

Base of Productive Zone (BPZ)										
Sec:	<u>21</u>	Twp:	<u>9S</u>	Rng:	<u>93W</u>	Footage at BPZ:	<u>1719</u>	FSL	<u>1921</u>	FWL
Measured Depth of BPZ: <u>9415</u>						True Vertical Depth of BPZ: <u>8707</u>		FNL/FSL	FEL/FWL	
Bottom Hole Location (BHL)										
Sec:	<u>21</u>	Twp:	<u>9S</u>	Rng:	<u>93W</u>	Footage at BHL:	<u>1719</u>	FSL	<u>1921</u>	FWL
								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: 400

Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # COC64787

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1434 Feet
Building Unit: 5280 Feet
Public Road: 5090 Feet
Above Ground Utility: 1156 Feet
Railroad: 5280 Feet
Property Line: 246 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: 706 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: 321 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

Lease Committed to CA COC74227

DRILLING PROGRAM

Proposed Total Measured Depth: 9415 Feet

TVD at Proposed Total Measured Depth 8707 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 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? 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	16	SA-53B	36.94	0	90	180	90	0
SURF	11	8+5/8	J-55	24	0	1500	352	1500	0
1ST	7+7/8	4+1/2	HCP110	11.6	0	9415	1292	9415	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	3024	2739			
Hydrocarbon	Wasatch 'G' Sand	3024	2739	3586	3221	1001-10000	Produced Water Sample	Wells API# 05077086370000 Buzzard Creek Unit 5-14 Fluid Present: Saltwater
Hydrocarbon	Fort Union	3586	3221	4378	3901			Potential Hazard: Instability
Hydrocarbon	Lower Wasatch	4378	3901	5291	4684			Fluid Present: Saltwater
Hydrocarbon	Ohio Creek	5291	4684	5763	5092	>10000	Produced Water Sample	Wells API# 05077087650000 Buzzard Creek 22-3 Potential Hazard: Loss circulation; Fluid Present: Saltwater
Hydrocarbon	Williams Fork	5763	5092	6823	6115	>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	6823	6115	8022	7314	>10000	Produced Water Sample	Sup & Shep 0993-25-16W. API# 05077105790000 McDaniel 2-1 API#05077093410000 Water TDS: 40,000 mg/L
Hydrocarbon	Cameo	8022	7314	8348	7640	>10000	Produced Water Sample	Sup & Shep 0993-25-16W. API# 05077105790000 McDaniel 2-1 API#05077093410000 Water TDS: 40,000 mg/L
Hydrocarbon	Rollins	8348	7640	8892	8184	>10000	Produced Water Sample	Sup & Shep 0993-25-16W. API# 05077105790000 McDaniel 2-1 API#05077093410000 Water TDS: 40,000 mg/L
Hydrocarbon	Cozzette	8892	8184	9065	8357	>10000	Produced Water Sample	Sup & Shep 0993-25-16W. API# 05077105790000 McDaniel 2-1 API#05077093410000 Water TDS: 40,000 mg/L
Hydrocarbon	Corcoran	9065	8357	9415	8707	>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 0993-20-13W is not located in a mapped HPH. BHL Coordinates: Latitude 39.260041°; Longitude -107.777017° BHL: NESW Sec 21, 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)

403859037	DEVIATED DRILLING PLAN
403859039	DIRECTIONAL DATA
403870101	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)

