

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:

402988835

**(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: \_\_\_\_\_

Refile

ZONE TYPE SINGLE ZONE  MULTIPLE ZONES  COMMINGLE ZONES

Sidetrack

Well Name: FEDERAL Well Number: RG 524-13-298  
 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 12 Sec: 13 Twp: 2S Rng: 98W Meridian: 6

Footage at Surface: 931 Feet FSL 1097 Feet FEL

Latitude: 39.871743 Longitude: -108.338022

GPS Data: GPS Quality Value: 1.6 Type of GPS Quality Value: PDOP Date of Measurement: 07/21/2021

Ground Elevation: 6667

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: 285 FSL 1670 FWL  
Measured Depth of TPZ: 6482 True Vertical Depth of TPZ: 6127 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 13 Twp: 2S Rng: 98W Footage at BPZ: 285 FSL 1670 FWL  
Measured Depth of BPZ: 11823 True Vertical Depth of BPZ: 11427 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 13 Twp: 2S Rng: 98W Footage at BHL: 285 FSL 1670 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: 04/29/2022

Comments: Rio Blanco County Oil or Gas Well Pad Special Use/Building Permit: COGW-0002-22

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 [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.)

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: 2371 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: 4813 Feet  
 Above Ground Utility: 5096 Feet  
 Railroad: 5280 Feet  
 Property Line: 4944 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.)
ILES	ILES	1-229		
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? 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: 2921 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: 380 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: 11823 Feet

TVD at Proposed Total Measured Depth 11427 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: 529 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? \_\_\_\_\_

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	X-65	78.67	0	80	230	80	0
SURF	17+1/2	13+3/8	J-55	54.5	0	1365	446	1365	0
1ST	12+1/4	9+5/8	J-55	36	0	3125	154	3125	2125
2ND	8+3/4	4+1/2	P-110	11.6	0	11823	993	11823	6282

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	889	880	501-1000	Produced Water Sample	
Groundwater	GRRV	889	880	1046	1030	501-1000	Produced Water Sample	
Subsurface Hazard	GRRV A GROOVE	1046	1030	1248	1220			
Subsurface Hazard	GRRV B GROOVE	1248	1220	1579	1530			
Subsurface Hazard	GRRV DISSOLUTION SURF	1579	1530	2315	2220			Potential Loss Zone
Confining Layer	GARDEN GULCH	2315	2220	2507	2400			
Confining Layer	GRRV ORANGE	2507	2400	2592	2480			
Confining Layer	U WASATCH	2592	2480	4853	4600			
Hydrocarbon	G SAND	4853	4600	5296	5015			Potential Loss Zone/Non-Productive Zone
Hydrocarbon	FT UNION	5296	5015	6133	5800			
Confining Layer	L WASATCH	6133	5800	6482	6127			
Hydrocarbon	OHIO CREEK	6482	6127	7237	6847			
Hydrocarbon	U MESAVERDE	7237	6847	8043	7647			
Hydrocarbon	KMVGAS	8043	7647	9613	9217			
Hydrocarbon	CAMEO	9613	9217	10343	9947			
Hydrocarbon	ROLLINS	10343	9947	10493	10097			
Hydrocarbon	COZZETTE	10493	10097	10818	10422			
Hydrocarbon	CORCORAN	10818	10422	11078	10682			
Hydrocarbon	UPPER SEGO	11078	10682	11323	10927			
Hydrocarbon	LOWER SEGO	11323	10927	11823	11427			

## OPERATOR COMMENTS AND SUBMITTAL

Comments

Nearest permitted or completed well in same formation: Federal RG 424-13-298 (Doc #402988836).

The Federal OG Colo 03435 # 9 well (05-103-05161) was used for the distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator (AC Report).

OGDP Application (Docket #220500097) and Form 2A (Doc #402932454) 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 OGDP ID#: 482485

Location ID: 315513

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: 9/25/2022 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

### 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 9 5/8" casing shoe. 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

403045975	WELL LOCATION PLAT
403045976	DIRECTIONAL DATA
403045977	DEVIATED DRILLING PLAN
403052679	OffsetWellEvaluations Data

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.

