

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:

403833798

(SUBMITTED)

Date Received:

08/19/2024

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: Laramie Well Number: 0993-20-11E

Name of Operator: LARAMIE ENERGY LLC ECMC Operator Number: 10433

Address: 1700 LINCOLN ST STE 3950

City: DENVER State: CO Zip: 80203

Contact Name: Wayne P Bankert Phone: (970)812-5310 Fax: ( )

Email: wbankert@laramie-energy.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): 20210135

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: NENE Sec: 29 Twp: 9S Rng: 93W Meridian: 6

Footage at Surface: 219 Feet FNL 99 Feet FEL

Latitude: 39.254781 Longitude: -107.784158

GPS Data: GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP Date of Measurement: 04/24/2023

Ground Elevation: 7457

Field Name: BUZZARD CREEK Field Number: 9500

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: 20 Twp: 9S Rng: 93W Footage at TPZ: 2411 FSL 1939 FEL  
Measured Depth of TPZ: 7047 True Vertical Depth of TPZ: 6084 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 20 Twp: 9S Rng: 93W Footage at BPZ: 2411 FNL 1939 FEL

Measured Depth of BPZ: 8822 True Vertical Depth of BPZ: 7859 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 20 Twp: 9S Rng: 93W Footage at BHL: 2411 FSL 1939 FEL

FNL/FSL FEL/FWL

**LOCAL GOVERNMENT PERMITTING INFORMATION**

County: MESA 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.? No

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: 10/18/2023

Comments: Mesa County, the local government with jurisdiction over the siting of this oil and gas location, determined that per the Mesa County Land Development Code Table 6-1: Use Table and Section 6.02(Q), "Oil and Gas Drilling " is an allowed use in the Agricultural, Forestry, Transitional (AFT) zone district. The subject parcel is designated by Mesa County as AFT zone district. The Laramie 0993-29-01 meets all the Mesa County zoning setback requirements for the AFT zone district. Advance Notice was sent to Mesa County’s Community Development Department, notifying Mesa County of Laramie’s intentions to submit an Oil and Gas Development Plan (OGDP), titled 2023 Laramie 0993-29-01 OGDP, to the Colorado Energy & Carbon Management Commission (ECMC). The notification included details regarding proposed operations at the Laramie 0993-29-01. The notice letter was sent on September 11, 2023, to Mesa County pursuant to ECMC Rule 302.e. The letter was received by Mesa County on September 11, 2023, via email and received September 13, 2023, by certified mail. While Oil and Gas Drilling is an allowed use, Oil and Gas Locations must be permitted within Mesa County. Laramie submitted an Oil and Gas Location Application to Mesa County on September 18, 2023. Mesa County assigned “PRO2023-0262” as the project number for the application. The Land Development Application Public Notice sign for the application was posted at the intersection of the existing private lease road entrance and Highway 330 (public road) on September 28, 2023. Representatives from Mesa County’s Community Development Department attended the Pre-Application Onsite Meeting on June 12, 2023.

**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  Indian

Mineral 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.)

See Lease Map.

Total Acres in Described Lease: 200 Described Mineral Lease is:  Fee  State  Federal  Indian

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

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1431 Feet  
Building Unit: 5280 Feet  
Public Road: 5060 Feet  
Above Ground Utility: 1131 Feet  
Railroad: 5280 Feet  
Property Line: 219 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.)
WILLIAMS FORK-ILES	WFILS	1-229		

Federal or State Unit Name (if appl): \_\_\_\_\_

Unit Number: \_\_\_\_\_

Enter 5280 for distance greater than 1 mile.

## SUBSURFACE MINERAL SETBACKS

Is this Well within a unit? No

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: \_\_\_\_\_ 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: \_\_\_\_\_ Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: 180 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: 266 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

Committed to CA COC078483

## DRILLING PROGRAM

Proposed Total Measured Depth: 8822 Feet

TVD at Proposed Total Measured Depth 7859 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: \_\_\_\_\_ Feet  No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or 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? 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? No

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+0/0	16+0/0	SA-53B	37	0	90	180	90	0
SURF	11+0/0	8+5/8	J-55	24	0	1500	352	1500	0
1ST	7+7/8	4+1/2	HCP110	11.6	0	8822	1173	8822	1400

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
Groundwater	Freshwater/Groundwater	0	0	600	600	501-1000	DWR	Laramie Energy, WW Permit No. 306397
Confining Layer	Wasatch	600	600	3080	2708			
Hydrocarbon	Wasatch 'G' Sand	3080	2708	3680	3190	1001-10000	Other	Wells API# 05077086370000 Buzzard Creek Unit 5-14
Hydrocarbon	Fort Union	3680	3190	4527	3870			Potential Hazard: Instability
Hydrocarbon	Lower Wasatch	4527	3870	5502	4653			Fluid Present: Saltwater
Hydrocarbon	Ohio Creek	5502	4653	5986	5061	>10000	Produced Water Sample	Wells API# 05077087650000 Buzzard Creek 22-3 Potential Hazard: Loss circulation; Fluid Present: Saltwater
Hydrocarbon	Williams Fork	5986	5061	7047	6084	>10000	Produced Water Sample	Sup & Shep 0993-25-16W. API# 05077105790000 McDaniel 2-1 API#05077093410000 Water TDS: 40,000 mg/L
Hydrocarbon	Top of Gas	7047	6084	8246	7283	>10000	Produced Water Sample	Sup & Shep 0993-25-16W. API# 05077105790000 McDaniel 2-1 API#05077093410000 Water TDS: 40,000 mg/L
Hydrocarbon	Cameo	8246	7283	8572	7609	>10000	Produced Water Sample	Sup & Shep 0993-25-16W. API# 05077105790000 McDaniel 2-1 API#05077093410000 Water TDS: 40,000 mg/L
Hydrocarbon	Rollins	8572	7609	8822	7859	>10000	Produced Water Sample	Sup & Shep 0993-25-16W. API# 05077105790000 McDaniel 2-1 API#05077093410000 Water TDS: 40,000 mg/L

## OPERATOR COMMENTS AND SUBMITTAL

Comments Well Laramie 0993-20-11E is not located in a mapped HPH. BHL Coordinates Latitude 39.262056°; Longitude -107.790648° BHL: NWSE Sec 20, Township 9 South, Range 93 West, 6 P.M. Conductor is grouted in place. The 2023 Laramie 0993-29-01 ODGP was approved on August 7, 2024 (Order No. 583-3)

This application is in a Comprehensive Area Plan No CAP #: \_\_\_\_\_  
 Oil and Gas Development Plan Name 2023 Laramie 0993-29-01 ODGP OGDP ID#: 486874  
 Location ID: 487592

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

Signed: \_\_\_\_\_

Print Name: Wayne P Bankert

Title: Reg & Env. Manager

Date: 8/19/2024

Email: wbankert@laramie-energy.com

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: \_\_\_\_\_

<b>API NUMBER</b>
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.

<u>COA Type</u>	<u>Description</u>
0 COA	

### Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	Alternative Logging Program: One of the wells drilled on the pad will be logged with open-hole Resistivity Log and Gamma Ray Log from TD 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 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 open-hole logs will state "Alternative Logging Program - No open-hole logs were run" and will clearly identify the type of log and the well (by API#) in which open-hole logs were run.

Total: 1 comment(s)

### ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
403857651	MINERAL LEASE MAP
403858944	DIRECTIONAL DATA
403858947	DEVIATED DRILLING PLAN
403858948	DEVIATED DRILLING PLAN
403858949	WELL LOCATION PLAT
403858951	SURFACE AGRMT/SURETY
403870084	OffsetWellEvaluations Data

Total Attach: 7 Files

## General Comments

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

Total: 0 comment(s)

