

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:

402699814

(SUBMITTED)

Date Received:

05/25/2021

APPLICATION FOR PERMIT TO:

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

Amend ☐

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: UNPLANNED SIDETRACK

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Well Name: BLEHM ST Well Number: 7X-HNC-10-07-67  
Name of Operator: NICKEL ROAD OPERATING LLC COGCC Operator Number: 10669  
Address: 1600 STOUT STREET SUITE 1850  
City: DENVER State: CO Zip: 80202  
Contact Name: Erin Lind Phone: (314)374-5572 Fax: ( )  
Email: erin.lind@nickelroadoperating.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20200034

WELL LOCATION INFORMATION

Surface Location

QtrQtr: NENE Sec: 9 Twp: 7N Rng: 67W Meridian: 6  
Footage at Surface: 572 Feet FNL/FSL 714 Feet FEL/FWL FEL  
Latitude: 40.594387 Longitude: -104.891201  
GPS Data: GPS Quality Value: 2.1 Type of GPS Quality Value: PDOP Date of Measurement: 11/14/2020  
Ground Elevation: 5088  
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: 9 Twp: 7N Rng: 67W Footage at TPZ: 1100 FSL 460 FWL  
Measured Depth of TPZ: 10287 True Vertical Depth of TPZ: 7024 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 10 Twp: 7N Rng: 67W Footage at BPZ: 1100 FSL 460 FEL  
Measured Depth of BPZ: 19888 True Vertical Depth of BPZ: 7093 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 10 Twp: 7N Rng: 67W Footage at BHL: 1100 FSL 460 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: 10/15/2020

Comments: 1041WOGLA20-0076

## 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.)

T7N-R67W-SEC.10: S/2

Total Acres in Described Lease: 320 Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

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

### SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 2016 Feet  
Building Unit: 2016 Feet  
Public Road: 560 Feet  
Above Ground Utility: 530 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: 544 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	407-2905	640	Sec.9 & 10: S/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: 460 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: 210 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: 19888 Feet TVD at Proposed Total Measured Depth 7093 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: 490 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	24	16	N/A	42	0	80	100	80	0
SURF	13+1/2	9+5/8	K55	36	0	1728	625	1728	0
1ST	8+1/2	5+1/2	HCP110	20	0	19888	2570	19888	1000

☐ 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	LARAMIE-FOX HILLS	0	0	139	139	1001-10000	Other	CSU - Domestic Water Analysis Report - Larry Moore Well - 176559
Groundwater	UPPER PIERRE	300	300	1314	1314	1001-10000	Other	Water Quality and the Presence and Origin of Methane in the Upper Pierre Aquifer in Northeastern Weld County, Morgan County and Logan County, Colorado COGCC Project Number 2141 October 2017
Confining Layer	PIERRE SHALE	1314	1314	4851	4207			
Hydrocarbon	SUSSEX	4851	4207	5544	4556			
Hydrocarbon	SHANNON	5544	4556	5602	4585			
Confining Layer	PIERRE SHALE	5602	4585	9800	6822			
Hydrocarbon	NIOBRARA	9800	6822	19888	7093			Btm MD=TD, Btm TVD=TV D @ BHL

**OPERATOR COMMENTS AND SUBMITTAL****Comments**

Unplanned Sidetrack Required Info:

- While drilling ahead in the tangent section of the well, we experienced a sudden increase in pressure that prohibited us from continuing to drill. After conditioning the hole, we tripped to surface to inspect the BHA and discovered that the bit and part of the motor had twisted off of the assembly.
- We reached a total MD of 7,942' in the wellbore being plugged back.
- Casing set in the hole is 9-5/8" 36# surface casing at 1,728' MD.
- Fish in the hole is 8.5" bit, rotor, and bearing section of motor. Bottom MD is 7,942' / top MD is 7,922'.
- No plugs proposed
- No cement proposed
- Sidetrack KOP = 7,124' MD
- Objective formation = same as permitted (Niobara C Chalk)
- BHL target = same as permitted
- Diana Burn granted verbal approval to sidetrack on 5/25/21.

None of the interwell distances from the original APD have changed.

Distance from completed portion to nearest completed portion of wellbore permitted/completed in the same formation measured to the proposed Blehm 8X-HNC-10-07-67 in 3D anti-collision.

Distance to nearest wellbore belonging to another operator measured to the K&M Co. #1 (Vessels, PA, 05-123-10841) in 2D map view.

This application is in a Comprehensive Area Plan No

CAP #: \_\_\_\_\_

Oil and Gas Development Plan Name \_\_\_\_\_

OGDP ID#: \_\_\_\_\_

Location ID: 479075

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

Signed: \_\_\_\_\_

Print Name: Erin Lind



Title: Senior Regulatory Analyst Date: 5/25/2021 Email: erin.lind@nickelroadoperating.c

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 51476 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**

**Attachment List**

**Att Doc Num**

**Name**

402700042 CORRESPONDENCE

402700077 WELLBORE DIAGRAM

Total Attach: 2 Files

**General Comments**

**User Group**

**Comment**

**Comment Date**

Stamp Upon  
Approval

Total: 0 comment(s)

## Public Comments

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

