

**APPLICATION FOR PERMIT TO:**

**Drill**       Deepen       Re-enter       Recomplete and Operate

TYPE OF WELL    OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> COALBED <input type="checkbox"/> OTHER _____ ZONE TYPE       SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONES <input type="checkbox"/> COMMINGLE ZONES <input type="checkbox"/>	Refiling <input type="checkbox"/> Sidetrack <input type="checkbox"/>
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Date Received:  
01/21/2016

Well Name: Battlement Mesa      Well Number: 42B-35-795  
 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**  
 QtrQtr: Lot 12    Sec: 36    Twp: 7S    Rng: 95W    Meridian: 6  
 Latitude: 39.392154      Longitude: -107.952883

Footage at Surface: <u>2055</u> feet	FNL/FSL	FEL/FWL
<u>FSL</u> <u>745</u> feet <u>FWL</u>		

Field Name: PARACHUTE      Field Number: 67350  
 Ground Elevation: 8900      County: GARFIELD

GPS Data:  
 Date of Measurement: 10/13/2015    PDOP Reading: 1.9    Instrument Operator's Name: Robert Wood

If well is  Directional     Horizontal (highly deviated)    **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL	FEL/FWL	Bottom Hole: FNL/FSL	FEL/FWL
<u>1671</u> FNL <u>714</u> FEL	<u>1671</u> FNL <u>714</u> FEL		
Sec: <u>35</u> Twp: <u>7S</u> Rng: <u>95W</u>	Sec: <u>35</u> Twp: <u>7S</u> Rng: <u>95W</u>		

**LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT**

Surface Ownership:  Fee     State     Federal     Indian

The Surface Owner is:  is the mineral owner beneath the location.  
 (check all that apply)  is committed to an Oil and Gas Lease.  
 has signed the Oil and Gas Lease.  
 is the applicant.

The Mineral Owner beneath this Oil and Gas Location is:  Fee     State     Federal     Indian

The Minerals beneath this Oil and Gas Location will be developed by this Well: No

The right to construct the Oil and Gas Location is granted by: applicant is owner

Surface damage assurance if no agreement is in place: \_\_\_\_\_      Surface Surety ID: \_\_\_\_\_

**LEASE INFORMATION**

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

Sec. 35, T7S-R95W: SENE, NESE and other lands. Sec. 36, T7S-R95W: Lots 5, 11, 12, and other lands. Total acres in describe lease: 200  
The nearest mineral lease line is the SW corner of Lot 4, Sec. 36, T7S, R95W.

Total Acres in Described Lease: 200 Described Mineral Lease is:  Fee  State  Federal  Indian

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

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 852 Feet

**CULTURAL DISTANCE INFORMATION**

Distance to nearest:

Building: 5046 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 3664 Feet  
Above Ground Utility: 5106 Feet  
Railroad: 5280 Feet  
Property Line: 784 Feet

**INSTRUCTIONS:**

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).  
- 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, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

**DESIGNATED SETBACK LOCATION INFORMATION**

Check all that apply. This location is within a:  Buffer Zone  
 Exception Zone  
 Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit  
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.  
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: \_\_\_\_\_

**SPACING and UNIT INFORMATION**

Distance from completed portion of proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the same formation: 342 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 714 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

**SPACING & FORMATIONS COMMENTS**

Sec. 35, T7S-R95W

**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	139-53	640	All - Sec. 35

**DRILLING PROGRAM**

Proposed Total Measured Depth: 10222 Feet

Distance from proposed wellbore to nearest existing or permitted wellbore belonging to another operator:

34 Feet (Including plugged wells)

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 Operations Plan)

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: [X] Annular Preventor [X] Double Ram [X] Rotating Head [ ] None

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: ONSITE Drilling Fluids Disposal Methods: Recycle/reuse

Cuttings Disposal: ONSITE Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

Waste Management Plan attached to Form 2A.

Beneficial reuse or land application plan submitted?

Reuse Facility ID: or Document Number:

CASING PROGRAM

Table with 9 columns: Casing Type, Size of Hole, Size of Casing, Wt/Ft, Csg/Liner Top, Setting Depth, Sacks Cmt, Cmt Btm, Cmt Top. Rows include CONDUCTOR, SURF, and 1ST.

[ ] Conductor Casing is NOT planned

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- Rule 318A.a. Exception Location (GWA Windows).
Rule 318A.c. Exception Location (GWA Twinning).

RULE 502.b VARIANCE REQUEST

[ ] Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number

**OTHER LOCATION EXCEPTIONS**

Check all that apply:

Rule 318.c. Exception Location from Rule or Spacing Order Number \_\_\_\_\_

Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

**OPERATOR COMMENTS AND SUBMITTAL**

Comments

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 334180

Is this application being submitted with an Oil and Gas Location Assessment application? Yes

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: Sr. Regluatory Specialist Date: 1/21/2016 Email: rhaddock@caerusoilandgas.co

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 and applicable orders and is hereby approved.

COGCC Approved: *Matthew Lee* Director of COGCC Date: 5/12/2016

Expiration Date: 05/11/2018

**API NUMBER**  
05 045 23145 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

	<p>(1) Operator shall comply with the most current revision of the Northwest Notification Policy.</p> <p>(2) In lieu of the standard Form 42 spud notice required by the Northwest Notification Policy, submit Form 42 Rulison SAP - Spud Notice, specifying the bottom hole location sector and tier.</p> <p>(3) Operator shall provide complete well-specific emergency contact information to COGCC via email prior to spudding this well. DNR_Rulison.Submittal@state.co.us</p> <p>(4) Operator shall comply with all provisions of the most recent COGCC-approved revision of the Rulison Sampling and Analysis Plan.</p> <p>(5) Operator shall comply with the most current revision of the Garfield County Rulison Field Notice to Operators, with the following exception: All field notice requirements specified in that Notice to Operators are superseded by the requirements of the most current revision of the Northwest Colorado Notification Policy (see Condition of Approval #1).</p> <p>(6) Operator's proposed surface casing setting depth of 2,500' (measured depth) shall be adjusted as necessary, such that the surface casing is set 50' or more below the Green River Formation / Wasatch Formation contact. See comment below regarding depth to this contact (Wasatch Formation top).</p> <p>(7) Operator shall provide cement coverage from the production casing shoe (4+1/2" FIRST STRING) to a minimum of 200' above the Lower Wasatch (as defined by COGCC's Field Scout Card, Document No. 2056203 and Annotated Type Logs for the Parachute Field) to provide isolation of all Mesaverde Group and underlying formations, if penetrated, the Ohio Creek Formation, and the lower portion of the Wasatch Formation. Verify production casing cement coverage with a cement bond log. See comment below regarding operator's proposed First String top of cement.</p> <p>(8) Operator shall perform an anti-collision evaluation for offset Dry and Abandoned well Battlement Mesa 36-23CXX (045-15471) that has the potential of being within 150 feet of the proposed well prior to drilling operations for the proposed well (Rule 317.r. notice is not required).</p>
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## Best Management Practices

### No BMP/COA Type

### Description

1	Planning	In compliance with Rule 317.p the first well that is operationally feasible on the Battlement Mesa 36L-795 pad will be logged with an open-hole Resistivity Log and Gamma Ray Log from TD into the surface casing. All wells on the pad will have a Cement Bond Log with cased-hole Gamma Ray run on the production casing. The Form 5 Completion Report will list all the logs run in the subject well and identify the well that was logged with the open-hole Resistivity Log.
2	Drilling/Completion Operations	Caerus Operating LLC will adhere to the COGCC Policy for Bradenhead Monitoring effective May 29, 2012.

Total: 2 comment(s)

## Applicable Policies and Notices to Operators

Policy
Piceance Rulison Field - Notice to Operators. <a href="http://cogcc.state.co.us/documents/reg/Policies/NoticeToOp-20060623-2.pdf">http://cogcc.state.co.us/documents/reg/Policies/NoticeToOp-20060623-2.pdf</a>
NW Colorado Notification Policy. <a href="http://cogcc.state.co.us/documents/reg/Policies/nw_notification_procedures.pdf">http://cogcc.state.co.us/documents/reg/Policies/nw_notification_procedures.pdf</a>
Notice Concerning Operating Requirements for Wildlife Protection. <a href="http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf">http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf</a>

## Attachment Check List

<b>Att Doc Num</b>	<b>Name</b>
2168085	DOE APPROVAL LETTER
400953135	FORM 2 SUBMITTED
400972117	DEVIATED DRILLING PLAN
400972119	DIRECTIONAL DATA
400972789	WELL LOCATION PLAT
400974347	TOPO MAP

Total Attach: 6 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	<p>Offset water well check: COGCC evaluated offset water wells within one mile of this proposed well's surface hole location. This information was used in addition to locally-available geophysical logs and hydrogeologic information to evaluate the adequacy of the operator's proposed surface casing setting depth. The deepest water well within one mile is 98 feet.</p> <p>Geologic Isolation Comments: Landslide deposits are present at surface, likely underlain by the Uinta Formation. The Green River Formation / Wasatch Formation contact (Wasatch Formation top) shown on Directional Survey #1697355 (offset producing well Battlement Mesa 36-13D, 045-15468, located on the same pad as this proposed well) is approximately 2,400' (vertical depth). The following formation tops were selected by COGCC from the Reservoir Monitoring Tool Elite log #1372445 for 045-15468 (correlated to COGCC's Field Scout Card, Document No. 2056203 and Annotated Type Logs for the Parachute Field): Ohio Creek 6,277' vertical depth below the pad (2,624' AMSL) and Lower Wasatch 6,198' vertical depth below the pad (2,703' AMSL). Condition of Approval #7 requires a First String cement top 200' above the Lower Wasatch. Operator's proposed cement top of 5819' measured depth appears to satisfy this criterion. Based on COGCC offset log review, Fort Union Formation cement coverage is not required for wells on this pad.</p>	5/12/2016 12:16:24 PM
Final Review	<p>Contacted operator (Reed Haddock) on 5/11/2016 to change "Distance from proposed wellbore to nearest existing or permitted wellbore belonging to another operator (including plugged wells)." Operator provided a revised distance to the closest well with a different operator of record, Battlement Mesa #36-23CXX (located on the same pad, 045-15471, a Dry and Abandoned well plugged by Noble Energy Inc). Changed distance on this Form 2 to the correct SHL to SHL distance: changed value from 2108' to 34' with concurrence from operator on 5/11/2016. Wellbore-to-wellbore distance is less than 150'. Added anti-collision Condition of Approval to this form.</p>	5/12/2016 12:16:03 PM
Final Review	<p>Copied from OGLA Comment on Form 2A #400972039, "...corrected distance from Wellhead to Designated Outdoor Activity Area (from 3672' to 5280')...per review of COGCC's Online GIS Map and the DOAA layer (concurred by operator on 03-02-16)..." Changed Designated Outside Activity Area on this Form 2 from 3701' to 5280'.</p>	5/12/2016 12:15:48 PM
Permit	<p>Attached DOE Approval Letter. Final review complete.</p>	4/5/2016 3:59:19 PM
Permit	<p>Request for approval letter sent to DOE. Added "Lot" to location qtr/qtr. Corrected lease description and acres in lease from 1685 to 200 as per operator. Ready to pass pending 2A approval by OGLA and DOE.</p>	2/9/2016 4:18:34 PM
Engineer	<p>Evaluated existing offset oil and gas wells within 1,500 feet of this wellbore. No mitigation required.</p>	1/25/2016 3:29:01 PM
Permit	<p>Passed completeness.</p>	1/22/2016 12:03:48 PM

Total: 7 comment(s)