sec: 17 Twp: 1S Rng: 66W Footage at BHL: 460 FNL 1451 FEL 1451
FNL/FSL 1451 FEL/FWL 1451

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: 07/15/2019

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 Financial Assurance (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 in COGIS file.

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: 1003 Feet
Building Unit: 1094 Feet
Public Road: 386 Feet
Above Ground Utility: 432 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.

Railroad: 4651 Feet
Property Line: 400 Feet

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	407-1879	640	S. 17:E2; S.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: 460 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: 222 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: 17597 Feet TVD at Proposed Total Measured Depth 7336 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?

Reuse Facility ID: or Document Number:

CASING PROGRAM

<u>Casing Type</u>	<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Grade</u>	<u>Wt/Ft</u>	<u>Csg/Liner Top</u>	<u>Setting Depth</u>	<u>Sacks Cmt</u>	<u>Cmt Btm</u>	<u>Cmt Top</u>
SURF	13+1/2	9+5/8	J-55	36	0	1877	620	1877	0
1ST	8+3/4	5+1/2	HCP-110	17	0	17597	3585	17597	0

☒ Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

<u>Zone Type</u>	<u>Formation /Hazard</u>	<u>Top M.D.</u>	<u>Top T.V.D.</u>	<u>Bottom M.D.</u>	<u>Bottom T.V.D.</u>	<u>TDS (mg/L)</u>	<u>Data Source</u>	<u>Comment</u>
Groundwater	Fox Hills	0	0	950	950	501-1000	DWR	
Confining Layer	Upper Pierre Shale	950	950	1350	1350			
Confining Layer	Pierre Shale	1350	1350	1865	1850			
Hydrocarbon	Sussex	1865	1850	5044	4853			
Hydrocarbon	Shannon	5044	4853	5200	5002			
Confining Layer	Lower Pierre	5200	5002	5354	5146			
Confining Layer	Sharon Springs	5354	5146	7798	7267			
Hydrocarbon	Niobrara	7798	7267	17597	7336			

OPERATOR COMMENTS AND SUBMITTAL

Comments

The distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells, is 0. This does not account for vertical separation. The unproductive surface leg of the planned well will cross the drilling Prairie LE 17-013HN, API No. 058-001-10069, productive leg. This distance is well over the 1500 feet needed. the Prairie LE 17-013HN is owned and operated by Great Western.

i. Explanation of the situation that has resulted in the need to sidetrack

• While drilling the lateral section in the Niobrara A chalk a fault was crossed at approximately 10,090 ft that put the bit into the Sharon Springs formation. Drilling continued to 13,193 ft. On 10/2/21 at that depth, a failure of the drilling motor occurred. During the trip out of the hole to replace the motor heavy amounts of Sharon Springs shale & bentonite rubble were encountered at 10,300 ft. The bit was temporarily stuck, but was able to be worked free. The trip out of the hole was completed and a new BHA was run back into the well on 10/3/21. Again at 10,090 ft heavy, flowing amounts of Sharon Springs rubble were encountered. Attempts were made for several hours to clean and condition the wellbore through this section. They were unsuccessful, and even if we were able to move through this area with the drill bit, there is significant risk of sticking the drill string deeper in the well, or later having a failed casing run through this spot. Therefore, the decision was made to openhole sidetrack the well. The sidetrack target puts the wellbore ~43 ft below and west of the existing wellbore. Drilling this much lower than the original wellbore will prevent from sending the drill bit into the Sharon Springs when the fault is encountered again at ~10,090 ft.

ii. Total measured depth reached in the wellbore being plugged back

• 13,193 ft

iii. Casing set – size(s) and measured depth(s)

• This a planned monobore so no liner or production casing has been run.
Surface casing is set at 1,877 ft.

iv. Description of fish in the hole (if any) – including top and bottom measured depths

• There is not a fish in the hole.

v. Description of proposed plugs: setting measured depths, heights, and cement volumes

• No plugs are being proposed. A kick-off point has been identified at 9,373 ft MD that meets the criteria for redirecting the wellbore. Oil based mud with density of ~11.1 ppg will be left in the abandoned lateral section.

vi. Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk)

• N/A

vii. Measured depth of proposed sidetrack kick-off point

• 9,373 ft MD

viii. Proposed objective formation(s) for sidetrack hole – new or same as the wellbore being abandoned

• The objective formation is the same: Niobrara A.

ix. BHL target for sidetrack hole – new or same as the wellbore being abandoned (NOTE: a change in the BHL must be reviewed and approved by COGCC Permitting prior to completing the sidetrack. Drilling a sidetrack to an unapproved BHL could result in an NOAV, plugging the well, or both).

• BHL of the sidetrack is essentially the same. Original plan was 1481 ft FEL and sidetrack plan is 1451 ft FEL. Both are 460 ft FNL. The new directional plan showing the sidetrack and the original plan is attached.

This application is in a Comprehensive Area Plan No

CAP #: _____

Oil and Gas Development Plan Name _____

OGDP ID#: _____

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: 10/4/2021

Email: agross@upstreampm.com

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

COGCC Approved: _____ Director of COGCC Date: _____
Expiration Date: _____

API NUMBER

05 001 10087 01

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

Description

Best Management Practices

No BMP/COA Type

Description

Attachment List

Att Doc Num

Name

402830507	WELLSBORE DIAGRAM
402830509	DEVIATED DRILLING PLAN
402830510	CORRESPONDENCE
402830527	DIRECTIONAL DATA

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
--	--	---------------------

Total: 0 comment(s)

Public Comments

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

