

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:

403032621

(SUBMITTED)

Date Received:

08/02/2022

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: Ballyshannon    Well Number: 8-67-26-23

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)279 6743    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: SWSE    Sec: 26    Twp: 8N    Rng: 67W    Meridian: 6

Footage at Surface: 429 Feet FSL    2254 Feet FEL

Latitude: 40.626474    Longitude: -104.858673

GPS Data:    GPS Quality Value: 1.3    Type of GPS Quality Value: PDOP    Date of Measurement: 02/06/2017

Ground Elevation: 5188

Field Name: DJ HORIZONTAL NBRR-FTHYS-CODL    Field Number: 16953

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: 26    Twp: 8N    Rng: 67W    Footage at TPZ: 650    FSL    645    FEL

Measured Depth of TPZ: 7674    True Vertical Depth of TPZ: 7130    FNL/FSL    FEL/FWL

Base of Productive Zone (BPZ)  
 Sec: 23 Twp: 8N Rng: 67W Footage at BPZ: 650 FNL 645 FWL  
 Measured Depth of BPZ: 16708 True Vertical Depth of BPZ: 7130 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)  
 Sec: 23 Twp: 8N Rng: 67W Footage at BHL: 650 FNL 645 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: 01/31/2018

Comments: WOGLA17-0116 Submitted 12/18/2017, Approved 1/31/2018.

**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.)

E/2, Sec 26, 8N, 67W

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

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

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet  
Building Unit: 5280 Feet  
Public Road: 4855 Feet  
Above Ground Utility: 2721 Feet  
Railroad: 5280 Feet  
Property Line: 378 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	535-774	1280	26 & 23: 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: 645 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: 498 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: 17357 FeetTVD at Proposed Total Measured Depth 7160 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: 15 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  None

Beneficial reuse or land application plan submitted? \_\_\_\_\_

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	24	20	N/A	92	0	80	179	80	0
SURF	13+1/2	9+5/8	J55LTC	36	0	1500	304	1500	0
1ST	8+1/2	5+1/2	HCP110	20	0	17357	2588	17357	

 Conductor Casing is NOT planned**POTENTIAL FLOW AND CONFINING FORMATIONS**

Zone Type	Formation /Hazard	Top M.D.	Top I.V.D.	Bottom M.D.	Bottom I.V.D.	TDS (mg/L)	Data Source	Comment
Groundwater	Fox Hills	0	0	1348	1348	501-1000	USGS	
Confining Layer	Pierre Shale	1348	1348	3800	3698			
Groundwater	Parkman	3800	3698	4000	3876	1001-10000	Other	DWLS formation water catalog
Confining Layer	Pierre Shale	4000	3876	4800	4691			
Groundwater	Shannon	4800	4691	4900	4767	1001-10000	Other	DWLS formation water catalog
Confining Layer	Pierre Shale	4900	4767	7300	7003			
Confining Layer	Sharon Springs	7300	7003	7400	7047			
Hydrocarbon	Niobrara	7400	7047	17357	7160			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 refile of API: 05-123-44923.

The Sligo 8-67-26-23C (API: 05-123-49921) and Pot O' Gold 8-67-35-2C (API: 05-123-44918) 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:

- Ballyshannon 8-67-26-23 (API:05-123-44923)
- Benroe 8-67-26-23 (API:05-123-44922)
- Carrick 8-67-26-23 (API:05-123-44925)
- Clogfin 8-67-26-23 (API:05-123-44926)
- Donegal 8-67-35-2 (API:05-123-44919)
- Killybegs 8-67-26-23 (API:05-123-44928)
- Lough Erne 8-67-26-23 (API:05-123-44931)
- Shamrock 8-67-26-23 (API:05-123-44930)
- Blarney 8-67-35-2 (API:05-123-44920)
- Leprechaun 8-67-35-2 (API:05-123-44924)
- Barmbrack 8-67-35-2 (API:05-123-44929)
- Colcannon 8-67-35-2 (API:05-123-44932)
- Charm 8-67-35-2 (API:05-123-44927)
- Celtic 8-67-35-2 (API:05-123-44917)

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 well in unit per anti-collision is updated to the Killybegs 8-67-26-23 @ 498'.  
The nearest outside operated well per 2-D calculation updated to the Elizabeth Miller 1 (API: 05-123-08000) DA Status @ 15'. Well is DA status; no 408.u is required.

This application is in a Comprehensive Area Plan       No       CAP #: \_\_\_\_\_  
 Oil and Gas Development Plan Name \_\_\_\_\_ OGDID #: \_\_\_\_\_  
 Location ID:       450827        
 I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.  
 Signed: \_\_\_\_\_ Print Name:       Justin Garrett        
 Title:       Sr. Regulatory Analyst       Date:       8/2/2022       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: \_\_\_\_\_

<b>API NUMBER</b>
05 123 44923 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.**

<u>COA Type</u>	<u>Description</u>

## Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	Alternative Logging Program: The Sligo 8-67-26-23C (API 05-123-44921) 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 Sligo 8-67-26-23C (API 05-123-44921) in which open-hole logs were run.

Total: 1 comment(s)

### Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403108109	OffsetWellEvaluations Data
403108120	DEVIATED DRILLING PLAN
403108123	DIRECTIONAL DATA
403108141	WELL LOCATION PLAT

Total Attach: 4 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	<p>RETURNED TO DRAFT: This application has been reviewed by COGCC staff and cannot be approved based on the information submitted; therefore, the COGCC is returning this form to DRAFT for the applicant to resolve the issues. In compliance with § 24-65.1-108(1), C.R.S., the COGCC is returning this application to the applicant to remedy the deficiencies. The applicant may resubmit this application for COGCC review; upon resubmittal of any application, the COGCC will have 60 days in which to approve, deny, or request all additional information necessary to complete the regulatory review.</p> <p>In addition to all standard required information and attachments, the COGCC hereby confirms the following information is necessary for review:</p> <ol style="list-style-type: none"> <li>1. Well type</li> <li>2. Field name</li> <li>3. Top of Productive zone footages.</li> <li>4. Measured Depth of TPZ</li> <li>5. Measured Depth of BPZ</li> <li>6. Spacing order</li> <li>7. Refile comment</li> <li>8. Open Hole BMP.</li> </ol>	07/29/2022

Total: 1 comment(s)

**Public Comments**

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

