

FORM  
2A

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:

402525732

Date Received:

01/08/2023

## Oil and Gas Location Assessment

This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location Assessment will allow for the construction of the below specified Location; however, it does not supersede any land use rules applied by the local land use authority. Please see the COGCC website at <https://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID: **335640**

OGDP ID: **484436**

Expiration Date: **08/22/2026**

New Location     Refile     Amend Existing Location # 335640

If this Location assessment is a component of an Oil and Gas Development Plan (OGDP) application, enter the OGDP docket number(s).

< No docket number provided >

If this Location assessment is part of an approved Oil and Gas Development Plan, enter the OGDP ID number(s).

OGDP ID Number	OGDP Name
484436	Ryan Gulch Phase 3

### CONSULTATION

- This location is included in a Comprehensive Area Plan (CAP). CAP ID # \_\_\_\_\_
- This Location or its associated new access road, utility, or Pipeline corridor meets Rule 309.e.(2).A, B, or C.
- This Location is within 2,640 feet of a GUDI or Type III Well per Rule 411.b.(4).
- This Location includes a Rule 309.e.(2).E variance request.
- This location includes a Rule 309.f.(1).A.ii. variance request.

### Operator

Operator Number: 96850  
 Name: TEP ROCKY MOUNTAIN LLC  
 Address: 1058 COUNTY ROAD 215  
 City: PARACHUTE State: CO Zip: 81635

### Contact Information

Name: Jeff Kirtland  
 Phone: (970) 263-2736  
 Fax: ( )  
 email: jkirtland@terraep.com

### FINANCIAL ASSURANCE FOR THIS LOCATION (check all that apply)

- Plugging, Abandonment, and Reclamation \_\_\_\_\_
- Centralized E&P Waste Management Facility \_\_\_\_\_
- Gas Gathering, Gas Processing, and Underground Gas Storage Facilities \_\_\_\_\_
- Surface Owner Protection Bond. \_\_\_\_\_

### 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 one or more Wells on this Location.

Amount of Federal Financial Assurance \$ 655000

### LOCATION IDENTIFICATION

Name: FEDERAL Number: RGU 44-1-298

Provide the location description and the latitude and longitude of a single point near the center of the Working Pad Surface as a reference for this Location.

Quarter: LOT 36 Section: 1 Township: 2S Range: 98W Meridian: 6 Ground Elevation: 6278  
Latitude: 39.901002 Longitude: -108.336054  
GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Date of Measurement: 08/18/2021

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is: LOCATION ID # FORM 2A DOC #

## RELEVANT LOCAL GOVERNMENT SITING INFORMATION

County: RIO BLANCO Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "Relevant Local Government approval of the siting of the proposed oil and gas location."

This proposed Oil and Gas Location is in an area designated as one of State interest and subject to the requirements of § 24-65.1-108, C.R.S. No

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this location? Yes

A siting permit application has been submitted to the Relevant Local Government for this proposed Oil and Gas Location: Yes

Date Relevant Local Government permit application submitted: 06/28/2022

Current status or disposition of the Relevant Local Government permit application for this proposed Oil and Gas Location: Approved

Status/disposition date: 07/07/2022

If Relevant Local Government permit has been approved or denied, attach final decision document(s).

Provide the contact information for the Relevant Local Government point of contact for the local permit associated with this proposed Oil and Gas Location:

Contact Name: Edward Smercina Contact Phone: 970-878-9586

Contact Email: edward.smercina@rbc.us

## PROXIMATE LOCAL GOVERNMENT INFORMATION

For every Proximate Local Government (PLG) associated with this proposed Oil and Gas Location, provide the PLG's point of contact and their contact information.

< No row provided >

## FEDERAL PERMIT INFORMATION

A Federal drilling permit (or related siting application) has been submitted for this proposed Oil and Gas Location: No

Date submitted: \_\_\_\_\_

Current status or disposition of the Federal drilling permit (or related siting application) for this proposed Oil and Gas Location: Not yet submitted

Status/disposition Date: \_\_\_\_\_

If Federal agency permit has been approved or denied, attach the final decision document(s).

Provide the contact information of the Federal point of contact for the Federal permit associated with this proposed Oil and Gas Location.

Contact Name: Matthew Dupire Contact Phone: 970-878-3839

Contact Email: mdupire@blm.gov Field Office: White River Field Office, Meeker Colorado

Additional explanation of local and/or federal process:

The BLM approved TEP's Lower Wagonroad Ridge Master Development Plan EA DOI-BLM- N050-2020-046-EA on 9/23/2020, which includes the RGU 44-1-298 pad. However, the associated APDs have not been submitted or approved.

## RELEVANT LOCAL GOVERNMENT OR FEDERAL PRE-APPLICATION CONSULTATION

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Did a pre-application Formal Consultation Process occur with the Relevant Local Government per Rule 301.f.(3)? Yes

Date of local government consultation: 04/07/2021

Did a pre-application Formal Consultation Process occur with the Federal land manager per Rule 301.f.(3)? Yes

Date of federal consultation: 04/07/2021

Was an ALA that satisfies Rule 304.b.(2).C (or substantially equivalent information per Rule 304.e) developed during a federal or local government permit application process? If yes, attach the ALA to the Form 2A. No

## ALA APPLICABILITY AND CRITERIA

Complete this section for any pre-application consultation related to this proposed Oil and Gas Location that occurred prior to the submission of this Form 2A. If a pre-application Formal Consultation Process occurred, attach a Consultation Summary.

Does the proposed Oil and Gas Location meet any of the criteria listed in Rule 304.b.(2)B? No

If YES, indicate by checking the box for every Rule 304.b.(2).B criterion met by this proposed Location, and attach an ALA. See Rule 304.b.(2).B.i-x for full text of criteria.

- |   |  |
|---|--|
| <input type="checkbox"/> i. WPS < 2,000 feet from RBU/HOBU  | <input type="checkbox"/> vi.aa. WPS within a surface water supply area                       |
| <input type="checkbox"/> ii. WPS < 2,000 feet from School/Child Care Center                             | <input type="checkbox"/> vi.bb. WPS < 2,640 feet from Type III or GUDI well                  |
| <input type="checkbox"/> iii. WPS < 1,500 feet from DOAA  | <input type="checkbox"/> vii. WPS within/immediately upgradient of wetland/riparian corridor |
| <input type="checkbox"/> iv. WPS < 2,000 feet from jurisdictional boundary and PLG objects/requests ALA | <input type="checkbox"/> viii. WPS within HPH and CPW did not waive                          |
| <input type="checkbox"/> v. WPS within a Floodplain   | <input type="checkbox"/> ix. Operator using Surface bond                                     |
|   | <input type="checkbox"/> x. WPS < 2,000 feet from RBU/HOBU/School within a DIC               |

Is the proposed Oil and Gas Location within the exterior boundaries of the Southern Ute Indian Reservation, and the Tribe objects to the Location or requests an ALA? If YES, attach an ALA to the Form 2A. No

Operator requests the Director waive the ALA requirement per Rule 304.b.(2).A.i:

Provide an explanation for the waiver request, and attach supporting information (if necessary).

## ALTERNATIVE LOCATIONS DASHBOARD

List every alternative location reviewed and included in the ALA. Provide a latitude and longitude for the approximate center of the alternative location, all Rule 304.b.(2).B Criteria met, if a variance would be required to permit the location, and a brief comment on the key points of the alternative location.

304.b.(2).B.i-x Criteria Met:

< No row provided >

## SURFACE & MINERAL OWNERSHIP

### Surface Owner Info:

Name: Bureau of Land Management Phone: 970-878-3800  
Address: White River Field office Fax: \_\_\_\_\_  
Address: 220 East Market Street Email: mdupire@blm.gov  
City: Meeker State: CO Zip: 81641

Surface Owner at this Oil and Gas Location:  Fee  State  Federal  Indian

- Check only one:
- The Operator/Applicant is the surface owner.
  - The Operator has a signed Surface Use Agreement for this Location – attach SUA.
  - All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the surface owner owns the minerals beneath this Location and is committed to an oil and gas lease – attach lease map or provide lease description.
  - All operations on this Oil & Gas Location will develop the minerals beneath the Location, and the Operator intends to use a surface bond per Rule 703 to secure access to this Location – attach lease map or provide lease description.

Surface Owner protection Financial Assurance type: N/A Surety ID Number: \_\_\_\_\_

Mineral Owner beneath this Oil and Gas Location:  Fee  State  Federal  Indian

Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

Lease description if necessary: This O&G Location overlies Federal leases COC-62053 and COC-60736.

## SITE EQUIPMENT LIST

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

Wells	<u>22</u>	Oil Tanks	<u>0</u>	Condensate Tanks	<u>3</u>	Water Tanks	<u>6</u>	Buried Produced Water Vaults	<u>0</u>
Drilling Pits	<u>0</u>	Production Pits	<u>0</u>	Special Purpose Pits	<u>0</u>	Multi-Well Pits	<u>0</u>	Modular Large Volume Tank	<u>0</u>
Pump Jacks	<u>0</u>	Separators	<u>25</u>	Injection Pumps	<u>0</u>	Heater-Treaters	<u>0</u>	Gas Compressors	<u>0</u>
Gas or Diesel Motors	<u>0</u>	Electric Motors	<u>0</u>	Electric Generators	<u>0</u>	Fuel Tanks	<u>0</u>	LACT Unit	<u>0</u>
Dehydrator Units	<u>0</u>	Vapor Recovery Unit	<u>0</u>	VOC Combustor	<u>0</u>	Flare	<u>0</u>	Enclosed Combustion Devices	<u>3</u>
Meter/Sales Building	<u>0</u>	Pigging Station	<u>0</u>			Vapor Recovery Towers	<u>0</u>		

## OTHER PERMANENT EQUIPMENT

Permanent Equipment Type	Number
Produced Water Transfer Pump	1
135 gal Chemical Tank	1
500 bbl Blowdown/Vent Tank	1
Chemical Pumps	5
500 bbl Gun Barrel Tanks	2
500 gal Chemical Tanks	4

## OTHER TEMPORARY EQUIPMENT

Temporary Equipment Type	Number
HP 4 Phase Separators (FB)	2
500 bbl Enclosed Water Tanks (FB)	3
Water Transfer Pump (FB)	1
Buy Back Meter (Williams)	1
500 bbl Low Pressure P-Tank (FB)	1
Emissions Combustion Device (FB)	1

## GAS GATHERING COMMITMENT

Operator commits to connecting to a gathering system by the Commencement of Production Operations? Yes

If the answer is NO, a Gas Capture Plan consistent with the requirements of Rule 903.e MUST be attached on the Plans tab.

## FLOWLINE DESCRIPTION

Per Rule 304.b.(6), provide a description of all onsite and off-location oil, gas, and/or water flowlines.

### Off Location Flowline Installations:

- 1 - 8" Gas Gathering Line, steel, approx. 465 ft.
- 1 - 6" Water Pipeline, FlexPipe, approx. 3,522 ft.
- 1 - 6" Water Pipeline, FlexPipe, approx. 285 ft.
- 1 - 4" Water Pipeline reroute, FlexPipe, approx. 116 ft.

### Off Location Flowline Temporary Installations:

- 5 - 4.5" Temporary Steel Surface Frac Lines - approx. 5,350 ft.

### On Location Flowline Installations:

- 22 - 2" Coated Steel Wellhead Lines - approx. 180 ft.
- 2 - 2" Coated Steel Condensate Dump Line - approx. 600 ft.
- 1 - 2" Coated Steel Produced Water Dump Line - approx. 550 ft.
- 1 - 2" Coated Steel Surface Water Vent Line - approx. 20 ft.
- 1 - 2" Coated Steel Surface Water Blowdown Line - approx. 550 ft.
- 1 - 4" Aluminum Surface ECD Process Piping - approx. 110 ft.
- 1 - 1" Coated Steel Surface Fuel Gas Line/ECD - approx. 20 ft.
- 1 - 1" Coated Steel Surface Fuel Gas Line/Tank Burners - approx. 690 ft.
- 1 - 2" Coated Steel Rig Fuel Gas Line - approx. 225 ft.

## CULTURAL DISTANCE AND DIRECTION

Provide the distance and direction to the nearest cultural feature as measured from the edge of the Working Pad Surface.

	Distance	Direction	Rule 604.b Conditions Satisfied (check all that apply):			Details of Condition(s)	604.b. (4)
			604.b. (1)	604.b. (2)	604.b. (3)		
Building:	5280 Feet	NE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Residential Building Unit (RBU):	5280 Feet	NE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
High Occupancy Building Unit(HOBU)	5280 Feet	NE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Designated Outside Activity Area:	5280 Feet	NE					
Public Road:	57 Feet	SE					
Above Ground Utility:	553 Feet	SE					
Railroad:	5280 Feet	NW					
Property Line:	843 Feet	SW					
School Facility:	5280 Feet	NE					
Child Care Center:	5280 Feet	NE					
Disproportionately Impacted (DI) Community:	5280 Feet	SE					

RBU, HOBUs, or School Facility within a DI Community. 5280 Feet NE

**RULE 604.a.(2). EXCEPTION LOCATION REQUEST**

Operator requests an Exception Location Request from Rule 604.a.(2) [well is less than 150 feet from a property line]. Exception Location Request Letter and Waiver signed by offset Surface Owner(s) must be attached.

**CULTURAL FEATURE INFORMATION REQUIRED BY RULE 304.b.(3).B.**

Provide the number of each Cultural feature identified within the following distances, as measured from the Working Pad Surface:

	0-500 feet	501-1,000 feet	1,001-2,000 feet
Building Units	<u>0</u>	<u>0</u>	<u>0</u>
Residential Building Units	<u>0</u>	<u>0</u>	<u>0</u>
High Occupancy Building Units	<u>0</u>	<u>0</u>	<u>0</u>
School Properties	<u>0</u>	<u>0</u>	<u>0</u>
School Facilities	<u>0</u>	<u>0</u>	<u>0</u>
Designated Outside Activity Areas	<u>0</u>	<u>0</u>	<u>0</u>

**CONSTRUCTION**

Size of disturbed area during construction in acres: 5.63

Size of location after interim reclamation in acres: 1.65

Estimated post-construction ground elevation: 6278

**DRILLING PROGRAM**

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 H2S Drilling Operations Plan.

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

**DRILLING WASTE MANAGEMENT PROGRAM**

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Recycle/reuse

Cutting Disposal: ONSITE Cuttings Disposal Method: Cuttings trench

Other Disposal Description:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: \_\_\_\_\_

**CURRENT LAND USE**

Current Land Use: check all that apply per Rule 304.b.(9).

Crop Land:  Irrigated  Non-Irrigated  Conservation Reserve Program (CRP)

Non-Crop Land:  Rangeland  Forestry  Recreation  Other

Subdivided:  Industrial  Commercial  Residential

Describe the current land use:

The current land use for this property is considered rangeland / recreational. The property in the immediate vicinity of the Oil and Gas Location is primarily used for cattle grazing but is also periodically used for recreation, including hunting.

Describe the Relevant Local Government's land use or zoning designation:

Rio Blanco County has a zoning designation of "Agricultural" for this property.

Describe any applicable Federal land use designation:

The Federal RGU 44-1-298 pad is located on Federal surface within Rio Blanco County, Colorado. The surface owner does not intend to modify the current land use. Therefore, the final land use designation will remain as rangeland / recreational.

## FINAL LAND USE

Final Land Use: check all that apply per Rule 304.b.(9).

Crop Land:  Irrigated  Non-Irrigated  Conservation Reserve Program (CRP)

Non-Crop Land:  Rangeland  Forestry  Recreation  Other

Subdivided:  Industrial  Commercial  Residential

## REFERENCE AREA INFORMATION

If Final Land Use includes Non-Crop Land (as checked above), the following information is required:

Describe landowner's designated final land use(s):

The Federal RGU 44-1-298 pad is located on Federal surface within Rio Blanco County, Colorado. The surface owner does not intend to modify the current land use. Therefore, the final land use designation will remain as rangeland / recreational.

Reference Area Latitude: 39.901549

Reference Area Longitude: -108.337919

Provide a list of plant communities and dominant vegetation found in the Reference Area.

Plant Community	Dominant vegetation
Shrub Land	Wyoming sagebrush
Shrub Land	Basin big sagebrush
Shrub Land	pinyon/juniper woodlands

Noxious weeds present: Yes

## SOILS

List all soil map units that occur within the maximum extent of the proposed Oil and Gas Location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" listing the typical vertical soil profile(s). This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS website at <https://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/> or from the COGCC website GIS Online map page. Instructions are provided within the COGCC website help section.

NRCS Map Unit Name: 6—Barcus channery loamy sand, 2 to 8 percent slopes

NRCS Map Unit Name: \_\_\_\_\_

NRCS Map Unit Name: \_\_\_\_\_

## GROUNDWATER AND WATER WELL INFORMATION

Provide the distance and direction, as measured from the Working Pad Surface, to the nearest:

water well: 1921 Feet NW

Spring or Seep: 5280 Feet NE

Estimated depth to shallowest groundwater that can be encountered at this Oil and Gas Location: 50 Feet

Basis for estimated depth to and description of shallowest groundwater occurrence:

Hydrogeological indicators do not support the occurrence of shallow groundwater at the site, depth to groundwater is probably greater than 50 feet in the underlying bedrock. (SAD, dated 8/23/21, WestWater Engineering)

## SURFACE WATER AND WETLANDS

Provide the distance and direction to the nearest downgradient surface Waters of the State, as defined 10 Feet SW

in the 100-Series Rules, measured from the Working Pad Surface:

If less than 2,640 feet, is the Waters of the State identified above within 15 stream miles upstream of a Public Water System intake? No

Provide the distance and direction to the nearest downgradient wetland, measured from the Working

Pad Surface: 5280 Feet E

Provide a description of the nearest downgradient surface Waters of the State:

Unnamed intermittent stream.

If the proposed Oil and Gas Location is within a Rule 411.a Surface Water Supply Area buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

If the proposed Oil and Gas Location is within a Rule 411.b GUDI/Type III buffer zone, select the buffer zone type: \_\_\_\_\_

Public Water System Administrator - Contact Name \_\_\_\_\_ Email \_\_\_\_\_

Is a U.S. Army Corps of Engineers Section 404 permit required for the proposed Oil and Gas Location, access road, or associated pipeline corridor? No

If a U.S. Army Corps of Engineers Section 404 permit is required, provide the permit status, and permit number if available:

\_\_\_\_\_

Is the Location within a Floodplain? No Floodplain Data Sources Reviewed (check all that apply):

Federal (FEMA)  State  County  Local

Other \_\_\_\_\_

Does this proposed Oil and Gas Location lie within a Sensitive Area for water resources, as defined in the 100-Series Rules? Yes

## CONSULTATION, WAIVERS, AND EXCEPTIONS

When Rule 309.e.(2) Consultation must occur, check all that apply:

This location is included in a Wildlife Mitigation Plan

This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within federally designated critical habitat or an area with a known occurrence for a federal or Colorado threatened or endangered species. Provide description in Comments section of Submit tab.

- This Oil and Gas Location or associated new access road, utility, or pipeline corridor falls within an existing conservation easement established wholly or partly for wildlife habitat. Provide description in Comments section of Submit tab.

When Rule 309.e.(3) Consultation is not required, check all that apply:

- This Oil and Gas Location has been included in a previously approved, applicable Wildlife Protection Plan.
- This Oil and Gas Location has been included in a previously approved, applicable Wildlife Mitigation Plan.
- This Oil and Gas Location has been included in a previously approved, applicable conservation plan.

Pre-application Consultation:

- A pre-application consultation with CPW, regarding this Oil and Gas Location, occurred 03/24/2022 on:

**CPW Waivers and Exceptions (check all that apply and attach all CPW waivers to this Form 2A):**

- The applicant has obtained a Rule 304.b.(2).B.viii CPW waiver for the requirement to complete an ALA.
- The applicant has obtained a Rule 309.e.(2).G CPW waiver and consultation is not required.
- The applicant has obtained a Rule 309.e.(5).D.i CPW waiver and is requesting an exception from Rule 1202.c.(1).R.
- The applicant has obtained a Rule 309.e.(5).D.ii CPW waiver and is requesting an exception from Rule 1202.c.(1).S.
- The applicant has obtained a Rule 309.e.(5).D.iii CPW waiver of Rule 1202.c.(1).T.
- The applicant has obtained a Rule 309.e.(5).D.iv CPW waiver and is requesting an exception from Rule 1202.c.(1) in accordance with an approved CAP.
- The applicant has obtained a Rule 1202.a CPW waiver.
- The applicant has obtained a Rule 1202.b CPW waiver.
- In accordance with Rule 1203.a.(3), the applicant requests an exception from compensatory mitigation Rule(s): \_\_\_\_\_

**HIGH PRIORITY HABITAT AND COMPENSATORY MITIGATION**

This Oil and Gas Location, associated access roads, utility, or Pipeline corridor falls wholly or partially within the following High Priority Habitats (Note: dropdown options are abbreviated - see Rule 1202 for full rule text):

High Priority Habitat (list all that apply)	Oil and Gas Location	Access Road	Utility or Pipeline Corridor
1202.c.(1).S - Sportfish mgmt waters, non-Gold Medal	x	x	x
1202.d.(3) - Mule deer migration & winter	x	x	x

The following questions are for Oil and Gas Locations that cause the density to exceed one Oil and Gas Location per square mile in Rule 1202.d High Priority Habitat:

Direct Impacts:

Is Compensatory Mitigation required per Rule 1203.a for this Oil and Gas Location? Yes

Is a Compensatory Mitigation Plan proposed to address direct impacts for this Oil and Gas Location? No

Have all Compensatory Mitigation Plans been approved for this Location? No

If not, what is the current status of each Plan?

NA

Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? Yes

Direct impact habitat mitigation fee amount: \$ 13750

Indirect Impacts:

Is Compensatory Mitigation required per Rule 1203.d for this Oil and Gas Location? Yes

Is a Compensatory Mitigation Plan proposed to address indirect impacts for this Oil and Gas Location? No

Have all Compensatory Mitigation Plans been approved for this Location? No

If not, what is the current status of each Plan?

NA

Is a Compensatory Mitigation Fee proposed for this Oil and Gas Location? Yes

Indirect impact habitat mitigation fee amount: \$ 29905.68

**Operator Proposed Wildlife BMPs**

No	Target Species	BMP Type	Description
1	BLACK BEAR	Wildlife - Avoidance	The operator agrees to report bear conflicts immediately to CPW staff.
2	BLACK BEAR	Wildlife - Avoidance	TEP will install and utilized bear proof dumpsters and trash receptacles for food- related trash at all facilities that generate trash.
3	RAPTORS	Wildlife - Minimization	Exclusionary devices will be installed to prevent bird and other wildlife from access equipment stacks, vents, and openings.
4	RAPTORS	Wildlife - Avoidance	TEP will conduct vegetation removal activities outside the migratory bird nesting season (April 1 – August 30). If vegetation removal must occur during the nesting season, TEP will implement hazing or other exclusionary measures prior to April 1 to avoid take of migratory birds. Alternatively, TEP may conduct a migratory bird survey prior to vegetation removal as required by COGCC Rule 1202.a.(8) to avoid take of migratory birds.
5	MULE DEER & ELK	Wildlife - Avoidance	The operator agrees to reclaim mule deer and elk habitats with CPW-identified native shrubs, grasses, and forbs appropriate to the ecological site disturbed.
6	MULE DEER & ELK	Wildlife - Minimization	To minimize the potential for wildlife related traffic accidents, TEP has implemented speed restrictions for all lease roads and requires that all TEP employees and contractors adhere to these posted speed restrictions.
7	MULE DEER & ELK	Wildlife - Minimization	Certified weed-free native seed in seed mixes, except for non-native plants that benefit wildlife will be used. TEP will use certified, weed free grass hay, straw, hay or other mulch materials used for the reseeding and reclamation of disturbed areas.
8	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Contain Flowback and Stimulation Fluids in Tanks that are placed on a Working Pad Surface in an area with downgradient perimeter berming
9	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Construct lined berms or other lined containment devices pursuant to Rule 603.o around any new crude oil, condensate, and produced water storage Tanks that are installed after January 15, 2021

10	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Inspect the Oil and Location on a daily basis for the first six to nine month of production operations and bi-weekly for the remaining life of the wells.
11	AQUATIC SPECIES/AMPHIBIANS	Wildlife - Minimization	Maintain adequate Spill response equipment at the Oil and Gas Location during drilling and completion operations

### CPW Proposed Wildlife BMPs

No BMP

## AIR QUALITY MONITORING PROGRAM

Will the Operator install and administer an air quality monitoring program at this Location? Yes

### Operator Proposed BMPs

No BMP

### CDPHE Proposed COAs OR BMPs

No BMP

## PLANS

Total Plans 11  
 Uploaded:

- (1) Emergency Spill Response Program consistent with the requirements of Rules 411.a.(4).B, 411.b.(5).B, & 602.j
- (2) Noise Mitigation Plan consistent with the requirements of Rule 423.a
- (3) Light Mitigation Plan consistent with the requirements of Rule 424.a
- (4) Odor Mitigation Plan consistent with the requirements of Rule 426.a
- (5) Dust Mitigation Plan consistent with the requirements of Rule 427.a
- (6) Transportation Plan
- (7) Operations Safety Management Program consistent with the requirements of Rule 602.d
- (8) Emergency Response Plan consistent with the requirements of Rule 602.j
- (9) Flood Shut-In Plan consistent with the requirements of Rule 421.b.(1)
- (10) Hydrogen Sulfide Drilling Operations Plan consistent with the requirements of Rule 612.d
- (11) Waste Management Plan consistent with the requirements of Rule 905.a.(4)
- (12) Gas Capture Plan consistent with the requirements of Rule 903.e
- (13) Fluid Leak Detection Plan
- (14) Topsoil Protection Plan consistent with the requirements of Rule 1002.c
- (15) Stormwater Management Plan consistent with the requirements of Rule 1002.f
- (16) Interim Reclamation Plan consistent with the requirements of Rule 1003
- (17) Wildlife Plan consistent with the requirements of Rule 1201
- (18) Water Plan

- (19) Cumulative Impacts Plan
- (20) Community Outreach Plan
- (21) Geologic Hazard Plan

## VARIANCE REQUESTS

Check all that apply:

- This proposed Oil and Gas Location requires the approval of a Rule 502.a variance from COGCC Rule or Commission

Order number: \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## RULE 304.d LESSER IMPACT AREA EXEMPTION REQUESTS

Check the boxes below for all Exemptions being requested. Lesser Impact Area Exemption Request must be attached, and will include all requested exemptions.

- |  |  |
|--|--|
| <input type="checkbox"/> 304.b.(1). Local Government Siting Information      | <input type="checkbox"/> 304.c.(1). Emergency Spill Response Program           |
| <input type="checkbox"/> 304.b.(2). Alternative Location Analysis            | <input checked="" type="checkbox"/> 304.c.(2). Noise Mitigation Plan           |
| <input type="checkbox"/> 304.b.(3). Cultural Distances                       | <input checked="" type="checkbox"/> 304.c.(3). Light Mitigation Plan           |
| <input type="checkbox"/> 304.b.(4). Location Pictures                        | <input type="checkbox"/> 304.c.(4). Odor Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(5). Site Equipment List                      | <input type="checkbox"/> 304.c.(5). Dust Mitigation Plan                       |
| <input type="checkbox"/> 304.b.(6). Flowline Descriptions                    | <input type="checkbox"/> 304.c.(6). Transportation Plan                        |
| <input type="checkbox"/> 304.b.(7). Drawings                                 | <input type="checkbox"/> 304.c.(7). Operations Safety Management Program       |
| <input type="checkbox"/> 304.b.(8). Geographic Information System (GIS) Data | <input type="checkbox"/> 304.c.(8). Emergency Response Plan                    |
| <input type="checkbox"/> 304.b.(9). Land Use Description                     | <input type="checkbox"/> 304.c.(9). Flood Shut-In Plan                         |
| <input type="checkbox"/> 304.b.(10). NRCS Map Unit Description               | <input type="checkbox"/> 304.c.(10). Hydrogen Sulfide Drilling Operations Plan |
| <input type="checkbox"/> 304.b.(11). Best Management Practices               | <input type="checkbox"/> 304.c.(11). Waste Management Plan                     |
| <input type="checkbox"/> 304.b.(12). Surface Owner Information               | <input type="checkbox"/> 304.c.(12). Gas Capture Plan                          |
| <input type="checkbox"/> 304.b.(13). Proximate Local Government              | <input type="checkbox"/> 304.c.(13). Fluid Leak Detection Plan                 |
| <input type="checkbox"/> 304.b.(14). Wetlands                                | <input type="checkbox"/> 304.c.(14). Topsoil Protection Plan                   |
| <input type="checkbox"/> 304.b.(15). Schools and Child Care Centers          | <input type="checkbox"/> 304.c.(15). Stormwater Management Plan                |
|  | <input type="checkbox"/> 304.c.(16). Interim Reclamation Plan                  |
|  | <input type="checkbox"/> 304.c.(17). Wildlife Plan                             |
|  | <input type="checkbox"/> 304.c.(18). Water Plan                                |
|  | <input type="checkbox"/> 304.c.(19). Cumulative Impacts Plan                   |
|  | <input type="checkbox"/> 304.c.(20). Community Outreach Plan                   |
|  | <input type="checkbox"/> 304.c.(21). Geologic Hazard Plan                      |

## OPERATOR COMMENTS AND SUBMITTAL

Comments

TEP Rocky Mountain LLC ("TEP") is proposing to drill, complete, and operate eighteen (18) proposed directional natural gas wells from the existing Federal RGU 44-1-298 pad (Loc ID: 335640) which has four (4) producing wells.

As described under Rule 304.b.(2).A, an Alternative Location Analysis (ALA) is only required for an Oil and Gas Location that "meets any of the criteria listed in Rule 304.b.(2).B." The Federal RGU 44-1-298 pad does not meet any of these requirements and therefore an ALA is not required.

The following 304.c Plans are not required for this submittal:  
 Emergency Spill Response Program - Location not w/in 2640' of groundwater under the direct influence of a surface water well or Type III well or surface water that is 15 miles or less upstream from a PWS intake.  
 Odor Mitigation Plan - Location is not w/in 2000' of a BU or DOAA.  
 Transportation Plan - Rio Blanco County does not require the plan.  
 Flood Shut-in Plan - Location is not w/in a flood plain.  
 Hydrogen Sulfide Drilling Plan - Do not expect to encounter H2S during drilling.  
 Community Outreach Plan - Location is not w/in 2000' of a RBU, HOB, or school located w/in a DIC.  
 Geologic Hazard Plan - A Geologic Hazard Map and Report is attached.

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

Signed: \_\_\_\_\_ Date: 01/08/2023 Email: mluke@terraep.com

Print Name: Melissa Luke Title: Regulatory Specialist

Based on the information provided herein, this Oil and Gas Location Assessment complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved:  \_\_\_\_\_ Director of COGCC Date: 9/11/2023

### Conditions Of Approval

**All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.**

<u>COA Type</u>	<u>Description</u>
Construction	COA: The operator shall maintain records that specify the drill cutting volumes and clean fill volumes used for treatment. The records shall be kept for the life of the facility and be kept up to date. Records shall be transferred with change of operator.
Material Handling and Spill Prevention	COA: The operator will propose the number of discrete samples, the locations, and depth intervals for the confirmation samples. The depth intervals will be selected to provide sufficient coverage between 0 and 19 feet below the final top surface of the cuttings within the trench. Upon approval of the Form 27, TEP will collect the proposed samples and analyze them for the Table 915-1 constituents.
2 COAs	

### Best Management Practices

<b>No BMP/COA Type</b>	<b>Description</b>
1 Planning	<ul style="list-style-type: none"> <li>• Prior to submittal of the Application for Permit to Drill Form 2 and the Oil and Gas Location Assessment (Form 2A), TEP conducted meetings with the Bureau of Land Management, Colorado Parks and Wildlife (CPW), and Rio Blanco County. These meetings were held to discuss TEP's proposed development plan for the Federal RGU 44-1-298 pad and associated support facilities. Changes were made to the proposed development plan based on feedback received from all stakeholders and included in the application.</li> <li>• The development plan for the Federal RGU 44-1-298 pad was prepared to minimize surface impacts to the greatest extent possible through the development of multiple wells from one existing location by utilizing directional drilling technology and utilizing existing facilities and infrastructure where possible, which minimizes the surface area needed to conduct operations on the Oil and Gas Location.</li> <li>• Existing infrastructure operated by TEP will be utilized for transportation of natural gas and produced water to minimize the surface disturbance required for tying into gathering facilities.</li> </ul>
2 Pre-Construction	<ul style="list-style-type: none"> <li>• Prior to commencement of construction activities, TEP will hold a pre-construction meeting with contractors to review proposed site construction and installation of stormwater control measures.</li> </ul> <p>The site will be staked for construction prior to the preconstruction meeting. Staking will identify the boundaries of the proposed site to protect existing vegetation in areas that should not be disturbed.</p>
3 General Housekeeping	<ul style="list-style-type: none"> <li>• Any chemicals used will be kept to a minimum;</li> <li>• Any chemical or hydrocarbon spills will be cleaned up immediately in accordance with established company procedures;</li> <li>• All materials will be stored in a neat and orderly manner in their appropriate containers; and</li> <li>• TEP will follow manufacturers' recommendations and company policies for proper use and disposal of products.</li> </ul>

4	Wildlife	<ul style="list-style-type: none"> <li>• TEP will inform and educate all employees and contractors on wildlife conservation practices, including no harassment or feeding of wildlife;</li> <li>• TEP will install a proposed water pipeline from the Oil and Gas Location to TEP's existing water management system to minimize truck traffic to the location and minimize potential impact to wildlife;</li> <li>• TEP will minimize direct impacts to wildlife habitat by utilizing existing infrastructure and disturbance corridors whenever possible;</li> <li>• Well telemetry equipment will be installed to minimize site visitation through remote monitoring of production operations;</li> <li>• During post-development production operations, TEP will make best efforts to minimize operations at this location during winter months (December 1 – April 30) by minimizing operations, when possible, to between 9:00 am to 4:00 pm;</li> <li>• Stormwater control measures will be in place during all phases of development (construction, drilling, completions, interim reclamation, and production) to control stormwater runoff in a manner that minimizes erosion, transportation of sediment offsite, and site degradation and to minimize potential downstream impacts on aquatic sportfish;</li> <li>• During installation of the proposed pipelines, stormwater control measures will be implemented to avoid and/or minimize potential off-site migration of sediment. Stormwater control measures such as straw bales or straw wattles will be utilized at drainage crossings to avoid or minimize potential sedimentation within aquatic high priority habitat;</li> <li>• Reclamation of pipeline corridors at drainage crossing will be completed immediately following completion of pipeline installation to minimize potential impacts to aquatic wildlife.</li> <li>• Spill response equipment will be provided on site during drilling and completion operations. Additional spill response equipment will be staged at a nearby location that can be accessed quickly as needed during drilling and completion operations as well as during long-term production operations.</li> <li>• Site lighting shall be shielded and directed downward, inward, away from the nearby areas where wildlife may be present, and toward operations to avoid glare on nearby roads or wildlife areas</li> </ul>	
5	Wildlife	<p>TEP and CPW have agreed to evaluate potential mitigation projects within the northwest region of Colorado that could be used to off-set direct and indirect impacts to mule deer. If TEP and CPW agree to a compensatory mitigation project(s), TEP will submit a sundry to amend this Wildlife Mitigation Plan detailing the relevant plan components described under Rule 1203.b.(1). To ensure the Director has adequate time to review the revised mitigation plan, TEP will submit the sundry a minimum of 30 days prior to the payment due date described in COGCC Rule 1203.c., or 60 days prior to submittal of the Form</p> <p>42</p>	

6	Storm Water/Erosion Control	<ul style="list-style-type: none"> <li>• Stormwater control measures will be in place during all phases of development (construction, drilling, completions, interim reclamation, and production) to control stormwater runoff in a manner that minimizes erosion, transportation of sediment offsite, and site degradation;</li> <li>• Stormwater control measures will include perimeter controls and site degradation control measures; these will include a minimum 1.5-foot compacted earthen perimeter berm around the entire working pad surface and around the cuttings trench in the northwest portion of the well pad; topsoil will be stockpiled near the west end of the location within the disturbance area; there will be a system of exterior diversion ditches around the entire Oil and Gas Location; these diversion ditches will be fitted with rock check dams and will tie into one (1) sediment catchment basins along the eastern edges of Oil and Gas Location; site degradation control measures will include grading, slope stabilization (seeding, mulching, surface roughening of the topsoil stockpile), straw wattles along the toe of all fill slopes, and the use of gravel and road base materials for surfacing; wattles will be placed around the entire perimeter of the topsoil stockpile to minimize potential for loss of organic materials;</li> <li>• Outlet protection should be used when a conveyance discharges onto a disturbed area where there is potential for accelerated erosion due to concentrated flow;</li> <li>• TEP will conduct stormwater inspections immediately after storm events;</li> <li>• Bi-weekly inspection of the pad and stormwater control measures (berms, ditches, sediment basins), and the cuttings trench (berms and precipitation buildup); when necessary, precipitation within the cuttings trench will be pumped out and sent into the TEP proposed produced water management system for disposal;</li> <li>• Stream Crossing and Road Construction - TEP will ensure that control measures are designed, installed, and adequately sized in accordance with good engineering, hydrologic, and pollution control practices; and</li> <li>• Documentation / Stormwater Management Plan - if it is infeasible to install or repair a control measure immediately after discovering a deficiency, TEP will document and keep on record in the stormwater management plan: (a) a description of why it is infeasible to initiate the installation or repair immediately; and (b) a schedule for installing or repairing the control measure and returning it to an effective operating condition as soon as possible.</li> <li>• A post-construction stormwater program will be developed for the facility as required per Rule 1002.f.(3). Stormwater control is also addressed under a field-wide Stormwater Management Plan.</li> </ul>
---	-----------------------------	--

7	Storm Water/Erosion Control	<p>Topsoil short term stabilization  Proper stockpile construction (e.g., away from drainages, with 2:1 slopes, proper heights, and control measures downgradient) and management should help preserve the chemical and biological integrity of topsoil. According to site conditions, the following BMPs may be used to stabilize topsoil stockpiles in the initial phase of construction.</p> <ul style="list-style-type: none"> <li>• Protection from Contamination: based on changes in physical characteristics (e.g., organic content, color, texture, density, or consistency), soil horizons will be segregated and stockpiled separately; stockpiles of different soil types will be separated by compacted earthen berms, sediment control logs, straw bale barriers, etc.; and stockpile surfaces will be stabilized to control for erosion and sedimentation.</li> <li>• Protection from Compaction: topsoil stockpiles will be indicated on site with signage; stockpiles will be placed in areas away from vehicle and equipment traffic; and when stockpiling, compaction will be minimized by limiting the number of equipment passes, limiting stockpile height, and using vegetation.</li> <li>• Protection from Wind Erosion: surface roughening, applying hydro-seed/mulch, using soil tackifier, covering stockpiles with rolled erosion control products, etc.</li> <li>• Protection from Water Erosion: surface roughening, applying hydro-seed/mulch, using soil tackifier, covering stockpiles with rolled erosion control products, etc.</li> <li>• Weed Establishment Prevention: TEP uses cultural, mechanical, biological, and chemical controls to prevent the establishment of weeds. TEP's complete Weed Control plan is included in Requirement 12 below.</li> </ul>
---	-----------------------------	---

8	Material Handling and Spill Prevention	<p>Waste Management:</p> <ul style="list-style-type: none"> <li>•TEP will properly characterize and dispose of all waste streams at facilities approved for acceptance of each waste stream;</li> <li>•TEP will properly characterize and dispose of all waste at the appropriate specific landfill/waste disposal location that allows for acceptance of the particular waste stream.</li> <li>•No offsite disposal of cuttings to another Oil and Gas Location shall occur without prior approval of an amended Waste Management Plan specifying disposal location and waste characterization method; commercial disposal of drill cuttings and drilling fluids will only require the operator to maintain documentation (manifests, bills of lading) of drill cuttings and drilling fluids disposal; the operator will implement measures (covers, misting) in trucks to reduce dust and particulate matter (PM) emissions during transport of water-based muds, solids, and drill cuttings materials from the well pad location;</li> <li>•A closed loop drilling system will be employed;</li> <li>•The moisture content of any water/bentonite-based drilling mud (WBM) generated cuttings will be minimized through good engineering practices and mechanical processes to prevent the accumulation of liquids greater than de minimis amounts;</li> <li>•All cuttings generated during drilling will be managed within the proposed cuttings trench prior to disposition;</li> <li>•Solids control and separation equipment will be utilized to separate WBM-generated cuttings solids from liquids (water/bentonite drilling mud);</li> <li>•In the event that the drill cuttings analytically demonstrate constituents above able 915-1 standards, the cuttings will be remediated prior to interim reclamation activities to levels below all applicable standards of Table 915-1 or are within background limits; No liners will be used of disposed of cuttings trench;</li> <li>•Any trash generated during the project will be disposed of properly at a commercial disposal facility</li> </ul>
---	--	---

<p>9 Material Handling and Spill Prevention</p>	<p>Fluid Leak Detection:</p> <ul style="list-style-type: none"> <li>•Audio, Visual, and Olfactory (AVO) inspections: AVO inspections will be conducted monthly at the Oil and Gas Location throughout the life of the facility;</li> <li>•Routine inspection of all production equipment, wellheads, temporary equipment, etc.;</li> </ul> <p>Routine inspections to be conducted at the Oil and Gas Location will include: Routine physical inspections of production equipment (by TEP production personnel); Air Compliance inspections and monitoring (by TEP Air Compliance staff); SPCC Inspections (by 3rd party contractor), Storm Water Management inspections (by 3rd party contractor), and continuous, dedicated SCADA monitoring of fluid production rates and pressures, and fluid storage volumes (by TEP production personnel);</p> <ul style="list-style-type: none"> <li>•As part of our LDAR, STEM, OOOOa inspection / compliance programs, TEP will adhere to the use of Approved Instrument Monitoring Methods (AIMM) for inspecting production equipment and facilities at the Oil and Gas Location;</li> <li>•Spill prevention training is provided to all field employees on a monthly basis. The monthly training consists of reviewing past incidents, root causes of the incidents, and what specific actions (lessons learned) could be taken to prevent the reoccurrence of such incidents in the future;</li> <li>•Flowlines will be integrity-tested per the 1100 Series rules;</li> <li>•TEP spill response procedures will be adhered to for any spills or releases occurring at the Oil and Gas Location. All spills will be managed in accordance with the COGCC 900 Series rules;</li> <li>•Leak Detection and Repair (LDAR) inspections are performed at all locations; however, the inspection frequency is tiered based upon the level of emission controls that are required / employed at each location.</li> <li>•Storage Tank Emission Monitoring (STEM) inspections are performed monthly at any location where emissions must be controlled (&gt; 2 tpy).</li> <li>•OOOOa inspections are performed semi-annually on any facility constructed after 2015.</li> <li>•Flare Logs are completed daily for all locations where active flares and emissions controls are required.</li> <li>•Spill prevention training will be provided to all field employees on an annual basis;</li> <li>•Any leaks or spills detected during monitoring will be reported within 24 hours in accordance with Rule 912.b;</li> <li>•Annual flowline integrity testing will occur according to COGCC rules 1101 and 1102. Inspection and record retention of flowline testing will be in accordance per COGCC regulation; all records will be made available to the COGCC upon request;</li> <li>•All load lines will be bull plugged or capped;</li> <li>•All on-location flowlines will be inspected and tested per Rule 1104;</li> <li>•All equipment deficiencies will be corrected immediately or as soon as practical (all identified problems and corrections/repairs will be documented and records will be maintained in the TEP's office);</li> <li>•TEP will track and clean up all spills, including those that are not reportable;</li> <li>•TEP will temporarily shut in all production wells on the pad in the event of any upset condition;</li> <li>•All piping is pressure tested and inspected for leaks prior to flowback; and</li> <li>•Automation technology will be utilized at this location; this technology includes the use of fluid level monitoring for the tanks and high-level shut offs.</li> </ul>
---	--

10	Material Handling and Spill Prevention	<p>An impermeable polyethylene liner will be installed beneath the hydraulic fracturing equipment and manifold used during completion operations. The use of this liner prevents recycled produced water, hydrocarbons, fluids, and other fluid additives from reaching the soil in the unlikely event a leak does occur.</p> <p>Additionally, frac tanks will be placed within a polyethylene lined secondary containment to ensure containment of produced water in the event of a release. The liner is inspected for integrity throughout completion operations and maintenance/repair to the liner occurs as needed.</p> <p>The Federal RGU 44-1-298 pad will include construction of a perimeter berm around the entire working pad surface of the Oil and Gas Location. Additionally, a drive over berm will be constructed at the entrance to the Oil and Gas Location.</p> <p>All proposed produced water tanks and condensate tanks on the Federal RGU 44-1-298 pad will be located within a secondary containment structure designed to meet the requirements of Rule 603</p>
11	Material Handling and Spill Prevention	<p>Dedicated Continuous Monitoring (SCADA): New Oil and Gas Locations are also equipped with Supervisory Control and Data Acquisition (SCADA) monitoring technology which enables remote monitoring of individual well attributes (e.g., well-head pressures, casing pressures, production/sales volumes, etc.)</p>
12	Dust control	<p>Dust control measures will be implemented as required per COGCC Rule 427.b-c. Only fresh water (potable or non-potable) will be used to conduct dust suppression activities within 300 feet of the ordinary high-water mark of any water body. On average, TEP estimates that approximately 500 bbls / well of fresh water will be used to control dust during drilling operations.</p>

13	Dust control	<ul style="list-style-type: none"> <li>•Pad / Road Construction: Fresh water will be periodically applied to disturbance areas during construction to minimize fugitive dust;</li> <li>•TEP will not use produced water or other process fluids for dust suppression;</li> <li>•During High Wind: Contractor will monitor wind conditions during site construction; during wind events in excess of 13 miles per hour, TEP construction contractors will apply freshwater from an approved source to the disturbance area of the pad, road, or pipeline corridor to minimize or mitigate propagation of fugitive dust; accessibility and worker safety will be considered prior to application; during periods of sustained high winds over 20 miles per hour, TEP construction contractors may temporarily suspend work to minimize potential for migration of fugitive dust, ensure worker safety, and to minimize impacts to public health, safety, welfare, the environment, and wildlife;</li> <li>•Road Surfacing: The existing lease road will be graveled during site construction to ensure there is sufficient gravel on the road to minimize fugitive dust;</li> <li>•Speed Restrictions: TEP has implemented speed restrictions on all lease roads and requires all TEP employees and contractors to adhere to all posted speed restrictions;</li> <li>•Road Maintenance: During long-term production operations, TEP will conduct annual inspections of the existing road and will perform maintenance actions as necessary to ensure road integrity and minimize fugitive dust. Road maintenance actions may include, but not limited to, regrading, spot graveling, storm water control maintenance, and application of magnesium chloride (MgCl<sub>2</sub>) and / or fresh water;</li> <li>•Site Visitation: TEP will utilize telemetry equipment to minimize well site visitation, when possible, to reduce fugitive dust from vehicles traveling the dirt / gravel roads;</li> <li>•When / if sand / proppant is used during completion operations, an enclosed sand storage and delivery system will be utilized to eliminate possible fugitive sand dust emissions; and</li> <li>•Topsoil and stockpiled soils will be stabilized through either tackifiers, seeding practices, or erosion control blankets.</li> </ul>
14	Construction	<ul style="list-style-type: none"> <li>• Protection from Contamination: based on changes in physical characteristics (e.g., organic content, color, texture, density, or consistency), soil horizons will be segregated and stockpiled separately; stockpiles of different soil types will be separated by compacted earthen berms, sediment control logs, straw bale barriers, etc.; and stockpile surfaces will be stabilized to control for erosion and sedimentation.</li> <li>• Protection from Compaction: topsoil stockpiles will be indicated on site with signage; stockpiles will be placed in areas away from vehicle and equipment traffic; and when stockpiling, compaction will be minimized by limiting the number of equipment passes, limiting stockpile height, and using vegetation.</li> <li>• Protection from Wind Erosion: surface roughening, applying hydro-seed/mulch, using soil tackifier, covering stockpiles with rolled erosion control products, etc.</li> <li>• Protection from Water Erosion: surface roughening, applying hydro-seed/mulch, using soil tackifier, covering stockpiles with rolled erosion control products, etc.</li> <li>• Weed Establishment Prevention: TEP uses cultural, mechanical, biological, and chemical controls to prevent the establishment of weeds. TEP's complete Weed Control plan is included</li> </ul>

15	Construction	<p>Topsoil Prior to separation and storage of the topsoil horizon, or top six (6) inches, from the well pad facility, proposed access road, and proposed pipeline corridor, woody vegetation will be mulched and stormwater control measures properly installed to control erosion and sedimentation during precipitation events. (The facility's stormwater management plan includes details on stormwater control measures planned for use.) When separating soil horizons, TEP will segregate each horizon based upon noted changes in physical characteristics, such as organic content, color, texture, density, or consistency.</p> <p>To control sedimentation, wattles will be properly installed around the base of topsoil stockpiles and a metal sign (11" x 17") with the wording "Topsoil Stockpile" will be placed on the east/SE (pad) side of the stockpile area. Upon completion of well pad construction activities, hydro-seed/mulch will be applied to topsoil stockpiles to stabilize the soils and promote the growth of desirable plants until interim reclamation can be completed.</p> <p>During construction of the proposed access road, TEP's excavation contractor will strip the topsoil horizon between the top of road cut and toe of road fill. Topsoil will be stripped to a depth no less than six inches (6") and windrowed above the top of cut and below the toe of fill of the proposed access road profile. Topsoil will be segregated from all other subsurface materials disturbed during access road construction and not topsoil will be used for building the location nor will be left in place and covered by subsoil in a cut and fill situation.</p> <p>During construction of the pipeline corridor, TEP's pipeline installation contractor will strip the topsoil horizon within the fifty-foot (50') construction pipeline right-of-way (ROW) width and place the material along the downhill side. Topsoil will be segregated from subsurface materials excavated during pipeline installation and stockpiled upslope of the trench.</p>	
16	Noise mitigation	<ul style="list-style-type: none"> <li>• Any operations involving the use of a drilling rig, workover rig, or fracturing and any equipment used in the drilling, completion, or production of a well are subject to and will comply with the Agricultural maximum permissible noise levels in Rule 423.a.(2).A. of 65 db(A) in the hours between 7:00 a.m. to 7:00 p.m. and 60 db(A) in the hours between 7:00 p.m. to 7:00 a.m.; and</li> <li>• If a noise complaint is made to either TEP directly, the COGCC, or the local government, and TEP is notified of the complaint, noise levels will be measured within 48 hours of receipt of the complaint; TEP will contact the concerned party (if contact information is available) to discuss the complaint and the results of the noise measurements.</li> </ul>	

17	Emissions mitigation	<ul style="list-style-type: none"> <li>• Per the Colorado Department of Public Health and Environment (“CDPHE”) Air Pollution Control Division (“APCD”) requirements, TEP will implement ambient air quality monitoring on site during drilling, completion, and the first six (6) months of production operations; an air monitoring plan will be submitted 60 days prior to start of drilling operations;</li> <li>• TEP will properly maintain vehicles and equipment;</li> <li>• Other than safety devices, TEP will use non-emitting pneumatic controllers;</li> <li>• TEP will have adequate and committed pipeline take away capacity for all produced gas;</li> <li>• TEP will install equipment designed specifically to aid in the mitigation of VOC emissions from this location; this equipment includes emission control devices (ECDs) and tank load out controls; if one of these pieces of equipment is not operational, facility controls will automatically shut-in the pad until the equipment is back on-line;</li> <li>• Test separators and associated flowlines, sand traps, and emission control systems will be installed onsite to accommodate green completions techniques.</li> <li>• Venting/Flaring - TEP will not flare or vent gas during completion or flowback, except in upset or emergency conditions, or with prior written approval from the Director for necessary maintenance operations.</li> <li>• Flowback and stimulation fluids will be sent to enclosed tanks, separators, or other containment/filtering equipment before the fluids are placed into any pipeline storage vessel, other open top containment located on the well pad, or into tanker trucks for offsite disposal; no open top tanks will be used for initial flowback fluids containment</li> </ul>
18	Odor mitigation	<ul style="list-style-type: none"> <li>• Water/bentonite-based mud (WBM) drill cuttings are circulated up the annulus and through the rig flowline to a mud-gas separator, where any gas entrained in the mud is separated and flows off the separator’s overhead to an internal combustion device; the drill cuttings then flow with the drilling mud over two sets of drying shakers and then through a centrifuge to further dry the cuttings; the dried cuttings are placed into steel bins where they are temporarily stored on location prior to placement into the cuttings trench;</li> <li>• If odor complaints are received and it is determined that they are caused by the drilling fluids, then an odor neutralizing agent or similar product will be added to the system to eliminate the odor; and</li> <li>• Hydrocarbon odors from production facilities will be minimized by keeping produced fluid hydrocarbons and natural gas contained within pipes, separators, tanks, and combustors; all tanks will be sealed with thief hatches and gaskets; tank vapors will be captured with properly sized piping and combustors.</li> </ul>
19	Drilling/Completion Operations	<ul style="list-style-type: none"> <li>• Recycled produced water will be utilized for well completion operations minimizing the amount of fresh water required for development of the proposed wells on this location:</li> <li>• Locally sourced fresh water will be used to minimize fugitive dust during construction, drilling, completion, and production operations:</li> <li>• TEP will use pipelines to transport water for hydraulic fracturing to and from location;</li> <li>• TEP will recycle or beneficially reuse flowback and produced water for use downhole; and</li> <li>• Only fresh water (potable or non-potable) will be used to conduct dust suppression activities within 300 feet of the ordinary high-water mark of any water body.</li> </ul>
20	Interim Reclamation	<ul style="list-style-type: none"> <li>• The seed bed will be prepared on all topsoiled areas to alleviate compaction and minimize the potential for erosion.</li> <li>• Topsoiled areas will be planted with desirable species or a seed mixture provided by the surface owner for this particular location.</li> <li>• Protection from Wind and Water Erosion: topsoiled areas will be covered with a certified weedfree mulch at an application rate specified by the product’s manufacturer, or a specification sheet that follows good engineering practices.</li> <li>• Weed Establishment Prevention: TEP uses cultural, mechanical, biological, and chemical controls to prevent the establishment of weeds. TEP’s complete Weed Control plan is included</li> </ul>

21	Interim Reclamation	<p>Interim reclamation  Interim reclamation: When drilling and completion operations and recontouring of the site are complete (as described in the Interim Reclamation Plan), all topsoil will be moved from the stockpile area and placed over the facility's cut and fill slopes to ensure long term topsoil health, including protection from erosion, prevention of weed establishment, and maintenance of soil microbial activity until final reclamation. The following BMPs will be used after topsoil placement is complete on cut and fill slopes.</p> <ul style="list-style-type: none"> <li>• The seed bed will be prepared on all topsoiled areas to alleviate compaction and minimize the potential for erosion.</li> <li>• Topsoiled areas will be planted with desirable species or a seed mixture provided by the surface owner for this particular location.</li> <li>• Protection from Wind and Water Erosion: topsoiled areas will be covered with a certified weed-free mulch at an application rate specified by the product's manufacturer, or a specification sheet that follows good engineering practices.</li> <li>• Weed Establishment Prevention: TEP uses cultural, mechanical, biological, and chemical controls to prevent the establishment of weeds. TEP's complete Weed Control plan is included below in Requirement 12.</li> </ul> <p>Final reclamation: During final reclamation, topsoil will be stripped from cut and fill slopes and stockpiled during final recontouring of the facility. BMP practices listed in the short-term stabilization will be used. Once recontouring is complete, topsoil will be moved from the stockpile area and placed over surfaces recontoured for final reclamation. The following BMPs will be used after topsoil placement is complete on finally reclaimed surfaces.</p> <ul style="list-style-type: none"> <li>• The seed bed will be prepared on all topsoiled areas to alleviate compaction and minimize the potential for erosion.</li> <li>• Topsoiled areas will be planted with desirable species or a seed mixture provided by the surface owner for this particular location.</li> <li>• Protection from Wind and Water Erosion: topsoiled areas will be covered with a certified weed-free mulch at an application rate specified by the product's manufacturer, or a specification that follows good engineering practices.</li> <li>• Weed Establishment Prevention: TEP uses cultural, mechanical, biological, and chemical controls to prevent the establishment of weeds. TEP's complete Weed Control plan is included</li> </ul>
----	---------------------	--

22	Final Reclamation	<ul style="list-style-type: none"> <li>• The seed bed will be prepared on all topsoiled areas to alleviate compaction and minimize the potential for erosion.</li> <li>• Topsoiled areas will be planted with desirable species or a seed mixture provided by the surface owner for this particular location.</li> <li>• Protection from Wind and Water Erosion: topsoiled areas will be covered with a certified weedfree mulch at an application rate specified by the product's manufacturer, or a specification that follows good engineering practices.</li> <li>• Weed Establishment Prevention: TEP uses cultural, mechanical, biological, and chemical controls to prevent the establishment of weeds. TEP's complete Weed Control plan is included</li> <li>• The Oil and Gas Location will be re-contoured to blend as nearly as possible with the natural topography during site reclamation. All subsoil and topsoil separated and segregated during site construction will be replaced to a uniform depth during reclamation recontouring operations.</li> <li>• The Oil and Gas Location will be reseeded by drill, broadcast, or hydroseed methods. Drill seeding will be utilized wherever soil characteristics and slope allow for effective operation of a rangeland seed drill.</li> <li>• TEP will use a seed mix approved by the surface owner.</li> <li>• Erosion control will be implemented per the Stormwater Management Plan included in the Form 2A for this location and will be inspected and maintained as required by Federal, State, and Local regulations.</li> <li>• Noxious weeds which may be introduced due to soil disturbance during reclamation will be treated in accordance with applicable Federal, State, and local regulations.</li> <li>• Site reclamation will occur within six (6) months following well completion operations.</li> <li>• The areas identified to be interim reclaimed will be re-contoured to blend as nearly as possible with the natural topography during site reclamation; all topsoil will be moved from the stockpile area and placed over the facility's cut and fill slopes to a uniform depth to ensure long term topsoil health including protection from erosion, prevention of weed establishment, and maintaining soil microbial activity until final reclamation;</li> <li>• The seed bed will be prepared on all topsoiled areas to alleviate compaction and minimize the potential for erosion; and</li> <li>• Topsoiled areas will be planted with desirable species or a seed mixture provided by the Surface Owner for this particular location.</li> </ul>
----	-------------------	--

Total: 22 comment(s)

## Attachment List

<u>Att Doc Num</u>	<u>Name</u>
2101360	WILDLIFE DETERMINATION SUMMARY
2101363	DIRECTOR'S RECOMMENDATION
402525732	FORM 2A SUBMITTED
403282637	OTHER
403282638	FEDERAL ENVIRONMENTAL ANALYSIS
403282640	LOCATION PICTURES
403282642	LAYOUT DRAWING
403282643	GEOLOGIC HAZARD MAP
403282644	CONSULTATION SUMMARY
403282645	PRELIMINARY PROCESS FLOW DIAGRAMS
403282646	DIRECTIONAL WELL PLAT
403282647	CULTURAL FEATURES MAP
403282648	CPW WAIVER
403282649	REFERENCE AREA PICTURES
403282650	OTHER
403282651	OTHER
403282652	REFERENCE AREA MAP
403282653	OIL AND GAS LOCATION GIS SHP
403282655	ACCESS ROAD MAP
403282656	HYDROLOGY MAP
403282657	NRCS MAP UNIT DESC
403282658	OTHER
403282659	OTHER
403381300	LESSER IMPACT AREA EXEMPTION REQUEST
403381303	WILDLIFE HABITAT DRAWING
403381323	LOCATION DRAWING
403381325	RELATED LOCATION AND FLOWLINE MAP

Total Attach: 27 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
OGLA	OGDP ID# 484436 and this Form are approved by Commission Order Number 348-5	09/08/2023
OGLA	The Director has determined that the OGD application that this Form is a component of and conditionally meets all requirements of Rule 306.a. The Director's Recommendation has been attached to the Form 2A.	08/11/2023
OGLA	Updated Waste Management Plan provided by operator on 8/9/2023 uploaded to Form 2A.	08/11/2023
OGLA	Rule 309.e.(5).D.ii waiver was obtained from CPW and TEP requests an exemption from Rule 1202.c.(1).S from the Director. The Director granted the request for the Rule 1202.c.(1) exemption.	08/11/2023
OGLA	Request for deviation from the Rule 1201.c.(10).C inspection frequency granted by Director with alternative BMP provided.	08/11/2023
CPW	CPW has concluded its wildlife consultation for this location pursuant to the 300 and 1200 series rules. A detailed wildlife determination summary document has been provided to COGCC staff for attachment to this permit application. Additionally, all operator-submitted wildlife best management practices have been adopted by CPW. CPW has no outstanding issues or objections to this Form2A application being approved.  Taylor Elm - May 31, 2023	05/31/2023
OGLA	The Director has determined this OGD application is complete. Form pushed to IN PROCESS.	05/12/2023
OGLA	TEP is requesting a modified inspection frequency from Rule 1202.a.(10).C for this Oil and Gas Location. Inspection at this location will occur daily for the first 6 – 9 months of production operations. Inspection frequency will then drop to once per week (minimum) for the remaining life of the wells. This modification to the inspection frequency is necessary to minimize potential impacts to mule deer. Daily inspection would increase the level of long-term activity at the Oil and Gas Location. TEP will be implementing remote monitoring on all wells and production facilities at this Oil and Gas Location to minimize site visitation and potential impacts to mule deer.	05/12/2023
OGLA	Operator requested Rule 304.d Lesser Impact Area (LIA) exemption from Rule 304.c.(2) Noise Mitigation Plan. The exemption request is based on noise impacts being so minimal as to cause no concern. The proposed location is in a mule deer winter concentration area and mule deer severe winter range. CPW supports the request based plans to schedule operations outside of the winter stipulations. Request granted by Director.	05/12/2023
OGLA	Operator requested Rule 304.d Lesser Impact Area (LIA) exemption from Rule 304.c.(3) Light Mitigation Plan. The exemption request is based on light impacts being so minimal as to cause no concern. The proposed location is in a mule deer winter concentration area and mule deer severe winter range. CPW supports the request based plans to schedule operations outside of the winter stipulations. Request granted by Director.	05/12/2023
OGLA	Returned to Draft on 4/19/2023 to allow operator to address issues identified in completeness review.	04/19/2023

Total: 11 comment(s)