

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

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DE	ET	OE	ES
Document Number: <b>403003310</b>			
Date Received:			

**SUNDRY NOTICE**

Submit a signed original. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full in Comments or provide as an attachment. Identify Well by API Number; identify Oil and Gas Location by Location ID Number; identify other Facility by Facility ID Number.

OGCC Operator Number: <u>96850</u>	Contact Name <u>Vicki Schoeber</u>
Name of Operator: <u>TEP ROCKY MOUNTAIN LLC</u>	Phone: <u>(970) 263-2721</u>
Address: <u>1058 COUNTY ROAD 215</u>	Fax: <u>( )</u>
City: <u>PARACHUTE</u> State: <u>CO</u> Zip: <u>81635</u>	Email: <u>vschoeber@terraep.com</u>

**FORM 4 SUBMITTED FOR:**

Facility Type: WELL

API Number : 05- 103 12478 00 ID Number: 478943

Name: FEDERAL Number: RG 411-18-297

Location QtrQtr: LOT 15 Section: 7 Township: 2S Range: 97W Meridian: 6

County: RIO BLANCO Field Name: LOVE RANCH

Oil & Gas Location(s) and Oil & Gas Development Plan (OGDP) Information

Location(s)

Location ID	Location Name and Number
316408	FEDERAL RGU 23-7-297

OGDP(s)

No OGDP

**WELL LOCATION CHANGE OR AS-BUILT GPS REPORT**

Change of Location for Well \*     As-Built GPS Location Report     As-Built GPS Location Report with Survey

\* Well Location Change requires a new Plat.

SURFACE LOCATION GPS DATA    Data must be provided for Change of Surface Location and As Built Reports.

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

GPS Quality Value: \_\_\_\_\_ Type of GPS Quality Value: \_\_\_\_\_ Measurement Date: \_\_\_\_\_

Well Ground Elevation: \_\_\_\_\_ feet (Required for change of Surface Location.)

**WELL LOCATION CHANGE**

Well plan is: \_\_\_\_\_ (Vertical, Directional, Horizontal)

			FNL/FSL		FEL/FWL	
Change of <b>Surface</b> Footage <b>From</b> :			<input type="text" value="1797"/>	<input type="text" value="FSL"/>	<input type="text" value="1357"/>	<input type="text" value="FWL"/>
Change of <b>Surface</b> Footage <b>To</b> :			<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Current <b>Surface</b> Location <b>From</b>	QtrQtr	<input type="text" value="LOT 15"/>	Sec	<input type="text" value="7"/>	Twp	<input type="text" value="2S"/>
					Range	<input type="text" value="97W"/>
					Meridian	<input type="text" value="6"/>
New <b>Surface</b> Location <b>To</b>	QtrQtr	<input type="text"/>	Sec	<input type="text"/>	Twp	<input type="text"/>
					Range	<input type="text"/>
					Meridian	<input type="text"/>
Change of <b>Top of Productive Zone</b> Footage <b>From</b> :			<input type="text" value="864"/>	<input type="text" value="FNL"/>	<input type="text" value="1032"/>	<input type="text" value="FWL"/>
Change of <b>Top of Productive Zone</b> Footage <b>To</b> :			<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Current <b>Top of Productive Zone</b> Location	Sec	<input type="text" value="18"/>	Twp	<input type="text" value="2S"/>	Range	<input type="text" value="97W"/>
New <b>Top of Productive Zone</b> Location	Sec	<input type="text"/>	Twp	<input type="text"/>	Range	<input type="text"/>

\*\*

Change of **Base of Productive Zone** Footage **From:**

 FNL FWL

Change of **Base of Productive Zone** Footage **To:**

\*\*

Current **Base of Productive Zone** Location

Sec Twp Range 

New **Base of Productive Zone** Location

Sec Twp Range 

Change of **Bottomhole** Footage **From:**

 864 FNL 1032 FWL

Change of **Bottomhole** Footage **To:**

\*\*

Current **Bottomhole** Location

Sec Twp Range 

\*\* attach deviated drilling plan

New **Bottomhole** Location

Sec Twp Range 

### SAFETY SETBACK INFORMATION

Required for change of Surface Location.

Distance from Well to nearest:

Building: \_\_\_\_\_ Feet  
 Building Unit: \_\_\_\_\_ Feet  
 Public Road: \_\_\_\_\_ Feet  
 Above Ground Utility: \_\_\_\_\_ Feet  
 Railroad: \_\_\_\_\_ Feet  
 Property Line: \_\_\_\_\_ 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.

### SUBSURFACE MINERAL SETBACKS

Required for change of Top and/or Base of Productive Zone. Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? \_\_\_\_\_

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: \_\_\_\_\_ 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. \_\_\_\_\_

### LOCATION CHANGE COMMENTS

### CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT

Objective Formation	Formation Code	Spacing Order Number	Unit Acreage	Unit Configuration	Add	Modify	No Change	Delete
ILES	ILES	1-229					X	
WILLIAMS FORK	WMFK	1-229					X	

**OTHER**

**RULE 502 VARIANCE**

Order Number: \_\_\_\_\_

Description:

**REMOVE FROM SURFACE BOND** Signed surface use agreement is a required attachment

**CHANGE NAME OR NUMBER OF WELL, FACILITY, OIL & GAS LOCATION, OR OGDG**

From: Name FEDERAL Number RG 411-18-297 Effective Date: \_\_\_\_\_

To: Name \_\_\_\_\_ Number \_\_\_\_\_

**ABANDON PERMIT: Permit can only be abandoned if the permitted operation has NOT been conducted. Field inspection will be conducted to verify site status.**

WELL: Abandon Application for Permit-to-Drill (Form2) – Well API Number \_\_\_\_\_ has not been drilled.

PIT: Abandon Earthen Pit Permit (Form 15) – COGCC Pit Facility ID Number \_\_\_\_\_ has not been constructed (Permitted and constructed pit requires closure per Rule 911)

CENTRALIZED E&P WASTE MANAGEMENT FACILITY: Abandon Centralized E&P Waste Management Facility Permit (Form 28) – Facility ID Number \_\_\_\_\_ has not been constructed (Constructed facility requires closure per Rule 907)

OIL & GAS LOCATION ID Number: \_\_\_\_\_

Abandon Oil & Gas Location Assessment (Form 2A) – Location has not been constructed and site will not be used in the future.

Keep Oil & Gas Location Assessment (Form 2A) active until expiration date. This site will be used in the future.

**Surface disturbance from Oil and Gas Operations must be reclaimed per Rule 1003 and Rule 1004.**

**REQUEST FOR WELL RECORDS CONFIDENTIALITY (Rule 206.c.(1))**

**DIGITAL WELL LOG UPLOAD**

**DOCUMENTS SUBMITTED** Purpose of Submission: \_\_\_\_\_

**COMPLIANCE with CONDITION OF APPROVAL (COA) on** Form NO: \_\_\_\_\_ Document Number: \_\_\_\_\_

**RECLAMATION**

**INTERIM RECLAMATION**

Interim Reclamation will commence approximately \_\_\_\_\_

Per Rule 1003.e.(3) operator shall submit Sundry Notice reporting interim reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Interim reclamation complete, site ready for inspection.

Per Rule 1003.e(3) describe interim reclamation procedure in Comments below or provide as an attachment and attach required location photographs.

**Field inspection will be conducted to document Rule 1003.e. compliance**

**FINAL RECLAMATION**

Final Reclamation will commence approximately \_\_\_\_\_

Per Rule 1004.c.(4) operator shall submit Sundry Notice reporting final reclamation is complete and site is ready for inspection when vegetation reaches 80% coverage.

Final reclamation complete, site ready for inspection. Per Rule 1004.c(4) describe final reclamation procedure in Comments below or provide as an attachment.

**Field inspection will be conducted to document Rule 1004.c. compliance**

Comments:

**ENGINEERING AND ENVIRONMENTAL WORK**

NOTICE OF CONTINUED TEMPORARILY ABANDONED STATUS

Indicate why the well is temporarily abandoned and describe future plans for utilization in the COMMENTS box below, as required by Rule 434.b.(3).

Date well temporarily abandoned \_\_\_\_\_

Has Production Equipment been removed from site? \_\_\_\_\_

Mechanical Integrity Test (MIT) required. Date of last MIT \_\_\_\_\_

**TECHNICAL ENGINEERING AND ENVIRONMENTAL WORK**

Details of work must be described in full in the COMMENTS below or provided as an attachment.

NOTICE OF INTENT/REQUEST FOR APPROVAL      Approximate Start Date 06/01/2022

SUBSEQUENT REPORT      Date of Activity \_\_\_\_\_

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Bradenhead Plan  | <input type="checkbox"/> Venting or Flaring (Rule 903) | <input type="checkbox"/> E&P Waste Mangement           |
| <input checked="" type="checkbox"/> Change Drilling Plan  | <input type="checkbox"/> Repair Well                   | <input type="checkbox"/> Beneficial Reuse of E&P Waste |
| <input type="checkbox"/> Gross Interval Change  |  |  |
| <input type="checkbox"/> Underground Injection Control  |  |  |
| <input type="checkbox"/> Request approval of Reuse and Recycling Plan per Rule 905.a.(3). (Reuse and Recycling Plan must be attached.)                    |  |  |
| <input type="checkbox"/> Request approval of Alternative Sampling Plan per Rule 909.j.(6). for this Pit. (Alternative Sampling Program must be attached.) |  |  |
| <input type="checkbox"/> Other  |  |  |

Request that an existing produced water sample from the same formation be used per Rule 909.j.(6) to meet the requirements of Rule 909.j.(1)-(5) for this Well.

Pit ID \_\_\_\_\_ Pit Name \_\_\_\_\_

(No Sample Provided)

Subsequent well operations with heavy equipment (Rule 312)

(No Well Provided)

**COMMENTS:**

TEP Rocky Mountain LLC (TEP) requests a design change to the Federal RG 411-18-297 wellbore. TEP's proposal with respect to well design, encompasses drilling a 17-1/2" surface section to approximately 1358' MD and running 13-3/8" surface casing to ~200 ft TVD above the dissolution loss zone. This would enable TEP to set this surface casing and establish effective cement returns to surface remedial operations. That would provide a competent surface shoe in place as well as the option to nipple up the BOP for a secure air drilled intermediate section through the highly fractured dissolution zone. The 12-1/4" intermediate section would be drilled to approximately 3386' MD (500' TVD into Wasatch) followed by running 9-5/8" 36# J-55 intermediate casing - functioning as a fracture gradient isolation string. The purpose of cement for the 9-5/8" intermediate string is to provide sufficient drilling mud weight at TD for the following production section and TOC is planned to be 500' MD above the Wasatch formation and utilizing 50% excess with a single stage slurry.

**Hole design:**

Surface hole size - 17.5" to 200' TVD above Dissolution Surface  
 Surface casing - 13.375", J-55, BTC, 54.5#  
 Intermediate hole size - 12.25" to TD 500' TVD into the Wasatch  
 Intermediate casing - 9.625", J-55, LTC, 36#

**Cement design:**

Surface Casing - 12.3# Single stage slurry with 40% excess (cement to surface)  
 Intermediate - Single stage slurry  
 12.3# Lead with TOC 500' MD above the Wasatch with 50% excess  
 12.8# Tail from TD to 500' MD above float shoe with 50% excess

Proposed total measured depth - 12003', TVD at proposed measured depth - 11543'  
 Conductor information is actual as drilled data.

**GAS CAPTURE**

**VENTING AND FLARING:**

Operation type: \_\_\_\_\_ Operational phase requiring venting/flaring: \_\_\_\_\_

Reason for venting/flaring: \_\_\_\_\_

Describe Other reason for venting/flaring:

\_\_\_\_\_

Describe why venting or flaring is necessary. If reporting per Rule 903.b.(2), 903.c.(3).C, or 903.d.(2), include the explanation, rationale, and cause of the event:

\_\_\_\_\_

Describe how the operation will protect and minimize adverse impacts to public health, safety, welfare, the environment, and wildlife resources. If reporting per Rule 903.d.(2), include BMPs used to minimize venting on the BMP Tab:

\_\_\_\_\_

Total volume of gas vented or flared: \_\_\_\_\_ mcf  estimated  measured

Total duration of emission event: \_\_\_\_\_ hours  consecutive  cumulative

Submit a single representative gas analysis via Form 43 to create a Sample Site Facility ID# for this Location. Reference the Form 43 document number on the Related Forms tab.

Sample Site Facility ID#: \_\_\_\_\_

**GAS CAPTURE PLAN**

Describe the plan to connect to a gathering line or beneficially use the gas; include anticipated timeline:

\_\_\_\_\_

A Gas Capture Plan that meets the requirements of Rule 903.e is attached.

**CASING PROGRAM**

<u>Casing Type</u>	<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Grade</u>	<u>Wt/Ft</u>	<u>Csg/Liner Top</u>	<u>Setting Depth</u>	<u>Sacks Cmt</u>	<u>Cmt Btm</u>	<u>Cmt Top</u>
CONDUCTOR	30	20	X-52	52.78	0	85	201	85	0
SURF	17+1/2	13+3/8	J-55	54.5	0	1358	443	1358	0
1ST	12+1/4	9+5/8	J-55	36	0	3386	159	3386	2352

2ND	8+3/4	4+1/2	P-110	11.6	0	12003	931	12003	6815
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**POTENTIAL FLOW AND CONFINING FORMATIONS**

<b>Zone Type</b>	<b>Formation /Hazard</b>	<b>Top M.D.</b>	<b>Top T.V.D.</b>	<b>Bottom M.D.</b>	<b>Bottom T.V.D.</b>	<b>TDS (mg/L)</b>	<b>Data Source</b>	<b>Comment</b>
Groundwater	UINTA	30	30	898	888	501-1000	Produced Water Sample	
Groundwater	GRRV	898	888	1060	1043	501-1000	Produced Water Sample	
Subsurface Hazard	GRRV A GROOVE	1060	1043	1262	1233			
Subsurface Hazard	GRRV B GROOVE	1262	1233	1572	1523			
Subsurface Hazard	GRRV DISSOLUTION SURF	1572	1523	2607	2493			
Confining Layer	GRRV ORANGE	2607	2493	2852	2723			
Confining Layer	U WASATCH	2852	2723	5318	5033			
Hydrocarbon	G SAND	5318	5033	5585	5283			
Hydrocarbon	FRUN	5585	5283	7015	6623			
Hydrocarbon	OCRK	7015	6623	8340	7883			
Hydrocarbon	APPROX TOP GAS	8340	7883	10493	10033			
Hydrocarbon	CAMEO	10493	10033	11013	10553			
Hydrocarbon	RLNS	11013	10553	11163	10703			
Hydrocarbon	CZZT	11163	10703	11383	10923			
Hydrocarbon	CRCN	11383	10923	11733	11273			
Hydrocarbon	SEGO	11733	11273	11903	11443			
Hydrocarbon	LOWER SEGO	11903	11443	12003	11543			

**H2S REPORTING**

- Intentional release of H2S gas due to Upset Condition or malfunction.
- Intent to temporarily abandon well with potential H2S concentration >100 ppm.

Data Fields in this section are intended to document Sample and Location Data associated with the collection of a Gas Sample that is submitted for Laboratory Analysis.

Gas Analysis Report must be attached.

H2S Concentration: \_\_\_\_\_ in ppm (parts per million)                      Date of Measurement or Sample Collection \_\_\_\_\_

Description of Sample Point:

Absolute Open Flow Potential \_\_\_\_\_ in CFPD (cubic feet per day)

Description of Release Potential and Duration (If flow is not open to the atmosphere, identify the duration in which the container or pipeline would likely be opened for servicing operations.):

Distance to nearest occupied residence, school, church, park, school bus stop, place of business, or other areas where the public could reasonably be expected to frequent: \_\_\_\_\_

Distance to nearest Federal, State, County, or municipal road or highway owned and principally maintained for public use: \_\_\_\_\_

COMMENTS:

**OIL & GAS LOCATION UPDATES**

OGDP ID \_\_\_\_\_ OGDP Name \_\_\_\_\_

**SITE EQUIPMENT LIST UPDATES**

Indicate the number and type of major equipment components planned for use on this Oil and Gas Location:

Wells _____	Oil Tanks _____	Condensate Tanks _____	Water Tanks _____	Buried Produced Water Vaults _____
Drilling Pits _____	Production Pits _____	Special Purpose Pits _____	Multi-Well Pits _____	Modular Large Volume Tank _____
Pump Jacks _____	Separators _____	Injection Pumps _____	Heater-Treaters _____	Gas Compressors _____
Gas or Diesel Motors _____	Electric Motors _____	Electric Generators _____	Fuel Tanks _____	LACT Unit _____
Dehydrator Units _____	Vapor Recovery Unit _____	VOC Combustor _____	Flare _____	Enclosed Combustion Devices _____
Meter/Sales Building _____	Pigging Station _____	Vapor Recovery Towers _____		

**OTHER PERMANENT EQUIPMENT UPDATES**

**OTHER TEMPORARY EQUIPMENT UPDATES**

**CULTURAL AND SAFETY SETBACK UPDATES**

**OTHER LOCATION CHANGES AND UPDATES**

Provide a description of other changes or updates to technical information for this Location:

**POTENTIAL OGDP UPDATES**

**PROPOSED CHANGES TO AN APPROVED OGDP**

This Sundry Form 4 is being submitted pursuant to Rule 301.c to propose changes to an approved Oil and Gas Development Plan.

Check all boxes that pertain to the type(s) of changes being proposed for this OGDP:

- |  |  |
|--|--|
| <input type="checkbox"/> Add Oil and Gas Location(s)                     | <input type="checkbox"/> Add Drilling and Spacing Unit(s)    |
| <input type="checkbox"/> Amend Oil and Gas Location(s)                   | <input type="checkbox"/> Amend Drilling and Spacing Unit(s)  |
| <input type="checkbox"/> Remove Oil and Gas Location(s)                  | <input type="checkbox"/> Remove Drilling and Spacing Unit(s) |
| <input type="checkbox"/> Oil and Gas Location attachment or plan updates | <input type="checkbox"/> Amend the lands subject to the OGDP |
| <input type="checkbox"/> Other   |  |

Provide a detailed description of the changes being proposed for this OGDP. Attach supporting documentation such as maps if necessary.

## Best Management Practices

**No BMP/COA Type**

**Description**

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Operator Comments:

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

Signed: \_\_\_\_\_ Print Name: Vicki Schoeber  
Title: Regulatory Specialist Email: vschoeber@terraep.com Date: \_\_\_\_\_

Based on the information provided herein, this Sundry Notice (Form 4) complies with COGCC Rules and applicable orders and is hereby approved.

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

### **CONDITIONS OF APPROVAL, IF ANY:**

**COA Type**

**Description**

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### General Comments

**User Group**

**Comment**

**Comment Date**

		Stamp Upon Approval

Total: 0 comment(s)

### Attachment List

**Att Doc Num**

**Name**

403008319	DIRECTIONAL DATA
403008320	DEVIATED DRILLING PLAN

Total Attach: 2 Files