

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:

403127206

Date Received:

12/22/2022

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: Leverich

Well Number: SR 322-13

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): _____

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 \$ 655000

WELL LOCATION INFORMATION

Surface Location

QtrQtr: LOT 3 Sec: 13 Twp: 7S Rng: 94W Meridian: 6

Footage at Surface: 1412 Feet FSL 850 Feet FEL

Latitude: 39.435611 Longitude: -107.829130

GPS Data: GPS Quality Value: 2.4 Type of GPS Quality Value: PDOP

Date of Measurement: 08/04/2021

Ground Elevation: 8007

Field Name: RULISON

Field Number: 75400

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: 7S Rng: 94W

Footage at TPZ: 1412 FSL 850 FEL

Measured Depth of TPZ: 7873

True Vertical Depth of TPZ: 7051

FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 13 Twp: 7S Rng: 94W Footage at BPZ: 1823 FNL 1947 FWL
Measured Depth of BPZ: 10813 True Vertical Depth of BPZ: 9991 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 13 Twp: 7S Rng: 94W Footage at BHL: 1823 FNL 1947 FWL
FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: GARFIELD 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: 11/14/2022

Comments: TEP Rocky Mountain LLC received an approved Oil and Gas Permit from the Garfield County on 11/14/22.

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 ☐ 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.)

T7S-R94W
SEC 13: S2NW4,
SEC 14: ALL
SEC 15: N2,N2S2
Please see lease map attached.

Total Acres in Described Lease: 1200

Described Mineral Lease is: ☐ Fee ☐ State ☒ Federal ☐ Indian

Federal or State Lease # COC063721

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1464 Feet
Building Unit: 1437 Feet
Public Road: 1328 Feet
Above Ground Utility: 5280 Feet
Railroad: 5280 Feet
Property Line: 894 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: 497 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: 371 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: 11163 Feet

TVD at Proposed Total Measured Depth 10341 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 | 13+1/2 | 9+5/8 | J55 | 36.0 | 0 | 1138 | 280 | 1138 | 0 |
| 1ST | 8+3/4 | 4+1/2 | P110 | 11.6 | 0 | 11163 | 805 | 11163 | 6309 |

☐ 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 |
|-----------------|-------------------|----------|------------|-------------|---------------|------------|-------------|---|
| Confining Layer | U WASATCH | 0 | 0 | 4642 | 4091 | | | |
| Hydrocarbon | WASATCH G SAND | 4642 | 4091 | 5229 | 4591 | | | POTENTIAL LOSS ZONE/NON-PRODUCTIVE ZONE |
| Hydrocarbon | FT UNION | 5229 | 4591 | 68009 | 6001 | | | |
| Hydrocarbon | L WASATCH | 6809 | 6001 | 7288 | 6466 | | | |
| Hydrocarbon | OHIO CREEK | 7285 | 6466 | 7873 | 7051 | | | POTENTIAL LOSS ZONE |
| Hydrocarbon | U MESAVERDE | 7873 | 7051 | 9989 | 9167 | | | |
| Hydrocarbon | TOP GAS | 7873 | 7051 | 9989 | 9167 | | | |
| Hydrocarbon | CAMEO | 9989 | 9167 | 10813 | 9991 | | | |
| Hydrocarbon | ROLLINS | 10813 | 9991 | 11163 | 10347 | | | |

OPERATOR COMMENTS AND SUBMITTAL

Comments: Nearest offset well producing from the same lease and permitted or completed in the same formation: Leverich SR 422-13 (Doc #403127179).

OGDP application (Docket# 220700189) was approved on 11/30/2022, Form 2A (Doc# 403064316) approved on 12/13/2022.

This application is in a Comprehensive Area Plan _____ No _____ CAP #: _____
Oil and Gas Development Plan Name South Leverich 13-09 OGDID ID#: 482745
Location ID: 335045

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: 12/22/2022 Email: mluke@terraep.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 2/3/2023

Expiration Date: 11/29/2025

API NUMBER

05 045 24554 00

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.

| <u>COA Type</u> | <u>Description</u> |
|--------------------------------|---|
| Drilling/Completion Operations | Operator will log two (2) wells with open-hole resistivity log with gamma-ray log from the kick-off point into the surface casing for the two stratigraphically deepest wells on each side of the pad |
| Construction | If conductors are preset, operator shall comply with Notice to Operators: Procedures for Preset Conductors (dated September 1, 2016). |
| Drilling/Completion Operations | 1)Operator shall comply with the most current revision of the Northwest Notification Policy. 2)Operator shall comply with the most current revision of the Garfield County Rulison Field Notice to Operators, with the following exception: All field notice requirements specified in that Notice to Operators are superseded by the requirements of the most current revision of the Northwest Colorado Notification Policy (see Condition of Approval #1). 3)Operator shall provide cement coverage from the production casing shoe (4+1/2" FIRST STRING) to a minimum of 200' above the Lower Wasatch (as defined by COGCC in the report "Casing and Cement Standards for Geologic Isolation Piceance Basin Bradenhead Monitoring Area and Nearby Fields," dated April 18, 2016, COGCC Document No. 2056199, Appendix A Field Scout Cards and Annotated Type Logs) to provide isolation of the Lower Wasatch, all Mesaverde Group formations including the Ohio Creek Formation, and underlying formations, if penetrated. Verify production casing cement coverage with a cement bond log. |
| Interim Reclamation | Operator shall comply with Notice to Operators: Interim Reclamation Procedures for Delayed Operations (dated January 5, 2017). |
| 4 COAs | |

Best Management Practices

| <u>No</u> | <u>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 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. |

Total: 1 comment(s)

Attachment List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|------------------------|
| 403127206 | FORM 2 SUBMITTED |
| 403227789 | WELL LOCATION PLAT |
| 403229637 | DIRECTIONAL DATA |
| 403229639 | DEVIATED DRILLING PLAN |

| | |
|-----------|----------------------------|
| 403249802 | OffsetWellEvaluations Data |
| 403250900 | LEASE MAP |
| 403299294 | OffsetWellEvaluations Data |
| 403312161 | OFFSET WELL EVALUATION |

Total Attach: 8 Files

General Comments

| User Group | Comment | Comment Date |
|-------------------|--|---------------------|
| Permit | Final Review Completed. | 02/03/2023 |
| Permit | Added Open Hole Logging BMP | 02/03/2023 |
| Engineer | <p>Offset water well check: COGCC evaluated offset water wells within one mile of this proposed well's surface hole location. This information in addition to locally-available geophysical logs and hydrogeologic information was used to evaluate the adequacy of the operator's proposed surface casing setting depth. The deepest water well within one mile is 172 feet.</p> <p>Offset Well Evaluation: Existing offset oil and gas wells within 1,500 feet of this wellbore meet standards. No mitigation required.</p> <p>Uploaded a new copy of the offset well evaluation that was requested by Area Engineer to add a well</p> <p>Changed surface and production casing setting depth from TVD to MD per drilling plan</p> | 01/23/2023 |
| Permit | Passed Permitting review. | 01/23/2023 |
| OGLA | The Commission approved OGDG #482745 on November 30, 2022 for the Oil and Gas Location related to this Form 2. OGLA task passed. | 12/22/2022 |

Total: 5 comment(s)