



Base of Productive Zone (BPZ)

Sec: 36 Twp: 7N Rng: 64W Footage at BPZ: 2314 FNL 200 FEL

Measured Depth of BPZ: 17814 True Vertical Depth of BPZ: 6966 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 36 Twp: 7N Rng: 64W Footage at BHL: 2314 FNL 200 FEL

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: 01/08/2020

Comments: CDP WOGLA 1041WOGLA19-0042 filed 12/10/2019, recorded 1/8/2020. A site-specific WOGLA will be filed prior to commencement of operations.

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 7N, Range 64W, 6th P.M., Section 35: W2, NE4, N2SE4

Total Acres in Described Lease: 560 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # \_\_\_\_\_

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 769 Feet  
Building Unit: 1928 Feet  
Public Road: 2377 Feet  
Above Ground Utility: 895 Feet  
Railroad: 5280 Feet  
Property Line: 245 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	407-3392	1280	Township 7N, Range 64W, 6th P.M., 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: 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: 654 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 Number 407-2973 has an exception location under order 407-3392.

**DRILLING PROGRAM**Proposed Total Measured Depth: 17814 FeetTVD at Proposed Total Measured Depth 6966 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: 139 Feet  No well belonging to another operator within 1,500 feetWill a closed-loop drilling system be used? YesIs H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater thanor equal to 100 ppm? No If yes, attach an H<sub>2</sub>S 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? NoWill salt sections be encountered during drilling? NoWill salt based (>15,000 ppm Cl) drilling fluids be used? NoWill oil based drilling fluids be used? YesBOP Equipment Type:  Annular Preventor  Double Ram  Rotating Head  None

Beneficial reuse or land application plan submitted? \_\_\_\_\_

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	80	175	80	0
SURF	13+1/5	9+5/8	J-55	36	0	1850	640	1850	0
1ST	8+1/2	5+1/2	P-110	17	0	17814	2082	17814	

 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	Laramie Fox Hills	0	0	430	430	501-1000	Groundwater Sample	COGCC Environmental Sample Site #753073, 704661, &752785
Confining Layer	Pierre Shale	430	430	630	630			
Groundwater	Upper Pierre Aquifer	630	630	1700	1700	1001-10000	Other	COGCC Project #2141, Figure 5
Confining Layer	Pierre Shale	1700	1700	3700	3600			
Hydrocarbon	Parkman	3700	3600	4300	4170			
Confining Layer	Pierre Shale	4300	4170	4600	4450			
Hydrocarbon	Sussex	4600	4450	5000	4800			
Confining Layer	Pierre Shale	5000	4800	5300	5030			
Hydrocarbon	Shannon	5300	5030	5500	5230			
Confining Layer	Pierre Shale	5500	5230	6400	6000			
Hydrocarbon	Tepee Buttes	6400	6000	7000	6600			
Confining Layer	Pierre Shale	7000	6600	7150	6730			
Hydrocarbon	Niobrara	7150	6730	17813	6966			Potential Flow Formation Table: The TVD of the deepest hydrocarbon zone is the bottom of the well and not the bottom of the formation. The formation is not planned to be exited.

**OPERATOR COMMENTS AND SUBMITTAL**

Comments

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.

The nearest well in unit per 2-D calculation is the Cecil AB35-665 @ 654'.

The nearest outside operated well per anti-collision is the Richter 34U-303 (API: 05-123-37100) PR Status @ 139'.

Producing zones are >150' apart; no 408.u is required.

Wells also within 150':

Dyer USX AB35-67-1HN (API: 05-123-34772) PR Status @ 118'. Well is Noble operated; no 408.u is required.

Dyer USX AB35-68-1HN (API: 05-123-34773) PR Status @ 41'. Well is Noble operated; no 408.u is required.

FYI - Pettinger USX AB35-7 (API: 05-123-27393) TA Status @ 156' is within 175'.

Chevron/Noble has filed a Form 6S for the three wells ECMC identified as needing to be P&A prior to filing this Form 2 to comply with the number of wells in the approved Form 2A for this OGDP:

05-123-26380 – Westerman 32-11 – Doc 403458595

05-123-33291 – Cecil USX AB35-12D – Doc 403458800

05-123-33294 – Cecil USX AB35-11D – Doc 403461568

This application is in a Comprehensive Area Plan No CAP #: \_\_\_\_\_

Oil and Gas Development Plan Name WR OGDP 3 OGDP ID#: 481740

Location ID: 422514

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

Signed: \_\_\_\_\_ Print Name: Ann Feldman

Title: Regulatory Manager Date: 7/26/2023 Email: regulatory@ascentgeomatics.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, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved:  Director of COGCC Date: 9/5/2023

Expiration Date: 03/24/2030

**API NUMBER**  
05 123 52194 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>
Interim Reclamation	Operator shall comply with Notice to Operators: Interim Reclamation Procedures for Delayed Operations (dated January 5, 2017).
Construction	If conductors are preset, operator shall comply with Rule 406.e.
Drilling/Completion Operations	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: 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, a second test is required between 6-9 months, of if there is pressure above 200 psi, 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	1) Submit Form 42 electronically to COGCC 2 business days prior to MIRU (Spud Notice), for the first well/activity on the pad and provide 2 business days spud notice for all subsequent wells drilled on the pad. 2) Comply with Rule 408.j and provide cement coverage from the end of production casing to a minimum of 500' above Niobrara. Verify coverage with cement bond log. 3) Oil-based drilling fluid is to be used only after all aquifers are covered.
Drilling/Completion Operations	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.  Owl Creek 49 (API NO 123-12064) Dyer 1-2 (API NO 123-29188)
5 COAs	

## Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	Drilling/Completion Operations	Open Hole 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 "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.
2	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.
3	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 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: 3 comment(s)

## Attachment List

<b>Att Doc Num</b>	<b>Name</b>
402881436	FORM 2 SUBMITTED
403292559	OffsetWellEvaluations Data
403292568	WELL LOCATION PLAT
403292573	OPEN HOLE LOGGING EXCEPTION
403473834	DEVIATED DRILLING PLAN
403473835	DIRECTIONAL DATA
403519711	OFFSET WELL EVALUATION

Total Attach: 7 Files

## General Comments

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Final Review Completed.	08/28/2023
Permit	Emailed operator for the following: - Confirm revising BMP to Open Hole Logging Exception  Made the following changes with concurrence from the operator: - Revised BMP to Open Hole Logging Exception  Permit Review Complete	08/25/2023
Permit	Form IN PROCESS	08/21/2023
Permit	Return to Draft: Per operator request.	03/20/2023

Permit	<p>ON HOLD: This application has been reviewed by COGCC staff and cannot be approved based on the information submitted; therefore, the COGCC is placing this form ON HOLD until additional information is received from the applicant.</p> <p>In compliance with § 24-65.1-108(1), C.R.S., the COGCC is providing this written request for all additional information necessary for the COGCC to respond to this application. The applicant may provide all requested additional information to COGCC via email. Upon receipt of all requested information, the COGCC will have 60 days in which to approve, deny, or request all additional information necessary to complete the regulatory review. If the applicant no longer requires this application be approved, the applicant may request to withdraw the application.</p> <p>In addition to all standard required information and attachments, the COGCC hereby confirms the following information is necessary for review:</p> <ol style="list-style-type: none"> <li>1. Nobles decision on how to move forward with excess wells on location.</li> <li>2. Confirm adding the following COA's <ol style="list-style-type: none"> <li>a. If conductors are preset, operator shall comply with Rule 406.e.</li> <li>b. Operator shall comply with Notice to Operators: Interim Reclamation Procedures for Delayed Operations (dated January 5, 2017).</li> </ol> </li> </ol>	03/10/2023
Permit	<p>Made the following changes in concurrence with the operator:</p> <ul style="list-style-type: none"> <li>- Revised Lat/Long and PDOP under Well Location tab to match information on attached Well Location Plat.</li> <li>- Revised Spacing Order from 407-2973 to 407-3392 (amended)</li> <li>- Revised BPZ MD to match information on attached Deviated Drilling Plan.</li> <li>- Revised Proposed Total Measured Depth under Drilling Tab to match TD information on attached Deviated Drilling Plan.</li> <li>- Revised Casing First String Setting Depth and Cement Bottom to match MD information on attached on Deviated Drilling Plan.</li> </ul>	02/22/2023
Permit	<p>Emailed the operator for the following:</p> <ul style="list-style-type: none"> <li>- Confirm revising Lat/Long and PDOP to match information on Well Location Plat.</li> <li>- Confirm revising BPZ MD under Well Location tab to match attached Deviated Drilling Plan.</li> <li>- Confirm revising Total MD under Drilling and Casing tabs to match MD on attached Deviated Drilling Plan.</li> <li>- Confirm revising Spacing Order No. from 407-2973 to 407-3392 (amended)</li> </ul>	02/17/2023
Permit	<p>Open: Emailed the SLB to notify them of this pending application. Close: SLB has no concerns with this application.</p>	02/15/2023
Engineer	Offset Wells Evaluated.	01/23/2023
OGLA	The Commission approved OGDG #481740 on October 12, 2022 for the Oil and Gas Location related to this Form 2. OGLA task passed.	01/19/2023

Total: 10 comment(s)