

APPLICATION FOR PERMIT TO:

Drill

 Deepen

 Re-enter

 Recomplete and Operate

Date Received:
05/20/2020

TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER: _____	Refiling <input checked="" type="checkbox"/>
ZONE TYPE SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONES <input type="checkbox"/> COMMINGLE ZONES <input type="checkbox"/>	Sidetrack <input type="checkbox"/>

Well Name: <u>Guttersen</u>	Well Number: <u>D09-721</u>
Name of Operator: <u>NOBLE ENERGY INC</u>	COGCC Operator Number: <u>100322</u>
Address: <u>1001 NOBLE ENERGY WAY</u>	
City: <u>HOUSTON</u>	State: <u>TX</u>
	Zip: <u>77070</u>
Contact Name: <u>Craig Richardson</u>	Phone: <u>(303)228-4232</u>
	Fax: ()
Email: <u>DenverRegulatory@nblenergy.com</u>	

RECLAMATION FINANCIAL ASSURANCE
 Plugging and Abandonment Bond Surety ID: 20030009

WELL LOCATION INFORMATION

QtrQtr: SWSE Sec: 33 Twp: 4N Rng: 64W Meridian: 6
 Latitude: 40.263030 Longitude: -104.552700

Footage at Surface:	<u>468</u>	Feet	FNL/FSL	<u>1719</u>	Feet	FEL/FWL
	<u>FSL</u>			<u>FEL</u>		

Field Name: WATTENBERG Field Number: 90750
 Ground Elevation: 4722 County: WELD

GPS Data: GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP Date of Measurement: 09/20/2018
 Instrument Operator's Name: Robert Rowe

If well is Directional Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone:	FNL/FSL	FEL/FWL	Bottom Hole:	FNL/FSL	FEL/FWL
<u>200</u>	<u>FNL</u>	<u>710</u>	<u>200</u>	<u>FSL</u>	<u>710</u>
<u>Sec: 4</u>	<u>Twp: 3N</u>	<u>Rng: 64W</u>	<u>Sec: 4</u>	<u>Twp: 3N</u>	<u>Rng: 64W</u>

LOCAL GOVERNMENT INFORMATION

County: WELD Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "local government with jurisdiction to approve the siting of the proposed oil and gas location."

The local government with jurisdiction is: County

Does the local government with jurisdiction regulate the siting of Oil and Gas Locations, with respect to this location? If the local government does regulate the siting, but has waived its right to precede the COGCC in siting determination, indicate by selecting "YES" here and selecting "Waived" for the disposition below. 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 local government siting permit type is: WOGLA

The local government siting permit was filed on: 06/11/2019

The disposition of the application filed with the local government is: Approved

Additional explanation of local process:

Comprehensive WOGLA approved 6/11/2019.

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership: Fee State Federal Indian

The Surface Owner is: is the mineral owner beneath the location.

(check all that apply)

is committed to an Oil and Gas Lease.

has signed the Oil and Gas Lease.

is the applicant.

The Mineral Owner beneath this Oil and Gas Location is: Fee State Federal Indian

The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes

The right to construct the Oil and Gas Location is granted by: oil and gas lease

Surface damage assurance if no agreement is in place: _____ Surface Surety ID: _____

LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

All of Section 4, T3N-R64W, 6th P.M. and 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: Fee State Federal Indian

Federal or State Lease # _____

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 200 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2234 Feet

Building Unit: 2234 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 1709 Feet

Above Ground Utility: 1754 Feet

Railroad: 5280 Feet

Property Line: 468 Feet

School Facility: 5280 Feet

School Property Line: 5280 Feet

Child Care Center: 5280 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- 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, High Occupancy Building Unit, Designated Outside Activity Area, School Facility, and Child Care Center – as defined in 100 Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: Buffer Zone
 Exception Zone
 Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit
 - Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
 - Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

SPACING and UNIT INFORMATION

Distance from completed portion of proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the same formation: 1540 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 200 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS

Proposed Spacing Unit: T3N-R64W, Sec 4: All, Sec 9: All
 Per the Comprehensive Drilling Plan (#11984) this well will be completed less than 460' from the boundary of the Wellbore Spacing Unit.

If this Form 2 is associated with a Drilling and Spacing Unit application, provide docket number: _____

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
CODELL	CODL		1280	GWA

DRILLING PROGRAM

Proposed Total Measured Depth: 12115 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: 271 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 Operations Plan)

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

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Commercial Disposal

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	26	16	42	0	80	173	80	0
SURF	13+1/2	9+5/8	36	0	1850	663	1850	0
1ST	8+1/2	5+1/2	17	0	12115	1292	12115	

Conductor Casing is NOT planned

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- Rule 318A.a. Exception Location (GWA Windows).
- Rule 318A.c. Exception Location (GWA Twinning).

RULE 502.b VARIANCE REQUEST

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

OTHER LOCATION EXCEPTIONS

Check all that apply:

Rule 318.c. Exception Location from Rule or Spacing Order Number _____

Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

OPERATOR COMMENTS AND SUBMITTAL

Comments No change to existing WSU

Noble is resubmitting the Form 2s associated with Location ID 456625 in order to reduce stranded resources that would not be able to be recovered otherwise.

This pad has not been built and has a valid Form 2A.
The following changes from the previously approved Form 2 are being made via this refile, BHL, TD, and the 1st string cement volumes. No other changes have been made.

Nearest well in the producing in the same formation is the Guttersen D09-745 (API: 05-123-48941) XX Status operated by Noble. 317.s not required.

Nearest non-op is the Two E Ranch 1-4 (API: 05-123-11195) SI Status. (Producing zones are greater than 150' apart. No 317.s consent is required.)
The following wells are all within 150'. All are Noble operated, therefore no 317.s is required:
Marie D04-09, (API 05-123-15123), PR Status
Marie D04-16, (API 05-123-13112), PA Status
Wellbore to wellbore distances populated from attached anti-collision report unless otherwise indicated.

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 UPAq to oil based mud.

Exception Location waiver language is included in the SUA attached to the scout card (Page 1, Paragraph 4).

This application is in a Comprehensive Drilling Plan Yes CDP #: 11984

Location ID: 459542

Is this application being submitted with an Oil and Gas Location Assessment application? No

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: 5/20/2020 Email: Julie.webb@nblenergy.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: 7/30/2020

Expiration Date: 10/28/2024

API NUMBER
05 123 48940 00

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>
Drilling/Completion Operations	If location is not constructed by 2A expiration 10/28/2024, a refile Form 2A must be approved prior to location construction.
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”) stating that appropriate mitigation occurred and that it has been completed, prior to the hydraulic stimulation of this well.</p> <p>123-11195 PDC ENERGY INC TWO E RANCH *1-4 123-13155 NOBLE ENERGY INC LINDSAY C *33-2 123-13164 NOBLE ENERGY INC MARIE D *4-10 123-13170 NOBLE ENERGY INC MARIE D *4-6 123-15122 NOBLE ENERGY INC MARIE D *4-3 123-15123 NOBLE ENERGY INC MARIE *D4-9 123-15833 NOBLE ENERGY INC GUTTERSEN *9-15 123-15904 NOBLE ENERGY INC SPIKE ST GWS *D 16-01 123-16137 NOBLE ENERGY INC KARCH BLUE *D 4-02 123-16139 NOBLE ENERGY INC GITTLEIN BLUE *D 4-08 123-16254 NOBLE ENERGY INC ART RED *D 9-4J 123-16282 NOBLE ENERGY INC KARCH WHITE *D 9-1 123-16367 NOBLE ENERGY INC GITTLEIN WHITE *D 9-2 123-16947 NOBLE ENERGY INC ART RED D *9-11 123-16948 NOBLE ENERGY INC ART RED D *9-10 123-16949 NOBLE ENERGY INC ART RED *D 9-14 123-16950 NOBLE ENERGY INC ART RED D *9-16 123-17287 NOBLE ENERGY INC BECCA D *3-12 123-17288 NOBLE ENERGY INC BECCA *D 3-13 123-18000 NOBLE ENERGY INC HSR TIM GITTLEIN *3-9 123-18003 NOBLE ENERGY INC HSR TIM GITTLEIN *6-9 123-22933 NOBLE ENERGY INC MARIE D *4-23 123-24042 NOBLE ENERGY INC VOLLEY STATE D *10-13 123-27306 NOBLE ENERGY INC KARCH D *4-17 123-27102 NOBLE ENERGY INC GUTTERSEN D *04-21 123-31910 NOBLE ENERGY INC GUTTERSEN D *03-33D</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> <ol style="list-style-type: none"> 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 2) If a delayed completion, 6 months after rig release and prior to stimulation. If any pressure greater than 200 psi, must contact COGCC engineer prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.
Drilling/Completion Operations	<ol style="list-style-type: none"> 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU (spud notice) for the first well activity with a rig on the pad and provide 48 hour spud notice via Form 42 for all subsequent wells drilled on the pad. 2) Comply with Rule 317.j. and provide cement coverage from TD to a minimum of 200' above Niobrara and from 200' below Sussex to 200' above Sussex. Verify coverage with cement bond log. 3) Oil-based drilling fluid is to be used only after all fresh water aquifers are covered.

Best Management Practices

No	BMP/COA Type	Description
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: 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	One of the first wells drilled on the pad will be 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: 3 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.
http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.
<http://cogcc.state.co.us/documents/reg/Policies/PolicyGwaBradenheadMonitoringFinal.pdf>

Attachment Check List

Att Doc Num	Name
402356672	FORM 2 SUBMITTED
402356978	DIRECTIONAL DATA
402358282	LEASE MAP
402369714	DEVIATED DRILLING PLAN
402377245	OffsetWellEvaluations Data
402379909	WELL LOCATION PLAT
402402883	OTHER
402456988	OFFSET WELL EVALUATION

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	07/16/2020
Permit	With operator concurrence, added the following to the submit comment: "This pad has not been built and has a valid Form 2A. The following changes from the previously approved Form 2 are being made via this refile, BHL, TD, and the 1st string cement volumes. No other changes have been made." Permitting review complete.	07/16/2020
Permit	Emailed operator to request updated submit comment; refile information missing.	07/16/2020
OGLA	Following additional analysis arising out of the Objective Criteria, the Director determined that this application meets the standard for the protection of public health, safety, and welfare and the environment, including wildlife resources set by SB 19-181. The Objective Criteria Review Memo (Doc# 1347937) can be found in the document file for Location ID 459542.	07/07/2020
Permit	With operator concurrence, corrected location ID.	06/24/2020
Permit	Location ID appears to be incorrect. Emailed operator.	06/24/2020
Permit	A new task has been created for a COGCC Oil & Gas Location Assessment Specialist (OGLA) to review this form.	06/03/2020
Permit	Passed completeness.	06/01/2020

Total: 8 comment(s)