

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:  
403163326  
Date Received:  
09/13/2022

APPLICATION FOR PERMIT TO

Drill     Deepen     Re-enter     Recomplete and Operate    Amend   
TYPE OF WELL    OIL     GAS     COALBED     OTHER: UNPLANNED SIDETRACK    Refile   
ZONE TYPE    SINGLE ZONE     MULTIPLE ZONES     COMMINGLE ZONES     Sidetrack

Well Name: Guttersen    Well Number: C28-765  
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)228-4200    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): 20030009

**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: SESW    Sec: 33    Twp: 4N    Rng: 64W    Meridian: 6  
Footage at Surface: 317 Feet    FNL/FSL    FSL    1515 Feet    FEL/FWL    FWL  
Latitude: 40.262616    Longitude: -104.559948  
GPS Data:    GPS Quality Value: 3.8    Type of GPS Quality Value: PDOP    Date of Measurement: 07/20/2022  
Ground Elevation: 4723  
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: 33    Twp: 4N    Rng: 64W    Footage at TPZ: 200    FSL    1605    FWL  
Measured Depth of TPZ: 7108    True Vertical Depth of TPZ: 6782    FNL/FSL    FEL/FWL

Base of Productive Zone (BPZ)

Sec: 28 Twp: 4N Rng: 64W Footage at BPZ: 460 FNL 1618 FWL
Measured Depth of BPZ: 16994 True Vertical Depth of BPZ: 6790 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 28 Twp: 4N Rng: 64W Footage at BHL: 410 FNL 1618 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? [X] Yes [ ] No

[X] 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: 10/16/2020

Comments:

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

Surface Owner of the land at this Well's Oil and Gas Location: [X] Fee [ ] State [ ] Federal [ ] Indian

Mineral Owner beneath this Well's Oil and Gas Location: [X] 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):

- [X] 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 S. 33, T4N-R64W, 6th P.M. with other lands further described in attached legal description and lease map.

Total Acres in Described Lease: 4738 Described Mineral Lease is: [X] Fee [ ] State [ ] Federal [ ] Indian

Federal or State Lease #

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 2031 Feet  
Building Unit: 2041 Feet  
Public Road: 1497 Feet  
Above Ground Utility: 2029 Feet  
Railroad: 5280 Feet  
Property Line: 317 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		1280	GWA

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: 325 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

Proposed Spacing Unit: T4N-R64W, Sec 28: All, Sec 33: All Per the Comprehensive Drilling Plan (#11984) this well will be completed less than 460' from the boundary of the Wellbore Spacing Unit.

## DRILLING PROGRAM

Proposed Total Measured Depth: 17044 Feet TVD at Proposed Total Measured Depth 6790 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 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	101	64	101	0
SURF	13+1/2	9+5/8	J-55	36	0	1941	674	1941	0
1ST	8+1/2	5+1/2	P110	17	0	17044	1980	17044	

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	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	291	290	502	500			
Groundwater	Upper Pierre Aquifer	502	500	1508	1500	1001-10000	Other	COGCC Project #2141
Confining Layer	Pierre Shale	1508	1500	3520	3500			
Hydrocarbon	Parkman	3520	3500	3892	3870			
Confining Layer	Pierre Shale	3892	3870	4023	4000			
Hydrocarbon	Sussex	4023	4000	4496	4470			
Confining Layer	Pierre Shale	4496	4470	4828	4800			
Hydrocarbon	Shannon	4828	4800	5009	4980			
Confining Layer	Pierre Shale	5009	4980	5884	5850			
Hydrocarbon	Tepee Buttes	5884	5850	6442	6400			
Confining Layer	Pierre Shale	6442	6400	6684	6600			
Hydrocarbon	Niobrara	6684	6600	17044	6600			

## OPERATOR COMMENTS AND SUBMITTAL

Comments

GPS data is actual

Drilling BHA was stuck at 10,656" in the Niobrara formation while TOH from TD. While conducting fishing operations the drill string parted at 6,077'. The sidetrack well will be drilled in the same Nio C formation parallel to the existing well, approximately 30' West of the and 8' south of the original wellbore. Two 600' plugs will be set as follows, first from approximately 6000' MD to 5,400' MD, while the second will be from approximately 5,350' MD – 4,750' MD. KOP is planned at approximately 6,090' MD.

Noble Energy was granted verbal to plug back and sidetrack on 9/11/2022.

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 UPA to oil based mud.

This well has a bottom-hole location beyond the unit boundary setback. The bottom of the completed interval will be within the unit boundary setback at 460' FNL and 1618' FWL of Section 28. The wellbore beyond the northern unit boundary setback will be physically isolated and will not be completed.

Nearest well in PSU (producing zone to producing zone) per manual calculation is the proposed Guttersen C28-770.

There are no outside-operated wells within 1500'.

The following wells are all within 150'. All are Noble operated, therefore no 317.s is required: THOMPSON C33-69HN, (API 05-123-33589), PR Status Guttersen D04-69HN, (API 05-123-34094), SI Status

This application is in a Comprehensive Area Plan Yes CAP #: 11984

Oil and Gas Development Plan Name \_\_\_\_\_ OGDID#: \_\_\_\_\_

Location ID: 459550

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: 9/13/2022 Email: julie.webb@chevron.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 9/16/2022

Expiration Date: 10/28/2024

**API NUMBER**  
05 123 48937 01

## 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.

### Condition of Approval

<u>COA Type</u>	<u>Description</u>
Drilling/Completion Operations	<p>Operator acknowledges the proximity of the listed wells: Operator agrees to: provide mitigation option 1 or 2 (per the DJ Basin Horizontal Offset Policy) to mitigate the situation, ensure all applicable documentation is submitted based on the selected mitigation option chosen, and submit a Form 42 ("OFFSET MITIGATION COMPLETED") for the remediated wells, referencing the API number of the proposed horizontal well(s) stating what appropriate mitigation occurred and that it has been completed, prior to the hydraulic stimulation of this well.</p> <p>Hanscome C 28-1 (API NO 123-11310)                      Klein 1 (API NO 123-11828)                      Thompson 3 (API NO 123-11830)                      Hanscome C 2 (API NO 123-11925)                      Thompson 4 (API NO 123-12271)                      Novacek 1 (API NO 123-12347)                      Lindsay C 33-2 (API NO 123-13155)                      Lindsay 33-3 (API NO 123-13156)                      Lindsay 33-4 (API NO 123-13157)                      Lindsay 33-8 (API NO 123-13161)                      Lindsay 33-5 (API NO 123-13165)                      Lindsay 33-6 (API NO 123-13166)                      Lindsay 33-7 (API NO 123-13167)                      Balboa 20-1 (API NO 123-13235)                      Victor C 29-9 (API NO 123-13359)                      Victor C 29-16 (API NO 123-13360)                      Johnson PM C 29-8 (API NO 123-14213)                      Lindsay C 33-10 (API NO 123-14698)                      PTF C 32-1 (API NO 123-14878)                      PTF C 32-8 (API NO 123-14879)                      Marie D 4-3 (API NO 123-15122)                      Karch Blue D 4-02 (API NO 123-16137)                      PTF C 32-9 (API NO 123-14892)</p>
Drilling/Completion Operations	<p>1) Comply with Rule 408.j. and provide cement coverage from TD to a minimum of 500' above Niobrara. Verify coverage with a cement bond log.                      2) Oil based drilling fluid can only be used after all groundwater has been isolated.</p>
Drilling/Completion Operations	<p>Per COGCC Order 1-232, Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test:</p> <p>1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi is observed or if there is continuous flow, Operator must contact COGCC engineering for approval prior to stimulation.                      2) If a delayed completion, a second test is required between 6-9 months after rig release and must be conducted prior to stimulation. If any pressure greater than 200 psi is observed or if there is continuous flow, Operator must contact COGCC engineering for approval prior to stimulation.                      3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.</p>
Drilling/Completion Operations	<p>Operator will insure the wellbore beyond the unit boundary setback is physically isolated and is not completed. In the Operator Comments on the Form 5A the operator will (1) report the footages from the section lines of the bottom of the completed interval (2) describe how the wellbore beyond the unit boundary setback is physically isolated and (3) certify that none of the wellbore beyond the setback was completed.</p>
4 COAs	

## Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	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 wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole 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.
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	One of the first wells drilled on the pad will be logged with open hole Resistivity Log and 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 clearly state "No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which open hole logs were run.

Total: 3 comment(s)

## Attachment List

<b>Att Doc Num</b>	<b>Name</b>
403163326	APD APPROVED
403163608	WELLBORE DIAGRAM
403164106	DEVIATED DRILLING PLAN
403165243	DIRECTIONAL DATA
403165249	CORRESPONDENCE
403169650	FORM 2 SUBMITTED
403169651	PUBLIC COMMENT-0

Total Attach: 7 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	<p>This well was initially permitted and the Form 2 approved in 2018 under Noble's Comprehensive Development Plan (CDP), Commission Order #1-228. The expiration date of all CDP Form 2s is six years from the date of the CDP's approval, so the expiration date of the original Form 2 is 10/28/2024. The expiration date of this sidetrack Form 2 will be consistent with the expiration date of the CDP (10/28/2024) rather than the standard three year expiration date per current COGCC rules.</p> <p>The original Form 2 included the approval of a Wellbore Spacing Unit (WSU) per then-current rules. That WSU still applies for this sidetrack. Pursuant to current COGCC rules, no additional WSUs will be established via the administrative approval of a Form 2; any new WSUs may only be created through the Commission approval of a spacing application.</p>	09/16/2022
Permit	Final Review Completed.	09/15/2022
Permit	Corrected distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit with operator concurrence. Per operator email: "We are planning to drill the well ~200' short of the original permit." Permitting review complete.	09/14/2022
Permit	TPZ/BHL footages different from well location plat; given verbal approval during sidetrack. Locations still legal. Locations also now >200' south of unit boundary setback. Querying operator.	09/14/2022
OGLA	The Oil and Gas Location, its associated Form 2A materials, and the Form 2 Application for Permit to Drill were fully reviewed and approved prior to the commencement of drilling operations for this well. Because this is an application for an unplanned sidetrack with drilling in progress, an Oil and Gas Location Assessment review is not applicable to this ongoing operation.	09/14/2022

Total: 5 comment(s)