

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:

403022611

Date Received:

06/15/2022

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: Regina Well Number: 7-66-3-10-6N  
Name of Operator: ENERPLUS RESOURCES (USA) CORPORATION COGCC Operator Number: 10177  
Address: 950 17TH STREET #2200  
City: DENVER State: CO Zip: 80202  
Contact Name: Jacob Everhart Phone: (720)2796743 Fax: ( )  
Email: jeverhart@enerplus.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): 20170023

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: SESE Sec: 34 Twp: 8N Rng: 66W Meridian: 6

Footage at Surface: 471 Feet FSL 1237 Feet FEL

Latitude: 40.612663 Longitude: -104.758366

GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 10/23/2019

Ground Elevation: 4996

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: 3 Twp: 7N Rng: 66W Footage at TPZ: 500 FNL 500 FWL  
Measured Depth of TPZ: 8791 True Vertical Depth of TPZ: 7375 FNL/FSL FEL/FWL

**Base of Productive Zone (BPZ)**

Sec: 10 Twp: 7N Rng: 66W Footage at BPZ: 500 FSL 500 FWL  
Measured Depth of BPZ: 18273 True Vertical Depth of BPZ: 7375 FNL/FSL FEL/FWL

**Bottom Hole Location (BHL)**

Sec: 10 Twp: 7N Rng: 66W Footage at BHL: 500 FSL 500 FWL  
FNL/FSL FEL/FWL

**LOCAL GOVERNMENT PERMITTING INFORMATION**

County: WELD Municipality: 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: 09/18/2019

Comments: WOGLA Approved 09/18/2019. WOGLA19-0182

**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.)

Township 7 North, Range 66W, 6th PM Section 3: SW

Total Acres in Described Lease: 160 Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

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

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 384 Feet  
Building Unit: 805 Feet  
Public Road: 458 Feet  
Above Ground Utility: 444 Feet  
Railroad: 5280 Feet  
Property Line: 471 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           | 407-1782                | 1280                          | Sec 3 & 10: All                      |

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: 500 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: 332 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: 18273 Feet

TVD at Proposed Total Measured Depth 7375 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: 315 Feet ☐ No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is 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? 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? Yes

Reuse Facility ID: 450526 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   | 24           | 16             | J-55  | 65    | 0             | 80            | 179       | 80      | 0       |
| SURF        | 13+1/2       | 9+5/8          | J-55  | 36    | 0             | 1500          | 304       | 1500    | 0       |
| 1ST         | 8+1/2        | 5+1/2          | P-110 | 20    | 0             | 18273         | 2724      | 18273   |         |

☐ 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     | Fox Hills         | 0        | 0          | 1687        | 1687          | 501-1000   | USGS        |  |
| Confining Layer | Pierre Shale      | 1687     | 1687       | 4201        | 3985          |            |             |  |
| Groundwater     | Parkman           | 4201     | 3985       | 4600        | 4302          | 1001-10000 | Other       | DWLS formation water catalog   |
| Confining Layer | Pierre Shale      | 4600     | 4302       | 5732        | 5199          |            |             |  |
| Groundwater     | Shannon           | 5732     | 5199       | 5900        | 5325          | 1001-10000 | Other       | DWLS formation water catalog   |
| Confining Layer | Pierre Shale      | 5900     | 5325       | 8332        | 7234          |            |             |  |
| Confining Layer | Sharon Springs    | 8332     | 7234       | 8368        | 7254          |            |             |  |
| Hydrocarbon     | Niobrara          | 8368     | 7254       | 18273       | 7375          |            |             | Bottom TVD is bottom of the well and not bottom of the formation; the formation is not planned to be exited. |

## OPERATOR COMMENTS AND SUBMITTAL

Comments

This Form 2 is being submitted as an refile of API:  
05-123-46139.

The Weyburn 7-66-3-10-8C (API: 05-123-46138), Melfort 7-66-3-10-4N (API: 05-123-46141), Lloydminster 7-66-3-10-2N (API: 05-123-46412), Prince Albert 7-66-3-10-6C (API: 05-123-46147), and Polaris 8-66-34-33C (API: 05-123-50134) have been drilled and are producing. The well names/numbers, SHL/TPZ/BHZ/BHL/TMD/TVD, cultural distances, spacing, formation, casing grades, nearest well, and PFZ table information are being confirmed or amended for the following wells:

Dante 8-66-34-33 (API:05-123-50137)  
Luseland 7-66-3-10-2 (API:05-123-46144)  
Moose Jaw 7-66-3-10-5 (API:05-123-46149)  
Regina 7-66-3-10-6N (API:05-123-46139)  
Saskatoon 7-66-3-10-7 (API:05-123-46137)  
Saturn 8-66-34-33 (API:05-123-50135)  
Valiant 8-66-34-33 (API:05-123-50136)  
Yorkton 7-66-3-10-8 (API:05-123-46140)

There have been no new buildings constructed and no changes to the surrounding land use, mineral lease descriptions from the previously approved APD. The well site has been constructed. There are no proposed changes to the location disturbance or equipment. All previously submitted notices, Surface Use Agreements, and letters are also still valid.

The nearest outside operated well is the Mead 11 (API: 05-123-40186) PR status.  
The nearest well in unit is the Melfort 7-66-3-10-4N.

This application is in a Comprehensive Area Plan No CAP #: \_\_\_\_\_  
Oil and Gas Development Plan Name \_\_\_\_\_ OGDID ID#: \_\_\_\_\_  
Location ID: 453481

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 I Date: 6/15/2022 Email: regulatory@ascentgeomatics.c

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 COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved:  Director of COGCC Date: 8/11/2022  
Expiration Date: 08/10/2025

**API NUMBER**

05 123 46139 00

## 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.

### Condition of Approval

| <u>COA Type</u>                | <u>Description</u>  |
|--------------------------------|---|
| Construction                   | 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 Notice to Operators: Procedures for Preset Conductors (dated September 1, 2016).   |
|                                | The Location and its associated Form 2A materials was fully reviewed during the review of this APD. This APD complies with all COGCC Rules and is adequately protective of public health, safety, welfare, the environment, and wildlife resources. OGLA task passed.   |
| 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:<br>1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation.<br>2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation.<br>3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance. |
| Drilling/Completion Operations | 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU (Spud Notice), for the first well/activity on the pad and provide 48 hour spud notice for all subsequent wells drilled on the pad.<br>2) Comply with Rule 408.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log.<br>3) Oil-based drilling fluid is to be used only after all aquifers are covered.   |
| 5 COAs                         |   |

### Best Management Practices

| <u>No</u> | <u>BMP/COA Type</u>            | <u>Description</u>  |
|-----------|--------------------------------|---|
| 1         | Drilling/Completion Operations | Alternative Logging Program: The Lloydminster 7-66-3-10-2N (API 05-123-46142) has been 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 clearly state "Alternative Logging Program- No open-hole logs were run" and shall clearly identify the well Lloydminster 7-66-3-10-2N (API 05-123-46142) in which open-hole logs were run. |

Total: 1 comment(s)

### Attachment List

| <u>Att Doc Num</u> | <u>Name</u>            |
|--------------------|------------------------|
| 403022611          | FORM 2 SUBMITTED       |
| 403079730          | WELL LOCATION PLAT     |
| 403079732          | DEVIATED DRILLING PLAN |
| 403079736          | DIRECTIONAL DATA       |

|           |                            |
|-----------|----------------------------|
| 403080091 | OffsetWellEvaluations Data |
| 403133992 | OFFSET WELL EVALUATION     |

Total Attach: 6 Files

### **General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b>   | <b><u>Comment Date</u></b> |
|--------------------------|---|----------------------------|
| Engineer                 | Revised the "NO", to "YES", on the Drilling Plan tab, in the Beneficial reuse section, per the Operator.        | 08/01/2022                 |
| Permit                   | With operators concurrence changed from Amend to Refile and corrected Open Hole BMP.<br>Final Review Completed. | 07/28/2022                 |
| Engineer                 | Offset Wells re-Evaluated with this APD.  | 06/17/2022                 |

Total: 3 comment(s)