

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:

403013900

(SUBMITTED)

Date Received:

05/09/2022

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: Cowtown Well Number: 8-67-36-25  
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

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20170023

WELL LOCATION INFORMATION

Surface Location

QtrQtr: SESW Sec: 36 Twp: 8N Rng: 67W Meridian: 6  
Footage at Surface: 411 Feet FSL 1903 Feet FWL  
Latitude: 40.611611 Longitude: -104.843954  
GPS Data: GPS Quality Value: 2.0 Type of GPS Quality Value: PDOP Date of Measurement: 06/05/2018  
Ground Elevation: 5182  
Field Name: WILDCAT Field Number: 99999

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: 36 Twp: 8N Rng: 67W Footage at TPZ: 650 FSL 2075 FWL  
Measured Depth of TPZ: 7361 True Vertical Depth of TPZ: 7015 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 25 Twp: 8N Rng: 67W Footage at BPZ: 650 FNL 2075 FWL  
Measured Depth of BPZ: 16736 True Vertical Depth of BPZ: 7015 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 25 Twp: 8N Rng: 67W Footage at BHL: 650 FNL 2075 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.? 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: Other Date of Final Disposition: \_\_\_\_\_

Comments: Location was constructed prior to the implementation of pre-1041 WOGLA and 1041 regulations.

## 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.)

Township 8 North, Range 67W, 6th PM Section 36: W2

Total Acres in Described Lease: 320 Described Mineral Lease is: ☐ Fee ☒ State ☐ Federal ☐ Indian

Federal or State Lease # 2897.14

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 2956 Feet  
Building Unit: 3672 Feet  
Public Road: 3319 Feet  
Above Ground Utility: 2127 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: 5280 Feet  
Property Line: 411 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	535-736	640	S 36:W2 & S 25:W2

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: 650 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: 220 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

Order 535-823 captures missed parties on the original order (535-736).

## DRILLING PROGRAM

Proposed Total Measured Depth: 16736 Feet TVD at Proposed Total Measured Depth 7015 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: 1250 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? No

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	1500	16736	2496	16736	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	Fox Hills	0	0	1326	1326	501-1000	USGS	
Confining Layer	Pierre Shale	1326	1326	3532	3528			
Groundwater	Parkman	3532	3528	3800	3770	1001-10000	Other	DWLS formation water catalog
Confining Layer	Pierre Shale	3800	3770	4689	4679			
Groundwater	Shannon	4689	4679	4750	4730	1001-10000	Other	DWLS formation water catalog
Confining Layer	Pierre Shale	4750	4730	6945	6869			
Confining Layer	Sharon Springs	6945	6869	7003	6907			
Hydrocarbon	Niobrara	7003	6907	16736	7015			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 amendment of API: 05-123-44536.

The Maple 8-67-36-25C (API: 05-123-44539) and Beaufort 8-67-36-25C (API: 05-123-49310) 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:

Toque 8-67-36-25 (API:05-123-44534)  
 Double Double 8-67-36-25 (API:05-123-44535)  
 Cowtown 8-67-36-25 (API:05-123-44536)  
 Northwest Passage 8-67-36-25 (API:05-123-49311)  
 St Lawrence 8-67-36-25 (API:05-123-49312)  
 Hudson's Bay 8-67-36-25 (API:05-123-49313)

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 Lindstrom 24-8-67 1H (API #05-123-34284) SI status at 1250' per 2D calculation.

The nearest well in unit is the existing Maple 8-67-36-25C (API # 05-123-44539-01) PR status at 220'.

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

Oil and Gas Development Plan Name \_\_\_\_\_ OGDP ID#: \_\_\_\_\_

Location ID: 449800

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: 5/9/2022 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**

05 123 44536 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.

**COA Type**

**Description**

**Best Management Practices**

**No BMP/COA Type**

**Description**

1 Drilling/Completion Operations

Multi Well Open-Hole Logging - Rule 317.p: Alternative Logging Program: One of the first wells drilled on the pad – Maple 8-67-36-25C (API 05-123-44539). The first well drilled on this pad has been logged with open-hole Resistivity Log and Gamma Ray Log from the kick-off point into the surface casing. That info is attached to form 5 Doc# 402394702. All proposed wells related to this permit 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 "No open-hole logs were run" and shall clearly identify the well (Maple 8-67-36-25C (API 05-123-44539)) in which open-hole logs were run.

Total: 1 comment(s)

**Attachment List**

**Att Doc Num**

**Name**

403040924	WELL LOCATION PLAT
403041749	DIRECTIONAL DATA
403041846	OffsetWellEvaluations Data
403042029	DEVIATED DRILLING PLAN

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.

