

APPLICATION FOR PERMIT TO:

Drill Deepen Re-enter Recomplete and Operate

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

Date Received:
07/17/2018

Well Name: Independence Well Number: D30-758

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

Address: 1001 NOBLE ENERGY WAY

City: HOUSTON State: TX Zip: 77070

Contact Name: Brittany McFadden Phone: (281)943-1940 Fax: ()

Email: brittany.mcfadden@nblenergy.com

RECLAMATION FINANCIAL ASSURANCE
Plugging and Abandonment Bond Surety ID: 20030009

WELL LOCATION INFORMATION

QtrQtr: NENW Sec: 19 Twp: 3N Rng: 64W Meridian: 6

Latitude: 40.217080 Longitude: -104.596810

Footage at Surface:	<u>330</u>	Feet	FNL/FSL	<u>1638</u>	Feet	FEL/FWL
			FNL			FWL

Field Name: WATTENBERG Field Number: 90750

Ground Elevation: 4787 County: WELD

GPS Data:
Date of Measurement: 09/22/2017 PDOP Reading: 1.0 Instrument Operator's Name: Kyle Daley

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>60</u>	FNL	<u>2125</u>	<u>75</u>	FSL	<u>2125</u>
		FWL			FWL

Sec: 19 Twp: 3N Rng: 64W Sec: 30 Twp: 3N Rng: 64W

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: Surface Use Agreement

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.)

T3N-R63W, 6th P.M., Sec. 7: Lots 1, 2, E/2W/2, SE/4, Sec. 15: W/2, SE/4, Sec. 17: W/2, SE/4, Sec. 19: Lots 1, 2, 3, 4, E/2W/2, SE/4, Sec. 21: W/2, SE/4, Sec. 29: W/2, SE/4; T3N-R64W, 6th P.M., Sec. 19: Lots 1, 2, E/2NW/4, SE/4, SW/4NE/4, Sec. 21: W/2, SE/4, Sec. 23: W/2, SE/4, Sec. 27: W/2, SE/4, Sec. 29: W/2, SE/4; Sec. 35: W/2, SE/4

Total Acres in Described Lease: 5635 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: 0 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 487 Feet
 Building Unit: 525 Feet
 High Occupancy Building Unit: 5280 Feet
 Designated Outside Activity Area: 5280 Feet
 Public Road: 318 Feet
 Above Ground Utility: 299 Feet
 Railroad: 5280 Feet
 Property Line: 330 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, and Designated Outside Activity Area - 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: 02/02/2018

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: 55 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 804 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, 6th P.M., Sec. 18: SW/4SE/4, SE/4SW/4, Sec. 19: W/2E/2, E/2W/2, Sec. 30: W/2E/2, E/2W/2, Sec. 31: NW/4NE/4, NE/4NW/4

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		800	GWA

DRILLING PROGRAM

Proposed Total Measured Depth: 17840 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: 175 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:

Drilling waste disposal information added to address non-oil based mud and fluids used in non-producing portion of wellbore.

Beneficial reuse or land application plan submitted? _____

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	144	80	0
SURF	13+1/2	9+5/8	36	0	1850	658	1850	0
1ST	8+1/2	5+1/2	20	0	17840	1970	17840	

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 Noble respectfully submits this application for a permit to drill, which is a part of a seven well pad producing to the D19-01 Tank (401553825).

The distance to the nearest wellbore in the same formation is the Guttersen D30-68-1HN Well (API: 05-123-35611). The wellbore belonging to an outside operator within 1500' of our proposed well is Butterball 24-19, (API: 5-123-25946). The distance was determined by using the attached anti-collision report.

The Exception Location and Twinning Waiver language is included in the attached SUA, (Page 5, Section 6).

Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with Oil & Gas operations throughout the state of Colorado in accordance with CFR 112. Noble Energy shall isolate both the Fox Hills and Upper Pierre Aquifers with surface casing from hydrocarbon bearing zones and exposures to oil based drilling fluid. Noble Energy also agrees to not expose the Upper Pierre Aquifer to oil based mud.

Noble Energy will comply with the COGCC Policy for Bradenhead Monitoring during Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated 5/29/12.

This application is in a Comprehensive Drilling Plan _____ CDP #: _____

Location ID: 456625

Is this application being submitted with an Oil and Gas Location Assessment application? Yes

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

Signed: _____ Print Name: Brittany McFadden

Title: Regulatory Analyst Date: 7/17/2018 Email: brittany.mcfadden@nblenergy.c

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 and applicable orders and is hereby approved.

COGCC Approved:  Director of COGCC Date: 8/29/2018

Expiration Date: 08/28/2020

API NUMBER
05 123 47690 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>
	<p>Bradenhead tests shall be performed and reported 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. 2) 6 months after rig release, prior to stimulation. 3) Within 30 days of first production, as reported on Form 5A.
	<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 on the pad and provide 48 hour spud notice for all subsequent wells drilled on the pad. 2) Comply with Rule 317.j and provide cement coverage from the end of production casing to a minimum of 200' above Niobrara. Verify coverage with cement bond log. 3) Oil-based drilling fluid is to be used only after all aquifers are covered.
	<p>Operator acknowledges the proximity of the following non-operated 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>Grasnak 1-19 (API NO 123-11670)</p>
	<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>Corbin Red D 30-4J (API NO 123-16622)Gurtler H 25-27 (API NO 123-26247) Hettinger D 30-4 (API NO 123-17343)KY Blue H 25-9 (API NO 123-17436) LDS White D 19-10 (API NO 123-16315)LDS White D 19-15 (API NO 123-16316) Mick D 18-11 (API NO 123-17284)Scooter D 18-15 (API NO 123-12110) Turk Blue D 19-2J (API NO 123-16216)Turk Blue D 19-6 (API NO 123-16219)</p>

Best Management Practices

No	BMP/COA Type	Description
1	General Housekeeping	Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with storm water runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly.
2	Storm Water/Erosion Control	The basis for the Sensitive Area Determination for the 19-03 pad is that there is a building unit within 1,000 feet of the location. Stormwater from the site is unlikely to have any negative impacts on the building unit, which is 232 feet north of the location and across WCR 32. However, Noble will implement stormwater BMPs to minimize erosion and transportation of sediment off-site. The planned stormwater BMPs include stabilizing soil stockpiles with tracking and/or hydromulch; the use of stormwater diversions such as ditches; and BMPs that will slow stormwater runoff and settle out sediment, such as sediment traps and ripping. However, BMPs may be changed or modified during or after pad construction, as needed.
3	Drilling/Completion Operations	DRILLING SKID: 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	LOGGING EXCEPTION: One of the first wells drilled on the pad will be logged with Cased hole Pulsed Neutron Log with Gamma Ray Log from 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 shall clearly state "No open-hole logs were run" and shall reference the Rule 317.p Exception granted for the well.
5	Drilling/Completion Operations	ANTI-COLLISION/BRADENHEAD: Anti-Collision & During and Post stimulation: 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: 5 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
401560461	FORM 2 RESUBMITTED
401702395	FORM 2 SUBMITTED
401702396	FORM 2 REJECTED
401704554	SURFACE AGRMT/SURETY
401704556	EXCEPTION LOC REQUEST
401704559	WELL LOCATION PLAT
401704563	DEVIATED DRILLING PLAN
401704567	STIMULATION SETBACK CONSENT
401704571	PROPOSED SPACING UNIT
401705369	OPEN HOLE LOGGING EXCEPTION
401705824	FORM 2 SUBMITTED
401716900	FORM 2 RESUBMITTED
401717184	OffsetWellEvaluations Data
401717185	DIRECTIONAL DATA
401717190	FORM 2 RESUBMITTED
401747979	OFFSET WELL EVALUATION

Total Attach: 16 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed	08/29/2018
Permit	The Exception Location and Twinning Waiver language is included in the attached SUA, (Page 5, Section 6). Operator requested Exception to Open Hole Logging Rule 317.p. See attached. Permitting Review Complete.	08/14/2018
Permit	Passed Completeness.	08/06/2018
Permit	Returned to draft for: No directional data attached.	07/24/2018
Permit	REJECTION COMMENT: This APD is being rejected per the Rejection Process criteria that a pad of Form 2's requiring a total of four or more attachments to be added will be rejected. This pad requires removal of the Open Hole Logging Exception request, corrections to the Exception Location request and corrections to the casing/cement program for a total of 7 APD's. The Operator and COGCC staff have been consulted.	07/13/2018
Engineer	Revised the top of the Surface String from 80', to 0', and the 1st Liner, to a 1st String, and the top of the casing from 1850', to 0', on the Casing Tab.	06/15/2018
Engineer	Offset Wells Evaluated	06/15/2018
Permit	Passed Completeness.	05/04/2018
Permit	Returned to draft for: OPEN HOLE LOGGING EXCEPTION / EXCEPTION LOCATION REQUEST / SURFACE AGRMT/SURETY Attachments do not open.	04/23/2018

Total: 9 comment(s)