

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:

402060368

(SUBMITTED)

Date Received:

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: 335569

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:

335569

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): _____
- Gas Facility Surety ID (Rule 711): _____
- Waste Management Surety ID (Rule 704): _____

LOCATION IDENTIFICATION

Name: FEDERAL Number: RWF 21-18
 County: GARFIELD
 Quarter: NENW Section: 18 Township: 6S Range: 94W Meridian: 6 Ground Elevation: 6162

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: 1181 feet FNL from North or South section line
970 feet FWL from East or West section line

Latitude: 39.528815 Longitude: -107.934801

PDOP Reading: 2.6 Date of Measurement: 08/22/2017

Instrument Operator's Name: J. KIRKPATRICK

LOCAL GOVERNMENT INFORMATION

County: GARFIELD Municipality: N/A

CONSTRUCTION

Date planned to commence construction: 10/01/2019 Size of disturbed area during construction in acres: 3.08
Estimated date that interim reclamation will begin: 10/01/2020 Size of location after interim reclamation in acres: 0.79
Estimated post-construction ground elevation: 6162

DRILLING PROGRAM

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

Is H₂S 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: ONSITE Cuttings Disposal Method: Drilling pit

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: 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: 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: No

The right to construct this Oil and Gas Location is granted by: oil and gas lease

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:	5280 Feet	5280 Feet
Building Unit:	5280 Feet	5280 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	348 Feet	49 Feet
Above Ground Utility:	3822 Feet	3345 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	1856 Feet	1491 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: 66-Torriorthentis-Camborthids-Rock outcrop complex,

NRCS Map Unit Name: _____

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: 07/24/2018

List individual species:

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: 150 Feet

water well: 8420 Feet

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

Basis for depth to groundwater and sensitive area determination:

Attached Sensitive Area Determination.

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 06/25/2018

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.

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 Rule 907.e.(1)

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) requests approval of a variance under Rule 502.b from Rule 907.e.(1) to obtain permission to transport drill cuttings to the Federal RWF 21-18 pad (Loc ID# 335569) from the Federal PA 44-13 pad (Loc ID # 457469). TEP's variance request letter and Waste Management Plan for the RWF 21-18 pad are attached to this application.

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

Best Management Practices

No	BMP/COA Type	Description
1	Planning	<p>Prior to submittal of the COGCC Form 2A, TEP conducted onsite meetings with the Bureau of Land Management (BLM), Colorado Parks and Wildlife, and the associated private landowners. These onsite meetings were held to discuss TEP's proposed development plan for the drilling pit planned on the RWF 21-18 pad. Changes were made to the proposed development plan based on feedback received from all stakeholders and included in the COGCC Form 2A, Oil and Gas Location Assessment. The RWF 21-18 pad was included as part of the Balzac Gulch Phase 2 Master Development Plan Environmental Assessment, which was approved by the BLM on September 4, 2018.</p> <p>The development plan for the RWF 21-18 pad was prepared to minimize surface impacts to the greatest extent possible utilizing an existing oil and gas location. During discussion with BLM it was mentioned that utilizing this site would ultimately reduce the steep slopes along the cut side of the pad and improve reclamation of the site long-term. The minimal new disturbance begin proposed along the east side of the pad was also agree upon during the onsites to improve reclamation of the location.</p> <p>Planned operation on the RWF 21-18 pad are detailed in the Proposed Drill Cuttings Management Plan. Please refer to this document for specific details related to transportation of drill cuttings from the PA 44-13 Pad to the proposed drilling pit on the RWF 21-18 pad and the management of drill cuttings on this location.</p>

2	Pre-Construction	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. The site will be staked for construction prior to pre-construction meeting. Staking will identify the boundaries of the proposed site to protect existing vegetation in areas that should not be disturbed.
3	General Housekeeping	All garbage and trash will be stored in enclosed bear proof trash containers and transported to an approved disposal facility. 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.
4	Wildlife	<p>The RWF 21-18 pad location is not located within any CPW mapped sensitive wildlife habitat boundaries or within any mapped restricted surface occupancy areas. However, BLM will be imposing a Timing Limitation ("TL") for Big Game Winter Range from December 1st through April 30th annually. TEP is currently planning to construct and operate this facility for cuttings disposal activities outside the TL for Big Game Winter Range. In the event that construction activities on the RWF 21-18 pad are projected to extend into the TL for Big Game Winter Range, TEP will consult with BLM and CPW and provide compensatory mitigation to offset impacts to Big Game.</p> <p>TEP agrees to report any bear conflicts immediately to CPW. TEP will implement 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	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 COR404624).
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, and road surfacing (i.e. gravel). 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 or access roads. A 2.5' high berm will be constructed along the eastern edge of the drilling pit to ensure containment of cuttings within the drilling pit and to minimize stormwater entering the drilling pit. Topsoil will be stripped from all proposed disturbance areas of 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 above.
8	Drilling/Completion Operations	Planned operation on the RWF 21-18 pad are detailed in the Proposed Drill Cuttings Management Plan. Please refer to this document for specific details related to transportation of drill cuttings from the PA 44-13 Pad to the proposed drilling pit on the RWF 21-18 pad and the management of drill cuttings on this location.
9	Interim Reclamation	<p>Please refer to the Proposed Drill Cuttings Management Plan for details on the proposed drill cuttings sampling program and final placement of cuttings for disposal prior to pad reclamation activities.</p> <p>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: 9 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
402060422	NRCS MAP UNIT DESC
402060423	SENSITIVE AREA DATA
402060424	LOCATION PICTURES
402060425	REFERENCE AREA PICTURES
402060432	OTHER
402060497	ACCESS ROAD MAP
402060500	CONST. LAYOUT DRAWINGS
402060505	HYDROLOGY MAP
402060512	REFERENCE AREA MAP
402122069	OTHER
402122072	WASTE MANAGEMENT PLAN
402122105	VARIANCE REQUEST
402143765	LOCATION DRAWING

Total Attach: 13 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.

