

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:

403559217

(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 543-6-297

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: 2432 Feet FSL 2228 Feet FWL

Latitude: 39.904781 Longitude: -108.325358

GPS Data: GPS Quality Value: 2.0 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: 1566 FSL 657 FEL

Measured Depth of TPZ: 8835 True Vertical Depth of TPZ: 8472 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 6 Twp: 2S Rng: 97W Footage at BPZ: 1566 FSL 657 FEL
Measured Depth of BPZ: 12615 True Vertical Depth of BPZ: 12252 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 6 Twp: 2S Rng: 97W Footage at BHL: 1566 FSL 657 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: 296 Feet
Above Ground Utility: 501 Feet
Railroad: 5280 Feet
Property Line: 4431 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: 657 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: 12615 Feet

TVD at Proposed Total Measured Depth 12252 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	230	80	0
SURF	17+1/2	13+3/8	J55	54.5	0	1240	417	1277	0
1ST	12+1/4	9+5/8	J55	36.0	0	2940	157	3063	2038
2ND	8+3/4	4+1/2	P110	11.6	0	12252	992	12615	7079

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	657	650	501-1000	Produced Water Sample	
Groundwater	GREEN RIVER	657	650	814	800	501-1000	Produced Water Sample	
Subsurface Hazard	A GROOVE	814	800	1024	1000			
Subsurface Hazard	B GROOVE	1024	1000	1340	1300			
Subsurface Hazard	DISSOLUTION SURFACE	1340	1300	2285	2200			POTENTIAL LOSS ZONE
Confining Layer	GARDEN GULCH	2285	2200	2453	2360			
Confining Layer	ORANGE MARKER	2453	2360	2538	2440			
Confining Layer	UPPER WASATCH	2538	2440	5280	5050			
Hydrocarbon	TOP OF G SAND	5280	5050	5553	5310			POTENTIAL LOSS ZONE
Hydrocarbon	FORT UNION	5553	5310	6383	6100			
Confining Layer	LOWER WASATCH	6383	6100	7279	6952			
Hydrocarbon	OHIO CREEK	7279	6952	8029	7672			POTENTIAL LOSS ZONE
Hydrocarbon	UPPER MESAVERDE	8029	7672	8835	8472			
Hydrocarbon	TOP GAS	8835	8472	10405	10042			
Hydrocarbon	CAMEO COALS	10405	10042	11135	10772			
Hydrocarbon	ROLLINS	11135	10772	11285	10922			
Hydrocarbon	COZZETTE	11285	10922	11610	11247			
Hydrocarbon	CORCORAN	11610	11247	11870	11507			
Hydrocarbon	UPPER SEGO	11870	11507	12115	11752			
Hydrocarbon	LOWER SEGO	12115	11752	12615	12252			

OPERATOR COMMENTS AND SUBMITTAL

Comments: Nearest offset well producing from the same lease and permitted or completed in the same formation: Federal RGU 443-6-297 (Doc #403559162).

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

0 COA	
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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

403566221	OffsetWellEvaluations Data
403623532	WELL LOCATION PLAT
403623533	DEVIATED DRILLING PLAN
403623535	DIRECTIONAL DATA
403631494	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)

