

FORM  
2A

Rev  
08/13

# 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:

400983106

**(SUBMITTED)**

Date Received:

## Oil and Gas Location Assessment

New Location     Refile     Amend Existing Location    Location#: 324381

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:

**324381**

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

### RECLAMATION FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID: 20160057     Gas Facility Surety ID: \_\_\_\_\_
- Waste Management Surety ID: \_\_\_\_\_

### LOCATION IDENTIFICATION

Name: CHEVRON    Number: TR 24-21-597  
 County: GARFIELD  
 Quarter: SESW    Section: 21    Township: 5S    Range: 97W    Meridian: 6    Ground Elevation: 8292

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: 690 feet FSL from North or South section line  
1862 feet FWL from East or West section line

Latitude: 39.593805    Longitude: -108.285824

PDOP Reading: 1.9    Date of Measurement: 05/14/2013

Instrument Operator's Name: J. Kirkpatrick

## 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 #

## FACILITIES

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

Wells	<u>15</u>	Oil Tanks*	<u>        </u>	Condensate Tanks*	<u>3</u>	Water Tanks*	<u>5</u>	Buried Produced Water Vaults*	<u>        </u>
Drilling Pits	<u>        </u>	Production Pits*	<u>        </u>	Special Purpose Pits	<u>        </u>	Multi-Well Pits*	<u>        </u>	Modular Large Volume Tanks	<u>        </u>
Pump Jacks	<u>        </u>	Separators*	<u>17</u>	Injection Pumps*	<u>        </u>	Cavity Pumps*	<u>        </u>	Gas Compressors*	<u>        </u>
Gas or Diesel Motors*	<u>        </u>	Electric Motors	<u>        </u>	Electric Generators*	<u>        </u>	Fuel Tanks*	<u>        </u>	LACT Unit*	<u>        </u>
Dehydrator Units*	<u>        </u>	Vapor Recovery Unit*	<u>        </u>	VOC Combustor*	<u>1</u>	Flare*	<u>        </u>	Pigging Station*	<u>        </u>

## OTHER FACILITIES\*

Other Facility Type

Number

<u>Other Facility Type</u>	<u>Number</u>

\*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:

New 8" gas line will be installed. 2-4" water lines will be buried with gas line and tie into existing infrastructure. Pipeline work will stay within existing road and ROW disturbance.

## CONSTRUCTION

Date planned to commence construction: 11/01/2016 Size of disturbed area during construction in acres: 5.22  
Estimated date that interim reclamation will begin: 10/19/2017 Size of location after interim reclamation in acres: 1.20  
Estimated post-construction ground elevation: 8293

## 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: 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:         

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Chevron USA, Inc. Phone: 713-372-0821  
 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: oil and gas lease

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

Date of Rule 306 surface owner consultation 08/04/2016

### 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:	<u>5280</u> Feet	<u>5280</u> Feet
Building Unit:	<u>5280</u> Feet	<u>5280</u> Feet
High Occupancy Building Unit:	<u>5280</u> Feet	<u>5280</u> Feet
Designated Outside Activity Area:	<u>5280</u> Feet	<u>5280</u> Feet
Public Road:	<u>5280</u> Feet	<u>5280</u> Feet
Above Ground Utility:	<u>5280</u> Feet	<u>5280</u> Feet
Railroad:	<u>5280</u> Feet	<u>5280</u> Feet
Property Line:	<u>659</u> Feet	<u>689</u> 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, and Designated Outside Activity Area - as defined in 100-Series Rules.  
 - For measurement purposes only, Production Facilities should only include those items with an asterisk(\*) on the Facilities Tab.

## 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 (onl 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 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: 55 - Parachute-Irigul complex, 5 to 30 percent slopes

NRCS Map Unit Name: 56 - Parachute-Irigul-Phone association, 25 to 50 percent slopes

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: 10/03/2013

List individual species: Cheatgrass, wheatgrass, sage, aspen, juniper

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: 1139 Feet

water well: 17876 Feet

Estimated depth to ground water at Oil and Gas Location 60 Feet

Basis for depth to groundwater and sensitive area determination:

See 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

**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 Existing location - 14 new wells and 1 existing well.

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 Application for Permit-to-Drill complies with COGCC Rules and applicable orders 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

COA Type	Description

## Best Management Practices

### No BMP/COA Type

### Description

1	Planning	<ul style="list-style-type: none"><li>• To the extent practicable, share and consolidate new corridors for pipeline rights-of-way and roads to minimize surface disturbance.</li><li>• Engineer new pipelines to reduce field fitting and reduce excessive right-of-way widths and therefore subsequent reclamation requirements.</li><li>• Plan new transportation networks and new oil and gas facilities to minimize surface disturbance and the number and length of oil and gas roads through the utilization of common roads, rights of way, and access points to the extent practicable.</li></ul>
2	General Housekeeping	<ul style="list-style-type: none"><li>• Post speed limits and caution signs to the extent allowed by surface owners, Federal and state regulations, local government, and land use policies, as appropriate.</li><li>• Use remote monitoring of well production to the extent practicable.</li><li>• Maintain pre and post development site inspection records and monitor operations for compliance.</li><li>• Ensure that staging, refueling, and chemical storage areas are established outside of riparian zones and floodplains, as appropriate.</li><li>• Store and stage emergency spill response equipment at strategic locations so that it is available to expedite effective spill response.</li></ul>

3	Wildlife	<ul style="list-style-type: none"> <li>• Install and maintain adequate measures to exclude birds and big game from all fluid pits to the greatest extent possible (e.g. fencing, netting, and other appropriate exclusionary measures).</li> <li>• Construct fluid pit fences and nets that are capable of withstanding animal pressure and environmental conditions and that are appropriately sized for the wildlife encountered.</li> <li>• Skim and eliminate oil from produced water ponds and fluid pits at a rate sufficient to prevent oiling of birds or other wildlife that could gain access to the pit and as consistent with COGCC skimming requirements.</li> <li>• Treat fresh water pits and any associated pit containing water that provides a medium for breeding mosquitoes with Bti (<i>Bacillus thuringiensis v. israelensis</i>) or other similar products, or take other effective action to control mosquito larvae that may spread West Nile Virus to wildlife, especially grouse.</li> <li>• Reclaim reserve pits as quickly as practical after drilling and completions to ensure that pit contents do not offer the possibility of unnecessary environmental liability to the environment or local biota.</li> </ul>
4	Construction	<ul style="list-style-type: none"> <li>• Use minimum practical construction widths for new rights-of-way where pipelines cross riparian areas, streams, and critical habitats, where possible.</li> <li>• Perform routine inspections of netting and pit liner systems to ensure proper function and condition for preventative maintenance and incident deterrence.</li> <li>• Strip and segregate topsoil prior to construction. Appropriately configure topsoil piles and seed as immediate as practicable to control erosion, prevent weed establishment and maintain soil microbial activity.</li> <li>• Where allowed by the surface owner, mow or brushhog vegetation for temporary staging areas where appropriate, leaving root structure intact, instead of scraping the surface.</li> </ul>
5	Drilling/Completion Operations	<ul style="list-style-type: none"> <li>• Minimize rig mobilization and demobilization where practicable by completing or recompleting all wells from a given well pad before moving rigs to a new location.</li> <li>• Maximize the use of directional drilling to minimize habitat loss/fragmentation.</li> </ul>
6	Interim Reclamation	<ul style="list-style-type: none"> <li>• Commensurate with the language set forth in the surface agreement, interim and final reclamation shall be performed as early as practical and to the greatest extent possible.</li> <li>• Apply a weed management plan. Utilize an adaptive management strategy that permits effective response(s) to monitored findings and reflects local site geography and conditions.</li> <li>• Perform interim reclamation on all disturbed areas not needed for active support of production operations consistent with applicable timing restrictions and requirements.</li> <li>• Control listed noxious weeds in areas surrounding reclamation areas, as reasonable, in order to reduce weed competition.</li> <li>• Educate employees and contractors about weed issues.</li> <li>• Utilize GIS technologies to assess the initial and final extent of disturbance and document reclamation progression.</li> </ul>

Total: 6 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401015340	NRCS MAP UNIT DESC
401095206	SENSITIVE AREA DATA
401099067	ACCESS ROAD MAP
401099069	HYDROLOGY MAP
401099070	MULTI-WELL PLAN
401099071	REFERENCE AREA MAP
401101628	LOCATION PICTURES
401101630	OTHER
401101631	REFERENCE AREA PICTURES
401101632	REFERENCE AREA PICTURES
401101633	CONST. LAYOUT DRAWINGS
401101635	LOCATION DRAWING

Total Attach: 12 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)