

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:

403561275

(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 21-12-298
 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: 789 Feet FSL 786 Feet FWL

Latitude: 39.901028 Longitude: -108.336215

GPS Data: GPS Quality Value: 1.4 Type of GPS Quality Value: PDOP Date of Measurement: 08/18/2021

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: 12 Twp: 2S Rng: 98W Footage at TPZ: 312 FNL 1999 FWL
Measured Depth of TPZ: 8449 True Vertical Depth of TPZ: 8196 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 12 Twp: 2S Rng: 98W Footage at BPZ: 312 FNL 1999 FWL
Measured Depth of BPZ: 12229 True Vertical Depth of BPZ: 11976 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 12 Twp: 2S Rng: 98W Footage at BHL: 312 FNL 1999 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 # COC03453

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet
 Building Unit: 5280 Feet
 Public Road: 281 Feet
 Above Ground Utility: 770 Feet
 Railroad: 5280 Feet
 Property Line: 1092 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: 312 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: 361 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: 12229 Feet

TVD at Proposed Total Measured Depth 11976 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	1230	409	1253	0
1ST	12+1/4	9+5/8	J55	38.6	0	3000	157	3096	2075
2ND	8+3/4	4+1/2	P110	11.6	0	11976	987	12229	6723

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	703	700	501-1000	Produced Water Sample	
Groundwater	GREEN RIVER	703	700	857	850	501-1000	Produced Water Sample	
Subsurface Hazard	A GROOVE	857	850	1065	1050			
Subsurface Hazard	B GROOVE	1065	1050	1378	1350			
Subsurface Hazard	DISSOLUTION SURFACE	1378	1350	2315	2250			POSSIBLE LOSS ZONE
Confining Layer	GARDEN GULCH	2315	2250	2492	2420			
Confining Layer	ORANGE MARKER	2492	2420	2575	2500			
Confining Layer	UPPER WASATCH	2575	2500	5294	5110			
Hydrocarbon	TOP OF G SAND	5294	5110	5565	5370			POSSIBLE LOSS ZONE
Hydrocarbon	FORT UNION	5565	5370	6388	6160			
Confining Layer	LOWER WASATCH	6388	6160	6923	6676			
Hydrocarbon	OHIO CREEK	6923	6676	7649	7396			POSSIBLE LOSS ZONE
Hydrocarbon	UPPER MESAVERDE	7649	7396	8449	8196			
Hydrocarbon	TOP GAS	8449	8196	10019	9766			
Hydrocarbon	CAMEO COALS	10019	9766	10749	10496			
Hydrocarbon	ROLLINS	10749	10496	10899	10646			
Hydrocarbon	COZZETTE	10899	10646	11224	10971			
Hydrocarbon	CORCORAN	11224	10971	11484	11231			
Hydrocarbon	UPPER SEGO	11484	11231	11729	11476			
Hydrocarbon	LOWER SEGO	11729	11476	12229	11976			

OPERATOR COMMENTS AND SUBMITTAL

Comments: Nearest offset well producing from the same lease and permitted or completed in the same formation: Federal RGU 321-12-298 (Doc #403561348).

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 _____ 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

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

403629624	OffsetWellEvaluations Data
403629647	DIRECTIONAL DATA
403629651	WELL LOCATION PLAT
403629656	DEVIATED DRILLING PLAN
403631271	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)

