

FORM  
2

Rev  
05/22

# 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:

402874321

**(SUBMITTED)**

Date Received:

02/01/2023

## 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: Gabel Well Number: A10-645  
 Name of Operator: NOBLE ENERGY INC COGCC Operator Number: 100322  
 Address: 2001 16TH STREET SUITE 900  
 City: DENVER State: CO Zip: 80202  
 Contact Name: Mosiah Montoya Phone: (303)249 2425 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): \_\_\_\_\_

### 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: NWSE Sec: 12 Twp: 6N Rng: 64W Meridian: 6

Footage at Surface: 2357 Feet FSL 2209 Feet FEL

Latitude: 40.500045 Longitude: -104.496749

GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 08/14/2019

Ground Elevation: 4715

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: 12 Twp: 6N Rng: 64W Footage at TPZ: 2301 FSL 2445 FWL  
Measured Depth of TPZ: 7177 True Vertical Depth of TPZ: 6813 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 10 Twp: 6N Rng: 64W Footage at BPZ: 2333 FSL 2430 FEL

Measured Depth of BPZ: 17319 True Vertical Depth of BPZ: 6813 FNL/FSL  FEL/FWL

Bottom Hole Location (BHL)

Sec: 10 Twp: 6N Rng: 64W Footage at BHL: 2333 FSL 2430 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: 01/08/2020

Comments: CDP WOGLA 1041WOGLA19-0042 filed 12/10/2019, recorded 1/8/2020. A site-specific WOGLA will be filed prior to commencement of operations.

### 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.)

T6N-R64W, 6th P.M., Section 11: E/2 and E/2W/2

Total Acres in Described Lease: 480 Described Mineral Lease is:  Fee  State  Federal  Indian

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

**SAFETY SETBACK INFORMATION**

Distance from Well to nearest:

Building: 967 Feet  
 Building Unit: 1042 Feet  
 Public Road: 2186 Feet  
 Above Ground Utility: 1089 Feet  
 Railroad: 5280 Feet  
 Property Line: 277 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	407-2972	1600	T6N-R64W, 6th P.M., Section 10: E/2; Section 11: All; Section 12: W/2; Section 13: N/2NW/4; Section 14: N/2N/2; Section 15: N/2NE/4

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: 660 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**

See Approved Spacing Order 407-2972.

**DRILLING PROGRAM**Proposed Total Measured Depth: 17319 FeetTVD at Proposed Total Measured Depth 6813 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: 65 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	A-52A	36.94	0	80	175	80	0
SURF	13+1/2	9+5/8	J-55	36	0	1850	640	1850	0
1ST	8+1/2	5+1/2	P-110	17	0	17319	2003	17319	

 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	290	290	501-1000	Groundwater Sample	COGCC Environmental Sample Site #754128, 704790, & 754475
Confining Layer	Pierre Shale	290	290	500	500			
Groundwater	Upper Pierre Aquifer	500	500	1500	1500	1001-10000	Other	COGCC Project #2141, Figure 5
Confining Layer	Pierre Shale	1500	1500	3500	3500			
Hydrocarbon	Parkman	3500	3500	4000	3950			
Confining Layer	Pierre Shale	4000	3950	4300	4280			
Hydrocarbon	Sussex	4300	4280	4600	4520			
Confining Layer	Pierre Shale	4600	4520	4900	4880			
Hydrocarbon	Shannon	4900	4880	5100	5075			
Confining Layer	Pierre Shale	5100	5075	5900	5900			
Hydrocarbon	Tepee Buttes	5900	5900	6500	6460			
Confining Layer	Pierre Shale	6500	6460	6600	6580			
Hydrocarbon	niobrara	6600	6580	17319	6813			Potential Flow Formation Table: The TVD of the deepest hydrocarbon zone is the bottom of the well and not the bottom of the formation. The formation is not planned to be exited.

## OPERATOR COMMENTS AND SUBMITTAL

Comments Noble Energy shall isolate both the Fox Hills and Upper Pierre Aquifers with surface casing from hydrocarbon bearing zones and exposure to oil-based drilling fluid. Noble Energy also agrees to not expose the Upper Pierre Aquifers to oil-based mud.

The nearest well in unit per 2-D calculation is the Gabel A10-635 @ 660'.  
The nearest outside operated well per anti-collision is the Adams 41-10H (API:05-123-33464) PR Status @ 65'. 408.u consent is attached.  
Wells also within 150':  
Phinney 43-10 (API: 05-123-23590) PA Status @ 142'. Well is PA Status; no 408.u is required.  
Cockroft 13-11 (API: 05-123- 22627) TA Status @ 118'. Well is Noble operated; no 408.u is required.

This application is in a Comprehensive Area Plan No CAP #: \_\_\_\_\_  
Oil and Gas Development Plan Name WR OGD 2 OGD ID#: 481735  
Location ID: 483560

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

Signed: \_\_\_\_\_ Print Name: Ann Feldman  
Title: Regulatory Manager Date: 2/1/2023 Email: regulatory@ascentgeomatics.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: \_\_\_\_\_

<b>API NUMBER</b>
05

### 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.

<u>COA Type</u>	<u>Description</u>
0 COA	

## Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	Drilling/Completion Operations	Open-Hole Logging Exception: One of the first wells drilled on the pad during the first rig occupation will be logged with cased-hole neutron log with 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 in that well and have those logs attached. The Form 5 for each well will state "Open-Hole Logging Exception - 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	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.
3	Drilling/Completion Operations	Anti-collision: Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument and compared against the proposed well path with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottom hole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as constructed gyro survey will be submitted to COGCC with the Form 5.

Total: 3 comment(s)

### Attachment List

<b>Att Doc Num</b>	<b>Name</b>
403215117	STIMULATION SETBACK CONSENT
403291865	OffsetWellEvaluations Data
403291874	OPEN HOLE LOGGING EXCEPTION
403307219	WELL LOCATION PLAT
403307222	DEVIATED DRILLING PLAN
403307224	DIRECTIONAL DATA

Total Attach: 6 Files

### General Comments

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

Total: 0 comment(s)