

**State of Colorado**  
**Oil and Gas Conservation Commission**

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FOR OGCC USE ONLY

Document Number:

Date Received:

**UNDERGROUND INJECTION FORMATION PERMIT APPLICATION**

Per Rule 325, this form shall be submitted with all required attachments.  
 A Form 31 – Intent shall be submitted and approved prior to completing an injection zone.  
 A Form 31 – Subsequent shall be submitted following collection of water samples and injectivity test (if performed) and must be approved prior to injection in any new injection facility.  
 NOTE: Per Rule 324B, an aquifer exemption is required for any injection formation with water quality less than 10,000 mg/L total dissolved solids (TDS). Contact the Commission for further requirements if the TDS as determined by water analysis for the injection zone is less than 10,000 mg/L.

Form 31 Type     Intent     Subsequent    UIC Facility ID     UIC Facility ID Required for Subsequent Form 31

**UIC FACILITY INFORMATION**

Facility Name and Number: WPX SG 922-32D    159960    County: GARFIELD  
 Facility Location: SENW / 32 / 7S / 96W / 6    Field Name and Number: GRAND VALLEY    31290  
 Facility Type:     Enhanced Recovery     Disposal     Simultaneous Disposal  
 Single or Multiple Well Facility?     Single     Multiple

Proposed Injection Program (Required):

The TEP Rocky Mountain LLC injection program is required for the disposal of produced and flowback waters which are in excess of storage capacity of our Valley operations. In an attempt to minimize truck traffic and shutting in wells, TEP is requesting injection from the SG 922-32D (UIC Facility # 159960) into the Rollins and Williams Fork Formation. TEP will continue to inject into the SG 922-32D from the Iles (Cozzette/Corcoran) formation and comeingle with the Rollins and Williams Fork formations. Permanent injection equipment will be installed at the Smith Gulch Water Recycling Pit Location (COGCC Facility ID 430110). Temporary injection equipment is currently located at this location. All water will be filtered prior to injection. TEP estimates the frac gradient to be approximately 0.650 to 0.70 psi/ft. Injection rates at the wellhead are anticipated to range from a minimum of 2,000 bbls/day at 1,250 psi up to 5,000 bbls/day at 1,250 psi. The completion procedure is attached for the Rollins and Williams Fork. TEP does not anticipate recompleting the Cozzette or Corcoran.

**OPERATOR INFORMATION**

OGCC Operator Number: <u>96850</u>	Contact Name and Telephone:
Name of Operator: <u>TEP ROCKY MOUNTAIN LLC</u>	Name: <u>Jeffrey Kirtland</u>
Address: <u>PO BOX 370</u>	Phone: <u>(970) 263-2736</u> Fax: <u>( )</u>
City: <u>PARACHUTE</u> State: <u>CO</u> Zip: <u>81635</u>	Email: <u>jkirtland@terraep.com</u>

**INJECTED FLUID TYPE**

All injected fluids must be Exempt E&P waste per RCRA Subpart C.

(Check all that apply.)

- Produced Water     Natural Gas     CO2     Drilling Fluids  
 Exempt Gas Plant Waste     Used Workover Fluids     Flowback Fluids

Other Fluids (describe):

Commercial Disposal Facility     Yes     No    Commercial UIC Bond Surety ID:

Commercial Facility Description: Describe the physical region of the facility, the details of the operations, and the type of fluids to be injected.

**PROPOSED INJECTION FORMATIONS**

FORMATION (Name): ROLLINS Porosity: 12 %  
Formation TDS: 12500 mg/L Frac Gradient: 0.7 psi/ft Permeability: 0 mD  
Proposed Stimulation Program:  Acid  Frac Treatment  None

FORMATION (Name): WILLIAMS FORK Porosity: 18 %  
Formation TDS: 18309 mg/L Frac Gradient: 0.68 psi/ft Permeability: 3 mD  
Proposed Stimulation Program:  Acid  Frac Treatment  None

**ANTICIPATED FACILITY OPERATIONS CONDITIONS**

Under normal operating conditions, estimated TOTAL fluid injection rates and pressures for this facility:

FOR WATER: Daily Injection Rate Range From 200 to 4000 bbls/day  
Surface Injection Pressure Range From 1250 to 1300 psi  
FOR GAS: Daily Injection Rate Range From \_\_\_\_\_ to \_\_\_\_\_ mcf/day  
Surface Injection Pressure Range From \_\_\_\_\_ to \_\_\_\_\_ psi

Estimated Initial Injection Date: 1/1/2018

**AREA OF REVIEW OIL and GAS WELL EVALUATION SUMMARY**

Review all existing wells within 1/2 mile for injection formation isolation.

Area Review Date: 4/27/2017

Total number of Oil & Gas Wells within Area of Review:

ABANDONED WELLS (All wells that have been plugged: PA and DA status))

Total within Area of Review	<input type="text" value="0"/>
Number To Be Re-Plugged	<input type="text" value="0"/>

ACTIVE WELLS (All wells that have not been plugged: AC, DG, DM, IJ, PR, SU, SI, TA, WO, XX, UN status)

Total within Area of Review	<input type="text" value="9"/>
Number Requiring Casing Repair	<input type="text" value="0"/>
Number To Be Plugged	<input type="text" value="0"/>

Operator's Area of Review Contact Email: ssunnenberg@terraep.com

No Wells within 2,640'

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Jeffrey Kirtland Signed: \_\_\_\_\_

Title: Regulatory Lead Date: \_\_\_\_\_

COGCC Approved: \_\_\_\_\_ Date: \_\_\_\_\_

Form 31 - Intent Expiration Date: \_\_\_\_\_

Per Rule 325.o, a 90 day extension of the Expiration Date may be requested via a Sundry Notice, Form 4 submitted prior to Form 31- Intent expiration

Order Number: \_\_\_\_\_ UIC FACILITY ID: 0

**CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**                      **Description**

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**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
401302673	CERTIFIED MAIL RECEIPT(S)
401302679	NOTICE TO SURFACE & MINERAL OWNERS
401308267	OFFSET WELL EVALUATION
401308342	MAP OF O&G WELLS IN AREA OF REVIEW
401308344	LIST OF WATER WELLS ¼-MILE
401308345	MAP OF SURFACE OWNERS ¼-MILE
401308346	LIST OF SURFACE OWNERS ¼-MILE
401308356	OIL & GAS WELL PLAT
401308359	SURFACE FACILITY DIAGRAM
401308360	UNIT AREA PLAT
401308515	OTHER
401308962	MAP OF WATER WELLS ¼-MILE
401309637	REMEDIAL CORRECTION PLAN FOR WELLS ¼-MILE
401309640	WELLBORE DIAGRAM-PROPOSED
401309641	WELLBORE DIAGRAM-CURRENT
401309642	OTHER
401309666	SEISMIC EVALUATION

Total Attach: 17 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
		Stamp Upon Approval

Total: 0 comment(s)