

FORM  
2

Rev  
05/22

# State of Colorado

## Energy & Carbon Management Commission

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



Document Number:

403559286

**(SUBMITTED)**

Date Received:

12/20/2023

### APPLICATION FOR PERMIT TO

Drill     Deepen     Re-enter     Recomplete and Operate    Amend

TYPE OF WELL    OIL     GAS     COALBED     OTHER: \_\_\_\_\_    Refile

ZONE TYPE    SINGLE ZONE     MULTIPLE ZONES     COMMINGLE ZONES     Sidetrack

Well Name: FEDERAL    Well Number: RGU 444-6-297

Name of Operator: TEP ROCKY MOUNTAIN LLC    COGCC Operator Number: 96850

Address: 1058 COUNTY ROAD 215

City: PARACHUTE    State: CO    Zip: 81635

Contact Name: Melissa Luke    Phone: (970)263-2721    Fax: ( )

Email: mluke@terraep.com

### FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

#### COGCC Financial Assurance

The Operator has provided or will provide Financial Assurance to the COGCC for this Well.

Surety ID Number (if applicable): 20160057

#### Federal Financial Assurance

In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for this Well. (Per Rule702.a.)

Amount of Federal Financial Assurance \$ \_\_\_\_\_

### WELL LOCATION INFORMATION

#### Surface Location

QtrQtr: Lot 18    Sec: 6    Twp: 2S    Rng: 97W    Meridian: 6

Footage at Surface: 2409 Feet FSL    2228 Feet FWL

Latitude: 39.904720    Longitude: -108.325360

GPS Data:    GPS Quality Value: 1.9    Type of GPS Quality Value: PDOP    Date of Measurement: 07/22/2021

Ground Elevation: 6219

Field Name: SULPHUR CREEK    Field Number: 80090

Well Plan: is  Directional     Horizontal (highly deviated)     Vertical

If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.

#### Subsurface Locations

Top of Productive Zone (TPZ)

Sec: 6    Twp: 2S    Rng: 97W    Footage at TPZ: 503    FSL    656    FEL

Measured Depth of TPZ: 9000    True Vertical Depth of TPZ: 8442    FNL/FSL    FEL/FWL

Base of Productive Zone (BPZ)

Sec: 6 Twp: 2S Rng: 97W Footage at BPZ: 503 FSL 656 FEL
Measured Depth of BPZ: 12780 True Vertical Depth of BPZ: 12222 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 6 Twp: 2S Rng: 97W Footage at BHL: 503 FSL 656 FEL
FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: RIO BLANCO Municipality: N/A

Is the Surface Location of this Well in an area designated as one of State interest and subject to the requirements of § 24-65.1-108 C.R.S.? No

Per § 34-60-106(1)(f)(I)(A) C.R.S., the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas Location.

SB 19-181 provides that when "applying for a permit to drill," operators must include proof that they sought a local government siting permit and the disposition of that permit application, or that the local government does not have siting regulations. § 34-60-106(1)(f)(I) (A) C.R.S.

Does the Relevant Local Government regulate the siting of Oil and Gas Locations, with respect to this Location? [X] Yes [ ] No

[X] 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 disposition of the application filed with the Relevant Local Government is: Approved Date of Final Disposition: 07/07/2022

Comments:

SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS LOCATION

Surface Owner of the land at this Well's Oil and Gas Location: [ ] Fee [ ] State [X] Federal [ ] Indian

Mineral Owner beneath this Well's Oil and Gas Location: [ ] Fee [ ] State [X] Federal [ ] Indian

Surface Owner Protection Bond (if applicable): Surety ID Number (if applicable):

MINERALS DEVELOPED BY WELL

The ownership of all the minerals that will be developed by this Well is (check all that apply):

- [ ] Fee
[ ] State
[X] Federal
[ ] Indian
[ ] N/A

LEASE INFORMATION

Using standard QtrQtr, Section, Township, Range format describe one entire mineral lease as follows:

\* If this Well is within a unit, describe a lease that will be developed by the Well.
\* If this Well is not subject to a unit, describe the lease that will be produced by the Well.
(Attach a Lease Map or Lease Description or Lease if necessary.)

Please see lease map

Total Acres in Described Lease: Described Mineral Lease is: [ ] Fee [ ] State [X] Federal [ ] Indian

Federal or State Lease # COC62046

**SAFETY SETBACK INFORMATION**

Distance from Well to nearest:

Building: 5280 Feet  
Building Unit: 5280 Feet  
Public Road: 308 Feet  
Above Ground Utility: 481 Feet  
Railroad: 5280 Feet  
Property Line: 4421 Feet

**INSTRUCTIONS:**

- Specify all distances per Rule 308.b.(1).
- 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 – as defined in 100 Series Rules.

**OBJECTIVE FORMATIONS**

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
WILLIAMS FORK	WMFK			

Federal or State Unit Name (if appl): \_\_\_\_\_

Unit Number: \_\_\_\_\_

**SUBSURFACE MINERAL SETBACKS**

Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 656 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 354 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: \_\_\_\_\_ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: \_\_\_\_\_ Feet

**Exception Location**

If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers. \_\_\_\_\_

**SPACING & FORMATIONS COMMENTS**

\_\_\_\_\_

## DRILLING PROGRAM

Proposed Total Measured Depth: 12780 Feet

TVD at Proposed Total Measured Depth 12222 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:

Enter distance if less than or equal to 1,500 feet: \_\_\_\_\_ Feet  No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If yes, attach an H<sub>2</sub>S Drilling Plan unless a plan was already submitted with the Form 2A per Rule 304.c.(10).

Will there be hydraulic fracture treatment at a depth less than 2,000 feet in this well? No

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

BOP Equipment Type:  Annular Preventor  Double Ram  Rotating Head  None

Beneficial reuse or land application plan submitted? No

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



## CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	30	20	X65	78.67	0	80	230	80	0
SURF	17+1/2	13+3/8	J55	54.5	0	1240	411	1259	0
1ST	12+1/4	9+5/8	J55	36.0	0	2940	160	3106	2062
2ND	8+3/4	4+1/2	P110	11.6	0	12222	993	12780	7237

Conductor Casing is NOT planned

## POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	Top M.D.	Top T.V.D.	Bottom M.D.	Bottom T.V.D.	TDS (mg/L)	Data Source	Comment
Groundwater	UINTA	30	30	652	650	501-1000	Produced Water Sample	
Groundwater	GREEN RIVER	652	650	804	800	501-1000	Produced Water Sample	
Subsurface Hazard	A GROOVE	804	800	1008	1000			
Subsurface Hazard	B GROOVE	1008	1000	1323	1300			
Subsurface Hazard	DISSOLUTION SURFACE	1323	1300	2301	2200			POSSIBLE LOSS ZONE
Confining Layer	GARDEN GULCH	2301	2200	2475	2360			
Confining Layer	ORANGE MARKER	2475	2360	2562	2440			
Confining Layer	UPPER WASATCH	2562	2440	5401	5050			
Hydrocarbon	TOP OF G SAND	5401	5050	5683	5310			POSSIBLE LOSS ZONE
Hydrocarbon	FORT UNION	5683	5310	6543	6100			
Confining Layer	LOWER WASATCH	6543	6100	7437	6922			
Hydrocarbon	OHIO CREEK	7437	6922	8194	7642			POSSIBLE LOSS ZONE
Hydrocarbon	UPPER MESAVERDE	8194	7642	9000	8442			
Hydrocarbon	TOP GAS	9000	8442	10570	10012			
Hydrocarbon	CAMEO COALS	10570	10012	11300	10742			
Hydrocarbon	ROLLINS	11300	10742	11450	10892			
Hydrocarbon	COZZETTE	11450	10892	11775	11217			
Hydrocarbon	CORCORAN	11775	11217	12035	11477			
Hydrocarbon	UPPER SEGO	12035	11477	12280	11722			
Hydrocarbon	LOWER SEGO	12280	11722	12780	12222			

## OPERATOR COMMENTS AND SUBMITTAL

Comments: Nearest offset well producing from the same lease and permitted or completed in the same formation: Federal RGU 544-6-297 (Doc #403559344).

OGDP application (Docket# 221200375) was approved on 08/23/2023, Form 2A (Doc# 402932511) approved on 09/11/2023.

This application is in a Comprehensive Area Plan       No       CAP #:                     

Oil and Gas Development Plan Name       Ryan Gulch Phase 3       OGDP ID#:       484436      

Location ID:       335602

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

Signed: \_\_\_\_\_ Print Name: Melissa Luke

Title: Regulatory Specialist Date: 12/20/2023 Email: mluke@terraep.com

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules, applicable orders, and SB 19-181 and is hereby approved.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

API NUMBER

05

### Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

COA Type                      Description

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

### Best Management Practices

No BMP/COA Type                      Description

<u>No BMP/COA Type</u>	<u>Description</u>
1 Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on this pad will be logged with an open-hole resistivity log with gamma-ray, from TD into the surface casing. All wells on the pad will have a cement bond log (CBL) with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The Form 5, Completion Report, for each well on the pad will list all logs run and have those logs attached. The Form 5 for a well without open-hole logs will state "Alternative Logging Program - No open-hole logs were run" and will clearly identify the type of log and the well (by API#) in which open-hole logs were run.

Total: 1 comment(s)

### Attachment List

Att Doc Num                      Name

<u>Att Doc Num</u>	<u>Name</u>
403566232	OffsetWellEvaluations Data
403623603	DIRECTIONAL DATA
403623604	WELL LOCATION PLAT
403623605	DEVIATED DRILLING PLAN
403631450	LEASE MAP

Total Attach: 5 Files

**General Comments**

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

Total: 0 comment(s)

