

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:

403561248

**(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 423-1-298  
 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 36 Sec: 1 Twp: 2S Rng: 98W Meridian: 6

Footage at Surface: 796 Feet FSL 764 Feet FEL

Latitude: 39.901028 Longitude: -108.336135

GPS Data: GPS Quality Value: 1.3 Type of GPS Quality Value: PDOP Date of Measurement: 08/18/2023

Ground Elevation: 6276

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: 1 Twp: 2S Rng: 98W Footage at TPZ: 1120 FSL 1622 FWL  
Measured Depth of TPZ: 8596 True Vertical Depth of TPZ: 8246 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 1 Twp: 2S Rng: 98W Footage at BPZ: 1120 FSL 1622 FWL
Measured Depth of BPZ: 12376 True Vertical Depth of BPZ: 12026 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 1 Twp: 2S Rng: 98W Footage at BHL: 1120 FSL 1622 FWL
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: 07/07/2023

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 # COC60736

**SAFETY SETBACK INFORMATION**

Distance from Well to nearest:

Building: 5280 Feet  
 Building Unit: 5280 Feet  
 Public Road: 266 Feet  
 Above Ground Utility: 758 Feet  
 Railroad: 5280 Feet  
 Property Line: 1112 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	1-229		

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: 1120 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: 360 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: 12376 Feet

TVD at Proposed Total Measured Depth 12026 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	78.76	0	80	230	80	0
SURF	17+1/2	13+3/8	J55	54.5	0	1230	406	1244	0
S.C. 1.1	8+3/4	4+1/2	P110	11.6	0	3000	158	3109	2082
2ND LINER	12+1/4	9+5/8	J55	36.00	0	12026	992	12376	6837

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	701	700	501-1000	Produced Water Sample	
Groundwater	GREEN RIVER	701	700	852	850	501-1000	Produced Water Sample	
Subsurface Hazard	A GROOVE	852	850	1057	1050			
Subsurface Hazard	B GROOVE	1057	1050	1370	1350			
Subsurface Hazard	DISSOLUTION SURFACE	1370	1350	2319	2250			POSSIBLE LOSS ZONE
Confining Layer	GARDEN GULCH	2319	2250	2498	2420			
Confining Layer	ORANGE MARKER	2498	2420	2582	2500			
Confining Layer	UPPER WASATCH	2582	2500	5334	5110			
Hydrocarbon	TOP OF G SAND	5334	5110	5608	5370			POSSIBLE LOSS ZONE
Hydrocarbon	FORT UNION	5608	5370	6441	6160			
Confining Layer	LOWER WASATCH	6441	6160	7037	6726			
Hydrocarbon	OHIO CREEK	7037	6726	7790	7446			POSSIBLE LOSS ZONE
Hydrocarbon	UPPER MESAVERDE	7790	7446	8596	8246			
Hydrocarbon	TOP GAS	8596	8246	10166	9816			
Hydrocarbon	CAMEO COALS	10166	9816	10896	10546			
Hydrocarbon	ROLLINS	10896	10546	11046	10696			
Hydrocarbon	COZZETTE	11046	10696	11371	11021			
Hydrocarbon	CORCRAN	11371	11021	11631	11281			
Hydrocarbon	UPPER SEGO	11631	11281	11876	11526			
Hydrocarbon	LOWER SEGO	11876	11526	12376	12026			

## OPERATOR COMMENTS AND SUBMITTAL

Comments: Nearest offset well producing from the same lease and permitted or completed in the same formation: Federal RGU 24-1-298 (Doc #403561259).

OGDP application (Docket# 221200375) was approved on 08/23/2023, Form 2A (Doc# 402525732) 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:       335640

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>
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### Attachment List

#### Att Doc Num                      Name

403625200	OffsetWellEvaluations Data
403625241	DIRECTIONAL DATA
403625278	WELL LOCATION PLAT
403625291	DEVIATED DRILLING PLAN
403631296	LEASE MAP

Total Attach: 5 Files

### General Comments

#### User Group                      Comment    Comment Date

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

Total: 0 comment(s)