FORM 4
Rev 11/20

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: 402603004

Date Received: 03/10/2021

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 12463 00 OGCC Facility ID Number: 478380

Well/Facility Name: FEDERAL Well/Facility Number: RG 344-7-297

Location QtrQtr: NWNE Section: 18 Township: 2S Range: 97W Meridian: 6

County: RIO BLANCO Field Name: SULPHUR CREEK

Federal, Indian or State Lease Number: COC057285

Attachment Checklist	OP	OGCC
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)

	FNL/FSL		FEL/FWL	
Change of **Surface** Footage **From** Exterior Section Lines:	661	FNL	2094	FEL
Change of **Surface** Footage **To** Exterior Section Lines:				

Current **Surface** Location **From** QtrQtr NWNE Sec 18 Twp 2S Range 97W Meridian 6

New **Surface** Location **To** QtrQtr Sec Twp Range Meridian

Change of **Top of Productive Zone** Footage **From** Exterior Section Lines:	129	FSL	645	FEL
Change of **Top of Productive Zone** Footage **To** Exterior Section Lines:				**

Current **Top of Productive Zone** Location **From** Sec 7 Twp 2S Range 97W

New **Top of Productive Zone** Location **To** Sec Twp Range

Change of **Bottomhole** Footage **From** Exterior Section Lines:	129	FSL	645	FEL
Change of **Bottomhole** Footage **To** Exterior Section Lines:				**

Current **Bottomhole** Location Sec 7 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 _____

CHANGE OR ADD OBJECTIVE FORMATION AND/OR SPACING UNIT

Objective Formation	Formation Code	Spacing Order Number	Unit Acreage	Unit Configuration

OTHER CHANGES

- [ ] **REMOVE FROM SURFACE BOND** **Signed surface use agreement is a required attachment**
- [ ] **CHANGE OF WELL, FACILITY OR OIL & GAS LOCATION NAME OR NUMBER**

From: Name FEDERAL Number RG 344-7-297 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 905)
  - [ ] 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 908)

  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 CONFIDENTIAL STATUS**
- [ ] **DIGITAL WELL LOG UPLOAD**
- [ ] **DOCUMENTS SUBMITTED** Purpose of Submission: _____

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 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 _____

☐ Intent to Recomplete (Form 2 also required)	☐ Request to Vent or Flare	☐ E&P Waste Mangement Plan
☒ Change Drilling Plan	☐ Repair Well	☐ Beneficial Reuse of E&P Waste
☐ Gross Interval Change	☐ Rule 502 variance requested. Must provide detailed info regarding request.	
☐ Bradenhead Plan	☐ Status Update/Change of Remediation Plans for Spills and Releases	
☐ Other _____		

COMMENTS:

TEP Rocky Mountain LLC (TEP) requests a design change to the Federal RG 344-7-297 wellbore. TEP's proposal with respect to well design, encompasses drilling a 17-1/2" surface section to approximately 1440' 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 3281' (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 ~1440' 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

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	X-65	78.67	0	84	199	84	0
SURF	17+1/2	13+3/8	J-55	54.5	0	1440	470	1440	0
1ST	12+1/4	9+5/8	J-55	36	0	3281	154	3281	2281
2ND	8+3/4	4+1/2	P-110	11.6	0	12199	970	12199	6815

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
Groundwater	Uinta	0	0	961	951	1001-10000	Other	Division of Reclamation, Mining and Safety Study
Groundwater	Green River	961	951	1126	1111	501-1000	Other	Division of Reclamation, Mining and Safety Study
Groundwater	A Groove	1126	1111	1316	1296	501-1000	Other	Division of Reclamation, Mining and Safety Study
Groundwater	B Goove	1316	1296	1640	1611	501-1000	Other	Division of Reclamation, Mining and Safety Study
Subsurface Hazard	Dissolution Surface	1640	1611	2570	2516			Lost Circulation Zone
Subsurface Hazard	Orange Marker	2570	2516	2781	2721			Lost Circulation Zone
Confining Layer	Wasatch	2781	2721	5268	5141			
Subsurface Hazard	Top of G Sand	5268	5141	5607	5471			Lost Circulation Zone
Hydrocarbon	Fort Union	5607	5471	7015	6841			
Hydrocarbon	Mesaverde	7015	6841	8119	7931			
Subsurface Hazard	Ohio Creek	7015	6841	7015	6841			Lost Circulation Zone
Hydrocarbon	Approx Top Gas	8119	7931	10469	10281			
Hydrocarbon	Cameo Coals	10469	10281	11049	10861			
Hydrocarbon	Rollins SS	11049	10861	11199	11011			
Hydrocarbon	Cozzette	11199	11011	11419	11231			
Hydrocarbon	Corcoran	11419	11231	11779	11591			
Hydrocarbon	Upper Sego	11779	11591	12079	11891			
Hydrocarbon	Lower Sego	12079	11891	12199	12011			

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:

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:

COA Type	Description
	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

User Group	Comment	Comment Date
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

Att Doc Num	Name
402603004	SUNDRY NOTICE APPROVED-DRLG-CSG
402606591	OTHER
402608173	OTHER
402625452	FORM 4 SUBMITTED

Total Attach: 4 Files