

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:

403213139

(SUBMITTED)

Date Received:

11/04/2022

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: Glenmore Trails Well Number: 7-67-3-34C
 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: SWSW Sec: 26 Twp: 8N Rng: 67W Meridian: 6

Footage at Surface: 345 Feet FSL 272 Feet FWL

Latitude: 40.626263 Longitude: -104.868545

GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 10/04/2022

Ground Elevation: 5154

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: 34 Twp: 8N Rng: 67W Footage at TPZ: 660 FNL 2043 FWL

Measured Depth of TPZ: 8658 True Vertical Depth of TPZ: 7305 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 3 Twp: 7N Rng: 67W Footage at BPZ: 660 FSL 2043 FWL
Measured Depth of BPZ: 18081 True Vertical Depth of BPZ: 7305 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 3 Twp: 7N Rng: 67W Footage at BHL: 660 FSL 2043 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? [X] Yes [] No

[X] 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: 07/23/2020

Comments: 1041WOGLA20-0050 approved on 7/23/2020

SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS LOCATION

Surface Owner of the land at this Well's Oil and Gas Location: [X] Fee [] State [] Federal [] Indian

Mineral Owner beneath this Well's Oil and Gas Location: [X] 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):

- [X] Fee [] State [X] 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.)

E2SW SEC 34 T8N R67W

Total Acres in Described Lease: 73 Described Mineral Lease is: [] Fee [] State [X] Federal [] Indian

Federal or State Lease # COC 079377

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet
 Building Unit: 5280 Feet
 Public Road: 4961 Feet
 Above Ground Utility: 4928 Feet
 Railroad: 5280 Feet
 Property Line: 272 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.)
CODELL	CODL	407-2359	1280	3-7-67 & 34-8-67: 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: 660 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: 794 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: 18081 Feet TVD at Proposed Total Measured Depth 7305 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: 1134 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: 475549 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	18081	2725	18081	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	1297	1297	501-1000	USGS	
Confining Layer	Pierre Shale	1297	1297	3649	3537			
Groundwater	Parkman	3649	3537	4000	3817	1001-10000	Other	DWLS formation water catalog
Confining Layer	Pierre Shale	4000	3817	5094	4692			
Groundwater	Shannon	5094	4692	5200	4782	1001-10000	Other	DWLS formation water catalog
Confining Layer	Pierre Shale	5200	4782	7955	6957			
Confining Layer	Sharon Springs	7955	6957	8003	6995			
Hydrocarbon	Niobrara	8003	6995	8482	7279			
Confining Layer	Fort Hays	8482	7279	8574	7299			
Hydrocarbon	Codell	8574	7299	18081	7305			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: 05-123-51358.

No wells have been drilled. 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:

- Glenmore Trail 7-67-3-34C (API:05-123-51358)
- Crowchild 7-67-3-34C (API:05-123-51359)
- Sarcee 7-67-3-34C (API:05-123-51360)
- McKnight 7-67-3-34C (API:05-123-51361)

The remaining 4 well slots are being submitted along with the above amended Form 2s for the following wells:

- Macleod Trail 7-67-3-34
- Deerfoot Trail 7-67-3-34
- Memorial 7-67-3-34
- Bow Trail 7-67-3-34

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 and letters are also still valid.

The nearest well in unit per anti-collision is the proposed Macleod Trail 7-67-3-34 at 794'.

The nearest outside operated well per 2-D calculation is the Blehm 1X-HC-10-07-67 (API: 05-123-51481) AP status at 1134'.

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

Oil and Gas Development Plan Name _____ OGDP ID#: _____

Location ID: 478120

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: 11/4/2022 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
05 123 51358 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>
0 COA	

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	One of the first wells drilled on the pad during the first rig occupation will be logged with open-hole resistivity log with gamma-ray log from the kick-off point into the surface casing for one of the stratigraphically deepest wells on the pad. 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 will state "Alternative Logging Program - No open-hole logs were run" and will clearly identify the type of log and the well (by API#) in which open-hole logs were run.

Total: 1 comment(s)

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403218488	DIRECTIONAL DATA
403218490	DEVIATED DRILLING PLAN
403218491	WELL LOCATION PLAT
403218548	OffsetWellEvaluations Data

Total Attach: 4 Files

General Comments

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

Total: 0 comment(s)