

FORM  
2Rev  
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:

402689769

(SUBMITTED)

Date Received:

05/20/2021

## APPLICATION FOR PERMIT TO:

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and OperateAmend ☐TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: \_\_\_\_\_Refill ☒ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐Sidetrack ☐

Well Name: Canal Well Number: 22-3-3L

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

## Surface Location

QtrQtr: SWSW Sec: 22 Twp: 1N Rng: 65W Meridian: 6

Footage at Surface: 185 Feet FSL 1121 Feet FWL

Latitude: 40.030170 Longitude: -104.655590

GPS Data: GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Date of Measurement: 04/02/2021

Ground Elevation: 5090

Field Name: WATTENBERG Field Number: 90750

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: 22 Twp: 1N Rng: 65W Footage at TPZ: 470 FSL 1820 FEL

Measured Depth of TPZ: 8098 True Vertical Depth of TPZ: 7326 FNL/FSL FEL/FWL

## Base of Productive Zone (BPZ)

Sec: 15 Twp: 1N Rng: 65W Footage at BPZ: 470 FNL 1720 FEL

Measured Depth of BPZ: 17757 True Vertical Depth of BPZ: 7326 FNL/FSL FEL/FWL

## Bottom Hole Location (BHL)

Sec: 15 Twp: 1N Rng: 65W Footage at BHL: 470 FNL 1720 FEL

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: 02/14/2020

Comments: 1041WOGLA 19-0031 was approved on 2/14/2020.

## 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.)

T1N R65W Sec. 15: All

Total Acres in Described Lease: 640 Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

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

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1144 Feet  
Building Unit: 1361 Feet  
Public Road: 1558 Feet  
Above Ground Utility: 1519 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.

Railroad: 5280 Feet  
Property Line: 185 Feet

## 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	407-2615	640	T1N R65W Sec. 15: E/2; Sec. 22: E/2

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: 470 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: 400 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

COGCC Spacing Order 407-2615 is approved to establish two (2) DSUs. This well is permitted under DSU #1.

## DRILLING PROGRAM

Proposed Total Measured Depth: 17757 Feet TVD at Proposed Total Measured Depth 7326 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: 320 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 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: 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	26	16	A52A	43	0	80	400	80	0
SURF	13+1/2	9+5/8	J-55	36	0	2500	1804	2500	0
1ST	8+1/2	5+1/2	P110	20	0	17757	1834	17757	3500

☐ 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	Lower Arapahoe	215	215	636	636	501-1000	DWR	
Groundwater	Laramie-Fox Hills	636	636	1331	1326	501-1000	USGS	
Groundwater	Upper Pierre	1843	1826	2344	2297	1001-10000	DWR	COGCC: Upper Pierre Aquifer Water Quality Study, Project #2141
Confining Layer	Pierre Shale	2344	2297	4899	4664			
Hydrocarbon	Sussex	4899	4664	5138	4885			
Hydrocarbon	Shannon	5138	4885	5322	5056			
Confining Layer	Pierre Shale	5322	5056	7303	6892			
Subsurface Hazard	Sharon Springs	7539	7092	7567	7113			
Hydrocarbon	Niobrara	7567	7113	8097	7326			

**OPERATOR COMMENTS AND SUBMITTAL**

Comments 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 Canal 22-4-2L measured in 2-D.

The distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells was measured to the drilled HDI KF #10-4H, operated by Verdad Resources, API#:05-123-46160 using 2-D separation.

Changes made to these wells are well names, landing points and bottom holes. The casing program, and cement volumes have changed as well as distances due to the wellbore moves. Please utilize the original SUA.

The location has been built and there are wells being drilled on the pad. An OGDG is not required.

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

Oil and Gas Development Plan Name \_\_\_\_\_ OGDG ID#: \_\_\_\_\_

Location ID: 466977

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: 5/20/2021 Email: agross@upstreampm.com



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 50944 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**

**Best Management Practices**

**No BMP/COA Type**

**Description**

1	Drilling/Completion Operations	Drilling Wellbore Collision Prevention -Rule 408.t: Prior to drilling operations, 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. The Operator will give notice to all offset Operators prior to drilling.
2	Drilling/Completion Operations	Logging: The Willow 22-5-4L, API# 05-123-50942, 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 Willow 22-5-4L, API# 05-123-50942, is the well in which open-hole logs were run.

Total: 2 comment(s)

**Attachment List**

**Att Doc Num**

**Name**

402693947	WELL LOCATION PLAT
402693953	DEVIATED DRILLING PLAN
402693954	DIRECTIONAL DATA
402695563	OffsetWellEvaluations Data

Total Attach: 4 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)

## Public Comments

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

