

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:

403273381

(SUBMITTED)

Date Received:

02/03/2023

APPLICATION FOR PERMIT TO

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

Amend ☐

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

Refile ☒

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: SLW STATE

Well Number: B14-677

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: Lot 2 Sec: 18 Twp: 5N Rng: 63W Meridian: 6

FNL/FSL

FEL/FWL

Footage at Surface: 1217 Feet FNL 780 Feet FWL

Latitude: 40.402760

Longitude: -104.486320

GPS Data:

GPS Quality Value: 2.1

Type of GPS Quality Value: PDOP

Date of Measurement: 01/17/2023

Ground Elevation: 4590

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: 13 Twp: 5N Rng: 64W

Footage at TPZ: 827 FNL 100 FEL

Measured Depth of TPZ: 6935

True Vertical Depth of TPZ: 6545

FNL/FSL

FEL/FWL

Base of Productive Zone (BPZ)Sec: 14 Twp: 5N Rng: 64WFootage at BPZ: 863 FNL 200 FWLMeasured Depth of BPZ: 17173True Vertical Depth of BPZ: 6545 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 14 Twp: 5N Rng: 64WFootage at BHL: 862 FNL 60 FWL

FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATIONCounty: WELDMunicipality: 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: 04/04/2018Comments: WOGLA was approved on 4/4/2018, 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 ☐ IndianMineral Owner beneath this Well's Oil and Gas Location: ☐ 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):

☒ 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.)

Township 5 North, Range 64 West, 6th P.M.
Section 13: W/2NE/4

Total Acres in Described Lease: 80

Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 3367 Feet
Building Unit: 3538 Feet
Public Road: 3676 Feet
Above Ground Utility: 1836 Feet
Railroad: 5280 Feet
Property Line: 780 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	407-3425	720	5N-63W-18: W/2NW/4; 5N-64W-13: N/2; 5N-64W-14: N/2

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: 455 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

DSU Order 407-3425
5N-63W-18: W/2NW/4
5N-64W-13: N/2
5N-64W-14: N/2

DRILLING PROGRAM

Proposed Total Measured Depth: 17313 Feet

TVD at Proposed Total Measured Depth 6545 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: 39 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-52A	36.94	0	110	60	110	0
SURF	13+1/2	9+5/8	J-55	36	0	1980	674	1980	0
1ST	8+1/2	5+1/2	P-110	17	0	17313	2003	17313	

☐ 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	surface alluvium	0	0	50	50	1001-10000	Other	Environmental Sample Site #765790, 754866, 764892
Confining Layer	Pierre Shale	50	50	330	330			
Groundwater	Upper Pierre Aquifer	330	330	1340	1340	1001-10000	Other	COGCC Project #2141, Figure 5
Confining Layer	Pierre Shale	1340	1340	3397	3390			
Hydrocarbon	Parkman (sand)	3397	3390	3749	3740			
Confining Layer	Pierre Shale	3749	3740	3890	3880			
Hydrocarbon	Sussex (sand)	3890	3880	4333	4320			
Confining Layer	Pierre Shale	4333	4320	4695	4680			
Hydrocarbon	Shannon (sand)	4695	4680	4907	4890			
Confining Layer	Pierre Shale	4907	4890	5637	5615			
Subsurface Hazard	Tepee Buttes	5637	5615	6259	6220			
Confining Layer	Pierre Shale	6259	6220	6465	6380			
Hydrocarbon	Niobrara	6465	6380	17313	6545			

OPERATOR COMMENTS AND SUBMITTAL

Comments

Noble respectfully submits this application to refile a permit to drill. The pad has been constructed and the conductor casing set. The well is part of a six well pad producing to pad BB18-19 (location ID# 456176).

The distance to another wellbore belonging to an outside operator is the Miller Deppe 1 (API: 05-123-13057) Operated by PDC Energy INC, status TA. The distance was calculated using the anti-collision summary.

The nearest well in the same formation is located on the same pad, the SLW Ranch State B14-670 operated by Noble Energy INC. Measured in 2D.

Wells within 150':

Miller Deppe 1 05-123-13057 (TA) 39' operated by PDC Energy INC 408.u consent attached.

Miller Deppe 11-13 05-123-19234 (TA) 53' operated by PDC Energy INC 408.u consent attached.

Seyler 41-14 05-123-17611 (TA) 58' operated by Noble Energy INC no 408.u is required.

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 863' FNL and 200' FWL of Section 14. The wellbore beyond the unit boundary setback will be physically isolated and will not be completed.

GPS provided on the permit was from the planned location. As drilled GPS was reported on Form 4 doc 402349124.

- No changes were made to the surrounding land use (changes in land use, new buildings, etc.).
- Changes were made to: TPZ, BHL, the 1st string cement volume and the proposed spacing unit.
- No changes were made to the mineral lease description upon which the proposed well site is located.
- The proposed well site has been built and there is no drilling currently taking place on the well site. Conductor was set on 2/19/2020 (reported on Form 4 doc #402349124).
- Form 4 NOI preset conductor was submitted 03/23/2020 on doc # 402349124.
- Form 4 NOI request to keep conductor was submitted 6/1/2020 on doc # 402410473.

Laramie-Fox Hills formation eroded by stream deposits: WRI 2017-1a.

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: 456176

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: 2/3/2023 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

05 123 47409 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.

COA Type

Description

0 COA

Best Management Practices

No BMP/COA Type

Description

1	Drilling/Completion Operations	Alternative Logging Program - 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 openhole 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.
2	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.
3	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.

Total: 3 comment(s)

Attachment List

Att Doc Num

Name

403299371	DIRECTIONAL DATA
403299372	DEVIATED DRILLING PLAN
403303480	WELL LOCATION PLAT
403309964	STIMULATION SETBACK CONSENT
403311256	OffsetWellEvaluations Data

Total Attach: 5 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)