

FORM
2

Rev
10/24

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:

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(SUBMITTED)

Date Received:

06/13/2025

APPLICATION FOR PERMIT TO

Drill Deepen Re-enter Recomplete and Operate Amend

TYPE OF WELL OIL GAS COALBE GEOTHERMAL OTHER: _____

Refile

ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES

Sidetrack

Well Name: Blackhawk Well Number: F01-2NU
Name of Operator: NOBLE ENERGY INC ECMC Operator Number: 100322
Address: 1099 18TH STREET SUITE 1500
City: DENVER State: CO Zip: 80202
Contact Name: Patricia Minerich Phone: (303)228-4000 Fax: ()
Email: RBUDevPermitting@chevron.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): 20230051

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: NWSW Sec: 1 Twp: 5N Rng: 65W Meridian: 6

Footage at Surface: 2062 Feet FSL 735 Feet FWL

Latitude: 40.426907 Longitude: -104.618282

GPS Data: GPS Quality Value: 1.3 Type of GPS Quality Value: PDOP Date of Measurement: 12/19/2023

Ground Elevation: 4636

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: 1 Twp: 5N Rng: 65W Footage at TPZ: 1857 FSL 330 FWL
Measured Depth of TPZ: 7230 True Vertical Depth of TPZ: 6764 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 1 Twp: 5N Rng: 65W Footage at BPZ: 610 FSL 330 FWL
Measured Depth of BPZ: 17911 True Vertical Depth of BPZ: 6764 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 1 Twp: 5N Rng: 65W Footage at BHL: FSL 330 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 and §37-90.5-107(2)(b)(I) C.R.S, the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas or Deep Geothermal Locations.

The Energy and Carbon Management Act and the Geothermal Resources Act provide 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.

Does the Relevant Local Government regulate the siting of Oil and Gas and Deep Geothermal 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: 11/24/2023

Comments: 1041WOLGA24-0009, Approved 11/24/2023

GEOTHERMAL

Well Overview

The following questions determine informational requirements based on Well type:

Which type of Geothermal Well is this? Select one of the following:

Will this well be constructed using cementing methodologies other than those listed in Rule 408.f?

If Yes, what method will be used:

Please describe the cementing method to be used in detail:

Geothermal Resource Units

Fill out the information below to submit an application for a Geothermal Resource Unit (GRU) as part of the current permit application. This may also be completed later using a Form 4 Sundry.

Will this Well be in an existing GRU?

Are you submitting your application for a new GRU as part of the current application?

SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS OR DEEP GEOTHERMAL LOCATION

Surface Owner of the land at this Well's Oil and Gas Or Deep Geothermal Location: Fee State Federal Indian

Mineral Owner beneath this Well's Oil and Gas Or Deep Geothermal Location: 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
- 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 5 North, Range 65 West, 6th P.M.
Section 3: E2NE4NE4

Total Acres in Described Lease: 19 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 788 Feet
Building Unit: 2953 Feet
Public Road: 286 Feet
Above Ground Utility: 352 Feet
Railroad: 5280 Feet
Property Line: 248 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 | 407-3680 | 1718 | Township 5 North, Range 65 West Section 1: S2 Section 2: NW4, S2 Section 3: All Section 4: E2 |

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: 200 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: 260 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: 17911 Feet TVD at Proposed Total Measured Depth 6764 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: 153 Feet No well belonging to another operator within 1,500 feet

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 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? No

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 | A-53B | 36.95 | 0 | 80 | 175 | 80 | 0 |
| SURF | 13+1/2 | 9+5/8 | J-55 | 36 | 0 | 1500 | 523 | 1500 | 0 |
| 1ST | 8+1/2 | 5+1/2 | P-110 | 20 | 0 | 17911 | 2077 | 17911 | |

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 |
|-------------------|----------------------|----------|------------|-------------|---------------|------------|-------------|------------------------|
| Confining Layer | Pierre Shale | 0 | 0 | 394 | 394 | | | |
| Groundwater | UPIR/Pawnee Aquifer | 394 | 394 | 1379 | 1368 | 1001-10000 | Other | COGCC UPWQ Study |
| Confining Layer | Pierre Shale | 1379 | 1368 | 3654 | 3587 | | | |
| Hydrocarbon | Parkman | 3654 | 3587 | 3970 | 3895 | | | |
| Confining Layer | Pierre Shale | 3970 | 3895 | 4068 | 3991 | | | |
| Hydrocarbon | Sussex | 4068 | 3991 | 4466 | 4379 | | | |
| Confining Layer | Pierre Shale | 4466 | 4379 | 4907 | 4808 | | | |
| Hydrocarbon | Shannon | 4907 | 4808 | 5192 | 5087 | | | |
| Confining Layer | Pierre Shale | 5192 | 5087 | 6773 | 6589 | | | |
| Subsurface Hazard | Sharon Springs Shale | 6773 | 6589 | 6820 | 6620 | | | least competent shales |
| Hydrocarbon | Niobrara | 6820 | 6620 | 17911 | 6764 | | | Nio Target |

OPERATOR COMMENTS AND SUBMITTAL

Comments

Operator shall isolate both the Fox Hills and UPIR/Pawnee Aquifers with surface casing from hydrocarbon bearing zones and exposure to oil-based drilling fluid.

Laramie/Fox Hills is not present in this area, this was verified through the DWR Aquifer tool.

The nearest well in the same formation is located on the same pad, the Blackhawk F01-3NU operated by Noble Energy Inc. Measured in 2D.

The distance to another wellbore belonging to an outside operator is the Gatewood 11-1 (05-123-13437) Operated by PDC Energy INC, status PA (153'). The distance was calculated using the anti-collision summary.

Wells within 150':

Weld County 1-9H5 05-123-18314 (PA) 4' operated by Noble Energy INC, no 408.u is required, well has been plugged and abandoned.

Gatewood F 1-12 05-123-16079 (PA) 33' operated by Noble Energy INC, no 408.u is required, well has been plugged and abandoned.

CDOT F 1-10 05-123-25082 (PA) 53' operated by Noble Energy INC, no 408.u is required, well has been plugged and abandoned.

DPG F 1-13 05-123-25569 (PA) 62' operated by Noble Energy INC, no 408.u is required, well has been plugged and abandoned.

DPG Bird Farm 1-14H5 05-123-18188 (PA) 87' operated by Noble Energy INC, no 408.u is required, well has been plugged and abandoned.

DPG Bird Farm 1-15H5 05-123-18174 (PA) 94' operated by Noble Energy INC, no 408.u is required, well has been plugged and abandoned.

DPG Bird Farm 1-16H5 05-123-18176 (PA) 118' operated by Noble Energy INC, no 408.u is required, well has been plugged and abandoned.

Noble will not complete any portion of the wellbore that is past the 200' setback. The target formation in the curve is Niobrara.

Noble will not cross well paths within 35' on all U-turn crossings.

This Form 2 meets the Section 34-60-116(6) and (7), C.R.S. statutory pooling requirements and no unleased mineral interest owner or unleased local government has actively rejected and/or petitioned the pending Pooling Application assigned to Docket #250200022 specifically related to this Form 2. Noble expects this pooling to be approved by the Commission on May 28, 2025.

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

Oil and Gas Development Plan Name GC2 OGDID ID#: 487285

Location ID: 328512

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

Signed: _____ Print Name: Kim Bauer

Title: Regulatory Analyst II Date: 6/13/2025 Email: DenverRegulatory@chevron.co

Based on the information provided herein, this Application for Permit-to-Drill complies with ECMC Rules, applicable orders, and SB 19-181 and is hereby approved.

ECMC Approved: _____ Director of ECMC Date: _____

Expiration Date: _____

API NUMBER
05

CONDITIONS OF APPROVAL, IF ANY LIST

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> |
|-----------------|--------------------|
| 0 COA | |

Operator Best Management Practices

| <u>No</u> | <u>BMP/COA Type</u> | <u>Description</u> |
|-----------|--------------------------------|---|
| 1 | Drilling/Completion Operations | Operator will perform anti-collision evaluation of all active (producing, shut-in, or temporarily abandoned) offset wellbores that have the potential of being within 150' of the proposed well prior to drilling operations. |
| 2 | Drilling/Completion Operations | During and Post stimulation: Operator will comply with the COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated 5/29/12. |
| 3 | Drilling/Completion Operations | If a skid is performed for the subject well, then the only required BOPE tests are for the BOPE connection bonnet seal breaks, as long as a full BOPE test was performed at the beginning of the pad, and as long as all necessary BOPE tests are completed at least every 30 days during the pad operations. |
| 4 | Drilling/Completion Operations | One of the first wells drilled on the pad will be logged with Cased hole Pulsed Neutron Log with Gamma Ray Log from 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 in that well and have those logs attached. The Form 5 for each well shall clearly state "Open-hole logging exception - No open-hole logs were run", and shall clearly identify the type of log and the well (by API#) in which open-hole logs were run. |

Total: 4 comment(s)

ATTACHMENT LIST

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-----------------------------|
| 404198009 | OPEN HOLE LOGGING EXCEPTION |
| 404198010 | WELL LOCATION PLAT |
| 404198011 | SURFACE AGRMT/SURETY |
| 404198012 | DIRECTIONAL DATA |
| 404199682 | DEVIATED DRILLING PLAN |
| 404239395 | OffsetWellEvaluations Data |

Total Attach: 6 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|----------------|---------------------|
| | | Stamp Upon Approval |

Total: 0 comment(s)