

FORM
2

Rev
05/22

State of Colorado

Energy & Carbon Management Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

403861844

Date Received:

11/18/2024

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: Wildhorse Well Number: 04-0404
Name of Operator: FUNDARE RESOURCES OPERATING COMPANY LLC ECMC Operator Number: 10773
Address: 5251 DTC PKWY STE 950
City: GREENWOOD VILLAGE State: CO Zip: 80111
Contact Name: Sydney Smith Phone: (303)910-4511 Fax: ()
Email: ssmith@fundareresources.com

FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

ECMC Financial Assurance

The Operator has provided or will provide Financial Assurance to the ECMC for this Well.

Surety ID Number (if applicable): 20210061

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 4 Sec: 4 Twp: 9N Rng: 59W Meridian: 6

Footage at Surface: 305 Feet FNL 1140 Feet FEL

Latitude: 40.786016 Longitude: -103.988445

GPS Data: GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Date of Measurement: 04/26/2023

Ground Elevation: 5109

Field Name: DJ HORIZONTAL NIOBRARA Field Number: 16950

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: 4 Twp: 9N Rng: 59W Footage at TPZ: 300 FNL 1307 FEL

Measured Depth of TPZ: 7203 True Vertical Depth of TPZ: 6191 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 4 Twp: 9N Rng: 59W Footage at BPZ: 300 FSL 1307 FEL
Measured Depth of BPZ: 11867 True Vertical Depth of BPZ: 6191 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 4 Twp: 9N Rng: 59W Footage at BHL: 100 FSL 1307 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: 06/20/2024

Comments: 1041 WOGLA approved by Weld County. Permit Number-1041WOGLA23-0053

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
[] State
[X] 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.)

Lot 1, SE/4NE/4, SE/4 of Section 4

Total Acres in Described Lease: 240 Described Mineral Lease is: [X] Fee [] State [] Federal [] Indian

Federal or State Lease #

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet
Building Unit: 5280 Feet
Public Road: 1266 Feet
Above Ground Utility: 3717 Feet
Railroad: 5280 Feet
Property Line: 305 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	535-1505	640	T9N-R59W Section 4: 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: 300 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: 653 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

DRILLING PROGRAM

Proposed Total Measured Depth: 12067 Feet TVD at Proposed Total Measured Depth 6191 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: 656 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	24	16	Other	65	0	80	100	80	0
SURF	13+1/2	9+5/8	J-55	36	0	2100	562	2100	0
1ST	8+1/2	5+1/2	P-110	20	0	12067	2100	12067	0

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	White River Formation	25	25	170	170	501-1000	DWR	
Groundwater	Laramie Formation	170	170	270	270	501-1000	DWR	
Groundwater	Fox Hills Sandstone	270	270	814	809	501-1000	DWR	
Confining Layer	Pierre Shale 1	814	809	1237	1214			
Groundwater	Upper Pierre Aquifer	1237	1214	2014	1909	1001-10000	DWR	
Confining Layer	Pierre Shale 2	2014	1909	4048	3699			
Hydrocarbon	Hygiene Ss	4048	3699	4344	3959			
Confining Layer	Sharon Springs Shale	6851	6098	6984	6154			
Hydrocarbon	Niobrara Formation	6984	6154	12067	6200			

OPERATOR COMMENTS AND SUBMITTAL

Comments

The location has been constructed but is being expanded to include these additional wells.

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, 300 FSL & 1307 FEL of Section 4. The wellbore beyond the unit boundary setback will be physically isolated and will not be completed.

Nearest well in the same formation is Wildhorse 04-0403, API Pending.

Nearest existing or proposed wellbore belonging to another operator is the Timbro 9-59 #8A-9-2, API 05-123-47559 using 2D measurements.

This application is in a Comprehensive Area Plan _____ CAP #: _____
Oil and Gas Development Plan Name Wildhorse 4-7 OGDP ID#: 487462
Location ID: 426426

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

Signed: _____ Print Name: Sydney Smith

Title: Director EHSR Date: 11/18/2024 Email: ssmith@fundareresources.com

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 ECMC Rules, applicable orders, and SB 19-181 and is hereby approved.

ECMC Approved:  _____ Director of ECMC Date: 1/16/2025

Expiration Date: 10/23/2027

API NUMBER

05 123 52891 00

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.

<u>COA Type</u>	<u>Description</u>
Drilling/Completion Operations	Operator will ensure the wellbore beyond the unit boundary setback is physically isolated and is not completed. In the Operator Comments on the Form 5A the operator will (1) report the footages from the section lines of the bottom of the completed interval (2) describe how the wellbore beyond the unit boundary setback is physically isolated and (3) certify that none of the wellbore beyond the setback was completed.
Interim Reclamation	In the event delayed operations are to occur, Operator shall comply with Notice to Operators: Interim Reclamation Procedures for Delayed Operations (dated January 5, 2017)
Drilling/Completion Operations	1) Submit Form 42 electronically to ECMC 2 business days prior to MIRU (spud notice) for the first well activity with a rig on the pad and provide 2 business day spud notice via Form 42 for all subsequent wells drilled on the pad. 2) Comply with Rule 408.j. and provide cement coverage from TD to a minimum of 500' above Niobrara. Verify coverage with a cement bond log.
Drilling/Completion Operations	Per 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 is observed or if there is continuous flow, Operator must contact ECMC engineering for approval prior to stimulation. 2) If a delayed completion, a second test is required between 6-9 months after rig release and must be conducted prior to stimulation. If any pressure greater than 200 psi is observed or if there is continuous flow, Operator must contact ECMC engineering for approval prior to stimulation. 3) A post-production test within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.
4 COAs	

Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
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 to 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 clearly state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify (by API#, well name & number) the well in which openhole logs were run.

Total: 1 comment(s)

ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
403861844	FORM 2 SUBMITTED
403988528	DEVIATED DRILLING PLAN
403988532	WELL LOCATION PLAT

403988537	DIRECTIONAL DATA
403998512	OffsetWellEvaluations Data
404060082	OFFSET WELL EVALUATION

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	01/16/2025
Permit	-Received Consent from the operator for the following: 1.Adding the refile COA for built locations 2.Adding the drilling beyond the setback COA 3.Updating the order to the most current one (535-1505) 4.Updating the lease information 5.Added WOGLA number 6.Updating the distance to nearest well in the same formation -Passed Permit Review	01/08/2025
Permit	-Corrected the distance to the nearest unit boundary to 300' as per the well location plat -Checked the federal mineral checkbox since federal minerals are present in the DSU -Requesting the following from the operator: 1.Adding the refile COA for built locations 2.Adding the drilling beyond the setback COA 3.Updating the order to the most current one (535-1505) 4.Updating the lease information 5.Confirming the distance to nearest well in the same formation	01/06/2025
Engineer	Log: DWR - H17(123-12568),B12(123-10144),B13(123-05747),I18(123-05666) WHITE RIVER 155-316' LARAMIE-FOX HILLS 402-801' PIERRE SHALE 801-1202' UPPER PIERRE 1202-1871' Groundwater: White River, Laramie-Fox Hills, Upper Pierre Deepest water well: 1700'(2mi, 21 records) •Surface Casing Check complete •Offset well review complete 408.t - None 408.u - None •Engineering review complete	12/05/2024
OGLA	The Commission approved OGDG #487462 on October 23, 2024 for the Oil and Gas Location related to this Form 2. OGLA task passed.	11/21/2024

Total: 5 comment(s)