

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:

402584316

(SUBMITTED)

Date Received:

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: ELU O13 FED

Well Number: 24A-13-496

Name of Operator: CAERUS PICEANCE LLC

COGCC Operator Number: 10456

Address: 1001 17TH STREET #1600

City: DENVER

State: CO

Zip: 80202

Contact Name: Reed Haddock

Phone: (720)880-6369

Fax: (303)565-4606

Email: rhaddock@caerusoilandgas.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20130021

WELL LOCATION INFORMATION

Surface Location

QtrQtr: SWSE Sec: 13 Twp: 4S Rng: 96W Meridian: 6

Footage at Surface: 1285 Feet FSL 2225 Feet FEL

Latitude: 39.698677 Longitude: -108.115570

GPS Data: GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP

Date of Measurement: 05/18/2020

Ground Elevation: 8119

Field Name: GRAND VALLEY

Field Number: 31290

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: 13 Twp: 4S Rng: 96W

Footage at TPZ: 2037 FSL 1240 FEL

Measured Depth of TPZ: 8761

True Vertical Depth of TPZ: 8667

FNL/FSL

FEL/FWL

Base of Productive Zone (BPZ)

Sec: 13 Twp: 4S Rng: 96W

Footage at TPZ: 2002 FSL 1334 FEL

Measured Depth of TPZ: 12700

True Vertical Depth of TPZ: 12605

FNL/FSL

FEL/FWL

Bottom Hole Location (BHL)

Sec: 13 Twp: 4S Rng: 96W

Footage at BHL: 2002 FSL 1334 FEL

FNL/FSL

FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: RIO BLANCO

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: Waived Date of Final Disposition: _____

Comments: Caerus Piceance LLC contacted Rio Blanco County and they have no siting regulations. Rio Blanco County has waived its right to precede the COGCC in siting determination. Contact Lanney Massey, Rio Blanco LGD and NRS at 970-878-9586 for questions.

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.)

Sec. 13 T4S-96W - Lots 1-4, S2N2, NWSW, S2SW, SE, and other land.

Total Acres in Described Lease: 1890 Described Mineral Lease is: ☐ Fee ☐ State ☒ Federal ☐ Indian

Federal or State Lease # COC57684

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 365 Feet
Building Unit: 5280 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

Public Road: 423 Feet
Above Ground Utility: 5280 Feet
Railroad: 5280 Feet
Property Line: 1285 Feet

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.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| WILLIAMS FORK | WMFK | 1-229 | | |

Federal or State Unit Name (if appl): Ex Liberty Unit

Unit Number: COC69926X

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: 2002 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: 265 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: 12992 Feet

TVD at Proposed Total Measured Depth 12897 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: _____ 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? No

BOP 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 | 30 | 20 | A252 | 54# | 0 | 100 | 218 | 100 | 0 |
| SURF | 14+3/4 | 9+5/8 | J55 | 36# | 0 | 3000 | 710 | 3000 | 0 |
| 1ST | 8+3/4 | 4+1/2 | HCP110 | 11.6# | 0 | 12992 | 1163 | 12992 | 4200 |

☐ 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 | Green River | 0 | 0 | 1900 | 1885 | 501-1000 | CGS | |
| Confining Layer | Wasatch | 4093 | 4053 | 6500 | 6430 | | | |
| Hydrocarbon | Wasatch G | 6523 | 6453 | 6800 | 6727 | | | |
| Confining Layer | Ft. Union | 6826 | 6753 | 8700 | 8606 | | | |
| Hydrocarbon | Ohio Creek | 8761 | 8667 | 9300 | 9206 | >10000 | Produced Water Sample | |
| Hydrocarbon | William Fork | 9302 | 9208 | 12200 | 12105 | >10000 | Produced Water Sample | |
| Hydrocarbon | Cameo | 12292 | 12197 | 12700 | 12605 | >10000 | Produced Water Sample | |
| Hydrocarbon | Rollins | 12792 | 12697 | 12900 | 12805 | >10000 | Produced Water Sample | |

OPERATOR COMMENTS AND SUBMITTAL

Comments Caerus Piceance LLC plans to drill 26 wells on pad. The attached Federal APD is confidential.

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

Oil and Gas Development Plan Name _____ OGDID #: _____

Location ID: 479185

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

Signed: _____ Print Name: Reed Haddock

Title: Regulatory Lead Date: _____ Email: rhaddock@caerusoilandgas.co

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

| | | |
|---|--------------------------------|---|
| 1 | Planning | Alternative Logging Program: The first well drilled on the pad will be logged with openhole resistivity log with gamma-ray log from TD 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 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. |
| 2 | Planning | The associated well pad Location ID: 479185 was approved on January 11, 2021 by the COGCC. The BLM White River Field Office (WRFO) approved the Application for Permit to Drill (APD) for this well on December 2, 2020 under the land use planning review of the WRFO Record of Decision and Approved Resource Management Plan (ROD/RMP), as amended by the WRFO Oil and Gas Development Plan Approved Resource Management Plan Amendment and the Northwest Colorado Greater Sage-Grouse Approved RMPA. Please reference the attached WRFO Environmental Assessment from November 2020 and the Decision Record approved by the WRFO BLM on November 25, 2020, which specifically addresses the criteria in which the associated well pad was evaluated and approved. |
| 3 | Drilling/Completion Operations | Closed loop system will be used. No pits will be built. Caerus will ensure 110 percent secondary containment for any potential volume of fluids that may be released. |

Total: 3 comment(s)

Attachment List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-------------------------|
| 402584390 | FED. DRILLING PERMIT |
| 402584391 | WELL LOCATION PLAT |
| 402584392 | LEGAL/LEASE DESCRIPTION |
| 402584393 | DEVIATED DRILLING PLAN |
| 402584395 | DIRECTIONAL DATA |
| 402584399 | SURFACE AGRMT/SURETY |

Total Attach: 7 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.

