

Laramie 0993-29-01

Local Government Consultation Mesa County



**Laramie Energy, LLC
760 Horizon Drive, Suite 101
Grand Junction, CO 81506**

Laramie 0993-29-01
Local Government Consultation – Mesa County
ECMC Rule 304.b.(1) and Rule 302



LOCAL GOVERNMENT SITING INFORMATION - ECMC RULE 304.b.(1)

LOCAL GOVERNMENT – CONTACT INFORMATION

MESA COUNTY COMMUNITY DEVELOPMENT DEPARTMENT – PLANNING DIVISION		
(970) 244-1636 www.mesacounty.us/planning	200 S. Spruce Street Grand Junction, CO 81502	Department 5022 P.O. Box 20,000 Grand Junction, CO 81502
Jeff Hofman – Oil and Gas Contact Planner Jeff.hofman@mesacounty.us		

ADVANCE NOTIFICATION – ECMC RULE 302.e., 303.e.(2), and 303.e.(3)

Mesa County is the relevant local government with jurisdiction over the siting of this proposed oil and gas location, the Laramie 0993-29-01, well pad. 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. The Advance Notice Letter is provided in **Attachment 1**.

CONSULTATION SUMMARY

Laramie contacted Mesa County in December of 2021 to discuss the permitting requirements of Oil and Gas locations in Mesa County. Laramie regulatory staff discussed the proposed operations for well pads in the Plateau Valley area of Mesa County and inquiries about possible county permitting requirements. Mesa County Planning Staff discussed conditions for Oil and Gas Locations, including hauling permits overweight/oversize transportation vehicles and notification to the local fire department.

On May 15th, 2023, Laramie invited Mesa County to a Pre-Application Onsite scheduled for June 12, 2023, and provided information regarding the proposed well pad. On June 6, 2023, Laramie emailed a packet of maps and layout drawings prior to the onsite.

A Pre-Application Onsite was conducted on June 12, 2023. Attendees included two Mesa County representative, BLM, CPW, WestWater, Laramie representatives, Moody Construction (construction contractor), and D.R. Griffin & Associates, Inc (engineering and surveyor consultant). 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.

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After the first onsite, Laramie emailed draft summary notes on June 19, 2023, to those who attended to allow regulatory agencies to provide input regarding the onsite. The finalized first Pre-Application Onsite Meeting Notes were emailed on June 29, 2023. (**Attachment 2**). Mesa County representatives were invited to the second onsite held on July 24, 2023, but did not attend.

Below is a timetable of communication with Mesa County Community Development Department and Laramie.

DATE	COMMUNICATION
December 2021	Initial contact with Mesa County Community Development Department on general requirements for permitting a well pad within Mesa County, Colorado
May 15, 2023	Laramie emails an invite for a Pre-Application Onsite to be held on June 12, 2023.
June 12, 2023	Mesa County attends Pre-Application Onsite at the Laramie 0993-29-01 location.
June 19, 2023	Laramie emails draft onsite summary notes, requesting regulatory agencies to provide any comments.
June 29, 2023	Laramie emails finalized onsite summary notes (Attachment 2).
September 11, 2023	Advance Notice sent (via certified mail and email) to Mesa County's Community Development Department, notifying Mesa County of Laramie's intentions to submit an OGDG.
September 11, 2023	Mesa County receives Advance Notice via email.
September 13, 2023	Mesa County receives Advance Notice via certified mail.
September 18, 2023	Laramie submits the Laramie 0993-29-01 Mesa County Oil & Gas Location Application. Laramie emails Mesa County Planning Staff to notify that an Oil & Gas Location Application has been submitted.
September 28, 2023	The Land Development Application Public Notice sign for the application (PRO2023-0262) was posted at the entrance of the existing lease road adjacent to Highway 330 (public road), on September 28, 2023. Public notice must be posted for 15 days. (Photos 1 & 2)
October 18, 2023	Mesa County Community Development Department issues a permit (Oil and Gas Site Location Document) for PRO2023-0262 with special conditions. Mesa County states no public comments were received.

LOCAL GOVERNMENT PERMITTING – ECMC RULE 302

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

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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.

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. The public notice signed was posted for more than 15 days. The Mesa County application is attached to the Form 2A as “Local Final Permit Decision”.



**Photos 1 & 2: Mesa County Public Notice Posting for PRO2023-0262
Intersection of HWY 330E & Private Lease Road**

The Mesa County Community Development Planning Division issued the Oil and Gas Site Location Approval Document on October 18, 2023, with conditions for operations. Mesa County states no public comments were received. The Mesa County Permit is attached to the Form 2A as “Local Final Permit Decision”.

The Plateau Valley Fire Protection District did provide agency comment on September 26, 2023, stating “This proposal has already been reviewed between Laramie staff and PVFD for any access issues, at this time we see no issues and approve.”

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Laramie agrees to the conditions set forth by Mesa County. Special conditions are listed below:

MESA COUNTY – OIL & GAS SITE LOCATION APPROVAL DOCUMENT SPECIAL CONDITIONS
The operator shall be responsible for obtaining any necessary Extra-Legal and Extra-Ordinary transportation permits for Mesa County roads. These permits shall include those needed for contractors and subcontractors working for the operator. These permits can be obtained from the Mesa County Department of Public Works, Division of Transportation (970.244.1765).
The operator shall notify the Plateau Valley Fire District (970.268.5283) of the site location and provide a schedule of when the site development, drilling and completion will likely occur to facilitate any necessary emergency service response.
Repair of damage to Mesa County Roads, incurred as a direct result of site preparation, drilling and completion operations, will be the responsibility of the applicant. This includes but is not limited to the removal of debris deposited onto the roadway by vehicles entering the roadway from drilling locations. O&G Site
Permanent structures/facilities shall be painted or otherwise treated to blend with the surrounding area.



ATTACHMENT 1

Advance Notice Letter

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MESA COUNTY COMMUNITY DEVELOPMENT
 ATTN: JEFF HOFMAN
 DEPARTMENT 5022
 P.O. BOX 20,000
 GRAND JUNCTION, CO 81502-5001



9590 9402 6299 0274 9438 14

2. Article Number (Transfer from service label)

589 0710 5270 0222 2399 57

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Agent

Addressee

B. Received by (Printed Name)

Jeff Hofman

C. Date of Delivery

9-13-23

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

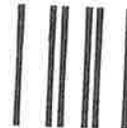
- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

USPS TRACKING #



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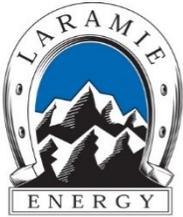
First-Class Mail
 Postage & Fees Paid
 USPS
 Permit No. G-10

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

LARAMIE ENERGY, LL
 ATTN: NANCY THORNTON
 1700 LINCOLN STREET, SUITE 3950
 DENVER, COLORADO 80203





Laramie Energy LLC
1700 Lincoln Street, Suite 3950
Denver, Colorado 80203

TEL: (303) 339-4400

SENT VIA CERTIFIED MAIL -RETURN RECEIPT REQUESTED AND E-MAIL

September 11, 2023

Relevant Local Government – Mesa County Contact Information

Mesa County Community Development Department
Jeff Hofman – Oil and Gas Contact Planner
Jeff.hofman@mesacounty.us
Department 5022
P.O. Box 20,000
Grand Junction, CO 81502-5001

CERTIFIED MAIL NO. 9589 0710 5270 0222 2399 57

Re: Advance Notice of Laramie Energy 2023 Laramie 0993-29-01 Oil and Gas Development Plan

Ladies and Gentlemen:

Laramie Energy, LLC (Laramie) (Operator # 10433) plans to submit an Oil and Gas Development Plan for approval by the Colorado Energy & Carbon Management Commission (ECMC) (formerly the Colorado Oil & Gas Conservation Commission) in no less than thirty (30) days. The *Laramie Energy 2023 Laramie 0993-29-01 Oil and Gas Development Plan* (OGDP), proposes the development and construction of one (1) well pad located within Mesa County, Colorado for the development of sixteen (16) new directional wells.

The contact person and address information for Laramie Energy, LLC is:

Wayne P. Bankert, Regulatory and Environmental Manager
Laramie Energy, LLC
760 Horizon Drive, Suite 101
Grand Junction, Colorado 81506
Office: 970-812-5310
Mobile: 970-985-5383
E-mail: wbankert@laramie-energy.com

Laramie Energy, LLC
1700 Lincoln Street, Suite 3950
Denver, Colorado 80203
Phone: 303-339-4400

The following information sheets prepared by the ECMC are enclosed for your information and use:

- Procedural Steps for the Review of OGDs (as required by ECMC Rule 303.e(2).C);
- Public Comments (as required by ECMC Rule 303.e(2).D);
- Hydraulic Fracturing Treatment (as required by ECMC Rule 303.e(2).E); and
- OGD Status Information (as required by ECMC Rule 303.e(2).G).

The ECMC's website address is: <https://ecmc.state.co.us/#/home>. If you have questions you can e-mail to: dnr_ecmc@state.co.us. The main phone number is: 303-894-2100.

OGDP Location

The OGDP involves the development of one (1) well pad for the development of sixteen (16) new directional wells. The OGDP Vicinity Map (**Appendix A**) is provided with this notification. The Laramie 0993-29-01 well pad is located in the Agricultural, Forestry, Transitional (AFT) zone district. Existing private lease access roadway and pipelines within the North Vega operations area will be utilized for accessing and operating the proposed location.

Table 1: Parcel Details

Surface Ownership	Disturbance Feature	Parcel Number
Laramie Energy, LLC	Area of Disturbance, Working Pad Surface, Access Road, Buried Pipeline	2661-291-00-321
		2661-282-00-319
Jerry Gunderson	Area of Disturbance (no long-term disturbance or installed equipment)	2661-201-00-040

Laramie 0993-29-01 Well Pad

Laramie is requesting to permit a new Oil and Gas Location at a site previously undisturbed by Oil and Gas Operations. Laramie is proposing to construct a well pad and drill 16 new directional wells. The proposed site will be located on private property approximately 8.5 mapped miles east of Collbran, CO.

Legal Description: NENE of Section 29 Township 9 South, Range 93 West, 6th P.M

Location Coordinates: Latitude: 39.254781°; Longitude: -107.784158°

Elevation: 7463 feet

County: Mesa

Zone District: Agricultural, Forestry, Transitional District (AFT)

OGDP Summary

Developments proposed in the OGDP will be within Laramie’s North Vega operations area. Laramie will drill a total of 16 new directional wells over approximately 72 days. Continuous completions and flowback will occur for approximately 40 days. There will be no simultaneous operations.

Subject to the timing of ECOM and BLM approval, the presently proposed construction schedule is as follows. Beginning in August 2024, Laramie will start initial construction on the Laramie 0993-29-01. Construction operations will include constructing, grading, and gravelling the well pad, new access road, and pipeline ROW. After the initial construction, the drilling rig is proposed for mobilization in and "rig up" during the 4th quarter, 2024. Once rigged up, the drilling rig is scheduled to drill all wells and rig down and move off the location during the 4th quarter, 2024. After drilling, production equipment will be installed on the Laramie 0993-29-01 well pad in preparation for mobilization of the completion equipment proposed for the end 1st quarter of 2025. All wells are proposed to be completed during the 1st quarter of 2025, after which all completion equipment will be moved off location. The site will be placed in production, and the surface "footprint" will be reclaimed to the working area of the pad by reshaping the site with excavators and dozers. Once re-shaped, the site will be seeded with the seed recommended by the BLM.

The anticipated date that each phase of operations will commence is as follows:

- (a) construction – August/2024;
- (b) drilling – October/2025;
- (c) completions – January/2025; p
- (d) flowback – January /2025;
- (e) production – March/2025;
- (f) interim reclamation – within six months after the last well on the Laramie 0993-29-01 is completed and the site is turned over to production operations or as weather and other conditions permit; and
- (g) final reclamation – at such time that will allow completion within 12 months after plugging the last well and/or final closure of associated production facilities on the Laramie 0993-29-01.

It is presently anticipated that production on the Laramie 0993-29-01 will continue for thirty years.

There are no Residential Building Units, High Occupancy Building Units, childcare centers, or schools within 2,000 feet of the Working Pad Surface that would be impacted by light, odor, or dust generated during pre-production and production activities associated with this OGD. The project will occur on privately owned lands and there are no State Parks, State Trust Lands, or State Wildlife Areas within 1-mile of the OGD. There will be no impact to or loss of recreational and scenic values to the public as a result of this OGD. As part of the OGD application review and approval process, Laramie will submit several mitigation plans to the ECMC.

Alternative Location Analysis

The well pad location does require an Alternative Location Analysis (ALA) per the criteria stated in ECMC Rule 304.b.(2)B. The Laramie 0993-29-01 met the following criteria set forth in Rule 304.b.(2).B, requiring an Alternative Location Analysis:

- **ECMC Rule 304.b.(2).B.vii.** *The proposed Oil and Gas Location is within the boundaries of, or is immediately upgradient from, a mapped, visible, or field-verified wetland or riparian corridor.*
- **ECMC Rule 304.b.(2).B.viii.** *The proposed Oil and Gas Location is within High Priority Habitat and the Operator did not obtain a waiver from CPW through a pre-application consultation.*

The Laramie 0993-29-0 is located with a High Priority Habitat. Laramie did not request a waiver from CPW for the ALA requirement. During the initial project development evaluation, Laramie assessed five alternative locations in addition to the Laramie 0993-29-01 in accordance with ECMC Rule 304.b.(2). Of the five alternatives. After assessing the Laramie 0993-29-01 and the five alternatives, Laramie determined developing the Laramie 0993-29-01 would result in less overall impact when compared to the alternative locations. The Wildlife Habitat Drawing is provided in **Appendix B**.

Haul Routes and Traffic Summary

Traffic projections were prepared for the Laramie 0993-29-01. The nearest public road is Highway 330 at the intersection with the subject private lease road. Regional trips to the Laramie 0993-29-01 will use the I-70 exit at DeBeque, Colorado or Exit #49 towards Mesa, Colorado. From the intersection of Highway 330 and Highway 65, vehicles will travel approximately 9.5 miles east to the Town of Collbran. Vehicles will drive through the Town of Collbran and will continue east on Highway 330 for approximately 20.8 miles until reaching the entrance of the private lease road. From Highway 330, vehicles will turn south (right) onto the private lease road located on private surface. Vehicles will head south on the private lease

road for approximately 1.4 miles until turning left (east) onto an access road located on Laramie owned surface. Vehicles will continue east for 0.3 feet, until reaching the entrance of the Laramie 0993-29-01 well pad. Vehicles will travel approximately 1,000 feet along the site-specific access road until reaching the Laramie 0993-29-01 well pad.

The average daily traffic will increase during initial site operations (drilling, completions, and flowback phases) for the Laramie 0993-29-01. Production and inspection activities will not increase traffic on public roads since the same vehicles will be conducting similar activities within other parts of the North Vega operations area. The increase in average daily traffic during the pad’s lifespan is not expected to be significant on roads generally used by the public. Highway 330 will see only a temporary increase in traffic during the initial pre-production phase of the Laramie 0993-29-01.

The haul route from Interstate 70 to the Laramie 0993-29-01 is provided in **Appendix C**.

Table 2: Trip Generation on Public Roads

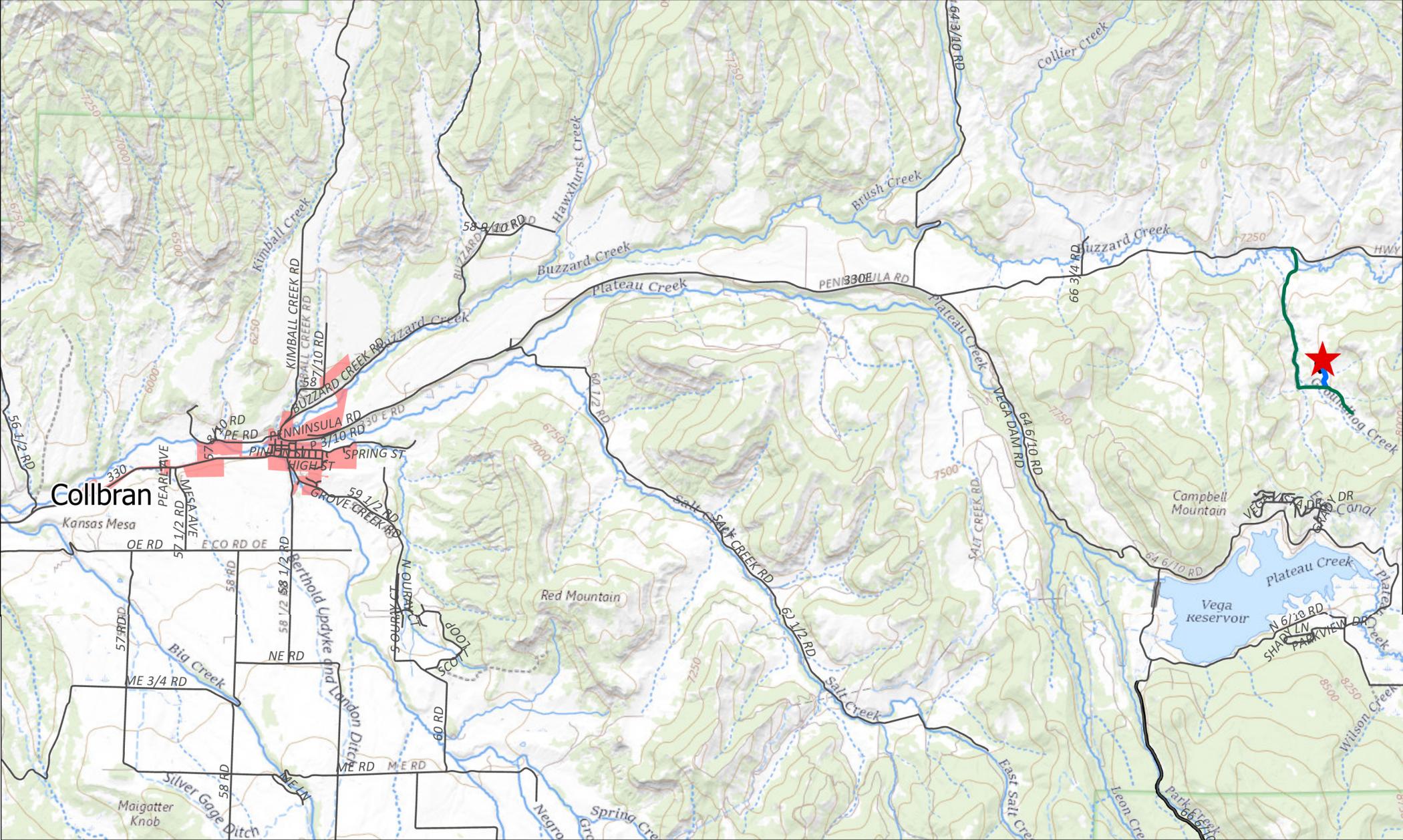
Operational Phase/ Activity	Timeframe (Days)	Total Maximum Trips Generated on Per Activity	Average VPD Per Activity
Construction	50	280	5.6
Drilling Mobilization	3	145	29
Drilling	72	900	12.5
Drilling Demobilization	3	145	29
Production Installation	21	168	8
Completions Mobilization	10	444	44.4
Completions and Flowback	40	1,600	40
Completions Demobilization	10	444	44.4
Interim Reclamation	14	64	4.6
Production	30 years		2

Laramie appreciates your attention to this notice and looks forward to working with you on this project.

Sincerely yours,
 LARAMIE ENERGY, LLC

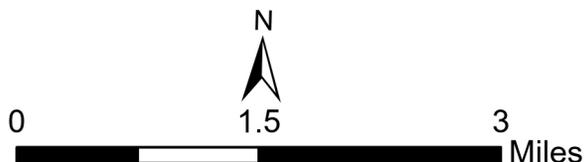
Katy Middleton

Katy Middleton
 Regulatory Specialist



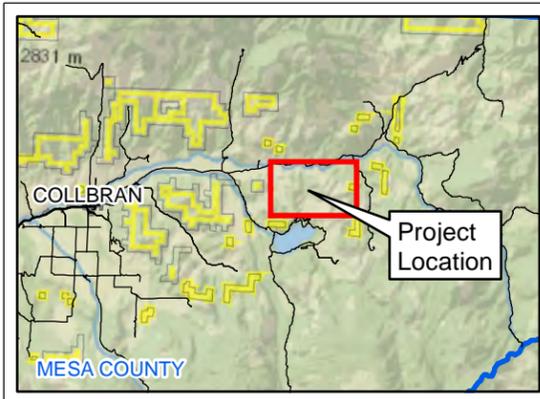
-  Site Location
-  Access Road - Proposed
-  Public Roads
-  USFS Roads
-  Private Access Road - Existing

APPENDIX A



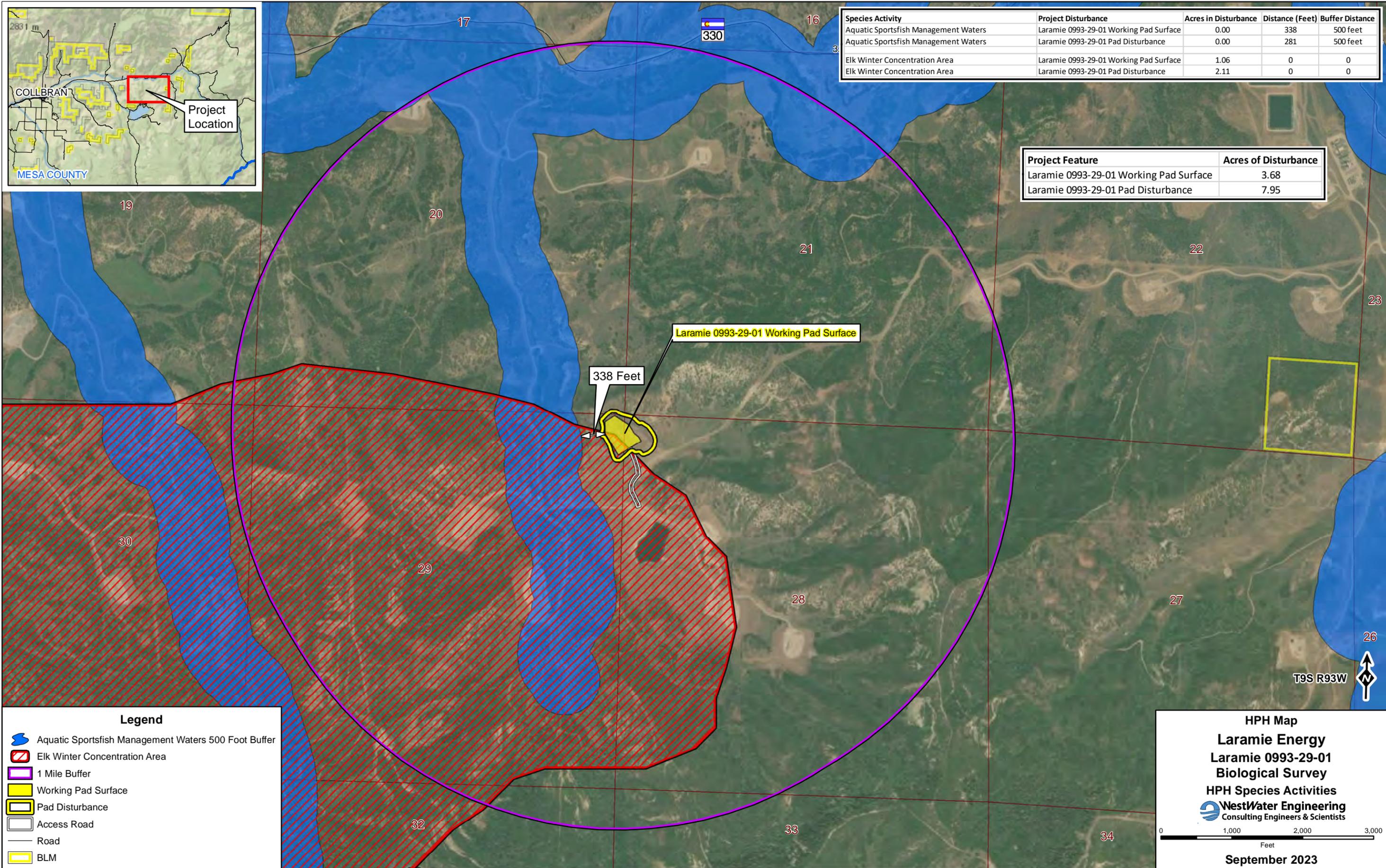
Vicinity Map
 Laramie 0993-29-01
 NENE, Sec. 29
 T9S R9W 6th PM
 Mesa County, CO

APPENDIX B



Species Activity	Project Disturbance	Acres in Disturbance	Distance (Feet)	Buffer Distance
Aquatic Sportsfish Management Waters	Laramie 0993-29-01 Working Pad Surface	0.00	338	500 feet
Aquatic Sportsfish Management Waters	Laramie 0993-29-01 Pad Disturbance	0.00	281	500 feet
Elk Winter Concentration Area	Laramie 0993-29-01 Working Pad Surface	1.06	0	0
Elk Winter Concentration Area	Laramie 0993-29-01 Pad Disturbance	2.11	0	0

Project Feature	Acres of Disturbance
Laramie 0993-29-01 Working Pad Surface	3.68
Laramie 0993-29-01 Pad Disturbance	7.95



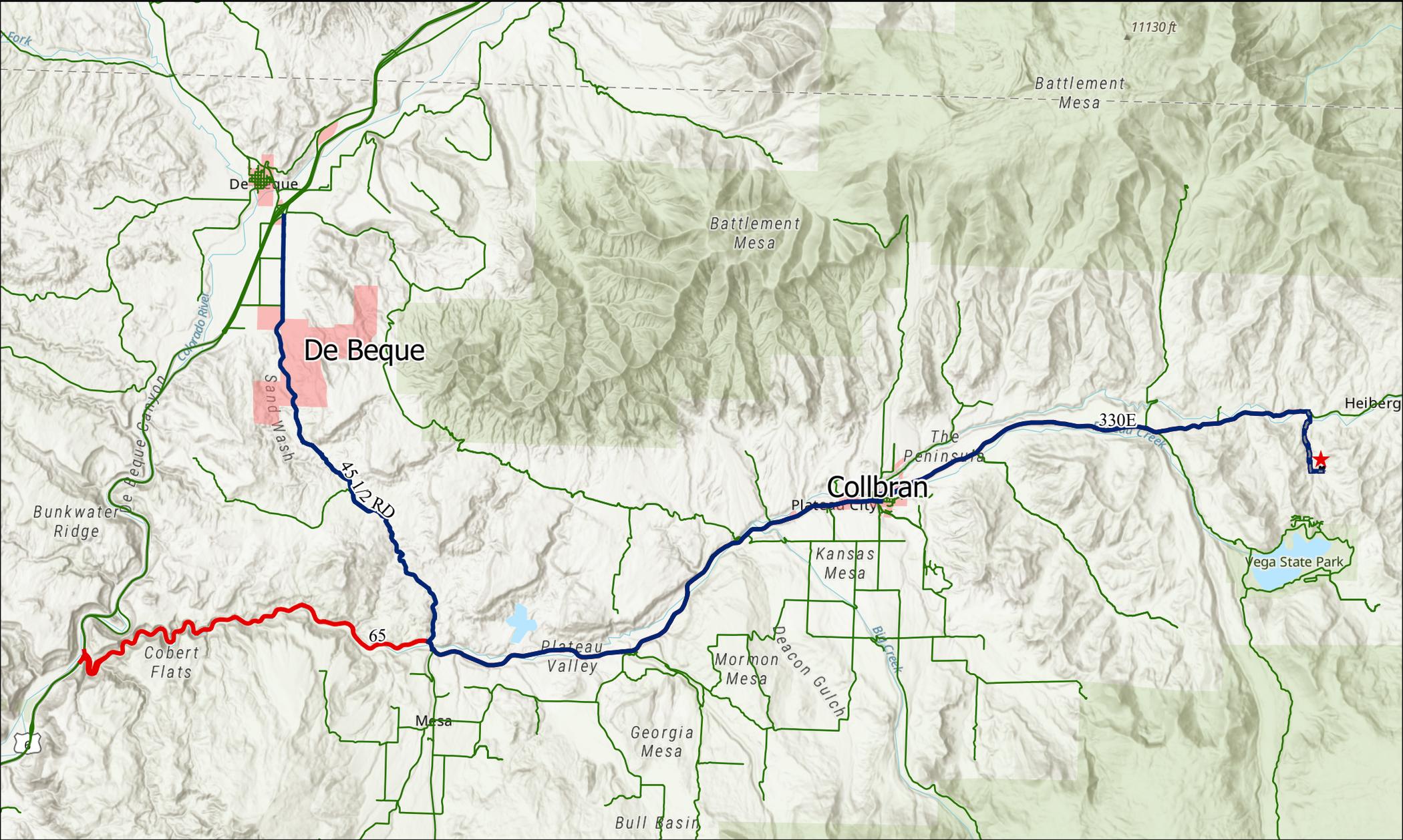
Legend

- Aquatic Sportsfish Management Waters 500 Foot Buffer
- Elk Winter Concentration Area
- 1 Mile Buffer
- Working Pad Surface
- Pad Disturbance
- Access Road
- Road
- BLM

HPH Map
Laramie Energy
Laramie 0993-29-01
Biological Survey
HPH Species Activities
WestWater Engineering
 Consulting Engineers & Scientists

0 1,000 2,000 3,000
Feet

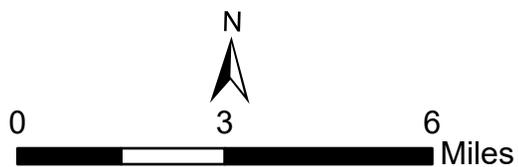
September 2023



APPENDIX C

Haul Routes Map

- ★ Site Location
- - - Private Access Road
- Public Roads
- Laramie 0993-29-01 Access Road ~1,000ft
- Route 1 - 34 Miles
- Route 2 - 38 Miles



Laramie 0993-29-01
 NENE, Sec. 29
 T9S R93W 6th PM
 Mesa County, CO





ATTACHMENT 2

Pre-Application Onsite Notes **June 12, 2023**

Pre-Application Meeting Onsite Notes – June 12, 2023

Laramie 0993-29-01

Laramie Energy, LLC

PRE-APPLICATION ONSITE MEETING – JUNE 12, 2023

LARAMIE 0993-29-01 WELL PAD

1st Draft emailed June 19, 2023

Finalized June 29, 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: 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), hydrology map, High Priority Habitat (wildlife) map, previous disturbance figure, Alternative Location figures, Leasehold Mineral Development Map, Vicinity Map.

SITE LOCATION DETAILS

Location: Laramie 0993-29-01

Location ID: New Location

Legal Description: NENE Section 29, Township 9 South, Range 93 West, 6th P.M.

Elevation (Graded): 7463 feet

General Location: 8.5 mapped miles east of Collbran, Colorado.

County: Mesa

Zone District: Agricultural, Forestry, Transitional District (AFT)

Wells: 16 Total (8 Fee & 8 Federal)

Anticipated Timeframe for Operational Phases	
Phase/Activity /Stage	Timeframe (Days)
Construction	30
Drilling Mobilization	4
Drilling	72
Drilling Demobilization	4
Production Installation	21
Completions Mobilization	10
Completions and Flowback	56
Completions Demobilization	10
Interim Reclamation	14
Total Pre-Production Timeframe	221

Preliminary Disturbance Estimates	Acres
Area of Disturbance	9.4
Working Pad Surface	3.7
Interim Reclamation- To be Reclaimed	6.8
Production Pad Surface	2.6
Proposed Access Road Acreage (903' length) (Existing Disturbance)	1.00
Pipeline	TBD
Short-Term Disturbance	10.44
Existing Disturbance	4.6
Long Term Disturbance	3.64

MINERAL DEVELOPMENT

- Minerals to be Development from Section 20 & 21 of Township 9 South, Range 93 West
 - Fee Wells Sec. 20: Communitization Agreements CA COC-078483
 - Federal Wells Sec. 21: Communitization Agreements CA 074227
 - 4 Wells from Federal Lease COC 064787
 - 4 Wells from Federal Lease COC 010619

Pre-Application Meeting Onsite Notes – June 12, 2023

Laramie 0993-29-01

Laramie Energy, LLC

SURFACE USE AGREEMENT (SUA)

The proposed Laramie 0993-29-01 will mostly be constructed and location on Laramie owned surface. A small amount of disturbance (0.8 acres) will occur on the adjacent parcel. All pre-production equipment (drilling, completions, & flowback) and all production equipment will be located on Laramie owned surface. The access road and buried pipeline segment will be installed on Laramie owned surface. The table below shows parcel details and disturbance.

Laramie is currently working with the adjacent landowner to establish an SUA. The Surface Owners are in support of the development and Laramie has worked with the Surface Owner previously.

Surface Ownership

Laramie 0993-29-01 Well Pad Parcel Numbers			
Surface Ownership	Disturbance Feature	Parcel Number	Parcel Acreage Size
Laramie Energy, LLC	Area of Disturbance, Working Pad Surface, Access Road, Buried Pipeline	2661-291-00-321	510
		2661-282-00-319	894
Jerry Gunderson	Area of Disturbance (no long-term disturbance or installed equipment)	2661-213-00-181	71
		2661-201-00-040	429

PERMITS REQUIRED

- Mesa County: Oil and Gas Location Application
- COGCC: (Oil and Gas Development Plan – OGDGP)
 - Form 2A – Location Assessment
 - Form 2B Cumulative Impacts
 - Form 2C – OGDGP Certification
 - July 1, 2023, COGCC to be renamed Colorado Energy & Carbon Management Commission “ECMC”
- BLM: 8 Federal APDs
 - 4 Wells from Federal Lease COC 064787
 - 4 Wells from Federal Lease COC 010619

ACCESS ROAD

An existing private lease road will be utilized to access the project area. The existing private lease road is located on private Fee surface and surface owned by Laramie. A site-specific access road will be constructed to access the proposed well pad. The proposed site-specific access road will be approximately 900 feet in length and will be constructed on previously disturbed surface. Attendees walked the route of the proposed access road, which was staked for the onsite. The existing culvert will be replaced, and additional stormwater control features will be installed.

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. After reviewing the proposed topsoil piles in the northeastern Area of Disturbance and the surrounding terrain, BLM and Laramie decided the topsoil piles would be better situated to the southeast where the gradient of the Area of Disturbance is less steep.

At the time of the onsite, a small corner of the Area of Disturbance (topsoil pile and stormwater BMP) was in Section 21. During the onsite, the BLM discussed Section 21 being spilt estate. Laramie will

Pre-Application Meeting Onsite Notes – June 12, 2023

Laramie 0993-29-01

Laramie Energy, LLC

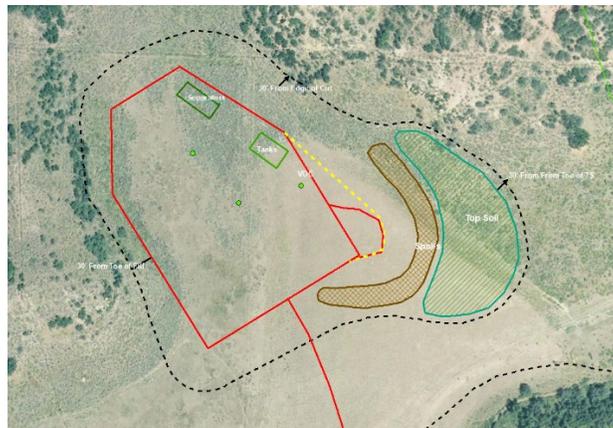
rework and revise the layout of the pad to re-locate the topsoil pile and diversion ditch off of the split estate in Section 21.

The group also discussed the management and burial of water-based drill cuttings onsite. Laramie stated in this area, typically 240 cubic yards of cuttings per well is generated and the volume anticipated for the Laramie 0993-29-01 is approximately 3,840 cubic yards of cuttings. The cuttings management area would be located on surface previously disturbed. The cuttings area will not be a trench, and cuttings are expected to be mixed the excess spoils stored on the southeast side of the location. Laramie constructed and owned a freshwater storage pond, referred to as Groundhog Gulch Pond. Spoils generated during construction of the freshwater pond were transported to the area where the Laramie 0993-29-01 will be located. Laramie has collected soil borings to determine the depth of the clay spoils. In some areas, clay spoils exceed 30 feet in depth. This will act as a natural liner for the cuttings management area.

Eight (8) production tanks are planned for the well pad. The tanks will be 400 barrels each, with a total capacity of 3,200 barrels for Location.

OIL TANKS		PRODUCED WATER TANKS		GUNBARREL TANKS	
# Of Tanks	Barrels	# Of Tanks	Barrels	# Of Tanks	Barrels
2	800	4	1600	2	800

After discussions and input from the onsite, Laramie revised the topsoil pile, spoils pile, cuttings management area, and production tank placement (see below). Separators and production tanks will be located on the cut.



PIPELINE

Laramie is currently assessing the best route for the proposed water gathering line and gas pipeline. An existing pipeline right-of-way (ROW) exists just 300 feet southeast of the Working Pad Surface. At the time of the onsite, Laramie is designing the pipeline to be installed within the access road disturbance.

A gas pipeline tie-in is located approximately 800 feet south of the Working Pad Surface. Approximately 800 feet of 6-inch welded steel gas gathering line will be required to tie into Laramie's existing 12-inch gas gathering line adjacent to the proposed pad. 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.

The water gathering line would be tied into Laramie's Groundhog Gulch pump station located to the southwest of the proposed well pad. Produced water will be transferred from the tanks into Laramie's

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water gathering infrastructure utilizing 4 inch, 6-inch, or 8-inch HDPE water pipe. The connection from the pad surface to the existing infrastructure tie in is approximately 1700 feet. From there, the water will be pumped to Laramie’s HCWTF (Location ID # 413056) in the NE¼NE¼ Sec. 22, Township 09 South, Range 93 West.

HIGH PRIORITY HABITAT (HPH)

Within a one-mile radius of the proposed Laramie 0993-29-01 two mapped HPH exist as shown in the table below.

HPH	Distance	Disturbance
Elk Winter Concentration COGCC Rule 1202.d. Density	0	Yes
Aquatic Sportfish Management Waters	192 feet	No

AQUATIC SPORTFISH MANAGEMENT WATERS

The mapped Aquatic Sportfish Management Waters is incorrectly mapped. The drainage actually exists to the southwest than as shown in the current COGCC layer. No drainage exists where the current COGCC HPH layer identifies aquatic habitat. Prior to the Pre-Application Onsite, Laramie contacted CPW to notify the information obtained during WestWater’s field surveying. CPW was able to verify the location of drainage and maps prepared for permit applications will reflect field verified aquatic habitats.

ELK WINTER CONCENTRATION HABITAT

The proposed Laramie 0993-29-01 is partially located within HPH - Elk Winter Concentration (COGCC Rule 1202.d. Density). The well pad, access road and pipeline will be located within the Elk Winter Concentration Habitat. During the onsite, Laramie explained how the well pad could not be moved further east to avoid the mapped elk Winter Concentration Habitat due to the steep slopes of the mountainous ridge. The well pad was designed to fit into a “bowl” to minimize disturbance and cuts into sides of mountain ridges.

The location of the proposed Laramie 0993-29-01 is a mountain basin (referred to as Groundhog Gulch), surrounded by active Oil and Gas Locations. Within the Groundhog Gulch basin, there are six Oil and Gas Locations, which are all operated by Laramie. Within 0.56 miles of the proposed location, there are 5 active Oil and Gas Locations. While the Laramie 0993-29-01 would be partially located within Elk Winter Concentration Habitat, the surrounding area is developed and active with oil and gas activities. The well pad and access road would also be constructed on surface which was previously disturbed.

Preliminary HPH Disturbance Estimates	
HPH Disturbance – Elk Winter Concentration COGCC Rule 1202.d. Density	2.1 Acres Area of Disturbance 1.0 Acres Access Road Disturbance (Existing surface Disturbance) 3.1 Acres Total Disturbance within HPH

The timing stipulation for Elk Winter Concentration habitat is December 1 through April 30. Laramie has committed to conducting all construction activities outside the timing stipulation. Laramie is currently working on a drilling schedule to reduce potential of conducting pre-productions activities within the timing stipulation.

FIELD SURVEYS

Biological, wetlands, surface water, and archaeology field surveys were conducted in May 2023. Biological Survey Report and Cultural Surveys were prepared and submitted to the BLM for review. WestWater will revise the Biological Survey Report based on observations during the onsite.

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WETLANDS

Non-jurisdictional wetlands vegetation was observed during the onsite adjacent to the proposed access road. Laramie will contact a third-party consultant to determine if an Army Corp permit is required. Further field surveys will be conducted.

SPILL RESPONSE

During drilling, completions, and flowback operations, a fully equipped emergency spill response trailer will be staged at an adjacent Laramie owned Oil and Gas Location, the Groundhog Gulch Pump Station (Location ID 444154) 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 5.5 access miles from the Laramie 29-01 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)

- Only one water well exists within a one-mile radius.
 - The water well is owned by Laramie and is not operable.
 - The water well was installed for an early homestead and has never been used by Laramie.
- The nearest public road, Highway 330, is approximately 4,700 feet (mapped distance) from the proposed pad.
- The nearest RBU is over one mile from the proposed pad.

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.

ENVIRONMENTAL ASSESSMENT

An Environmental Assessment (EA) was previously prepared for development within the Groundhog Gulch basin. The EA, prepared in 2015, determined a Finding of No Significant Impact. The EA analyzed four (4) well pads for development. Three of the four well pads were constructed and are currently active. Laramie did not construct the Piceance 29-11 since the engineering and construction access road would have resulted in major disturbance. Instead, Laramie reallocated proposed 29-11 wells to the Piceance 29-07 well pad and the Gunderson 29-09 well pad. The reservoir characteristics were reviewed after drilling of the other pads, and it was determined the BHLs could be re positioned allowing for drilling from the Piceance 29-07 and Gunderson 29-09 pads.

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

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ACTIONS ITEMS

Laramie:

- Revise Layout Access Road and Pipeline
 - Develop stormwater BMPs for access road
 - Road Plan and Profile for Federal ADP
 - Layout Drawing of Access Road for OGD
 - Finalize length and acreage disturbance for access road and pipeline
- Layout Drawings
 - Re-shape the cuttings management area
 - 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 topsoil and diversion ditch from Section 21 (split estate)
- Hydrology Map - WestWater
 - Revise Hydrology Maps to reflect field verified surface water features and remove any incorrect mapped (non-existent) water features
- Wildlife Drawing - WestWater
- Revised HPH map to reflect field-verified aquatic habitat.
- Schedule a second onsite to review revised Layout Drawings.
 - Will schedule for week of July 24, 2023
 - Laramie will provide revised drawings and figures at the second onsite.

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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