

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

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
Document Number: <b>403003317</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: 96850 Contact Name Vicki Schoeber  
 Name of Operator: TEP ROCKY MOUNTAIN LLC Phone: (970) 263-2721  
 Address: 1058 COUNTY ROAD 215 Fax: ( )  
 City: PARACHUTE State: CO Zip: 81635 Email: vschoeber@terraep.com

**FORM 4 SUBMITTED FOR:**

Facility Type: WELL  
 API Number : 05- 103 12477 00 ID Number: 478942  
 Name: FEDERAL Number: RG 12-18-297  
 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="1794"/>	<input type="text" value="FSL"/>	<input type="text" value="1372"/>	<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="1599"/>	<input type="text" value="FNL"/>	<input type="text" value="1019"/>	<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:**

 1599 FNL 1019 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

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



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 12-18-297 wellbore. TEP's proposal with respect to well design, encompasses drilling a 17-1/2" surface section to approximately 1340' 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 3466' 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 - 12259', TVD at proposed measured depth - 11503'  
 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	89	211	89	0
SURF	17+1/2	13+3/8	J-55	54.5	0	1340	438	1340	0
1ST	12+1/4	9+5/8	J-55	36	0	3466	162	3466	2406

2ND	8+3/4	4+1/2	P-110	11.6	0	12259	935	12259	7051
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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	887	878	501-1000	Produced Water Sample	
Groundwater	GRRV	887	878	1049	1033	501-1000	Produced Water Sample	
Subsurface Hazard	GRRV A GROOVE	1049	1033	1252	1223			
Subsurface Hazard	GRRV B GROOVE	1252	1223	1562	1503			
Subsurface Hazard	GRRV DISSOLUTION SURF	1562	1503	2648	2473			
Confining Layer	GRRV ORANGE	2648	2473	2906	2703			
Confining Layer	U WASATCH	2906	2703	5493	5013			
Hydrocarbon	G SAND	5493	5013	5750	5243			
Hydrocarbon	FRUN	5750	5243	7251	6583			
Hydrocarbon	OCRK	7251	6583	8596	7843			
Hydrocarbon	APPROX TOP GAS	8596	7843	10749	9993			
Hydrocarbon	CAMEO	10749	9993	11269	10513			
Hydrocarbon	RLNS	11269	10513	11419	10663			
Hydrocarbon	CZZT	11419	10663	11639	10883			
Hydrocarbon	CRCN	11639	10883	11989	11233			
Hydrocarbon	SEGO	11989	11233	12159	11403			
Hydrocarbon	LOWER SEGO	12159	11403	12259	11503			

**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 \_\_\_\_\_ OGD 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 OGD UPDATES**

**PROPOSED CHANGES TO AN APPROVED OGD**

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 OGD:

- |  |  |
|--|--|
| <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 OGD  |
| <input type="checkbox"/> Other   |  |

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

## Best Management Practices

**No BMP/COA Type**

**Description**

No BMP/COA Type	Description

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**

COA Type	Description

### General Comments

**User Group**

**Comment**

**Comment Date**

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)

### Attachment List

**Att Doc Num**

**Name**

403008327	DIRECTIONAL DATA
403008330	DEVIATED DRILLING PLAN

Total Attach: 2 Files