

**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>402603028</b>			
Date Received: <b>03/10/2021</b>			

**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: PO BOX 370 Fax: ( )  
 City: PARACHUTE State: CO Zip: 81635 Email: vschoeber@terraep.com

Complete the Attachment  
Checklist

OP OGCC

API Number : 05- 103 12472 00 OGCC Facility ID Number: 478389  
 Well/Facility Name: FEDERAL Well/Facility Number: RG 541-18-297  
 Location QtrQtr: NWNE Section: 18 Township: 2S Range: 97W Meridian: 6  
 County: RIO BLANCO Field Name: SULPHUR CREEK  
 Federal, Indian or State Lease Number: COC70220

Survey Plat		
Directional Survey		
Srfc Eqpmt Diagram		
Technical Info Page		
Other		

**CHANGE OF LOCATION OR AS BUILT GPS REPORT**

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

\* Well location change requires new plat. A substantive surface location change may require new Form 2A.

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

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

**LOCATION CHANGE (all measurements in Feet)**

Well will be: \_\_\_\_\_ (Vertical, Directional, Horizontal)

Change of **Surface** Footage **From** Exterior Section Lines:

	FNL/FSL		FEL/FWL
670	FNL	2109	FEL

Change of **Surface** Footage **To** Exterior Section Lines:

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Current **Surface** Location **From** QtrQtr NWNE Sec 18

Twp <u>2S</u>	Range <u>97W</u>	Meridian <u>6</u>
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New **Surface** Location **To** QtrQtr \_\_\_\_\_ Sec \_\_\_\_\_

Twp _____	Range _____	Meridian _____
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Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:

1025	FNL	719	FEL
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Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:

			**
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Current **Top of Productive Zone** Location **From** Sec 18

Twp <u>2S</u>	Range <u>97W</u>
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New **Top of Productive Zone** Location **To** Sec \_\_\_\_\_

Twp _____	Range _____
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Change of **Bottomhole** Footage **From** Exterior Section Lines:

1025	FNL	719	FEL
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Change of **Bottomhole** Footage **To** Exterior Section Lines:

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Current **Bottomhole** Location Sec 18 Twp 2S Range 97W

\*\* attach deviated drilling plan

New **Bottomhole** Location Sec \_\_\_\_\_ Twp \_\_\_\_\_ Range \_\_\_\_\_

Is location in High Density Area? \_\_\_\_\_

Distance, in feet, to nearest building \_\_\_\_\_, public road: \_\_\_\_\_, above ground utility: \_\_\_\_\_, railroad: \_\_\_\_\_,

property line: \_\_\_\_\_, lease line: \_\_\_\_\_, well in same formation: \_\_\_\_\_

Ground Elevation \_\_\_\_\_ feet Surface owner consultation date \_\_\_\_\_



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 or provide as an attachment, as required by Rule 319.b.(3).

Date well temporarily abandoned \_\_\_\_\_ Has Production Equipment been removed from site? \_\_\_\_\_

Mechanical Integrity Test (MIT) required if shut in longer than 2 years. Date of last MIT \_\_\_\_\_

SPUD DATE: \_\_\_\_\_

**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 Approximate Start Date 03/10/2021

REPORT OF WORK DONE Date Work Completed \_\_\_\_\_

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Intent to Recomplete (Form 2 also required) | <input type="checkbox"/> Request to Vent or Flare   | <input type="checkbox"/> E&P Waste Mangement Plan      |
| <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"/> Rule 502 variance requested. Must provide detailed info regarding request. |  |
| <input type="checkbox"/> Bradenhead Plan                             | <input type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases          |  |
| <input type="checkbox"/> Other _____                                 |   |  |

**COMMENTS:**

TEP Rocky Mountain LLC (TEP) requests a design change to the Federal RG 541-18-297 wellbore. TEP's proposal with respect to well design, encompasses drilling a 17-1/2" surface section to approximately 1418' and running 13-3/8" surface casing to ~200 ft above the dissolution loss zone. This would enable TEP to set this surface casing and establish effective cement returns to surface avoiding further doubt of cement integrity and 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 the original permitted depth at approximately 3235' (500' into Wasatch) followed by running 9-5/8" 36# J-55 intermediate casing - functioning as a fracture gradient isolation contingency string. The purpose of cement for the 9-5/8" intermediate contingency string is to provide sufficient drilling mud weight at TD for the following production section and TOC is planned to be 500 ft above the Wasatch formation and utilizing 50% excess with a single stage slurry.

Hole design:

Surface hole size 17.5" to ~1418' MD and approx. 200' above Dissolution Surface.  
 Surface casing – 13.375", J-55, BTC, 54.5#  
 Intermediate hole size – 12.25" to TD 500' into the Wasatch same as permitted.  
 Intermediate casing – 9.625", J-55, LTC, 36# is the same specs as permitted.

Cement design:

Surface Casing – 12.3# Single stage slurry with 40% excess  
 Intermediate – Single stage slurry  
 12.3# Lead with TOC ~500' MD above the Wasatch with 50% excess.  
 12.8# Tail from TD to 500' above float shoe.

Note: Directional plans are on file and have not changed. The Blow Out Preventer (BOP) will be changed out from an 11" 5K to a 13 5/8" 5K BOP.

**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-65	78.67	0	84	199	84	0
SURF	17+1/2	13+3/8	J-55	54.5	0	1418	463	1418	0
1ST	12+1/4	9+5/8	J-55	36	0	3235	154	3235	2235
2ND	8+3/4	4+1/2	P-110	11.6	0	12060	970	12060	6678

**POTENTIAL FLOW AND CONFINING FORMATIONS**

<u>Zone Type</u>	<u>Formation /Hazard</u>	<u>Top M.D.</u>	<u>Top T.V.D.</u>	<u>Bottom M.D.</u>	<u>Bottom T.V.D.</u>	<u>TDS (mg/L)</u>	<u>Data Source</u>	<u>Comment</u>
Groundwater	Uinta	0	0	945	936	1001-10000	Other	Division of Reclamation, Mining and Safety Study
Groundwater	Green River	945	936	1108	1096	501-1000	Other	Division of Reclamation, Mining and Safety Study
Groundwater	A Groove	1108	1096	1297	1281	501-1000	Other	Division of Reclamation, Mining and Safety Study
Groundwater	B Groove	1297	1281	1618	1596	501-1000	Other	Division of Reclamation, Mining and Safety Study
Subsurface Hazard	Dissolution Surface	1618	1596	2526	2486			Lost Circulation Zone
Subsurface Hazard	Orange Marker	2526	2486	2735	2691			Lost Circulation Zone
Confining Layer	Wasatch	2735	2691	5174	5081			
Subsurface Hazard	Top of G Sand	5174	5081	5511	5411			Lost Circulation Zone
Hydrocarbon	Fort Union	5511	5411	6878	6751			
Subsurface Hazard	Ohio Creek	6878	6751	6878	6751			Lost Circulation Zone
Hydrocarbon	Mesaverde	6878	6751	7980	7841			
Hydrocarbon	Approx Top Gas	7980	7841	10330	10191			
Hydrocarbon	Cameo Coals	10330	10191	10910	10771			
Hydrocarbon	Rollins SS	10910	10771	11060	10921			
Hydrocarbon	Cozzette	11060	10921	11280	11141			
Hydrocarbon	Corcoran	11280	11141	11640	11501			
Hydrocarbon	Upper Segó	11640	11501	11940	11801			
Hydrocarbon	Lower Segó	11940	11801	12060	11921			

**H2S REPORTING**

**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:

### **Best Management Practices**

**No BMP/COA Type**

**Description**

Operator Comments:

[Empty box for 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: 3/10/2021

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

COGCC Approved: Katz, Aaron Date: 3/11/2021

**CONDITIONS OF APPROVAL, IF ANY:**

<u>COA Type</u>	<u>Description</u>
	1)Cement COA: Operator shall provide cement coverage from the intermediate casing shoe (9 5/8" FIRST STRING) to a minimum of 500' above the top of the Wasatch formation.

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Offset Well Evaluation: Existing offset oil and gas wells within 1,500 feet of this wellbore meet standards. No mitigation required.  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 12,104 feet. None of the water wells within one mile are for domestic use. API # 103-09997 is the well issued with this water well permit. The well produces gas from the Williams Fork.	03/11/2021

Total: 1 comment(s)

**Attachment List**

<u>Att Doc Num</u>	<u>Name</u>
402603028	SUNDRY NOTICE APPROVED-DRLG-CSG
402606630	OTHER
402608182	OTHER
402625532	FORM 4 SUBMITTED

Total Attach: 4 Files