

Base of Productive Zone (BPZ)

Sec: 26 Twp: 5N Rng: 67W Footage at BPZ: 669 FNL 150 FWL
Measured Depth of BPZ: 18381 True Vertical Depth of BPZ: 7119 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 26 Twp: 5N Rng: 67W Footage at BHL: 669 FNL 100 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: 02/01/2024

Comments: 1041WOGLA23-0038 Approved on 2/1/2024. Location has not been built.

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
- [X] 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 5N, Range 67W, Section 26: NE/4, N/2NW/4

Total Acres in Described Lease: 240 Described Mineral Lease is: Fee State Federal Indian
 Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 2099 Feet
 Building Unit: 2263 Feet
 Public Road: 748 Feet
 Above Ground Utility: 736 Feet
 Railroad: 5280 Feet
 Property Line: 752 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	407-3558	2560	Township 5N, Range 67W, 6th. P.M. Section 25: All Section 26: All Section 35: All Section 36: All

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: 150 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: 445 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

ECMC Approved Spacing Order 407-3558

DRILLING PROGRAM

Proposed Total Measured Depth: 18431 Feet

TVD at Proposed Total Measured Depth 7118 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: 12 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

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-53B	36.95	0	80	175	80	0
SURF	13+1/2	9+5/8	J-55	36	0	1850	633	1850	0
1ST	8+1/2	5+1/2	P-110	17	0	18431	2159	18431	10000

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
Confining Layer	Pierre Shale	0	0	561	561			
Groundwater	UPIR/Pawnee Aquifer	561	561	1556	1532	1001-10000	Other	COGCC UPWQ Study
Confining Layer	Pierre Shale	1556	1532	4068	3886			
Hydrocarbon	Parkman	4068	3886	4418	4212			
Confining Layer	Pierre Shale	4418	4212	4591	4376			
Hydrocarbon	Sussex	4591	4376	4886	4652			
Confining Layer	Pierre Shale	4886	4652	5190	4937			
Hydrocarbon	Shannon	5190	4937	5701	5416			
Confining Layer	Pierre Shale	5701	5416	7547	7131			
Subsurface Hazard	Sharon Springs Shale	7547	7131	7592	7165			least competent shales
Hydrocarbon	Niobrara	7592	7165	18431	7118			Nio Target

OPERATOR COMMENTS AND SUBMITTAL

Comments

PDC Energy shall isolate both the Fox Hills and UPIR/Pawnee Aquifers with surface casing from hydrocarbon bearing zones and exposure to oil-based drilling fluid. PDC Energy also agrees not to expose the UPIR/Pawnee Aquifers to oil-based mud.

The nearest well in the same formation is located on the same pad, the BOOTH STATE 01N operated by PDC Energy, measured in 2D.

The distance to another wellbore belonging to an outside operator is the BLEHM #3 (API: 05-123-11103) Operated by Noble Energy INC, status TA (12'). The distance was calculated using the anti-collision summary. 408.u consent attached.

Wells within 150':

VETTER #26-12 05-123-19413 (PA) 23' operated by PDC Energy INC, no 408.u is required, well has been plugged and abandoned.

BOOTH #25-11 05-123-16856 (PA) 60' operated by PDC Energy INC, no 408.u is required, well has been plugged and abandoned.

BLEHM N #26-1 05-123-22113 (PA) 116' operated by Noble Energy INC, no 408.u is required, well has been plugged and abandoned.

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 669' FNL and 150' FWL of Section 26. The wellbore beyond the unit boundary setback will be physically isolated and will not be completed.

Laramie/ Fox Hills is not present in this area, this was verified through the DWR Aquifer tool.

QTR QTR location has been verified. ECMC GIS does not show this well in the correct QTR QTR.

This application is in a Comprehensive Area Plan Yes CAP #: 210200012
Oil and Gas Development Plan Name Cameron 2 OGDP ID#: 485239
Location ID: 485813

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

Signed: _____ Print Name: Kim Bauer

Title: Regulatory Analyst II Date: 11/13/2024 Email: denverregulatory@chevron.on

Based on the information provided herein, this Application for Permit-to-Drill complies with ECMC Rules, applicable orders, and SB 19-181 and is hereby approved.

ECMC Approved: _____ Director of ECMC Date: _____

Expiration Date: _____

API NUMBER
05

CONDITIONS OF APPROVAL, IF ANY LIST

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	
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Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	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.`
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	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	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 "Open-hole logging exception - 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: 4 comment(s)

ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
403903377	DEVIATED DRILLING PLAN
403903382	SURFACE AGRMT/SURETY
403903383	WELL LOCATION PLAT
403912361	OPEN HOLE LOGGING EXCEPTION
403919836	OffsetWellEvaluations Data
403986003	DIRECTIONAL DATA
403992551	STIMULATION SETBACK CONSENT

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)