

# Currier BCU 0993-16-07 Well Pad

## Colorado Parks and Wildlife

### Consultation Summary

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#### 1. INTRODUCTION

Laramie Energy, LLC (Laramie) (Operator # 10433) is pursuing a Form 2A for an Oil and Gas Location Assessment permit in Mesa County, Colorado. The Currier BCU 0993-16-07 well pad The Currier BCU 0993-16-07 well pad (Currier 16-07) is a proposed, new location. Laramie is proposing to drill twenty-three (23) new directional wells at the Currier 16-07 in Section 16 of Township 9 South, Range 93 West, 6<sup>th</sup> P.M. The Currier 16-07 will develop fee and federal minerals. The Currier 16-07 will be adjacent to existing infrastructure, which will reduce the amount of surface disturbance proposed in the 2023 Currier BCU 0993-16-07 Oil and Gas Development Plan (OGDP).

#### 2. PRELIMINARY ASSESSMENT

During preliminary planning of the mineral development, Laramie assessed Colorado Energy & Carbon Management Commission (CECMC) High Priority Habitat (HPH) map layers. The Currier 16-07 is located outside HPH and will not result in any surface disturbance in HPH.

WestWater Engineering, LLC (WestWater) prepared surface hydrology and HPH maps for the Currier 16-07. The Currier 16-07 is located outside of CECMC mapped High Priority Habitats. At the nearest point, the Currier 16-07 WPS is 1,192 feet upgradient of the “Aquatic Sportfish Management Water” HPH buffer. There are no other mapped HPH within one mile of the proposed Currier 16-07. WestWater prepared an HPH Assessment, attached to the Wildlife Protection Plan, which included biological field surveys.

The hydrology maps identified the Currier 16-07 as being located upgradient of an unnamed ephemeral drainage, unnamed intermittent stream, and Buzzard Creek (perennial stream). Two unnamed drainages are located within 500 feet of the Currier 16-07 WPS. As part of the Operating Requirements of the CECMC 1200 Series, CECMC Rule 1202.a.(3) states, “*At new and existing Oil and Gas Locations, Operators will not situate new staging, refueling, or Chemical storage areas within 500 feet of the Ordinary High Water Mark (“OHWM”) of any river, perennial or intermittent stream, lake, pond, or wetland.*”

At the nearest point, an unnamed intermittent stream is located 476 feet from the proposed WPS, and the unnamed ephemeral drainage is 487 feet from the proposed WPS.

Varying topography and established vegetation created natural barriers between the Currier 16-07 and the two unnamed drainages. The existing private lease access road is located between the proposed well pad and the two unnamed drainages. Established vegetation shrublands, grasses, and forbs exists between the proposed well pad and the two unnamed drainages as well.

#### 3. CONSULTATION

CPW attended the virtual CECMC OGDP Pre-Application Meeting on May 25, 2023. Laramie presented a PowerPoint presentation to attendees. The presentation included information

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regarding general location details, photos, proposed number of wells, and proposed operations. During the virtual OGD Pre-Application, Laramie stated the Currier 16-07 well pad was not with any mapped HPH.

<b>Consultation Summary Dates</b>	
<b>Date</b>	<b>Summary</b>
May 25, 2023	Virtual OGD Pre-Application Meeting with CECMC and CPW
June 6, 2023	Laramie contacted CPW prior to the onsite, to inform CPW there are drainages within 500 feet based on preliminary hydrology maps received from WestWater.
June 12, 2023	Pre-Application Onsite
June 13, 2023	Laramie emails onsite attendees draft onsite summary notes
June 20, 2023	Laramie emails onsite attendees finalized onsite summary notes ( <b>Attachment 1</b> )
July 17, 2023	Laramie emails CPW waiver request for Rule 1202.a.(3)
July 19, 2023	CPW approves the Rule 1202.a.(3) waiver request

Laramie invited CPW to a pre-application onsite. The pre-application onsite was held on June 12, 2023, at the proposed Location. Attendees included CPW (CPW Northwest Energy Liaison and the CPW Northwest Land Use Specialist), BLM representatives, WestWater, Mesa County, Laramie representatives, Moody Construction & Sons, Inc. (construction contractor), and D.R. Griffin & Associates, Inc (engineering and surveyor consultant). During the pre-application onsite consultation, CPW was able to observe the proposed location, topography, and vegetation. CPW, BLM, and Laramie communicated on site design and the surrounding area. CPW and Laramie viewed the two drainages located within 500 feet of the proposed WPS. CPW was able to see the existing private lease road, varying topography, and vegetation. Existing vegetation surrounding the well pad will act as a barrier to further reduce sediment discharge or fluids from reaching the unnamed streams from the well pad. Borrow ditches are installed on the well pad side of the lease roads. Prior to construction of the well pad, Laramie will re-establish the borrow ditch along the private lease access road to prevent spills from migrating to the subject drainages.

Laramie and CPW discussed best management practices including re-establishing the borrow ditch, PE designed stormwater control features, emergency spill response trailer staging, and emergency spill kits.

Laramie stated that during drilling, completions, and flowback operations, a fully equipped emergency spill response trailer will be staged at Laramie’s Buzzard Creek Laydown yard (permitted through Mesa County; owned and maintained by Laramie) and prepared for immediate response in the event of the release or spill during pre-production activities. A second emergency spill response trailer will be available for immediate mobilization if needed at Laramie’s Harrison Creek Water Treatment Facility (Location ID # 413056) approximately 3.3 miles from the Currier 16-07 location. Laramie also stated an emergency

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spill kit (95-gallon drum spill kit) will be placed on the pad for any spills that might occur for the life of the producing wells.

On June 20<sup>th</sup>, 2023, Laramie provided CPW with the finalized pre-application onsite notes (**Attachment 1**).

On July 17, 2023, Laramie emailed CPW a formal waiver request for CECMC Rule 1202.a.(3). The waiver request letter included proposed mitigation efforts to reduce potential impacts to the drainages within 500 feet. The waiver request also included attachments prepared by a WestWater: hydrology and wildlife maps, Sensitive Area Determination, and HPH Assessment. On July 19, 2023, CPW approved the waiver request for Rule 1202.a.(3) under the authority provided by Rule 1202.a. Details and communication regarding the waiver request are provided in the CPW Waiver Attachment, which is attached to the Form 2A.

#### **4. CONCLUSION**

CPW granted a waiver for CECMC Rule 1202.a(3) on July 19, 2023. The written waiver grants Laramie to locate chemicals storage tanks within 500 feet of the unnamed drainages based on proposed best management practices, surrounding topography, and site-specific conditions.



# ATTACHMENT 1

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## Pre-Application Onsite Summary June 12, 2023

**Pre-Application Meeting Onsite Notes – June 12, 2023**  
**Currier BCU 0993-16-07**  
**Laramie Energy, LLC**

**PRE-APPLICATION ONSITE MEETING – JUNE 12, 2023**  
**CURRIER BCU 0993-16-07 WELL PAD**  
**Draft Notes Prepared June 13, 2023**  
**Notes Finalized June 20, 2023**

**ATTENDEES**

BLM: Wesley Toews, Emily McCall, and Alex Provstgaard  
 CPW: Taylor Elm and Molly West  
 Mesa County: Jeff Hofman & Faye Hall  
 Laramie Energy, LLC: Wayne Bankert, Lori Muhr, Rory Mortensen, Katy Middleton  
 D.R. Griffin (DRG): Tad Sherrill  
 WestWater Engineering: Amie Wilsey  
 Moody Construction: Shawn Moody

All attendees received an onsite packet which included: preliminary Layout Drawings (dated 06/09/23), aerial imagery figure with proposed well pad and access road, two hydrology maps, High Priority Habitat (wildlife) map, Leasehold Mineral Development Map, Vicinity Map, and proposed pipeline figure.

**SITE LOCATION DETAILS**

Location: Currier BCU 0993-16-07  
 Location ID: New Location  
 Legal Description: SWNE of Section 16, Township 9 South, Range 93 West, 6<sup>th</sup> P.M.  
 Location Coordinates: Latitude: 39.277849°; Longitude: -107.773627°  
 Elevation: 7456 feet  
 County: Mesa  
 General Location: 9.5 mapped miles east of Collbran, Colorado.  
 Zone District: Agricultural, Forestry, Transitional District (AFT)  
 Wells: 23 Wells (20 Fee & 3 Federal) (21 Wells within the Buzzard Creek Unit)

<b>Anticipated Timeframe for Operational Phases</b>	
<b>Phase/Activity /Stage</b>	<b>Timeframe (Days)</b>
Construction	30
Drilling Mobilization	4
Drilling	104
Drilling Demobilization	4
Production Installation	21
Completions Mobilization	10
Completions and Flowback	81
Completions Demobilization	10
Interim Reclamation	14
<b>Total Pre-Production</b>	<b>278</b>

<b>Preliminary Disturbance Acreage</b>	<b>Disturbance in Acres</b>
Area of Disturbance	9.0
Working Pad Surface	4.1
Area to be Interim Reclaimed	6.9
Production Pad Surface (after Interim Reclamation)	2.0
Proposed Access Road Acreage (890 feet)	1.0
Pipeline Approx. 1300 ft (Majority of Disturbance within Existing Pipeline ROW)	TBD

**ALTERNATIVE SITE CONSIDERATIONS**

The Currier BCU 0993-16-07 does not trigger any Alternative Location Criteria. During the initial planning process, Laramie assessed five possible locations, including two existing well pads. The existing well pads are currently too small to accommodate any pre-production

## Pre-Application Meeting Onsite Notes – June 12, 2023

### Currier BCU 0993-16-07

### Laramie Energy, LLC

activities and would require significant cut and fill to expand the existing well pads. During the summer of 2022, some field and survey work had been completed for the Currier 16-10. However, after assessing the alternative locations, Laramie determined the proposed Currier BCU 0993-16-07 Location was more protective of wildlife and public health than the alternatives.

### SURFACE USE AGREEMENT (SUA)

The original parcel, owned by Currier Family Partnership LLLP, was approximately 1,235 acres. The eastern portion of the parcel was sold to Carlyle W. Currier & Dawn M. Currier in the Spring of 2023. Currier Family Partnership LLLP still owns the land to the west of the new parcel. The Currier BCU 0993-16-07 well pad, site-specific access road, and buried pipeline will be located on the new parcel owned by Carlyle W. Currier & Dawn M. Currier. The new parcel number and parcel details are not yet available from the Mesa County Assessor. Laramie is currently working with the new surface owners to establish an SUA. The Surface Owners are in support of the development and Laramie has worked with the Surface Owner previously.

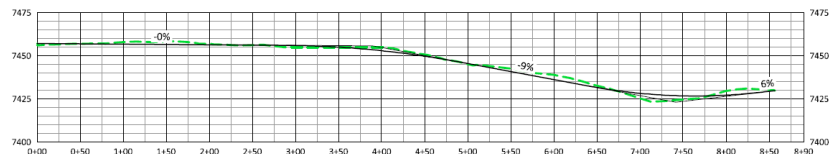
### PERMITS REQUIRED

- Mesa County: Oil and Gas Location Application
- COGCC: (Oil and Gas Development Plan – OGDP)
  - Form 2A – Location Assessment
  - Form 2B Cumulative Impacts
  - Form 2C – OGDP Certification
  - July 1, 2023, COGCC to be renamed Colorado Energy & Carbon Management Commission “ECMC”
- BLM: 3 Federal APDs
  - Federal Lease COC 0009392

### ACCESS ROAD

An existing private lease road will be utilized to access the project area. A site-specific access road will be constructed to access the proposed well pad. Attendees walked the route of the proposed access road, which was staked for the onsite. Moody Construction and Laramie discussed slightly adjusting the proposed access road to reduce the grade of the road. Moody stated 15% grade and less is ideal.

After the onsite, DRG prepared a preliminary profile of the proposed access road (see below). The maximum grade will be approximately 9% for about 300 feet travel distance.



Preliminary Site-Specific Access Road Profile

## **Pre-Application Meeting Onsite Notes – June 12, 2023**

**Currier BCU 0993-16-07**

**Laramie Energy, LLC**

### **WELL PAD**

Attendees walked the areas of the well pad, which was surveyed and staked for the onsite by DRG. Observing the perimeter of the Working Pad Surface and discussing cut and fills to construct the well pad. New COGCC requirements of including topsoil calculations to include the Area of Disturbance was discussed. The group also discussed the management and burial of water-based drill cuttings onsite. The cuttings area will not be a trench, and cuttings are expected to be mixed the excess spoils stored on the SW side of the location. Laramie stated in this area, typically 240 cubic yards of cuttings per well is generated and the volume anticipated for the Currier 16-07 is approximately 5,520 cubic yards of cuttings. BLM and Laramie discussed sliding the separators down 40 feet or so to minimize install on fill.

### **PIPELINES**

Buried Pipeline: approximately 1300 feet of 8-inch welded steel gas gathering line and approximately 1300 feet of 4-inch Flexpipe water gathering line will be required to tie into Laramie's existing 16-inch gas gathering line and 4-inch Flexpipe waterline adjacent to the proposed pad. The proposed sales line shown on the interim reclamation plat will be shifted north to avoid the excess spoils storage area. The gas will be transferred to Laramie's Mega Vega Compressor Station (MVS) in the SE $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 22, Township 09 South, Range 93 West, and the water will be pumped to Laramie's HCWTF (Location ID # 413056) in the NE $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 22, Township 09 South, Range 93 West.

Temporary Surface Water Lines: Up to two parallel 8-inch to 12-inch HDPE produced water pipes will be used to deliver water to completions operations at the well pad. These lines will be laid on the surface over previously disturbed pipeline ROWs to the extent possible and be approximately 5900 feet in length each. These lines will be removed following completions and flow back operations. Laramie stated the temporary surface water lines will remove approximately 500 truck trips per well during completions and 200 truck trips for flowback water transports per well. temporary surface water lines will reduce approximately 16,100 truck trips during completions and flowback at the Currier 16-07.

### **HIGH PRIORITY HABITAT**

The proposed Currier BCU 0993-16-07 is not located within HPH nor will the project result in any surface disturbance within HPH. The nearest HPH is the Aquatic Sportfish Management Waters which is located 1,192 feet from the WPS. The nearest Aquatic Sportfish Management Waters is located on the onsite side of a ridge to the east of the well pad.

WestWater biologists conducted the habitat assessment on May 5, 2023, as part of the biological surveys completed for the project development. Field observations determined that Slide Gulch and Carter Gulch are not suitable habitats for fish. The nearest suitable habitat for fish is located in Buzzard Creek, a perennial creek, located approximately 2,368 feet from the Working Pad Surface. Highway 330 is located between the proposed well pad location and Buzzard Creek. Dense riparian vegetation composed primarily of narrowleaf cottonwoods, wood's rose, skunkbush sumac, and willows are present along the banks of Buzzard Creek creating a natural buffer surrounding the stream.

## **Pre-Application Meeting Onsite Notes – June 12, 2023**

**Currier BCU 0993-16-07**

**Laramie Energy, LLC**

### **WAIVER REQUEST**

An ephemeral stream and intermittent stream are located within 500 feet downgradient of the Working Pad Surface. An existing private lease road exists between the well pad and the ephemeral stream and intermittent stream. Dense vegetation comprised of mountain sagebrush shrublands and Gambel's oak shrublands with an understory of perennial forbs and grasses also exist between the proposed well pad and subject streams within 500 feet.

**COGCC Rule 1202.a.(3)** *At new and existing Oil and Gas Locations, Operators will not situate new staging, refueling, or Chemical storage areas within 500 feet of the Ordinary High Water Mark ("OHWM") of any river, perennial or intermittent stream, lake, pond, or wetland.*

CPW, WestWater Engineering, and Laramie observed the ephemeral stream and intermittent stream are located within 500 feet downgradient of the Working Pad Surface. Existing vegetation surrounding the well pad will act as a barrier to further reduce sediment discharge or fluids from reaching the unnamed streams from the well pad. Borrow ditches are installed on the well pad side of the lease roads. Prior to construction of the well pad, Laramie will re-establish the borrow ditch along the private lease access road to prevent spills from migrating to the subject drainages.

In accordance with COGCC Rule 427.c.(2), Laramie will only utilize fresh water to conduct dust suppression activities within 300 feet of the ordinary high-water mark of any water body.

During drilling, completions, and flowback operations, a fully equipped emergency spill response trailer will be staged at Laramie's Buzzard Creek Laydown yard (permitted through Mesa County; owned and maintained by Laramie) and prepared for immediate response in the event of the release or spill during pre-production activities. A second emergency spill response trailer will be available for immediate mobilization if needed at Laramie's Harrison Creek Water Treatment Facility (Location ID # 413056) approximately 3.3 miles from the Currier 16-07 location.

An emergency spill kit (95-gallon drum spill kit) will be placed on the pad for any spills that might occur for the life of the producing wells.

### **CULTURAL DISTANCES (Approximate distances to be Finalized Prior to submittal)**

- The nearest water well is approximately 2,800 feet from the proposed pad.
- The nearest public road, Highway 330, is approximately 2,600 feet (mapped distance) from the proposed pad.
- The nearest RBU is approximately 2,600 feet from the proposed pad.

No noise, light, or visual impacts are anticipated due to distances and surrounding topography.

### **FIELD SURVEYS**

Biological, wetlands, surface water, and archaeology field surveys were conducted in May 2023. BLM stated to include the temporary surface lines in the biological field survey area.

## **Pre-Application Meeting Onsite Notes – June 12, 2023**

**Currier BCU 0993-16-07**

**Laramie Energy, LLC**

### **ENVIRONMENTAL ASSESSMENT**

Based on conversations with the BLM, Laramie will establish an MOU with the BLM to have a third-party contractor conduct the EA.

### **EMISSIONS**

- Emissions Modeling Inventory Tool (EMIT): Laramie will prepare data and submit the EMIT Form for the Federal APDs.
- Air Monitoring:
  - Monitoring required from 10 days prior to drilling through 6 months of early production.
  - Proposing use solar-powered OP Cube VOC sensors provided by third party contractors who maintain, QC and review data and action alerts.
  - One meteorological station to record wind direction, wind speed, temperature and humidity.
  - Real time monitoring data/stats, alerts and activity descriptions are summarized and submitted each month to CDPHE throughout project.

### **ACTIONS ITEMS**

#### **Laramie:**

- Revise Layout Access Road
  - Adjust route to lessen grade, if possible
  - Road Plan and Profile for Federal ADP
  - Layout Drawing of Access Road for OGDG
  - Finalize length and acreage disturbance.
- Layout Drawings
  - Slide separators down 40 feet or so to minimize install on fill.
  - Add a 10' wide buffer between top of cut slope and Topsoil piles to allow for access to construct SW BMPs
  - Distinguish between spoils pile and topsoil pile.
  - Relocate the TS on the left side of the material pile.
- Hydrology Map (WestWater)
  - Revise Hydrology Maps to reflect field verified surface water features and remove any incorrect mapped (non-existent) water features
- Pipeline
  - Finalize buried pipeline route.
  - Finalize length and acreage disturbance.
- Biological Survey Report and Cultural Surveys to be revised to include temporary surface water lines.
- Laramie will establish an MOU with the BLM to have a third-party contractor conduct the EA.

**Pre-Application Onsite Meeting - June 12, 2023**  
**Laramie Energy, LLC - Proposed Laramie 0993-29-01 Well**

NAME	AGENCY / COMPANY
Shawn Moody	Moody Construction & Sons inc.
Rory Mortensen	Laramie
Jeff Hoffman	Mesa County
Faye Hall	Mesa County
Ted Sherrill	DRG survey
Taylor Elm	CPW
Molly West	CPW
Amie Wilsey	WestWater Cong.
alex Provstgaard	BLM
Euidy McCall	BLM
Wesley Toews	BLM
Wayne P. Bankert	Laramie
Katy Middleton	Laramie
Joe Thuber	Laramie