

**FORM
INSP**Rev
X/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


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 <input type="checkbox"/>	2A Doc Num: _____	Status Summary: <input type="checkbox"/> THIS IS A FOLLOW UP INSPECTION <input checked="" type="checkbox"/> FOLLOW UP INSPECTION REQUIRED <input type="checkbox"/> NO FOLLOW UP INSPECTION REQUIRED
Operator Information: OGCC Operator Number: 96850 Name of Operator: TEP ROCKY MOUNTAIN LLC Address: 1058 COUNTY ROAD 215 City: PARACHUTE State: CO Zip: 81635				Findings: 16 Number of Comments 6 Number of Corrective Actions <input checked="" type="checkbox"/> 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
Trujillo, Aaron		aaron.trujillo@state.co.us	
, TEP		COGCCInspectionReports@terraep.com	All Inspections
Mike Gardner		mgardner@terraep.com	

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.

LocationOverall Good: ☐**Signs/Marker:**

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:	970-285-9377	
Corrective Action:		Date: _____

Overall Good: ☐**Spills:**

Type	Area	Volume		
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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: 335045 CDP: _____

Comment: - Conductors set 3/4/2023 per document #403356629.
 - Form 2A permitted disturbance area during construction is 6.43 acres (reduced to 1.74 after interim reclamation). It was observed in this inspection that it appears that disturbance has occurred in areas outside the permitted area, at the north of the location, in particular. The location construction drawing (#4223007) indicates that the location disturbance terminates at the perimeter stormwater BMPs (ditch and sediment trap). The actual location disturbance extends beyond the perimeter stormwater BMPs for approximately 70 feet in violation of the approved permit.

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		
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">Comments:</div> <div style="width: 80%;"> <p>Erosion BMPs: 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.</p> <p>Other BMPs: 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.</p> </div> </div>			
Corrective Action: <u>Install or repair BMPs per Rule 1002.f and 1002.c.</u>			Date: 04/26/2023
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">Comments:</div> <div style="width: 80%;"> <p>Erosion BMPs: Sediment trap inlets and outlets are installed with a geotextile liner and armored with rip-rap.</p> <p>Other BMPs: 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.</p> </div> </div>			
Corrective Action:			Date:
DITCHES	Yes		
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">Comments:</div> <div style="width: 80%;"> <p>Erosion BMPs: 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.</p> <p>Other BMPs: Velocity checks have been installed within the perimeter ditch.</p> </div> </div>			
Corrective Action:			Date:
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">Comments:</div> <div style="width: 80%;"> <p>Erosion BMPs: 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.</p> <p>Other BMPs: 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.</p> </div> </div>			
Corrective Action: <u>Install or repair BMPs per Rule 1002.f.</u>			Date: 04/27/2023
		Material Handling And Spill Prevention	No
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;">Comments:</div> <div style="width: 80%;"> <p>Erosion BMPs:</p> <p>Other BMPs: Portable toilet on location observed not to be secured to prevent a spill.</p> </div> </div>			
Corrective Action: <u>Implement or modify BMPs for improved material handling and spill prevention.</u>			Date: 04/29/2023
Comment: 			
Corrective Action: 			
Date: 			

On Site Inspection (305):

Inspector Name: O'Malley, Anna

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:	
<u>Comment:</u>	
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.

Date 04/25/2023

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.

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 REVEGETATIONCropland

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
		Compaction	In Process			
		Gravel				
		Ditches	In Process			
Other	Fail					Tracking control BMP not observed.

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:
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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>SOIL REMOVAL AND SEGREGATION:</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
702801489	Inspection Photos	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=6092079