

FORM  
2

Rev  
05/22

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:

403038470

(SUBMITTED)

Date Received:

09/25/2022

APPLICATION FOR PERMIT TO

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

Amend ☐

TYPE OF WELL OIL ☐ GAS ☒ COALBED ☐ OTHER: \_\_\_\_\_

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: FEDERAL

Well Number: RG 21-13-298

Name of Operator: TEP ROCKY MOUNTAIN LLC

COGCC Operator Number: 96850

Address: 1058 COUNTY ROAD 215

City: PARACHUTE

State: CO

Zip: 81635

Contact Name: Jeff Kirtland

Phone: (970)263-2736

Fax: ( )

Email: jkirtland@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): \_\_\_\_\_

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 4 Sec: 13 Twp: 2S Rng: 98W Meridian: 6

FNL/FSL

FEL/FWL

Footage at Surface: 1606 Feet FNL 906 Feet FWL

Latitude: 39.882248

Longitude: -108.346504

GPS Data:

GPS Quality Value: 1.4

Type of GPS Quality Value: PDOP

Date of Measurement: 07/21/2022

Ground Elevation: 6618

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: 13 Twp: 2S Rng: 98W

Footage at TPZ: 134 FNL 1606 FWL

Measured Depth of TPZ: 6647

True Vertical Depth of TPZ: 6558

FNL/FSL

FEL/FWL

**Base of Productive Zone (BPZ)**Sec: 13 Twp: 2S Rng: 98WFootage at BPZ: 134 FNL 1606 FWLMeasured Depth of BPZ: 11963True Vertical Depth of BPZ: 11858 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 13 Twp: 2S Rng: 98WFootage at BHL: 134 FNL 1606 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? ☒ 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 disposition of the application filed with the Relevant Local Government is: Approved Date of Final Disposition: 04/29/2022Comments: Rio Blanco County Oil or Gas Well Pad Special Use/Building Permit: COGW-0001-22**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 ☒ Federal ☐ IndianMineral Owner beneath this Well's Oil and Gas Location: ☐ Fee ☐ State ☒ 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☒ 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.)

T2S-R97W

SEC 18: S2NE4, E2W2, SE4, LOTS 1-4

T2S-R98W

SEC 12: N2SW4, S2NW4, SW4NE4, NE4NW4, LOTS 17-20

SEC 13: LOTS 1-12, SW4

SEC 14: E2SE4, LOTS 1, 8

SEC 23: E2NE4, N2SE4, SW4NE4

SEC 24: N2, N2S2

Total Acres in Described Lease: 2731

Described Mineral Lease is: ☐ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # COC0003453

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet  
Building Unit: 5280 Feet  
Public Road: 4274 Feet  
Above Ground Utility: 4246 Feet  
Railroad: 5280 Feet  
Property Line: 2389 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.)
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WILLIAMS FORK	WMFK	1-229		
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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? No

If YES:

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

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: 1598 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: 363 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: 11963 Feet

TVD at Proposed Total Measured Depth 11858 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	X55	78.67	0	80	230	80	0
SURF	17+1/2	13+3/8	J55	54.5	0	1343	439	1343	0
1ST	12+1/4	9+5/8	J55	36.0	0	3077	155	3077	2070
2ND	8+3/4	4+1/2	P110	11.6	0	11963	988	11963	6447

☐ 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	886	880	501-1000	Produced Water Sample	
Groundwater	GRRV	886	880	1038	1030	501-1000	Produced Water Sample	
Subsurface Hazard	GRRV A GROOVE	1038	1030	1231	1220			
Subsurface Hazard	GRRV B GROOVE	1231	1220	1545	1530			
Subsurface Hazard	GRRV DISSOLUTION SURF	1545	1530	2286	2260			Potential Loss Zone
Confining Layer	GARDEN GULCH	2286	2260	2489	2460			
Confining Layer	ORANGE MARKER	2489	2460	2570	2540			
Confining Layer	UPPER WASATCH	2570	2540	4762	4700			
Hydrocarbon	G SAND	4762	4700	5183	5115			Potential Loss Zone/Non-Productive Zone
Hydrocarbon	FT UNION	5183	5115	5979	5900			
Confining Layer	LOWER WASATCH	5979	5900	6647	6558			
Hydrocarbon	OHIO CREEK	6647	6558	7377	7278			
Hydrocarbon	UPPER MESAVERDE	7377	7278	8183	8078			
Hydrocarbon	TOP GAS	8183	8078	9753	9648			
Hydrocarbon	CAMEO	9753	9648	10483	10378			
Hydrocarbon	ROLLINS	10483	10378	10633	10528			
Hydrocarbon	COZZETTE	10633	10528	10958	10853			
Hydrocarbon	CORCORAN	10958	10853	11218	11113			
Hydrocarbon	UPPER SEGO	11218	11113	11463	11358			
Hydrocarbon	LOWER SEGO	11463	11358	11963	11858			

**OPERATOR COMMENTS AND SUBMITTAL**

Comments: Nearest permitted or completed well in same formation: Federal RG 524-12-298 (Doc #403038472). OGDG Application (Docket #220500097) and Form 2A (Doc #402932455) approved on 09/21/2022.

This application is in a Comprehensive Area Plan       No       CAP #:                       
Oil and Gas Development Plan Name       Ryan Gulch Phase 2       OGDG ID#:       482485        
Location ID:       482958      

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



Signed: \_\_\_\_\_

Print Name: Melissa LukeTitle: Regulatory SpecialistDate: 9/25/2022Email: 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

### Best Management Practices

#### No BMP/COA Type

#### Description

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.
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Total: 1 comment(s)

### Attachment List

#### Att Doc Num

#### Name

403173866	OffsetWellEvaluations Data
403173867	DIRECTIONAL DATA
403173868	WELL LOCATION PLAT
403173869	DEVIATED DRILLING PLAN

Total Attach: 4 Files

### General Comments

#### User Group

#### Comment

#### Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)

## **Public Comments**

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

