

**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:  
402220098

**APPLICATION FOR PERMIT TO:**

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

Date Received:  
12/16/2019

TYPE OF WELL    OIL ☒    GAS ☐    COALBED ☐    OTHER: \_\_\_\_\_

Refiling ☒

ZONE TYPE    SINGLE ZONE ☒    MULTIPLE ZONES ☐    COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: Buford      Well Number: 33-7-1L  
Name of Operator: CONFLUENCE DJ LLC      COGCC Operator Number: 10518  
Address: 1001 17TH STREET #1250  
City: DENVER      State: CO      Zip: 80202  
Contact Name: Brittany Rothe      Phone: (303)226-9519      Fax: ( )  
Email: brothe@confluencelp.com

**RECLAMATION FINANCIAL ASSURANCE**

Plugging and Abandonment Bond Surety ID: 20160056

**WELL LOCATION INFORMATION**

QtrQtr: SWSW      Sec: 33      Twp: 1N      Rng: 65W      Meridian: 6  
Latitude: 40.003100      Longitude: -104.676810  
Footage at Surface: 935 Feet      FNL/FSL FSL 450 Feet      FEL/FWL FWL  
Field Name: WATTENBERG      Field Number: 90750  
Ground Elevation: 5081      County: WELD  
GPS Data:      GPS Quality Value: 1.2      Type of GPS Quality Value: PDOP      Date of Measurement: 05/03/2017  
Instrument Operator's Name: Kyle Daley

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  
470      FSL      1746      FWL      470      FNL      1746      FWL  
Sec: 33      Twp: 1N      Rng: 65W      Sec: 28      Twp: 1N      Rng: 65W

**LOCAL GOVERNMENT INFORMATION**

County: WELD      Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "local government with jurisdiction to approve the siting of the proposed oil and gas location."

The local government with jurisdiction is: County

Does the local government with jurisdiction regulate the siting of Oil and Gas Locations, with respect to this location? If the local government does regulate the siting, but has waived its right to precede the COGCC in siting determination, indicate by selecting "YES" here and selecting "Waived" for the disposition below.      ☒ 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 local government siting permit type is: 1041 WOGLA

The local government siting permit was filed on: 09/06/2017

The disposition of the application filed with the local government is: Approved

Additional explanation of local process:

This WOGLA was approved on 10/03/17.

## 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: Yes

The right to construct the Oil and Gas Location is granted by: Surface Use Agreement

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.)

T1N-R65W Section 33: All

Total Acres in Described Lease: 640 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: 0 Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building:	<u>1895</u> Feet
Building Unit:	<u>2163</u> Feet
High Occupancy Building Unit:	<u>5280</u> Feet
Designated Outside Activity Area:	<u>5280</u> Feet
Public Road:	<u>919</u> Feet
Above Ground Utility:	<u>515</u> Feet
Railroad:	<u>5280</u> Feet
Property Line:	<u>450</u> Feet
School Facility:	<u>5280</u> Feet
School Property Line:	<u>5280</u> Feet
Child Care Center:	<u>5280</u> 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, Designated Outside Activity Area, School Facility, and Child Care Center – 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: 165 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 470 Feet (Enter 5280 for distance greater than 1 mile.)

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

## SPACING & FORMATIONS COMMENTS

T1N R65W Section 28 & 33: All

If this Form 2 is associated with a Drilling and Spacing Unit application, provide docket number: \_\_\_\_\_

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
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NIOBRARA	NBRR	407-2173	1280	S. 28 & 33: All
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## DRILLING PROGRAM

Proposed Total Measured Depth: 17388 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: 6 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 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? Yes

BOP Equipment Type: ☒ Annular Preventor ☒ Double Ram ☒ Rotating Head ☐ None

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted?

Reuse Facility ID:  or Document Number:

## CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	26	16	43	0	80	400	80	0
SURF	13+1/2	9+5/8	36	0	1500	878	1500	0
1ST	8+1/2	5+1/2	20	0	17388	1882	17388	

☐ 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	<p>Distance from completed portion of the wellbore to nearest wellbore permitted or completed well in the same formation and within the unit was measured to the permitted Buford 33-8-4L measured in 2-D.</p> <p>The distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells was measured to the PA'd Glen Young 2 in 2-D separation.</p> <p>Changes to this well are: landing point, bottom hole, casing and cement program.</p> <p>Exception Location waivers are located in the Surface Use Agreement on page 2, section 5.</p> <p>The oil and gas location has been built and has producing wells on it.</p> <p>A form 4 was submitted updating the Best Management Practices (BMP"s), the document number for that form 4 is: 402260350</p>
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This application is in a Comprehensive Drilling Plan \_\_\_\_\_ No \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 452048

Is this application being submitted with an Oil and Gas Location Assessment application? \_\_\_\_\_ No \_\_\_\_\_

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

Signed: \_\_\_\_\_ Print Name: Andrea Gross

Title: Permit Agent Date: 12/16/2019 Email: agross@upstreampm.com

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, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved:  Director of COGCC Date: 12/28/2020

Expiration Date: 12/27/2022

### API NUMBER

05 123 45536 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>
Interim Reclamation	Operator shall comply with Notice to Operators: Interim Reclamation Procedures for Delayed Operations (dated January 5, 2017).
Interim Reclamation	If conductors are preset, operator shall comply with Notice to Operators: Procedures for Preset Conductors (dated September 1, 2016, revised October 6, 2016).
Drilling/Completion Operations	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU (spud notice) for the first well activity with a rig on the pad and provide 48 hour spud notice via Form 42 for all subsequent wells drilled on the pad. 2) Comply with Rule 317.j. and provide cement coverage from TD to a minimum of 200' above Niobrara and from 200' below Sussex to 200' above Sussex. Verify coverage with cement bond log. 3) Oil-based drilling fluid is to be used only after all fresh water aquifers are covered.
Drilling/Completion Operations	Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.

## Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	Logging: The Buford 33-9-3L, API No. 05-123-45544, well drilled on the pad was logged with an 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 "No open-hole logs were run. The Buford 33-9-3L, API No. 05-123-45544, is the well in which open-hole logs were run.
2	Drilling/Completion Operations	Anti-collision: Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.
3	Drilling/Completion Operations	Bradenhead Monitoring: Operator acknowledges and will comply with COGCC Policy for Braden-head Monitoring during Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated May 29, 2012.

Total: 3 comment(s)

## Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.  
[http://cogcc.state.co.us/documents/reg/Policies/Wildlife\\_Notice.pdf](http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf)

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.  
<http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf>

## Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402220098	FORM 2 RESUBMITTED

402260774	FORM 2 REJECTED
402261413	OffsetWellEvaluations Data
402261416	DIRECTIONAL DATA
402261417	DEVIATED DRILLING PLAN
402261418	WELL LOCATION PLAT
402261420	SURFACE AGRMT/SURETY
402272534	EXCEPTION LOC REQUEST
402561484	OFFSET WELL EVALUATION

Total Attach: 9 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	11/02/2020
Permit	•Permitting review complete and ready to pass.	10/29/2020
Permit	Following additional analysis arising out of the Objective Criteria, the Director determined that this application meets the standard for the protection of public health, safety, and welfare and the environment, including wildlife resources set by SB 19-181. The Objective Criteria Review Memo (Doc# 1347986) can be found in the document file for Location ID 452048.	10/29/2020
OGLA	IN PROCESS comment - Received requested information from operator on 10/27/2020. COGCC review will resume and be conducted within 60 days (by 12/26/2020).	10/27/2020
Permit	ON HOLD: This application has been reviewed by COGCC staff and cannot be approved based on the information submitted; therefore, the COGCC is placing this form ON HOLD until additional information is received from the applicant. In compliance with § 24-65.1-108(1), C.R.S., the COGCC is providing this written request for all additional information necessary for the COGCC to respond to this application. The applicant may provide all requested additional information to COGCC via email. Upon receipt of all requested information, the COGCC will have 60 days in which to approve, deny, or request all additional information necessary to complete the regulatory review. If the applicant no longer requires this application be approved, the applicant may request to withdraw the application. In addition to all standard required information and attachments, the COGCC hereby confirms the following information is necessary for review: 1. Provide air monitoring BMP language for this site. The BMP may state that the plan will be submitted for review and approval after the approval of the APDs.	03/03/2020
Engineer	Offset Wells Evaluated.	01/07/2020
Permit	Passed completeness.	01/03/2020
Permit	Returned to Draft: •The attached exception location request has an incorrect document number for this well. The document number must be corrected prior to the determination of completeness.	12/26/2019
Permit (Rejected)	This application has been reviewed by COGCC staff and cannot be approved based on the information submitted; therefore, the COGCC is rejecting this application consistent with the Rejection Process – Form 2 and 2A (May 21, 2019) posted in the Form 2 and Form 2A Instructions section of our website. 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 determination of completeness for any resubmitted application, the COGCC will have 60 days in which to approve, deny, or request all additional information necessary to complete the regulatory review. In addition to all standard required information and attachments, the COGCC hereby	12/11/2019

	<p>confirms the following information is necessary prior to determination of completeness:</p> <p>1. This Form 2 application meets one or more Objective Criteria. This application will not be determined to be complete until the applicant addresses the Objective Criteria on a Form 4 Sundry Notice submitted to the related Location ID. The Form 4 document number shall be provided in the Operator Submit Comments. The Form 4 shall include updated Best Management Practices to address the following:</p> <p>a. Lighting: BMP needs to be updated to describe what light pollution mitigation will be used on location.</p> <p>b. Fencing: BMP needs to be updated to describe the fencing plan that was agreed upon with the surface owner.</p> <p>c. Trash Removal: BMP needs to be updated to add affirmative language committing to trash removal.</p> <p>d. StormWater/Erosion Control: BMP needs to be updated to better describe the site-specific stormwater controls will be implemented with good engineering practices.</p> <p>e. Berm Construction: BMP needs to be updated to include a description of the liner to be used in the tank containment area and include a description of the containment (berm and liner) for the separator area.</p> <p>f. Noise Mitigation: BMP needs to be updated to better describe the hay bales planned for this location (how many sides? how tall?).</p> <p>g. Green Completions: BMP needs to be updated to the current standard Green Completions BMP language.</p> <p>h. A BMP is needed to describe the Remote Monitoring and Shut-In system that will be used on this location.</p> <p>2. The Logging BMP references a well that is more than 25 miles away. This BMP does not satisfy the Alternative Logging Program requirements for Rule 317.p. A different offset well must be identified to use this Alternative Logging Program BMP.</p> <p>3. The attached exception location request cites Rule 318A.c. incorrectly and has an incorrect document number for the Buford 33-7-1L. The document number must be corrected and Rule 318A.c must be cited correctly.</p> <p>4. The Well Name &amp; Contact tab is missing a response to the "Commingle Zones" field and should be added.</p>	
Permit	<ul style="list-style-type: none"> <li>•The Well Name &amp; Contact Info tab is missing a response to commingle zones question.</li> <li>•The Logging BMP references a well that is more than 25 miles away. This well does not satisfy Rule 317.p. A different BMP should be used.</li> <li>•The attached exception location request cites Rule 318A.c. incorrectly and has an incorrect document number for the Buford 33-7-1L.</li> </ul>	11/15/2019
Permit	•Doc# on exception location request is incorrect.	11/15/2019
Permit	Passed completeness.	11/01/2019

Total: 12 comment(s)