

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:

403559125

(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 42-6-297

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 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: 2492 Feet FSL 2228 Feet FWL

Latitude: 39.904946 Longitude: -108.325353

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

Ground Elevation: 6218

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: 1258 FNL 691 FEL

Measured Depth of TPZ: 9031 True Vertical Depth of TPZ: 8532 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)
 Sec: 6 Twp: 2S Rng: 97W Footage at BPZ: 1258 FNL 697 FEL
 Measured Depth of BPZ: 12811 True Vertical Depth of BPZ: 12312 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)
 Sec: 6 Twp: 2S Rng: 97W Footage at BHL: 1258 FNL 697 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? 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: 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 Federal Indian

Mineral 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.)

Total Acres in Described Lease: _____ Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # COC62046

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet
Building Unit: 5280 Feet
Public Road: 266 Feet
Above Ground Utility: 556 Feet
Railroad: 5280 Feet
Property Line: 4458 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: 691 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: 12811 Feet

TVD at Proposed Total Measured Depth 12312 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 H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If yes, attach an H₂S 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	200	80	0
SURF	12+1/4	9+5/8	J55	36.0	0	2940	159	1269	0
1ST	17+1/2	13+3/8	J55	54.5	0	1240	414	3095	2058
2ND	8+3/4	4+1/2	P110	11.6	0	12312	993	12811	7269

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	653	650	501-1000	Produced Water Sample	
Groundwater	GREEN RIVER	653	650	806	800	501-1000	Produced Water Sample	
Subsurface Hazard	A GROOVE	806	800	1014	1000			
Subsurface Hazard	B GROOVE	1014	1000	1334	1300			
Subsurface Hazard	DISSOLUTION SURFACE	1334	1300	2300	2200			POTENTIAL LOSS ZONE
Confining Layer	GARDEN GULCH	2300	2200	2472	2360			
Confining Layer	ORANGE MARKER	2472	2360	2558	2440			
Confining Layer	UPPER WASATCH	2558	2440	5361	5050			
Hydrocarbon	TOP OF G SAND	5361	5050	5641	5310			POTENTIAL LOSS ZONE
Hydrocarbon	FORT UNION	5641	5310	6489	6100			
Confining Layer	LOWER WASATCH	6489	6100	7469	7012			
Hydrocarbon	OHIO CREEK	7469	7012	8225	7732			POTENTIAL LOSS ZONE
Hydrocarbon	UPPER MESSAVERDE	8225	7732	9031	8532			
Hydrocarbon	TOP GAS	9031	8532	10601	10102			
Hydrocarbon	CAMEO COLLINS	10601	10102	11331	10832			
Hydrocarbon	ROLLINS	11331	10832	11481	10982			
Hydrocarbon	COZZETTE	11481	10982	11806	11307			
Hydrocarbon	CORCORAN	11806	11307	12066	11567			
Hydrocarbon	UPPER SEGO	12066	11567	12311	11812			
Hydrocarbon	LOWER SEGO	12311	11812	12811	12312			

OPERATOR COMMENTS AND SUBMITTAL

Comments: Nearest offset well producing from the same lease and permitted or completed in the same formation: Federal RGU 342-6-297 (Doc #403559134).

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 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>
403565996	OffsetWellEvaluations Data
403573910	DIRECTIONAL DATA
403573912	DEVIATED DRILLING PLAN
403573916	WELL LOCATION PLAT
403631609	LEASE MAP

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)

