

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:

403616352

**(SUBMITTED)**

Date Received:

02/13/2024

### 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: GUTTERSEN    Well Number: YY18-785

Name of Operator: NOBLE ENERGY INC    COGCC Operator Number: 100322

Address: 1099 18TH STREET SUITE 1500

City: DENVER    State: CO    Zip: 80202

Contact Name: Doug Dennison    Phone: (303)228-4000    Fax: ( )

Email: DenverRegulatory@chevron.onmicrosoft.com

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

#### COGCC Financial Assurance

The Operator has provided or will provide Financial Assurance to the COGCC 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: SWNE    Sec: 18    Twp: 2N    Rng: 63W    Meridian: 6

Footage at Surface: 1582 Feet FNL    2611 Feet FEL

Latitude: 40.141256    Longitude: -104.480165

GPS Data:    GPS Quality Value: 1.2    Type of GPS Quality Value: PDOP    Date of Measurement: 10/10/2023

Ground Elevation: 4898

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: 18    Twp: 2N    Rng: 63W    Footage at TPZ: 2441    FNL    330    FWL  
Measured Depth of TPZ: 8143    True Vertical Depth of TPZ: 6824    FNL/FSL    FEL/FWL

Base of Productive Zone (BPZ)

Sec: 7 Twp: 2N Rng: 63W Footage at BPZ: 200 FNL 330 FWL  
 Measured Depth of BPZ: 15670 True Vertical Depth of BPZ: 6776 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 7 Twp: 2N Rng: 63W Footage at BHL: 200 FNL 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., 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: 11/21/2023

Comments: 1041WOGLA23-0018 Approved on 11/21/2023

**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 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.)

T2N, R4W, Sec 1: All, & Sec 12: All  
T2N, R63W, Sec 7: All, & Sec 18: W/2NW/4

Total Acres in Described Lease: 2024 Described Mineral Lease is:  Fee  State  Federal  Indian

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

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 3057 Feet  
Building Unit: 4334 Feet  
Public Road: 655 Feet  
Above Ground Utility: 1621 Feet  
Railroad: 4914 Feet  
Property Line: 576 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	407-3543	2264	T2N, R4W, Sec 1: All, & Sec 12: All T2N, R63W, Sec 7: All, & Sec 18: N/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: 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: 683 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 Cause #407-3543

## DRILLING PROGRAM

Proposed Total Measured Depth: 15670 Feet

TVD at Proposed Total Measured Depth 6776 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: 68 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? 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-52A	36.94	0	80	175	80	0
SURF	13+1/2	9+5/8	J-55	36	0	1950	665	1950	0
1ST	8+1/2	5+1/2	P-110	17	0	15670	1849	15670	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	Fox Hills Sandstone	476	476	796	796	1001-10000	DWR	COGCC UPWQ Study
Confining Layer	Pierre Shale	796	796	1048	1048			
Groundwater	UPIR/Pawnee Aquifer	1048	1048	1720	1720	1001-10000	Other	COGCC UPWQ Study
Confining Layer	Pierre Shale	1720	1720	4088	3910			
Hydrocarbon	Parkman	4088	3910	4230	4015			
Confining Layer	Pierre Shale	4230	4015	4515	4243			
Hydrocarbon	Sussex	4515	4243	5000	4610			
Confining Layer	Pierre Shale	5000	4610	5559	5054			
Hydrocarbon	Shannon	5559	5054	5840	5280			
Confining Layer	Pierre Shale	5840	5280	7658	6677			
Subsurface Hazard	Sharon Springs Shale	7658	6677	7723	6713			least competent shales
Hydrocarbon	Niobrara	7723	6713	15670	6776			NIO C TARGET

## OPERATOR COMMENTS AND SUBMITTAL



## Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
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: Noble Energy 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	Alternative Logging Program: One of the first wells drilled on the pad during the first 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.

Total: 4 comment(s)

### Attachment List

<b>Att Doc Num</b>	<b>Name</b>
403616446	SURFACE AGRMT/SURETY
403627539	DIRECTIONAL DATA
403632401	OffsetWellEvaluations Data
403650389	STIMULATION SETBACK CONSENT
403685205	DEVIATED DRILLING PLAN
403685208	WELL LOCATION PLAT

Total Attach: 6 Files

### General Comments

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Return to DRAFT - per operator request	02/13/2024

Total: 1 comment(s)