

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:

403008209

(SUBMITTED)

Date Received:

05/09/2022

APPLICATION FOR PERMIT TO:

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

Amend ☐

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: _____

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: GIG-EM STATE Well Number: Y9-772
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)228-4000 Fax: ()
Email: denverregulatory@chevron.onmicrosoft.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030009

WELL LOCATION INFORMATION

Surface Location

QtrQtr: NENW Sec: 16 Twp: 2N Rng: 64W Meridian: 6
Footage at Surface: 595 Feet FNL/FSL 2588 Feet FNL/FWL
Latitude: 40.144130 Longitude: -104.556750
GPS Data: GPS Quality Value: 1.9 Type of GPS Quality Value: PDOP Date of Measurement: 02/10/2022
Ground Elevation: 4911
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: 2N Rng: 64W Footage at TPZ: 133 FSL 1195 FWL
Measured Depth of TPZ: 7567 True Vertical Depth of TPZ: 6989 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 4 Twp: 2N Rng: 64W Footage at BPZ: 460 FNL 1202 FWL
Measured Depth of BPZ: 17466 True Vertical Depth of BPZ: 6908 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 4 Twp: 2N Rng: 64W Footage at BHL: 300 FNL 1202 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: 07/26/2017

Comments: WOGLA was approved on 07/26/2017, this location is already built.

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.)

ALL of Section 16, T2N-R64W, 6th P.M.

Total Acres in Described Lease: 640 Described Mineral Lease is: ☐ Fee ☒ State ☐ Federal ☐ Indian

Federal or State Lease # OG 70/7879-S

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 2451 Feet
Building Unit: 3234 Feet
Public Road: 2707 Feet
Above Ground Utility: 499 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: 595 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	407-2423	1440	N2N2 Sec 16; ALL Sec 9; Lot 1 (79.64), Lot 2 (79.72), S/2N/2, S/2 (a/d/a ALL) of Sec 4, T2N-R64W

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: 692 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

For spacing, please reference COGCC Order No. 407-2423

DRILLING PROGRAM

Proposed Total Measured Depth: 17626 Feet

TVD at Proposed Total Measured Depth 6907 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: 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

<u>Casing Type</u>	<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Grade</u>	<u>Wt/Ft</u>	<u>Csg/Liner Top</u>	<u>Setting Depth</u>	<u>Sacks Cmt</u>	<u>Cmt Btm</u>	<u>Cmt Top</u>
CONDUCTOR	26	16	A-52AA	36.94	0	110	60	110	0
SURF	13+1/2	9+5/8	J-55	36	0	1950	665	1950	0
1ST	8+1/2	5+1/2	P-100	17	0	17626	2060	17626	

☐ Conductor Casing is NOT planned

POTENTIAL FLOW AND CONFINING FORMATIONS

<u>Zone Type</u>	<u>Formation /Hazard</u>	<u>Top M.D.</u>	<u>Top T.V.D.</u>	<u>Bottom M.D.</u>	<u>Bottom T.V.D.</u>	<u>TDS (mg/L)</u>	<u>Data Source</u>	<u>Comment</u>
Groundwater	Laramie Fox Hills	0	0	860	860	501-1000	USGS	USGS, Geologic Structure, Hydrology, And Water Quality of the Laramie-Fox Hills Aquifer in the Denver Basin, Colorado (1981); USGS paper 2302 (1989)
Confining Layer	Pierre Shale	860	860	970	970			
Groundwater	Upper Pierre Aquifer	970	970	1815	1815	501-1000	Other	COGCC Project # 2141
Confining Layer	Pierre Shale	1815	1815	2660	2660			
Groundwater	Pierre Member A Sand	2660	2660	3110	3110	0-500	Other	No public domain data
Confining Layer	Pierre Shale	3310	3310	6880	6880			
Hydrocarbon	Niobrara	6880	6880	7110	7110			
Hydrocarbon	Codell	7110	7110	7125	7125			

OPERATOR COMMENTS AND SUBMITTAL**Comments**

There have been no new buildings constructed and no changes to the surrounding land use. The well site has been constructed. The Y16-28 Pad (location ID 451499) was constructed 8/2017 and has active wells on location. Noble is submitting this application for permit to drill, the well count was included on the original form 2A.

There are no off-set operated wells within 1500'.

The nearest well in the same formation is located on the same pad, the GIG-EM STATE Y9-761 operated by Noble Energy LLC. Measured in 3D using an anti collision report.

There is no public domain data for the Groundwater/ Pierre Member A sand. The form will not allow us to submit the form with a blank in this field.

This well has a bottom-hole location beyond the unit boundary setback. The bottom of the completed interval will be within the unit boundary. The wellbore beyond the unit boundary setback will be physically isolated and will not be completed.

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.

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

Oil and Gas Development Plan Name _____ OGDID ID#: _____

Location ID: 451499

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

Signed: _____ Print Name: Julie Webb

Title: Sr. Regulatory Analyst Date: 5/9/2022 Email: julie.webb@chevron.com

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

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

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. Notice shall be given to all offset operators prior to drilling.
2	Drilling/Completion Operations	Alternative Logging Program: An existing well (HULLABALOO STATE Y21-763 (05-123-45236)) on the pad was logged with open-hole resistivity 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 and have those logs attached. The Form 5 for a well without open-hole logs shall state "Alternative Logging Program - 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: 2 comment(s)

Attachment List

Att Doc Num

Name

403008329	WELL LOCATION PLAT
403032503	OffsetWellEvaluations Data
403037439	DEVIATED DRILLING PLAN
403037440	DIRECTIONAL DATA
403041179	SURFACE AGRMT/SURETY

Total Attach: 5 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)

Public Comments

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

