

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

402907897

Date Received:

12/23/2021

Spill report taken by:

Brown, Kari

Spill/Release Point ID:

480728

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>BONANZA CREEK ENERGY OPERATING COMPANY LLC</u> Operator No: <u>8960</u>	Phone Numbers
Address: <u>410 17TH STREET SUITE #1400</u>	Phone: <u>(720) 315-8934</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>	Mobile: <u>()</u>
Contact Person: <u>Luke Kelly</u>	Email: <u>lkelly@civiresources.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# 402802845

Initial Report Date: 09/04/2021 Date of Discovery: 09/03/2021 Spill Type: Recent Spill

Spill/Release Point Location:

QTRQTR NWNW SEC 15 TWP 5N RNG 62W MERIDIAN 6

Latitude: 40.406402 Longitude: -104.316163

Municipality (if within municipal boundaries): _____ 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: FLOWLINE SYSTEM Facility/Location ID No 429977
 Spill/Release Point Name: Antelope F-15 West - PW Dump Line 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): <u>0</u>	Estimated Condensate Spill Volume(bbl): <u>0</u>
Estimated Flow Back Fluid Spill Volume(bbl): <u>0</u>	Estimated Produced Water Spill Volume(bbl): <u>>=100</u>
Estimated Other E&P Waste Spill Volume(bbl): <u>0</u>	Estimated Drilling Fluid Spill Volume(bbl): <u>0</u>

Specify: _____

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

Land Use:

Current Land Use: OTHER Other(Specify): Range Land

Weather Condition: Clear

Surface Owner: FEE Other(Specify): _____

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

On September 3, 2021 produced water was observed surfacing around a produced water dump line on the backside of the production tank containment. An estimated 200 bbls of produced water were released to the ground and subsurface. The line was immediately shut-in and hydrovacs were dispatched to start removing the impacted soil. A site assessment will take place to vertically and laterally delineate the subsurface impacts. The impacted soil will be removed and hauled to a COGCC approved disposal facility. Confirmation soil samples will be collected and submitted laboratory analysis in compliance with COGCC Table 915-1. Analytical results will be included in a supplemental Form 19. The release did not occur in CPW High Priority Habitat.

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>
9/4/2021	Surface Owner	on file	-on file	Notified of release via email
9/4/2021	Weld Co. OEM	Dave Burns	-on file	Notified of release via OEM report

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? _____

No 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.): _____

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

Yes	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 daylights 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>12/22/2021</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>200</u>	<u>0</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>16</u>		Width of Impact (feet): <u>14</u>	
Depth of Impact (feet BGS): <u>7</u>		Depth of Impact (inches BGS): _____	
How was extent determined?			
The extent was determined through visual delineation and confirmation with laboratory analysis.			
Soil/Geology Description:			
Valent Sand, 3-9% slopes, SM- Silty Sand			
Depth to Groundwater (feet BGS) <u>50</u>		Number Water Wells within 1/2 mile radius: <u>0</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 _____ None <input checked="" type="checkbox"/>	Occupied Building _____ None <input checked="" type="checkbox"/>
Additional Spill Details Not Provided Above:			

The impacted soil adjacent to the release location was removed, and the dumpline was repaired. A site assessment was completed 10/05/21 to laterally and vertically delineate the subsurface impacts. Six soil borings were advanced adjacent to the release location. A temporary monitoring well was completed adjacent to the source to confirm the absence of groundwater at the site and eliminate COGCC Table 915-1 protection of groundwater soil screening level (GSSLs) applicability. Confirmation samples were also collected from the initial excavation to evaluate additional remediation requirements at the site pending the soil boring data/field observations. Based on soil analytical results, residual TPH above COGCC Table 915-1, and residual 1-methylnaphthalene exceeding the protection of groundwater soil screening level were observed at the base of the excavation. Residual inorganics were also observed in the initial excavation, and pH (minimal) in two soil borings. Metals in soil were also assessed, and residual metals in soil (arsenic and/or barium) do not pose a continual threat compared to background concentrations and/or GSSL elimination.

Additional soil was removed from the excavation, to the most reasonable extent possible based on continued O&G operations at the site, and additional confirmation samples were collected. Based on soil analytical results, only inorganics (boron, EC, SAR, and/or pH) are residual at the site. All exceedances are located within the production footprint and extend beneath the lined production containment. Additional assessment and remediation/reclamation will be completed when the facility is decommissioned at a later date.

BCEOC deems no risk to future vegetation grown or a direct pathway to groundwater, and is therefore requests a NFA determination.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 12/22/2021

Root Cause of Spill/Release Corrosion

Other (specify)

Type of Equipment at Point of Spill/Release: Dump Line

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

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

The cause of the release was determined to be related to internal corrosion. The failure occurred in the 6 o'clock position on the elbow of the dumpline.

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

Bonanza Creeks has implemented an upgraded chemical program and conducts annual on-location flowline testing. Automation is used to monitor for production fluctuations and irregularities.

Volume of Soil Excavated (cubic yards): 100

Disposition of Excavated Soil (attach documentation) 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.

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

Form 27 Remediation Project No: _____

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

OPERATOR COMMENTS:

