

FORM  
2

Rev  
05/22

# State of Colorado

## Energy & Carbon Management Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

403916529

**(SUBMITTED)**

Date Received:

02/24/2025

### 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: ORIGAMI A-O31 Well Number: 6S-10-02  
 Name of Operator: BONANZA CREEK ENERGY OPERATING COMPANY LLC ECMC Operator Number: 8960  
 Address: 555 17TH STREET SUITE 3700  
 City: DENVER State: CO Zip: 80202  
 Contact Name: JEFF ANNABLE Phone: (303)3128529 Fax: ( )  
 Email: DLRockiesPermitting@civiresources.com

### FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

#### ECMC Financial Assurance

The Operator has provided or will provide Financial Assurance to the ECMC for this Well.

Surety ID Number (if applicable): 20240061

#### 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: SWSE Sec: 31 Twp: 5N Rng: 62W Meridian: 6

Footage at Surface: 540 Feet FSL 2453 Feet FEL

Latitude: 40.350541 Longitude: -104.365900

GPS Data: GPS Quality Value: 1.7 Type of GPS Quality Value: PDOP Date of Measurement: 12/12/2024

Ground Elevation: 4553

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: 6 Twp: 4N Rng: 62W Footage at TPZ: 100 FNL 1490 FWL  
Measured Depth of TPZ: 6767 True Vertical Depth of TPZ: 6170 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 6 Twp: 4N Rng: 62W Footage at BPZ: 100 FSL 1490 FWL  
Measured Depth of BPZ: 11965 True Vertical Depth of BPZ: 6170 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 6 Twp: 4N Rng: 62W Footage at BHL: 100 FSL 1490 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: 10/29/2019

Comments: WOGLA19-0164

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):

- [ ] Fee
- [X] 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.)

Township 4 North Range 62 West  
Section 6: All

Total Acres in Described Lease: 640 Described Mineral Lease is: [ ] Fee [X] State [ ] Federal [ ] Indian

Federal or State Lease # OG-106634

**SAFETY SETBACK INFORMATION**

Distance from Well to nearest:

Building: 283 Feet  
 Building Unit: 5280 Feet  
 Public Road: 5280 Feet  
 Above Ground Utility: 428 Feet  
 Railroad: 5280 Feet  
 Property Line: 540 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.)
NIOBRARA	NBRR	407-3692	640	T4NR62W: Sec 6 - 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: 100 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: 570 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: 11965 FeetTVD at Proposed Total Measured Depth 6170 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: 532 Feet  No well belonging to another operator within 1,500 feetWill a closed-loop drilling system be used? YesIs 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? NoWill salt sections be encountered during drilling? NoWill salt based (>15,000 ppm Cl) drilling fluids be used? NoWill oil based drilling fluids be used? YesBOP 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	a53b	36.95	0	80	105	80	0
SURF	13+1/2	9+5/8	j55	36	0	1450	492	1450	0
1ST	8+1/2	5+1/2	p110	20	0	11965	1755	11965	1450

 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	Larimer-Fox Hills Form	120	120	210	210	0-500	Groundwater Atlas	USGS HA-650 (Robson et al, 1981)
Confining Layer	Pierre Formation	210	210	370	370			
Groundwater	Upper Pierre Aquifer	370	370	1399	1370	501-1000	Electric Log Calculation	Antelope 33-31 05123328850000
Confining Layer	Base of Upper Pierre	1399	1370	3489	3360			
Hydrocarbon	Larimer ("Parkman") Sand	3489	3360	3762	3620			Not productive in this area
Confining Layer	Pierre Formation	3762	3620	3993	3840			
Hydrocarbon	Terry ("Sussex") Sand	3993	3840	4109	3950			Not productive in this area
Confining Layer	Pierre Formation	4109	3950	4833	4640			
Hydrocarbon	Hygiene ("Shannon") Sand	4833	4640	5033	4830			Not productive in this area
Confining Layer	Pierre Formation	5033	4830	6380	6050			
Subsurface Hazard	Sharon Springs Mem	6380	6050	6767	6170			Sloughing Shales
Hydrocarbon	Niobrara	6767	6170	11965	6170			



## Operator Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	Drilling/Completion Operations	One of the first wells drilled on the pad during the second 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.
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.

Total: 2 comment(s)

### ATTACHMENT LIST

<b>Att Doc Num</b>	<b>Name</b>
404098380	OffsetWellEvaluations Data
404098637	DEVIATED DRILLING PLAN
404098638	WELL LOCATION PLAT
404098642	DIRECTIONAL DATA

Total Attach: 4 Files

### General Comments

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

Total: 0 comment(s)