

FORM
2A

Rev
01/21

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

402578943

(SUBMITTED)

Date Received:

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:

Expiration Date:

☒ New Location ☐ Refile ☐ Amend Existing Location # _____

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

Docket Number

210500082

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

<No existing OGDP number provided>

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: PO BOX 370

City: PARACHUTE State: CO Zip: 81635

Contact Information

Name: Jeff Kirtland

Phone: (970) 263-2736

Fax: ()

email: jkirtland@terraep.com

FINANCIAL ASSURANCE

- ☐ Plugging and Abandonment Bond Surety ID (Rule 706): _____ ☐ Gas Facility Surety ID (Rule 711): _____
- ☐ Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: FEDERAL Number: WMC 24-17

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.

QuarterQuarter: SESW Section: 17 Township: 7S Range: 93W Meridian: 6 Ground Elevation: 8868

Latitude: 39.439076 Longitude: -107.799611

GPS Quality Value: 2.6 Type of GPS Quality Value: PDOP Date of Measurement: 07/28/2020

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: GARFIELD 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? No

A siting permit application has been submitted to the Relevant Local Government for this proposed Oil and Gas Location: No

Date Relevant Local Government permit application submitted: _____

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

Status/disposition date: _____

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: Kirby Winn

Contact Phone: (970) 625-5905

Contact Email: kwynn@garfield-county.com

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: Yes

Date submitted: 10/30/2020

Current status or disposition of the Federal drilling permit (or related siting application) for this proposed Oil and Gas Location: Approved

Status/disposition Date: 01/14/2021

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: Jim Byers

Contact Phone: 970-876-9056

Contact Email: jbyers@blm.gov

Field Office: Bureau of Land Management - CRVO

Additional explanation of local and/or federal process:

TEP Rocky Mountain LLC (TEP) received approved Federal APDs granting right to construct the oil and gas location, and received approved Right-of-Way grants granting access to off-lease wells, use of access roads, and the installation and construction of pipelines from the Bureau of Land Management (BLM) issued with the approval of the Environmental Assessment DOI-CO-G020-2021-0001-EA following analysis under the National Environmental Policy Act (NEPA) in accordance with 42 U.S.C. § 4321 et seq.

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: 04/20/2021

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

Date of federal consultation: 08/18/2020

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 Mgmt-CRVO Phone: 970-876-9000
 Address: 2300 River Frontage Rd. Fax: _____
 Address: _____ Email: _____
 City: Silt State: CO Zip: 81652

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: No

Lease description if necessary: BLM ROW COC 80316 - SE4SW4 of Section 17, Township 7S, Range 93W

SITE EQUIPMENT LIST

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

Wells	<u>17</u>	Oil Tanks	<u>0</u>	Condensate Tanks	<u>2</u>	Water Tanks	<u>0</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>18</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>1</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
Solar Powered Chemical Pumps	<u>5</u>
500 gal Chemical Tanks	<u>4</u>
80 bbl Vent Tank	<u>1</u>
135 gal Chemical Tank	<u>1</u>
80 bbl Blowdown Tank	<u>1</u>
Meter Skid	<u>1</u>

OTHER TEMPORARY EQUIPMENT

Temporary Equipment Type	Number
Low Pressure P-Tank - Flowback	<u>1</u>
Water Pump - Flowback	<u>1</u>
500 bbl Enclosed Water Tanks - FB	<u>3</u>
Enclosed Combustion Device - FB	<u>1</u>
HP 4-Phase Separators - Flowback	<u>2</u>

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 Installations:

1 - 8" steel gas pipeline (approx. 2855') from the WMC 24-17 pad to a tie in point with an existing 8" gas pipeline at the RU 23-17 pad.

1 - 4" Flexpipe water line (approx. 2892') from the separators to a tie in point with an existing 4" waterline at the RU 23-17 pad.

5 - 4.5" temporary steel surface frac Lines (approx. 7654') from the RU 44-7 pad to the WMC 24-17 pad.

On Location Installations:

17 - 2" coated steel wellhead flowlines (approx. 100' each)

1 - 2" coated steel condensate dump line (approx. 85')

1 - 2" coated steel fuel gas line (rig fuel, approx. 100')

1 - 2" coated steel flowline (blowdown, approx. 85')

1 - 2" coated steel flowline (waterline vent, approx. 85')

1 - 4" aluminum surface vent flowline (ECD, approx. 85')

1 - 1" steel gas flowline (ECD, approx 60')

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):				
				604.b. (1)	604.b. (2)	604.b. (3)	Details of Condition(s)	604.b. (4)
Building:	4168 Feet		E					
Residential Building Unit (RBU):	5280 Feet		S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
High Occupancy Building Unit(HOBU)	5280 Feet		N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Designated Outside Activity Area:	5280 Feet		E					
Public Road:	5280 Feet		SE					
Above Ground Utility:	5280 Feet		NE					
Railroad:	5280 Feet		NW					
Property Line:	102 Feet		S					
School Facility:	5280 Feet		N					
Child Care Center:	5280 Feet		N					
Disproportionately Impacted (DI) Community:	5280 Feet		S					
RBU, HOBU, or School Facility within a DI Community.	5280 Feet		N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

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	0	0	0
Residential Building Units	0	0	0

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: 4.89

Size of location after interim reclamation in acres: 1.08

Estimated post-construction ground elevation: 8869

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 Resource Program (CRP)

Non-Crop Land: ☒ Rangeland ☐ Forestry ☒ Recreation ☐ Other

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Describe the current land use:

The property in the immediate vicinity of this proposed Oil and Gas Location is primarily used for cattle grazing but is also periodically used for recreation, including hunting. The surface owner does not intend to modify the current land use. Therefore, the final land use designation will remain as rangeland / recreational.

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

Garfield County zoning data has the area classified as Zone District PL (Public Lands).

Describe any applicable Federal land use designation:

The Federal land use designation is rangeland / recreational.

FINAL LAND USE

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

Crop Land: ☐ Irrigated ☐ Non-Irrigated ☐ Conservation Resource 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 land use designation is currently 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. The surface owner does not intend to modify the current land use.

Reference Area Latitude: 39.439940

Reference Area Latitude: -107.799974

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

Plant Community	Dominant vegetation
Shrub Land	Serviceberry
Shrub Land	Snowberry
Shrub Land	Mountain Mahogany
Shrub Land	Sagebrush
Shrub Land	Gambel Oak

Noxious weeds present: No

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: 12-Bucklon-Inchau complex, 25 to 50 percent slopes

NRCS Map Unit Name: 71-Villa Grove-Zoltay loams, 15 to 30 percent slopes

NRCS Map Unit Name: 17-Cochetopa loam, 9 to 50 percent slopes

GROUNDWATER AND WATER WELL INFORMATION

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

water well: 5798 Feet W

Spring or Seep: 823 Feet NE

Estimated depth to shallowest groundwater that can be encountered at this Oil and Gas Location: 100 Feet

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

The closest permitted water well (permit #184747) is located 5,798 feet to the west of the location, as measured from the working pad surface, and would not provide accurate information on the depth to groundwater. The water well was permitted and constructed as a domestic and livestock water well. Based on aerial photography review, the vegetative cover in the immediate vicinity of the proposed facility appears to consist of primarily bunch grasses, scrub oak, and juniper and does not indicate the presence of shallow groundwater. There was no visual evidence of any springs or seeps within the footprint of the location or within the immediate vicinity of the pad. The nearest spring (Twinky Bee Spring) is located approximately 823 feet to the northeast of the proposed facility. This spring is located approximately 350 feet lower in elevation than the proposed facility and is approximately 120 feet higher in elevation than the spring fed water well mentioned above.

SURFACE WATER AND WETLANDS

Provide the distance and direction to the nearest downgradient surface Waters of the State, as defined 184 Feet NW
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: 823 Feet NE

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

The nearest down gradient surface Waters of the State is approximate 184' west of the proposed pad location and is a low depression that may hold water for a short period of time during spring snow melt. This ponding area was evaluated by West Water Engineering for wetland characteristics and was determine to not be a wetlands. See the Wetlands Evaluation report for more details.

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

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

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? No

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 10/16/2020
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):

< No row provided >

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? No

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? No

Direct impact habitat mitigation fee amount: \$ _____

Indirect Impacts:

Is Compensatory Mitigation required per Rule 1203.d for this Oil and Gas Location? No

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? No

Indirect impact habitat mitigation fee amount: \$ _____

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	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.
5	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. During post-development production operations, TEP will make best efforts to minimize operations at this location during winter months by maximizing operations when possible between 10:00am to 3:00pm when wildlife activity minimal.
6	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.
7	CUTTHROAT TROUT	Wildlife - Minimization	TEP will utilize fresh water from Beaver Creek if available or potable water from a nearby source for dust suppression within cutthroat trout designated crucial habitat and native fish and other native aquatic species conservation waters. BLM has applied the following Site Specific COA for Cutthroat Trout Habitat: "If feasible, dust suppression in proximity to Beaver Creek shall utilize potable water from a nearby source instead of raw water to avoid the spread of disease organisms and aquatic nuisance species."
8	CUTTHROAT TROUT	Wildlife - Minimization	TEP will to stage a spill response trailer at the RU 31-12V pad adjacent to Beaver Creek, which will have supplies available for immediate response to spills or releases during operations on the Federal WMC 24-17 Pad.

AIR QUALITY MONITORING PROGRAM

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

Operator Proposed BMPs

No	BMP Target	CDPHE Recommendation	COGCC Action
1	Air		
	Description	Odor mitigation: operator will cover trucks transporting drill cuttings if transportation of drill cuttings is necessary.	
	CDPHE Comment		
2	Air		
	Description	Odor mitigation: Operator will ensure that all drilling fluid is removed from pipes before storage	
	CDPHE Comment		
3	Air		
	Description	Odor mitigation: operator will use a squeegee or other device to remove drilling fluids from pipes as they exit the wellbore	
	CDPHE Comment		

4	Air		
	Description	Odor mitigation: operator will use zero VOC (group III, low/negligible odor) drilling mud	
	CDPHE Comment		
5	Air		
	Description	Operator will implement ambient air quality monitoring on site	
	CDPHE Comment		
6	Air		
	Description	Operator will properly maintain vehicles and equipment	
	CDPHE Comment		
7	Air		
	Description	Operator will use non-emitting pneumatic controllers	
	CDPHE Comment		
8	Air		
	Description	Pipelines: Operator will have adequate and committed pipeline take away capacity for all produced gas and oil	
	CDPHE Comment		
9	Air		
	Description	Pipelines: Operator will use pipelines to transport water for hydraulic fracturing to and from location	
	CDPHE Comment		
10	Air		
	Description	Venting/Flaring: Operator will control bradenhead/casinghead venting	
	CDPHE Comment		
11	Air		
	Description	Venting/Flaring: Operator 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	
	CDPHE Comment		
12	Water		
	Description	CPGCC permit will incorporate other agency water quality protection plans by reference as applicable (e.g. stormwater management plan)	
	CDPHE Comment		
13	Water		
	Description	Documentation / stormwater management plan: If it is infeasible to install or repair a control measure immediately after discovering a deficiency, operator 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.	
	CDPHE Comment		
14	Water		
	Description	Down gradient controls: Operator will install adequate down gradient controls if they can not have a control at the source	
	CDPHE Comment		
15	Water		
	Description	Dust suppression: Operator will not use produced water or other process fluids for dust suppression	

	CDPHE Comment	
16	Water	
	Description	Operator will recycle or beneficially reuse flowback and produced water for use downhole
	CDPHE Comment	
17	Water	
	Description	Outfall locations: Outlet protection should be used when a conveyance discharges onto a disturbed area where there is potential for accelerated erosion due to concentrated flow. Outlet protection should be provided where the velocity at the culvert outlet exceeds the maximum permissible velocity of the material in the receiving channel.
	CDPHE Comment	
18	Water	
	Description	Stormwater inspections: Operator will conduct stormwater inspections immediately after storm event
	CDPHE Comment	
19	Water	
	Description	Stormwater inspections: Operator will conduct weekly stormwater inspections during normal operations
	CDPHE Comment	
20	Water	
	Description	Stream crossing and Road Construction: Operator will ensure that control measures are designed, installed and adequately sized in accordance with good engineering, hydrologic and pollution control practices
	CDPHE Comment	
21	Waste	
	Description	Operator will properly characterize and dispose of all waste (i.e. the specific landfill/waste disposal location allows for acceptance of the waste stream)
	CDPHE Comment	
22	PFAS	
	Description	If PFAS-containing foam is used at a location: operator will perform appropriate soil and water sampling to determine whether additional characterization is necessary and inform the need for and extent of interim or permanent remedial actions
	CDPHE Comment	
23	PFAS	
	Description	If PFAS-containing foam is used at a location: operator will properly capture and dispose of PFAS-contaminated soil and fire and flush water
	CDPHE Comment	
24	PFAS	
	Description	If PFAS-containing foam is used at a location: operator will properly characterize the site to determine the level, nature and extent of contamination
	CDPHE Comment	

PLANS

Total Plans Uploaded: 11

- ☒ (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 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 WMC 24-17 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 - This O&G Location in Garfield County is use by right and 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.

Gas Capture Plan - Will connect to a mid stream gas gathering system prior to commencement of production ops.

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.

Reference area pictures will be submitted at a later date to ensure they accurately depict vegetation during the peak growing season.

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

Signed: _____ Date: _____ Email: vschoeber@terraep.com

Print Name: Vicki Schoeber 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: _____

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.

COA Type

Description

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Best Management Practices

No BMP/COA Type

Description

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Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402666099	SURFACE AGRMT/SURETY
402700579	LESSER IMPACT AREA EXEMPTION REQUEST
402700584	OTHER
402700586	OTHER
402700588	FEDERAL ENVIRONMENTAL ANALYSIS
402700594	FED. DRILLING PERMIT
402700608	NRCS MAP UNIT DESC
402700610	LOCATION PICTURES
402700611	REFERENCE AREA MAP
402700617	DIRECTIONAL WELL PLAT
402700619	RELATED LOCATION AND FLOWLINE MAP
402700621	LOCATION DRAWING
402700625	CONSULTATION SUMMARY
402700643	304c5
402700644	304c7
402700645	304c11
402700652	304c13
402700653	304c14
402700654	304c15
402700656	304c16
402700657	304c17
402700658	304c18
402700670	WILDLIFE HABITAT DRAWING
402700677	HYDROLOGY MAP
402700699	ACCESS ROAD MAP
402700717	LOCATION AND WORKING PAD GIS SHP
402700730	OTHER
402700967	304c1
402700969	304c19
402700975	CULTURAL FEATURES MAP
402700977	LAYOUT DRAWING
402700989	PRELIMINARY PROCESS FLOW DIAGRAMS
402701100	SENSITIVE AREA DATA
402701107	GEOLOGIC HAZARD MAP
402701115	OTHER

Total Attach: 35 Files

SUBMITTED