

FORM  
2

Rev  
05/22

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:

403180857

(SUBMITTED)

Date Received:

10/04/2022

APPLICATION FOR PERMIT TO

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

Amend ☐

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: Lost Hole Rig Skid

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: Ruby West

Well Number: 9R

Name of Operator: BAYSWATER EXPLORATION & PRODUCTION LLC

COGCC Operator Number: 10261

Address: 730 17TH ST STE 500

City: DENVER

State: CO

Zip: 80202

Contact Name: Lauren Walsh

Phone: (720)8814502

Fax: ( )

Email: lwalsh@bayswater.us

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): 20080034

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: NESW Sec: 7 Twp: 7N Rng: 65W Meridian: 6

FNL/FSL

FEL/FWL

Footage at Surface: 2602 Feet FSL 2427 Feet FWL

Latitude: 40.589694

Longitude: -104.707111

GPS Data:

GPS Quality Value: 1.7

Type of GPS Quality Value: PDOP

Date of Measurement: 04/27/2020

Ground Elevation: 4923

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: 12 Twp: 7N Rng: 66W

Footage at TPZ: 1691 FSL 470 FEL

Measured Depth of TPZ: 8205

True Vertical Depth of TPZ: 7218

FNL/FSL

FEL/FWL

**Base of Productive Zone (BPZ)**Sec: 11 Twp: 7N Rng: 66WFootage at BPZ: 1691 FSL 470 FWLMeasured Depth of BPZ: 17955True Vertical Depth of BPZ: 7228 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 11 Twp: 7N Rng: 66WFootage at BHL: 1691 FSL 470 FWL

FNL/FSL

FEL/FWL

**LOCAL GOVERNMENT PERMITTING INFORMATION**County: WELDMunicipality: N/A

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.? Yes

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: 01/07/2021

Comments: 1041WOGLA20-0073 submitted 10/1/2020, approved 1/7/2021

**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.)

Lease description is unchanged.

Total Acres in Described Lease: 292

Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # \_\_\_\_\_

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 2022 Feet  
Building Unit: 2278 Feet  
Public Road: 2420 Feet  
Above Ground Utility: 49 Feet  
Railroad: 5280 Feet  
Property Line: 45 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           | 407-3330                | 1280                          | All: 12, 11                          |

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: 470 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: 440 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: 17955 FeetTVD at Proposed Total Measured Depth 7228 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: 221 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 thanor 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             | N/A    | 42    | 0             | 80            | 400       | 80      | 0       |
| SURF        | 13+1/2       | 9+5/8          | J55    | 36    | 0             | 1500          | 660       | 1500    | 0       |
| 1ST         | 8+1/2        | 5+1/2          | HCP110 | 20    | 0             | 17955         | 2453      | 17955   | 2500    |

☐ 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     | Quaternary Alluvium | 0        | 0          | 42          | 42            | 501-1000   | Groundwater Sample | Sample Site ID 753695, 750020   |
| Groundwater     | Laramie/Fox Hills   | 42       | 42         | 440         | 440           | 501-1000   | Groundwater Sample | Sample Site ID 766369, 753716   |
| Groundwater     | Upper Pierre        | 440      | 440        | 1682        | 1682          | 501-1000   | Other              | Area Report Microsoft PowerPoint - UPWQ_PPT_01-29Hearing  |
| Confining Layer | Pierre Shale        | 1682     | 1682       | 4173        | 3943          |            |                    |   |
| Hydrocarbon     | Parkman             | 4173     | 3943       | 4573        | 4317          |            |                    |   |
| Hydrocarbon     | Sussex              | 4773     | 4469       | 5173        | 4802          |            |                    |   |
| Hydrocarbon     | Shannon             | 5373     | 5054       | 5773        | 5382          |            |                    |   |
| Confining Layer | Pierre Shale        | 5773     | 5382       | 7773        | 7101          |            |                    |   |
| Confining Layer | Sharon Springs      | 7773     | 7101       | 7873        | 7137          |            |                    |   |
| Hydrocarbon     | Niobrara            | 7873     | 7137       | 17955       | 7228          |            |                    | Potential Flow Formation Table: The TVD of the deepest hydrocarbon zone is the bottom of the well and not the bottom of the formation. The formation is not planned to be exited. |

**OPERATOR COMMENTS AND SUBMITTAL**

Comments



This form 2 is being submitted as a lost hole rig skid to replace the Ruby West 9 that is being plugged. Objective formation is unchanged as Niobrara.

This is a planned monobore so no liner or production casing has been run yet. Surface casing is set at 1,563 ft.

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

Total Length of Fish = 158'

Top of Fish @ 1,527' MD

Bottom of Fish @ 1,685' MD

Fish: Five (5) joints of wash pipe (7-7/8" ID) Guide shoe

Total Length of Fish = 183'

Top of Fish @ 4,175' MD

Bottom of Fish @ 4,348' MD

Fish: Two (2) joints of HWDP (5" x 3" ID) BHA (including bit, 7" motor, Baker AutoTrack rotary steerable assembly, collars, stabilizers and MWD components)

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

Three plugs are being proposed to abandon the wellbore:

Top of Fish at 4,175' up 500' @ 225 sx total (25% excess)

Across surface casing @ 1,613' @ 200 sx total (25% excess)

10 sx at surface and in cellar

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

15.8 ppg, 1.15 cuft/sx yield Class G cement

Verbal approval for lost hole rig skid by Diana Burn on 9/29/2022 submitted as correspondence.

COGCC Form 2 Contact = Sam Champlin

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

Oil and Gas Development Plan Name Ruby 7-J Pad OGDID #: 481736

Location ID: 482392

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

Signed: \_\_\_\_\_ Print Name: Jordan Lukasik

Title: Regulatory Analyst Date: 10/4/2022 Email: regulatory@ascentgeomatics.c

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

### 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

| <u>Att Doc Num</u> | <u>Name</u>            |
|--------------------|------------------------|
| 403183833          | DEVIATED DRILLING PLAN |
| 403183834          | DIRECTIONAL DATA       |
| 403183836          | WELL LOCATION PLAT     |
| 403183888          | CORRESPONDENCE         |

Total Attach: 4 Files

### General Comments

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

Total: 0 comment(s)



## Public Comments

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

