

FORM
2

Rev
08/13

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:

401076754

APPLICATION FOR PERMIT TO:

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

Date Received:

07/11/2016

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER _____

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Well Name: Heston

Well Number: LD06-620

Name of Operator: NOBLE ENERGY INC

COGCC Operator Number: 100322

Address: 1625 BROADWAY STE 2200

City: DENVER State: CO Zip: 80202

Contact Name: Justin Garrett

Phone: (303)228 4449

Fax: (303)228 4286

Email: justin.garrett@nblenergy.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030009

WELL LOCATION INFORMATION

QtrQtr: SESE Sec: 5 Twp: 9N Rng: 58W Meridian: 6

Latitude: 40.775540

Longitude: -103.880190

Footage at Surface: 877 feet FNL/FSL FSL 330 feet FEL/FWL FEL

Field Name: WILDCAT

Field Number: 99999

Ground Elevation: 4800

County: WELD

GPS Data:

Date of Measurement: 02/22/2014 PDOP Reading: 1.4 Instrument Operator's Name: Trevor 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
368 FSL 347 FEL 380 FSL 330 FWL
Sec: 5 Twp: 9N Rng: 58W Sec: 6 Twp: 9N Rng: 58W

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.)

T9N-R58W, Section 3: S/2NW/4, SW/4 = 240 acres; Section 4: Lot 1(39.32), SE/4NE/4 = 79.32 acres; Section 4: Lot 2(39.18), SW/4NE/4, SE/4 = 239.18 acres; Section 4: Lot 3(39.02), Lot 4(38.88), S/2NW/4 = 157.90 acres; Section 5: Lot 1(38.94), Lot 2 (39.22), S/2NE/4 = 158.16 acres; Section 5: SE/4 = 160 acres. Total lease acres = 1034.56.

Total Acres in Described Lease: 1034 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: 5280 Feet
Building Unit: 5280 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 4392 Feet
Above Ground Utility: 5280 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: _____

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: 330 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 330 Feet (Enter 5280 for distance greater than 1 mile.)

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

SPACING & FORMATIONS COMMENTS

T9N-R58W Section 5: All; Section 6: All.

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	535-722	1287	Sec 5, 6: All

DRILLING PROGRAM

Proposed Total Measured Depth: 16265 Feet

Distance from proposed wellbore to nearest existing or permitted wellbore belonging to another operator:

330 Feet (Including plugged wells)

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 609

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? Yes

Reuse Facility ID: _____ or Document Number: 2614238

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	6	80	0
SURF	13+3/4	9+5/8	36	0	1927	1464	1927	0
1ST	8+1/2	5+1/2	20	0	16265	1676		

☐ 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

a. Description of the situation that has resulted in an UNPLANNED sidetrack = stuck/packed off production casing.
b. Total measured depth reached in the wellbore being plugged back = 16,261'
c. Casing set – size(s) and measured depth(s) =
16" 42# Conductor Set to 80' with 6 sacks cement
9-5/8" 36# surface casing set to 1850' with 535 sacks of cement
5-1/2 20# casing set to 16091' with no cement on the backside (Set plug above)
d. Description of fish in the hole (if any) – including top and bottom measured depths = no fish in hole; pulled casing
e. Description of proposed plugs: setting measured depths, heights, and cement volumes = pull casing from 5911', plug well back (17.5ppg - Class G cement) to ~5300', Plug volume: 48.4 bbl, 295 sx, 0.92 cu ft/sk yield
f. Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk) = (17.5ppg - Class G cement) 0.92 cu ft/sk yield
g. Measured depth of proposed sidetrack kick-off point = Measure depth of sidetrack: 5296'
h. Proposed objective formation(s) for sidetrack hole – new or same as the wellbore being abandoned = same
i. BHL Target for sidetrack hole – new or same as the wellbore being abandoned = New: 380 FSL, 330 FWL Sec 6.
j. Verbal/email approval to plug back and sidetrack – indicate the name of the COGCC Engineer who granted verbal/email approval, as described in Step 1.b., and the date approval granted = Verbal approval by Diana Burn, 7/10/2016, 10:13 AM

This application is in a Comprehensive Drilling Plan _____ No _____ CDP #: _____

Location ID: 440372

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: Justin Garrett

Title: Regulatory Analyst Date: 7/11/2016 Email: RegulatoryNotification@nblene

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: 7/12/2016

Expiration Date: 07/11/2018

API NUMBER

05 123 40816 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.

COA Type

Description

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Best Management Practices

No BMP/COA Type

Description

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Applicable Policies and Notices to Operators

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

Attachment Check List

Att Doc Num

Name

401076754	APD APPROVED
401076896	DIRECTIONAL DATA
401076902	CORRESPONDENCE
401076903	DEVIATED DRILLING PLAN
401076919	WELL LOCATION PLAT
401076943	WELLBORE DIAGRAM
401077572	FORM 2 SUBMITTED

Total Attach: 7 Files

General Comments

User Group

Comment

Comment Date

Permit	Final Review Completed.	07/12/2016
Engineer	Requested confirmation of surface casing depth and cement qty. WBD and RemindmE note indicate 1927' surface casing w/ 2 annular fills. Operator confirms surface casing depth was 1927' and 1464 sxs cement.	07/12/2016
Permit	Per operator added new spacing order # 535-722. Unplanned Sidetrack for Heston LD06-620 (API# 123-10816-00) Permitting Review Complete.	07/12/2016
Permit	ON HOLD: requesting correction to Spacing order #.	07/12/2016
Permit	LGD and public comment periods waived by COGCC Staff. Comment periods do not apply to this application for an unplanned Sidetrack or Rig Skid when drilling is in progress.	07/12/2016
Permit	This form has passed completeness.	07/12/2016

Total: 6 comment(s)