

FORM  
2A

Rev  
08/19

# 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:

401991715

**(SUBMITTED)**

Date Received:

## Oil and Gas Location Assessment

New Location     Refile     Amend Existing Location    Location#: 335260

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 <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**335260**

Expiration Date:

This location assessment is included as part of a permit application.

### CONSULTATION

- This location is included in a Comprehensive Drilling Plan. CDP # \_\_\_\_\_
- This location is in a sensitive wildlife habitat area.
- This location is in a wildlife restricted surface occupancy area.
- This location includes a Rule 306.d.(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: Vicki Schoeber  
 Phone: (970) 263-2721  
 Fax: ( )  
 email: vschoeber@terraep.com

### FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID (Rule 706): 20160057     Gas Facility Surety ID (Rule 711): \_\_\_\_\_
- Waste Management Surety ID (Rule 704): \_\_\_\_\_

### LOCATION IDENTIFICATION

Name: Chevron    Number: GR 12-29  
 County: GARFIELD  
 Quarter: LOT 3    Section: 29    Township: 6S    Range: 96W    Meridian: 6    Ground Elevation: 5849

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 1530 feet FNL from North or South section line  
788 feet FWL from East or West section line

Latitude: 39.498189    Longitude: -108.139035

PDOP Reading: 3.2    Date of Measurement: 04/01/2019

Instrument Operator's Name: Dayton Slaugh

### LOCAL GOVERNMENT INFORMATION

County: GARFIELD    Municipality: N/A

Per § 34-60-106 (1)(f)(I)(A), the following questions pertain to the "local government with jurisdiction to approve the siting of the proposed oil and gas location."

The local government with jurisdiction is: County \_\_\_\_\_

Does the local government with jurisdiction regulate the siting of Oil and Gas Locations, with respect to this COGCC application? If the local government has waived its right to precede the COGCC in siting determination, indicate by selecting "NO" here and selecting "Waived" below.  Yes  No

If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location.

The local government siting permit type is: \_\_\_\_\_

The local government siting permit was filed on: \_\_\_\_\_

The disposition of the application filed with the local government is: \_\_\_\_\_

Additional explanation of local process:

TEP Rocky Mountain LLC has contacted Garfield County, the local government with jurisdiction over the siting of this proposed oil and gas location and determined that per the Garfield County Land Use and Development Code, Table 3-403, "Oil and Gas Drilling and Production" and "Hydraulic Fracturing, Remote Surface Location" are a use by right or Exempt from Land Use Regulation at this site. Garfield County's disposition is not required for the purposes of this submittal.

## 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 #
Well Site is served by Production Facilities		402035184

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	18	Oil Tanks*	_____	Condensate Tanks*	_____	Water Tanks*	_____	Buried Produced Water Vaults*	_____
Drilling Pits	_____	Production Pits*	_____	Special Purpose Pits	_____	Multi-Well Pits*	_____	Modular Large Volume Tanks	_____
Pump Jacks	_____	Separators*	21	Injection Pumps*	_____	Cavity Pumps*	_____	Gas Compressors*	_____
Gas or Diesel Motors*	_____	Electric Motors	_____	Electric Generators*	_____	Fuel Tanks*	_____	LACT Unit*	_____
Dehydrator Units*	_____	Vapor Recovery Unit*	_____	VOC Combustor*	_____	Flare*	_____	Pigging Station*	_____

## OTHER FACILITIES\*

Other Facility Type	Number
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300 bbl blowdown tank	1
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\*Those facilities indicated by an asterisk (\*) shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

5-4.5" steel temporary surface frac lines (approx. 8,786') will be installed following the road and existing pipeline ROWs from the GR 14-28 pad (ID #335152) to the GR 12-29 pad for remote frac operations.

Proposed Pipelines include 1-8" gas pipeline (approx. 2,650'), 1-4" flexpipe water pipeline (approx. 5,735'), and 3-2" flexpipe condensate lines (approx. 2,575'). 18-2" steel flowlines will be installed between the wells and the separators, and 1-2" flexpipe water dump line will be installed between the separators and the blowdown tank.

## CONSTRUCTION

Date planned to commence construction: 12/01/2019 Size of disturbed area during construction in acres: 2.91  
Estimated date that interim reclamation will begin: 07/01/2021 Size of location after interim reclamation in acres: 1.32  
Estimated post-construction ground elevation: 5849

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H<sub>2</sub>S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) 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: OFFSITE Cuttings Disposal Method: Commercial Disposal

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: \_\_\_\_\_

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Chevron USA, Inc.

Phone: \_\_\_\_\_

Address: 1400 Smith Street, Room 47170

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: Houston State: TX Zip: 77002

Surface Owner:  Fee  State  Federal  Indian

Check all that apply. The Surface Owner:  is the mineral owner

is committed to an oil and Gas Lease

has signed the Oil and Gas Lease

is the applicant

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

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

The right to construct this Oil and Gas Location is granted by: Surface Use Agreement

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

Date of Rule 306 surface owner consultation \_\_\_\_\_

If this Form 2A is associated with Drilling and Spacing Unit applications, list docket number(s): \_\_\_\_\_

## CURRENT AND FUTURE LAND USE

Current Land Use (Check all that apply):

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP

Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_

Subdivided:  Industrial  Commercial  Residential

Future Land Use (Check all that apply):

- Crop Land:  Irrigated     Dry land     Improved Pasture     Hay Meadow     CRP
- Non-Crop Land:  Rangeland     Timber     Recreational     Other (describe): \_\_\_\_\_
- Subdivided:  Industrial     Commercial     Residential



## CULTURAL DISTANCE INFORMATION

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	4336 Feet	4018 Feet
Building Unit:	4489 Feet	4170 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	4590 Feet	4338 Feet
Above Ground Utility:	4585 Feet	4335 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	187 Feet	294 Feet
School Facility::	5280 Feet	5280 Feet
School Property Line:	5280 Feet	5280 Feet
Child Care Center:	5280 Feet	5280 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, Designated Outside Activity Area, School Facility, and Child Care Center – as defined in 100 Series Rules.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(\*) on the Facilities Tab.

## SCHOOL SETBACK INFORMATION

Was Notice required under Rule 305.a.(4)?  Yes  No

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:

- Buffer Zone
- Exception Zone
- Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.
- Large UMA Facility – as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: \_\_\_\_\_

## FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*
- By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

## SOIL

List all soil map units that occur within the proposed location. attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 52—Parachute loam, 25 to 65 percent slopes

NRCS Map Unit Name: 66—Torriorthents-Camborthids-Rock outcrop complex,

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

### PLANT COMMUNITY:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes  No

Plant species from:  NRCS or,  field observation Date of observation: 06/28/2018

List individual species: Bull Thistle, Houndstongue

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- Alpine (above timberline)
- Other (describe): \_\_\_\_\_

## WATER RESOURCES

Is this a sensitive area:  No  Yes

Distance to nearest

downgradient surface water feature: 148 Feet

water well: 4478 Feet

Estimated depth to ground water at Oil and Gas Location 100 Feet

Basis for depth to groundwater and sensitive area determination:

Attached SAD Checklist

Is the location in a riparian area:  No  Yes

Was an Army Corps of Engineers Section 404 permit filed  No  Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No zone:

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: \_\_\_\_\_

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

Federal (FEMA)

State

County

Local

Other \_\_\_\_\_

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

## WILDLIFE

This location is included in a Wildlife Mitigation Plan

This location was subject to a pre-consultation meeting with CPW held on 04/08/2019

### 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 - Minimization	The operator will implement Rule 1204.a.1 (also see General Operating Recommendations).
3	Deer and Elk	Wildlife - Minimization	The operator agrees to preclude the use of aggressive CPW-identified non-native grasses and shrubs in mule deer and elk habitat restoration.
4	Deer and Elk	Wildlife - Minimization	The operator agrees to reclaim mule deer and elk habitats with CPW-identified native shrubs, grasses, and forbs appropriate to the ecological site disturbed.

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area

Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)

- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

**RULE 502.b VARIANCE REQUEST**

Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

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

**OPERATOR COMMENTS AND SUBMITTAL**

Comments TEP Rocky Mountain LLC (TEP) is proposing to drill, complete and operate 16 new wells from this existing location which currently has 2 producing wells.

The GR 14-28 pad (Loc ID #335152, Form 4 Doc # 402179706) will be utilized as a remote frac location for the Chevron GR 12-29 pad.

The GM Chevron Tank Facility (Facility ID #452926, Form 2A Doc #402035184) will be expanded to support long term storage of condensate produced from the proposed wells on the Chevron GR 12-29 pad. Produced water will be piped to existing TEP water infrastructure near the GR 14-28 pad.

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.

<u>COA Type</u>	<u>Description</u>

**Best Management Practices**

No	BMP/COA Type	Description
1	Planning	<p>Prior to submittal of the Application for Permit to Drill (BLM-APD/COGCC-Form 2) and the Oil and Gas Location Assessment (COGCC-Form 2A), TEP conducted onsite and meetings with the Bureau of Land Management (BLM), Colorado Parks and Wildlife, and the associated private landowners. These onsites and meetings were held to discuss TEP's proposed development plan for the GR 12-29 pad and associated support facilities. Changes were made to the proposed development plan based on feedback received from all stakeholders and included in the APD.</p> <p>The development plan for the GR 12-29 pad was prepared to minimize surface impacts to the greatest extent possible through the development of multiple wells from one location by utilizing directional drilling technology, collocating access road and utilities corridors within the same area, and through the transportation of fluids to a centralized storage location at the GM Chevron Tank Facility (Fac ID #452926) and the Starkey Production Pit (Fac ID #414554) minimizing the surface area needed to conduct operations on the GR 12-29 pad location.</p>
2	Pre-Construction	<p>Prior to commencement of construction activities, TEP will hold a pre-construction meeting with contractors to review proposed construction activities and installation of stormwater control measures. The site will be staked for construction prior to a pre-construction 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	<p>Storage of material and fluids on location during drilling, completion, and production operations will be conducted in a neat and orderly manner with regards to potential fire hazards on site. All garbage and trash will be stored in enclosed bear proof trash containers and transported to an approved disposal facility periodically and upon completion of construction, drilling, and completion operations on the location. No garbage or trash will be disposed of on location. The well site and access road will be kept free of trash and debris at all time. Disposal of garbage and trash will occur approximately once per week during drilling and completions operations.</p>
4	Wildlife	<p>The GR 12-29 pad is located within Mule Deer Critical Winter Range sensitive wildlife habitat boundary as currently mapped per COGCC geospatial data. The access road to the GR 12-29 pad traverses through Mule Deer Critical Winter Range and Elk Winter Concentration Area sensitive wildlife habitat as currently mapped per COGCC geospatial data. 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. TEP has consulted with CPW and BLM and will be providing compensatory mitigation to offset impact to wildlife (including Mule Deer) for operation which may occur within the Big Game Winter Range Timing Limitation (BLM lease stipulation), beginning January 1st and ending March 1st annually. Please see CPW Correspondence attached to the APD for additional details.</p> <p>TEP agrees to report any bear conflicts immediately to CPW. TEP will implement COGCC Rule 1204.a.1 by utilizing bear proof dumpsters and trash receptacles for all food related trash. TEP will preclude from the use of aggressive CPW-identified non-native grasses and shrubs in mule deer and elk habitat and will reclaim the site using CPW-identified native shrubs, grasses and forbs appropriate to the ecological site disturbed.</p>
5	Storm Water/Erosion Control	<p>Stormwater BMP's will be in place during all phases of development to control stormwater runoff in a manner that minimizes erosion, transportation of sediment offsite, and site degradation. Stormwater BMP's will include perimeter controls such as sediment traps, diversion ditches, check dams, waddles, and others control measures necessary to control stormwater run-on and run-off and minimized offsite movement of sediment. Stormwater BMP's will also include site degradation control measures such as grading, slope stabilization methods (i.e. seeding, mulching, surface roughening), perimeter berms, surfacing materials (i.e. gravel), and others necessary to minimize site degradation. Stormwater controls will be installed with consideration given to worker safety, wildlife, and site access. A post-construction stormwater program will be developed for the facility as required per Rule 1002.f.(3). Stormwater is also addressed under a field-wide Stormwater Management Plan (CDPHE Certification COR404626). See the construction layout for the planned stormwater BMP's proposed for installation at the site for further details.</p>

6	Dust control	Fugitive dust control measures will be employed during all phase of development to minimize dust pollution. Dust control measures include but are not limited to the application of fresh water via water truck along access road during construction, drilling, and completion operations, speed restrictions, periodic road maintenance, road surfacing (i.e. gravel), and automation of wells to reduce truck traffic. Dust control measures will be employed on an as needed based during all phases of development.
7	Construction	All construction equipment and materials will be contained within the proposed limits of the oil and gas location, access roads, or pipeline corridors. Topsoil will be stripped from the site and segregated from subsoil for reuse during pad reclamation. Fugitive dust control measures will be implemented as described in the dust control section of this document.
8	Emissions mitigation	Dual fuel generators will be utilized during drilling operations to minimize air emission associated with the use of diesel fuel. Green completion practices will be employed to reduce emissions of gas and condensate vapor utilizing separators, tanks, sand traps, and other facilities to minimize emissions.
9	Drilling/Completion Operations	Closed loop drilling system will be utilized during drilling of all wells at this location. TEP will utilized remote centralized hydraulic fracturing operations during well completion operations minimizing un-necessary traffic and activities at the pad location. TEP will ensure 110 percent secondary containment for any volume of fluids contained at the well site during drilling and completions operations.
10	Interim Reclamation	<p>Onsite production facilities will be minimized on the oil and gas location by transporting fluids off-site via pipelines and managing fluids at existing facilities. One (1) four-inch (4") water pipeline will be installed from the pad to the Starkey Production Pit to minimize operational activities on the GR 12-29 pad. Additionally, three (3) two-inch (2") condensate pipelines will be installed from the GR 12-29 pad to the GM Chevron Tank Facility to further minimize operational activities on the GR 12-29 pad and centrally locate similar operations in one location. This will also reduce vehicle traffic to the location, and minimize the overall disturbance footprint at the GR 12-29 pad. Additionally, remote telemetry equipment will be installed on location to minimize site visitation and truck traffic.</p> <p>Exclusionary devices will be installed to prevent bird and other wildlife from accessing equipment stacks, vents, and openings. 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. Soil amendments may be added to topsoil during reclamation actives to promote vegetation growth.</p>

Total: 10 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402034826	LOCATION PICTURES
402034827	REFERENCE AREA PICTURES
402034830	NRCS MAP UNIT DESC
402034833	NRCS MAP UNIT DESC
402168138	SURFACE AGRMT/SURETY
402184032	MULTI-WELL PLAN
402184034	LOCATION DRAWING
402184036	OTHER
402184037	REFERENCE AREA MAP
402184038	HYDROLOGY MAP
402184040	ACCESS ROAD MAP
402184041	CONST. LAYOUT DRAWINGS
402184043	OTHER
402184044	FACILITY LAYOUT DRAWING
402184046	OTHER
402184052	CORRESPONDENCE
402184054	OTHER
402184055	SENSITIVE AREA DATA
402184056	WASTE MANAGEMENT PLAN

Total Attach: 19 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

**Public Comments**

No public comments were received on this application during the comment period.

