

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:

403038530

(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 423-12-298

Name of Operator: TEP ROCKY MOUNTAIN LLC

COGCC Operator Number: 96850

Address: 1058 COUNTY ROAD 215

City: PARACHUTE

State: CO

Zip: 81635

Contact Name: 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: 1035 Feet FNL 898 Feet FWL

Latitude: 39.882334

Longitude: -108.346517

GPS Data:

GPS Quality Value: 1.5

Type of GPS Quality Value: PDOP

Date of Measurement: 07/21/2021

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: 12 Twp: 2S Rng: 98W

Footage at TPZ: 2098 FSL 1690 FWL

Measured Depth of TPZ: 7368

True Vertical Depth of TPZ: 6688

FNL/FSL

FEL/FWL

Base of Productive Zone (BPZ)Sec: 12 Twp: 2S Rng: 98WFootage at BPZ: 2098 FSL 1690 FWLMeasured Depth of BPZ: 12711True Vertical Depth of BPZ: 11988 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 12 Twp: 2S Rng: 98WFootage at BHL: 2098 FSL 1690 FWL

FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATIONCounty: 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: 4243 Feet
Above Ground Utility: 4214 Feet
Railroad: 5280 Feet
Property Line: 2358 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? 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: 958 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: 375 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: 12711 Feet

TVD at Proposed Total Measured Depth 11988 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 | X55 | 78.67 | 0 | 80 | 230 | 80 | 0 |
| SURF | 17+1/2 | 13+3/8 | J55 | 54.5 | 0 | 1365 | 446 | 1365 | 0 |
| 1ST | 12+1/4 | 9+5/8 | J55 | 36.0 | 0 | 3280 | 163 | 3280 | 2219 |
| 2ND | 8+3/4 | 4+1/2 | P110 | 11.6 | 0 | 12711 | 993 | 12711 | 7168 |

☐ 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 | 888 | 880 | 501-1000 | Produced Water Sample | |
| Groundwater | GRRV | 888 | 880 | 1044 | 1030 | 501-1000 | Produced Water Sample | |
| Subsurface Hazard | GRRV A GROOVE | 1044 | 1030 | 1245 | 1220 | | | |
| Subsurface Hazard | GRRV B GROOVE | 1245 | 1220 | 1587 | 1530 | | | |
| Subsurface Hazard | GRRV DISSOLUTION SURF | 1587 | 1530 | 2405 | 2260 | | | Potential Loss Zone |
| Confining Layer | GARDEN GULCH | 2405 | 2260 | 2630 | 2460 | | | |
| Confining Layer | ORANGE MARKER | 2630 | 2460 | 2719 | 2540 | | | |
| Confining Layer | UPPER WASATCH | 2719 | 2540 | 5142 | 4700 | | | |
| Hydrocarbon | G SAND | 5142 | 4700 | 5607 | 5115 | | | Potential Loss Zone/Non-Productive Zone |
| Hydrocarbon | FT UNION | 5607 | 5115 | 6488 | 5900 | | | |
| Confining Layer | LOWER WASATCH | 6488 | 5900 | 7368 | 6688 | | | |
| Hydrocarbon | OHIO CREEK | 7368 | 6688 | 8125 | 7408 | | | |
| Hydrocarbon | UPPER MESAVERDE | 8125 | 7408 | 8931 | 8208 | | | |
| Hydrocarbon | TOP GAS | 8931 | 8208 | 10501 | 9778 | | | |
| Hydrocarbon | CAMEO | 10501 | 9778 | 11231 | 10508 | | | |
| Hydrocarbon | ROLLINS | 11231 | 10508 | 11381 | 10658 | | | |
| Hydrocarbon | COZZETTE | 11381 | 10658 | 11706 | 10983 | | | |
| Hydrocarbon | CORCORAN | 11706 | 10983 | 11966 | 11243 | | | |
| Hydrocarbon | UPPER SEGO | 11966 | 11243 | 12211 | 11488 | | | |
| Hydrocarbon | LOWER SEGO | 12211 | 11488 | 12711 | 11988 | | | |

OPERATOR COMMENTS AND SUBMITTAL

Comments: Nearest permitted or completed well in same formation: Federal RG 523-12-298 (Doc #403038527).
OGDP 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 OGDP 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. |
|---|--------------------------------|---|

Total: 1 comment(s)

Attachment List

Att Doc Num

Name

| | |
|-----------|----------------------------|
| 403177096 | OffsetWellEvaluations Data |
| 403177097 | DIRECTIONAL DATA |
| 403177098 | WELL LOCATION PLAT |
| 403177099 | DEVIATED DRILLING PLAN |

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

| | | |
|--|--|---------------------|
| | | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)

Public Comments

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

