

State of Colorado
Oil and Gas Conservation Commission

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



Document Number:

402861254

Date Received:

11/15/2021

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

480563

SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Refer to COGCC Rule 912.b. for reporting requirements of spills or releases of E&P Waste, produced Fluids, or unauthorized Releases of natural gas. Submit a Site Investigation and Remediation Workplan (Form 27) if Rule 913.c. applies.

OPERATOR INFORMATION

Name of Operator: <u>TAPROOT ROCKIES MIDSTREAM LLC</u>	Operator No: <u>10718</u>	Phone Numbers
Address: <u>555 17TH STREET SUITE 800</u>		Phone: <u>(701) 509-2063</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>		Mobile: <u>(701) 509-2063</u>
Contact Person: <u>Dave Brazeal</u>		Email: <u>dbrazeal@taprootep.com</u>

Transfer of Operatorship: Pursuant to Rule 912.f, this Supplemental Form 19 is being submitted to designate the Buying Operator as the responsible Operator for this Spill and Release.

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 402785810

Initial Report Date: 08/19/2021 Date of Discovery: 08/18/2021 Spill Type: Recent Spill

Spill/Release Point Location:

QTRQTR NWNW SEC 22 TWP 8N RNG 60W MERIDIAN 6

Latitude: 40.651669 Longitude: -104.085683

Municipality (if within municipal boundaries): N/A County: WELD

Enter Lat./long measurement of the actual Spill/Release Point. Lat./Long. Data shall meet standards of Rule 216.

Reference Location:

Facility Type: PRODUCED WATER TRANSFER SYSTEM Facility/Location ID No 467382

Spill/Release Point Name: Hale East PW Leak Well API No. (Only if the reference facility is well) 05- -

No Existing Facility or Location ID No.

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): 0 Estimated Condensate Spill Volume(bbl): 0

Estimated Flow Back Fluid Spill Volume(bbl): 0 Estimated Produced Water Spill Volume(bbl): >=100

Estimated Other E&P Waste Spill Volume(bbl): 0 Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: _____

Has the subject Spill/Release been controlled at the time of reporting? Yes

Land Use:

Current Land Use: NON-CROP LAND Other(Specify): _____

Weather Condition: Normal August evening

Surface Owner: OTHER (SPECIFY) Other(Specify): Private Owner (Taproot)

Describe what is known about the spill/release event (what happened -- including how it was stopped, contained, and recovered):

The leak was discovered NE of the Bison Haul well pad on 08/18/2021. It was determined to be from the Taproot Produced Water Transfer system, just east of a previous leak. The system was shut down, isolated, and cleanup began. The spill occurred on land owned by Taproot. Initial indications are that the 4" Thermoflex 750 psi pipeline had buckled, and the thin spot created by the buckling failed at about 416 psig (well below the 750 psig rating). The piping has been in service since January of 2021. Taproot has replaced all Thermoflex piping along this line with Flexsteel, and will not be using Thermoflex in the future.

List of Agencies and Other Parties Notified Pursuant to Rule 912.b.(7)-(11):

OTHER NOTIFICATIONS

<u>Date</u>	<u>Agency/Party</u>	<u>Contact</u>	<u>Phone</u>	<u>Response</u>
8/19/2021	Weld County OEM/LEPC	OEM Spill Report Form	-	Online Submittal

REPORT CRITERIA

Rule 912.b.(1) Report to the Director (select all criteria that apply):

No Rule 912.b.(1).A: A Spill or Release of any size that impacts or threatens to impact any Waters of the State, Public Water System, residence or occupied structure, livestock, wildlife, or publicly-maintained road.

Waters of the State: _____ Public Water System: _____
 Residence or Occupied Structure: _____ Livestock: _____
 Wildlife: _____ Publicly-Maintained Road: _____

Yes Rule 912.b.(1).B: A Spill or Release in which 1 barrel or more of E&P Waste or produced fluids is spilled or released outside of berms or other secondary containment.

Yes Rule 912.b.(1).C: A Spill or Release of 5 barrels or more of E&P Waste or produced Fluids regardless of whether the Spill or Release is completely contained within berms or other secondary containment.

No Rule 912.b.(1).D: Within 6 hours of discovery, a Grade 1 Gas Leak. For a Grade 1 Gas Leak from a Flowline, the Operator also must submit the Form 19 – Initial, document number on a Form 44, Flowline Report, for the Grade 1 Gas Leak

Enter the approximate time of discovery _____ (HH:MM)
 Enter the Document Number of the Grade 1 Gas Leak Report, Form 44 _____
 Was there a reportable accident associated with either a Grade 1 Gas Leak or an E&P waste spill or release? _____
 Enter the Document Number of the Initial Accident Report, Form 22 _____
 Was there damage during excavation? _____
 Was CO 811 notified prior to excavation? _____

Yes Rule 912.b.(1).E: The discovery of 10 cubic yards or more of impacted material resulting from a current or historic Spill or Release. Discovery and reporting will not be contingent upon confirmation samples demonstrating exceedance of Table 915-1 standards.

Estimated Volume of Impacted Solids (cu. yd.): 300

No Rule 912.b.(1).F: The discovery of impacted Waters of the State, including Groundwater. Discovery and reporting will not be contingent upon confirmation samples demonstrating exceedance of Table 915-1 standards. The presence of free product or hydrocarbon sheen on Groundwater or surface water is reportable. The presence of contaminated soil in contact with Groundwater or surface water is reportable. Check all that apply:

- The presence of free product or hydrocarbon sheen Surface Water
- The presence of free product or hydrocarbon sheen on Groundwater
- The presence of contaminated soil in contact with Groundwater
- The presence of contaminated soil in contact with Surface water

No Rule 912.b.(1).G: A suspected or actual Spill or Release of any volume where the volume cannot be immediately determined, including a spill or release of any volume that daylight from the subsurface.

No	Rule 912.b.(1).H: Spill or Release resulting in vaporized hydrocarbon mists that leave the Oil and Gas Location or Off-Location Flowline right of way from an Oil and Gas Location and impacts or threatens to impact off-location property.
	<input type="checkbox"/> Areas offsite of Oil & Gas Location <input type="checkbox"/> Off-Location Flowline right of way
No	Rule 912.b.(1).I: A Release of natural gas that results in an accumulation of soil gas or gas seeps.
No	Rule 912.b.(1).J: A Release that results in natural gas in Groundwater.

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: <u>08/28/2021</u>		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	<u>0</u>	<u>0</u>	<input type="checkbox"/>
CONDENSATE	<u>0</u>	<u>0</u>	<input type="checkbox"/>
PRODUCED WATER	<u>300</u>	<u>50</u>	<input type="checkbox"/>
DRILLING FLUID	<u>0</u>	<u>0</u>	<input type="checkbox"/>
FLOW BACK FLUID	<u>0</u>	<u>0</u>	<input type="checkbox"/>
OTHER E&P WASTE	<u>0</u>	<u>0</u>	<input type="checkbox"/>
specify: _____			
Was spill/release completely contained within berms or secondary containment? <u>NO</u> Was an Emergency Pit constructed? <u>NO</u>			
<i>Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>			
A Form 15 Pit Report shall be submitted within 30 calendar days after the construction of an emergency pit			
Impacted Media (Check all that apply) <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet): <u>70</u>		Width of Impact (feet): <u>15</u>	
Depth of Impact (feet BGS): <u>5</u>		Depth of Impact (inches BGS): _____	
How was extent determined?			
survey of cleanup area. Primary excavation described above. Secondary shallow excavation for minimal surface impacted soil covered an area of approximately 4000 sq. ft and was excavated approximately 3-6" deep.			
Soil/Geology Description:			
sandy loam, relatively flat area.			
Depth to Groundwater (feet BGS) <u>110</u>		Number Water Wells within 1/2 mile radius: <u>1</u>	
If less than 1 mile, distance in feet to nearest		Water Well _____ None <input checked="" type="checkbox"/>	Surface Water _____ None <input checked="" type="checkbox"/>
		Wetlands _____ None <input checked="" type="checkbox"/>	Springs _____ None <input checked="" type="checkbox"/>
Livestock <u>1000</u> None <input type="checkbox"/>		Occupied Building _____ None <input checked="" type="checkbox"/>	
Additional Spill Details Not Provided Above:			
The nearest water well is approximately 1000 feet from the Site (well permit # 14934) and has a static water level of 110 feet. This report covers two spills that occurred along the exact same stretch of pipeline. The initial spill/Release point ID is 480146. All applicable documents will be included in this Supplemental Form 19 requesting closure contingent on the development of a Reclamation Plan to be completed under a Form 27.			

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 08/28/2021

Root Cause of Spill/Release Pipe, Weld, or Joint Failure

Other (specify)

Type of Equipment at Point of Spill/Release: Other

If "Other" selected above, specify or describe here:

Produced water transfer line

Describe Incident & Root Cause (include specific equipment and point of failure)

4" Thermoflex Eco 750# composite pipe with aramid fiber reinforcement expands significantly with increasing pressure and temperature. This expansion stress resulted in a short section of pipe moving upward and buckling. The thin area created at the point of the buckle failed at 416 psig, well below the 750 psig pipe rating. The expansion properties of aramid fiber reinforced Thermoflex pipe creates an inherent design/installation problem. To prevent the pipe from buckling, the soil surrounding the pipe has to be designed and installed with properties sufficient to hold the pipe in place (a containment surrounding the pipe itself).

Describe measures taken to prevent the problem(s) from reoccurring:

This segment of pipeline has been replaced with Flexsteel 750# pipe. The operating pressure has been temporarily lowered for segments of the gathering system with Thermoflex brand pipe still in service.

Volume of Soil Excavated (cubic yards):

Disposition of Excavated Soil (attach documentation) [X] Offsite Disposal Onsite Treatment

[] Other (specify)

Volume of Impacted Ground Water Removed (bbls): 0

Volume of Impacted Surface Water Removed (bbls): 0

REQUEST FOR CLOSURE

Spill/Release Reports should be closed when impacts have been remediated or when further investigation and corrective actions will take place under an approved Form 27.

Basis for Closure: [] Corrective Actions Completed (documentation attached, check all that apply)

[] Horizontal and Vertical extents of impacts have been delineated.

[] Documentation of compliance with Table 915-1 is attached.

[] All E&P Waste has been properly treated or disposed.

[X] Work proceeding under an approved Form 27 (Rule 912.c).

Form 27 Remediation Project No: 0

[] SUSPECTED Spill/Release did not occur or was below Rule 912.a.(5) reporting thresholds.

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: Dale Hunt

Title: VP of Engineering Date: 11/15/2021 Email: dhunt@taprootep.com

COA Type	Description

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
402866399	SOIL SAMPLE LOCATION MAP
402866401	OTHER
402866404	ANALYTICAL RESULTS
402866407	ANALYTICAL RESULTS
402866411	SOIL SAMPLE LOCATION MAP
402866415	ANALYTICAL RESULTS
402866420	DISPOSAL MANIFEST
402866432	OTHER
402867462	PHOTO DOCUMENTATION
402867466	OTHER

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)