

FORM  
INSPRev  
X/20State of Colorado  
Oil and Gas Conservation Commission1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109

Inspection Date:

04/21/2023

Submitted Date:

04/24/2023

Document Number:

702801487

## FIELD INSPECTION FORM

 Loc ID 335045 Inspector Name: O'Malley, Anna On-Site Inspection  2A Doc Num: \_\_\_\_\_
**Operator Information:**OGCC Operator Number: 96850Name of Operator: TEP ROCKY MOUNTAIN LLCAddress: 1058 COUNTY ROAD 215City: PARACHUTE State: CO Zip: 81635**Status Summary:**

- THIS IS A FOLLOW UP INSPECTION
- FOLLOW UP INSPECTION REQUIRED
- NO FOLLOW UP INSPECTION REQUIRED

**Findings:**16 Number of Comments6 Number of Corrective Actions

- 
- Corrective Action Response Requested

**ANY CORRECTIVE ACTION(S) FROM PREVIOUS INSPECTIONS THAT HAVE NOT BEEN ADDRESSED ARE STILL APPLICABLE****Contact Information:**

Contact Name	Phone	Email	Comment
Mike Gardner		mgardner@terraep.com	
, TEP		COGCCInspectionReports@terraep.com	<a href="#">All Inspections</a>
Trujillo, Aaron		aaron.trujillo@state.co.us	

**Inspected Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
299205	WELL	PR	05/23/2011	GW	045-17609	SOUTH LEVERICH 13-10A	RI
299206	WELL	PR	10/30/2009	GW	045-17610	SOUTH LEVERICH 13-07B	RI
299207	WELL	PR	10/25/2009	GW	045-17611	SOUTH LEVERICH 13-09D	RI
301622	WELL	PR	02/02/2011	GW	045-18208	SOUTH LEVERICH 18-05D	RI
483796	WELL	AP	02/03/2023		045-24554	Leverich SR 322-13	RI
483797	WELL	AP	02/03/2023		045-24555	Leverich SR 321-24	RI
483798	WELL	AP	02/03/2023		045-24556	Leverich WMC 412-18-793	RI
483799	WELL	AP	02/03/2023		045-24557	Leverich WMC 523-18-793	RI
483800	WELL	AP	02/03/2023		045-24558	Leverich WMC 423-18-793	RI
483801	WELL	AP	02/03/2023		045-24559	Leverich WMC 514-18-793	RI
483802	WELL	AP	02/03/2023		045-24560	Leverich SR 523-13	RI
483803	WELL	AP	02/03/2023		045-24561	Leverich SR 423-13	RI
483804	WELL	AP	02/03/2023		045-24562	Leverich WMC 414-18-793	RI
483805	WELL	AP	02/03/2023		045-24563	Leverich SR 24-13	RI
483806	WELL	AP	02/03/2023		045-24564	Leverich SR 323-13	RI
483807	WELL	AP	02/03/2023		045-24565	Leverich SR 421-24	RI
483808	WELL	AP	02/03/2023		045-24566	Leverich SR 422-13	RI
483809	WELL	AP	02/03/2023		045-24567	Leverich SR 524-13	RI
483810	WELL	AP	02/03/2023		045-24568	Leverich SR 521-24	RI

483811	WELL	AP	02/03/2023		045-24569	Leverich SR 324-13	RI
483812	WELL	AP	02/03/2023		045-24570	Leverich WMC 512-18-793	RI
483813	WELL	AP	02/03/2023		045-24571	Leverich WMC 314-18-793	RI
483814	WELL	AP	02/03/2023		045-24572	Leverich SR 21-24	RI
483815	WELL	AP	02/03/2023		045-24573	Leverich SR 511-18	RI
483816	WELL	AP	02/03/2023		045-24574	Leverich SR 424-13	RI

**General Comment:**

On 4/21/2023, Reclamation Specialists O'Malley and Trujillo conducted a construction and stormwater inspection at TEP's South Leverich 13-09 Pad Location #335045 in Garfield County, Colorado.

The following compliance issues were observed during this inspection:

- 1002.b: Topsoil segregation
- 1002.c: Topsoil protection
- 1002.e: Surface disturbance minimization
- 1002.f: Stormwater

Refer to the "Location," "Construction," "Reclamation," "Stormwater" and "COGCC Comments" sections of this inspection report for additional details.

Refer to the photo-documentation of the observed compliance issues attached to this report.

Any corrective action(s) from previous inspections that have not been addressed are still applicable.

A follow up inspection on this site will be conducted to ensure the compliance issues have been addressed.

**Location**

Overall Good:

<b>Signs/Marker:</b>			
Type	OTHER		
Comment:	Permit information per Rule 406.c observed at Location sign. Documents were saturated and frozen together; Inspector unable to read the documents.		
Corrective Action:		Date:	

Emergency Contact Number:

Comment:

Corrective Action:

Date: \_\_\_\_\_

Overall Good:

<b>Spills:</b>				
Type	Area	Volume		

In Containment: No

Comment:

Multiple Spills and Releases?

**Venting:**

Yes/No			
Comment:			
Corrective Action:		Date:	

**Flaring:**

Type		
Comment:		
Corrective Action:		Date:

**Location Construction**

Location ID:  CDP:

Comment:

Corrective Action:

Date: \_\_\_\_\_

**Form 2A COAs:**

Comment:

Corrective Action:

Date: \_\_\_\_\_

**Wildlife BMPs:**

Comment:

Corrective Action:

Date: \_\_\_\_\_

**Stormwater:**

Erosion BMPs	Present	Other BMPs	Present
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WADDLES	Yes				
<p>Comments: Erosion BMPs: <span style="color:red">Straw wattles were present around the perimeter of the southern topsoil stockpile. Some wattle were observed not to be installed in accordance with good engineering practices; wattles not trenched and backfilled.</span></p> <p>Other BMPs: <span style="color:red">Hydromulch was applied as a stabilization control on the topsoil stockpile at the south of the Location. Mulch is not evenly distributed to cover the entire exposed soil surface. It appears mulch has not been applied from multiple angles to prevent shadow. Operator shall continue to monitor topsoil protection BMPs and apply additional hydromulch as necessary to protect topsoil from degradation.</span></p>					
Corrective Action: <span style="color:red">Install or repair BMPs per Rule 1002.f and 1002.c.</span>					Date: 04/26/2023

<p>Comments: Erosion BMPs: <span style="color:red">Sediment trap inlets and outlets are installed with a geotextile liner and armored with rip-rap.</span></p> <p>Other BMPs: <span style="color:red">Sediment traps at the west of the location appear to be designed to discharge stormwater directly into an unvegetated, unstabilized topsoil berm. BMP does not appear to have been installed in accordance with good engineering practices. Operator shall ensure sediment trap outlet does not cause degradation to the location.</span></p>					
Corrective Action:					Date:

DITCHES	Yes				
<p>Comments: Erosion BMPs: <span style="color:red">A diversion ditch is present along the Location perimeter. Construction of the ditch does not appear to be in accordance with good engineering practices. Portions of the channel appear incomplete. The ditch is only a small depression in some areas while in others the channel appears to be a properly constructed v ditch. Soil within the ditch is loose and unconsolidated and is a pollutant source; BMP requires proper consolidation upon completion of ditch construction.</span></p> <p>Other BMPs: <span style="color:red">Velocity checks have been installed within the perimeter ditch.</span></p>					
Corrective Action:					Date:

<p>Comments: Erosion BMPs: <span style="color:red">Controls to stabilize the cut and fill slopes of the Location are missing/insufficient. Operator's Stormwater Management Plan (#403111040) states cut and fill slopes will be hydro-mulched following completion of pad construction. It appears construction of cut and fill slopes is complete. Soils are loose, unconsolidated and unstabilized.</span></p> <p>Other BMPs: <span style="color:red">Erosion control bags installed at the base of the fill slope (mapped disturbance boundary) and portions of the location perimeter berm (actual disturbance boundary). Erosion control bags are in disrepair at the western perimeter of the location.</span></p>					
Corrective Action: <span style="color:red">Install or repair BMPs per Rule 1002.f.</span>					Date: 04/27/2023

		Material Handling And Spill Prevention		No	
<p>Comments: Erosion BMPs: <span style="color:red">Portable toilet on location observed not to be secured to prevent a spill.</span></p>					
Corrective Action: <span style="color:red">Implement or modify BMPs for improved material handling and spill prevention.</span>					Date: 04/29/2023

**Comment:**

**Corrective Action:**  **Date:** \_\_\_\_\_

Surface Owner Contact Information:

Name: \_\_\_\_\_ Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Operator Rep. Contact Information:

Landman Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Date Onsite Request Received: \_\_\_\_\_ Date of Rule 306 Consultation: \_\_\_\_\_

Request LGD Attendance: \_\_\_\_\_

LGD Contact Information:

Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_ Agreed to Attend: \_\_\_\_\_

Summary of Landowner Issues:

\_\_\_\_\_

Summary of Operator Response to Landowner Issues:

\_\_\_\_\_

Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

\_\_\_\_\_

## Inspected Facilities

Facility ID: <u>299205</u>	Type: <u>WELL</u>	API Number: <u>045-17609</u>	Status: <u>PR</u>	Insp. Status: <u>RI</u>
Facility ID: <u>299206</u>	Type: <u>WELL</u>	API Number: <u>045-17610</u>	Status: <u>PR</u>	Insp. Status: <u>RI</u>
Facility ID: <u>299207</u>	Type: <u>WELL</u>	API Number: <u>045-17611</u>	Status: <u>PR</u>	Insp. Status: <u>RI</u>
Facility ID: <u>301622</u>	Type: <u>WELL</u>	API Number: <u>045-18208</u>	Status: <u>PR</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483796</u>	Type: <u>WELL</u>	API Number: <u>045-24554</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483797</u>	Type: <u>WELL</u>	API Number: <u>045-24555</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483798</u>	Type: <u>WELL</u>	API Number: <u>045-24556</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483799</u>	Type: <u>WELL</u>	API Number: <u>045-24557</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483800</u>	Type: <u>WELL</u>	API Number: <u>045-24558</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483801</u>	Type: <u>WELL</u>	API Number: <u>045-24559</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483802</u>	Type: <u>WELL</u>	API Number: <u>045-24560</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483803</u>	Type: <u>WELL</u>	API Number: <u>045-24561</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483804</u>	Type: <u>WELL</u>	API Number: <u>045-24562</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483805</u>	Type: <u>WELL</u>	API Number: <u>045-24563</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483806</u>	Type: <u>WELL</u>	API Number: <u>045-24564</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483807</u>	Type: <u>WELL</u>	API Number: <u>045-24565</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483808</u>	Type: <u>WELL</u>	API Number: <u>045-24566</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483809</u>	Type: <u>WELL</u>	API Number: <u>045-24567</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>
Facility ID: <u>483810</u>	Type: <u>WELL</u>	API Number: <u>045-24568</u>	Status: <u>AP</u>	Insp. Status: <u>RI</u>

Facility ID:	483811	Type:	WELL	API Number:	045-24569	Status:	AP	Insp. Status:	RI
Facility ID:	483812	Type:	WELL	API Number:	045-24570	Status:	AP	Insp. Status:	RI
Facility ID:	483813	Type:	WELL	API Number:	045-24571	Status:	AP	Insp. Status:	RI
Facility ID:	483814	Type:	WELL	API Number:	045-24572	Status:	AP	Insp. Status:	RI
Facility ID:	483815	Type:	WELL	API Number:	045-24573	Status:	AP	Insp. Status:	RI
Facility ID:	483816	Type:	WELL	API Number:	045-24574	Status:	AP	Insp. Status:	RI

**Completion**

Operation:

Date Flowback:

Contractor:

Comment:

Corrective Action:


Date:

**Reclamation - Storm Water - Pit**

**Interim Reclamation:**

Date Interim Reclamation Started: \_\_\_\_\_ Date Interim Reclamation Completed: \_\_\_\_\_

Land Use: RANGELAND, RECREATIONAL

Comment: \_\_\_\_\_

**1002 SITE PREPARATION AND STABILIZATION**

1002a. FENCING \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

1002b. SOIL REMOVAL AND SEGREGATION Fail

Comment [Refer to the "SOIL REMOVAL AND SEGREGATION" comments in the "COGCC Comments" section of this FIR.](#)

Corrective Action **Corrective Action 1: Conduct additional topsoil salvage per Rule 1002.b: CA Date 4/25/2023.**  
**Corrective Action 2: Submit, attached to a Form 4 documentation of the actual amount of topsoil salvaged from the location. Include the actual depth salvaged and the total amount salvaged. Request that document is routed to Reclamation Specialist O'Malley.**

Date **04/25/2023**

1002c. PROTECTION OF SOILS Fail

Comment [The topsoil protection plan indicates topsoil is stored only at the topsoil stockpile to the south. It was observed in this inspection that what appears to be topsoil has been applied to slopes throughout the location. Soil color is dark, contains organic matter, roots, and intact root balls from near the soil surface. Topsoil has been applied to slope directly adjacent to subsoil. No BMPs observed to protect topsoil from contamination by subsoil.](#)

Corrective Action **Implement BMPs to protect topsoil applied throughout the location from erosion degradation and from contamination with subsoil.**

Date **04/27/2023**

1002E. SURFACE DISTURBANCE MINIMIZATION \_\_\_\_\_

Comment [Actual construction disturbance extends beyond permitted location disturbance area. Refer to the "Construction" section of this report.](#)

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

1003a. Waste and Debris removed? \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

Unused or unneeded equipment onsite? \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

Pit, cellars, rat holes and other bores closed? \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

Guy line anchors marked? \_\_\_\_\_

Comment \_\_\_\_\_

Corrective Action \_\_\_\_\_

Date \_\_\_\_\_

1003b. Area no longer in use? \_\_\_\_\_ Production areas stabilized ? \_\_\_\_\_  
 1003c. Compacted areas have been cross ripped? \_\_\_\_\_  
 1003d. Drilling pit closed? \_\_\_\_\_ Subsidence over on drill pit? \_\_\_\_\_  
 Cuttings management: \_\_\_\_\_  
 1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? \_\_\_\_\_  
 Production areas have been stabilized? \_\_\_\_\_ Segregated soils have been replaced? \_\_\_\_\_

RESTORATION AND REVEGETATION

Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ Perennial forage re-established \_\_\_\_\_

Non-Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ 80% Revegetation \_\_\_\_\_

1003e. INTERIM VEGETATION TRANSECT  
 TRANSECT RESULTS OF DISTURBED AREA% \_\_\_\_\_  
 TRANSECT RESULTS OF REFERENCE AREA% \_\_\_\_\_  
 TOTAL % OF DESIRABLE VEGETATION COVER \_\_\_\_\_  
 VEGETATIVE COVER \_\_\_\_\_

1003 f. Weeds Noxious weeds? \_\_\_\_\_  
 Comment   
 Corrective Action  Date \_\_\_\_\_

Overall Interim Reclamation

**Final Reclamation/ Abandoned Location:**

Date Final Reclamation Started: \_\_\_\_\_ Date Final Reclamation Completed: \_\_\_\_\_

Final Land Use: RANGELAND, RECREATIONAL \_\_\_\_\_

Reminder: \_\_\_\_\_

Comment:

Well plugged \_\_\_\_\_ Pit mouse/rat holes, cellars backfilled \_\_\_\_\_  
 Debris removed \_\_\_\_\_ No disturbance /Location never built \_\_\_\_\_  
 Access Roads Regraded \_\_\_\_\_ Contoured \_\_\_\_\_ Culverts removed \_\_\_\_\_  
 Gravel removed \_\_\_\_\_  
 Location and associated production facilities reclaimed \_\_\_\_\_ Locations, facilities, roads, recontoured \_\_\_\_\_  
 Compaction alleviation \_\_\_\_\_ Dust and erosion control \_\_\_\_\_  
 Non cropland: Revegetated 80% \_\_\_\_\_ Cropland: perennial forage \_\_\_\_\_  
 Weeds present \_\_\_\_\_ Subsidence \_\_\_\_\_

1004.d. FINAL VEGETATION TRANSECT  
 TRANSECT RESULTS OF DISTURBED AREA% \_\_\_\_\_  
 TRANSECT RESULTS OF REFERENCE AREA% \_\_\_\_\_  
 TOTAL % OF DESIRABLE VEGETATION COVER \_\_\_\_\_  
 VEGETATIVE COVER \_\_\_\_\_

Comment:   
 Corrective Action:  Date \_\_\_\_\_

Overall Final Reclamation \_\_\_\_\_ Well Release on Active Location  Multi-Well Location

**Storm Water:**

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
Other	Fail					Tracking control BMP not observed.
		Ditches	In Process			
		Gravel				
		Compaction	In Process			

**Comment:** It was observed in this inspection that the Location entrance and access road show signs of lack of stabilization BMPs in some areas, as is evidenced by the presence of ruts. At the time of this inspection road maintenance (blading and compacting) was being continually performed. However, soils were still observed to be unstable. Vehicles driving on the access road caused ruts and tires were observed to be mud covered. Tracking control BMPs to minimize/mitigate tracking and offsite sediment transport are missing or insufficient.

- The stormwater drain pipe at the south and east is discharging concentrated flows onto the access road and offsite into an unconsolidated soil pile subject to erosion. Outlet protections not observed.

**Corrective Action:** Install or repair required BMPs per Rule 1002.f.

**Date:** 04/27/2023

**Pits:**  NO SURFACE INDICATION OF PIT

**Type:** \_\_\_\_\_ **Lined:** \_\_\_\_\_ **Pit ID:** \_\_\_\_\_ **Lat:** \_\_\_\_\_ **Long:** \_\_\_\_\_

**Reference Point:** \_\_\_\_\_ **Other:** \_\_\_\_\_ **Length:** \_\_\_\_\_ **Width:** \_\_\_\_\_

**Lining:**

**Liner Type:** \_\_\_\_\_ **Liner Condition:** \_\_\_\_\_

**Comment:** \_\_\_\_\_  
**Corrective Action:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Fencing:**

**Fencing Type:** \_\_\_\_\_ **Fencing Condition:** \_\_\_\_\_

**Comment:** \_\_\_\_\_  
**Corrective Action:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Netting:**

**Netting Type:** \_\_\_\_\_ **Netting Condition:** \_\_\_\_\_

**Comment:** \_\_\_\_\_  
**Corrective Action:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Anchor Trench Present:** \_\_\_\_\_ **Oil Accumulation:** \_\_\_\_\_ **2+ feet Freeboard:** \_\_\_\_\_

**Comment:** Form 2A Location drawings identifies a Cuttings Trench at the south of the Location. Unable to find records that the Cuttings Trench has been permitted; no Form 15 permit observed within the Location records. A Form 15 is required to be submitted within 30 days of constructing the cuttings trench.

**Corrective Action:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**COGCC Comments**

Comment	User	Date
<p><b>SOIL REMOVAL AND SEGREGATION:</b></p> <p>1. It was observed in this inspection that topsoil has not been salvaged from the areas where perimeter stormwater BMPs have been constructed. Constructing stormwater BMPs (ditches and berms) from topsoil is not protective of the resource. Topsoil salvage is required prior to BMP construction.</p> <p>2. Operator's topsoil protection plan (#403121660) shows that topsoil depth is an average of 8.75" (pit depths 8", 9", 6", 12"). Per Rule 1002.b.(2) Operator shall salvage the topsoil horizon or the top six (6) inches, whichever is deeper. Operator's topsoil plan documents topsoil greater than 6". However, the topsoil protection plan calculates topsoil salvage based on 6" and shows a ~3,550 cy stockpile. 6" of topsoil salvaged (excluding the former working pad (1.35 ac.) and topsoil pile (0.31 ac.) would have equaled 3,836 cy salvaged, with a 4,603 cy topsoil stockpile, considering a 20% swell factor. However, per the Operator, topsoil is greater than 6". 8.75" of topsoil salvaged would have equaled 5,600 cy salvaged, with a 6,720 cy topsoil stockpile, considering a 20% swell factor.</p> <p>COGCC disagrees with the depth of topsoil to be salvaged from the Operator's topsoil protection plan.</p>	omalleya	04/24/2023

**Attached Documents**

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
403382956	INSPECTION SUBMITTED	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=6092082">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=6092082</a>
702801489	Inspection Photos	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=6092079">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=6092079</a>