

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

402781005

Date Received:

08/16/2021

Spill report taken by:

GINTAUTAS, PETER

Spill/Release Point ID:

480367

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>PDC ENERGY INC</u>	Operator No: <u>69175</u>	Phone Numbers
Address: <u>1775 SHERMAN STREET - STE 3000</u>		Phone: <u>(303) 597-6847</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>		Mobile: <u>()</u>
Contact Person: <u>Phillip Porter</u>		Email: <u>COGCCSpillRemediati on@pdce.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# 402774911

Initial Report Date: 08/09/2021 Date of Discovery: 08/06/2021 Spill Type: Historical Release

Spill/Release Point Location:

QTRQTR SESE SEC 20 TWP 3N RNG 66W MERIDIAN 6

Latitude: 40.203428 Longitude: -104.793702

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: TANK BATTERY Facility/Location ID No 336534

Spill/Release Point Name: Miller 5 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): Unknown

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: CROP LAND Other(Specify): _____

Weather Condition: Sunny

Surface Owner: FEE Other(Specify): _____

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

PDC discovered a reportable release at the Miller 5 during P&R activities. No ground water present. Release clean-up and delineation activities are underway. Surface owner and local government notifications are in process.

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>
8/6/2021	COGCC	Peter Gintautas	-	
8/6/2021	Weld Co	NA	-	
8/6/2021	Surface Owner	Private	-	

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: _____

No 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.

No 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.): 10

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>08/16/2021</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			<input checked="" 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 checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet): <u>29</u>		Width of Impact (feet): <u>49</u>	
Depth of Impact (feet BGS): <u>10</u>		Depth of Impact (inches BGS): _____	
How was extent determined?			
<p>On August 6, 2021, historic hydrocarbon impacts were discovered beneath the produced water vessel during decommissioning activities at the Miller 5 Tank Battery. Following the discovery, excavation activities were initiated, and one soil sample (SS01) was collected from the impacted source material and submitted for laboratory analysis of the full COGCC Table 915-1 analytical suite. In addition, one background soil sample (BKG01) was collected from native material topographically upgradient of the tank battery and submitted for analysis of the Table 915-1 Metals. Analytical results indicated that organic compound concentrations were below the COGCC Table 915-1 standards in sample SS01. To date, approximately 810 cubic yards of impacted material were removed and transported to the Buffalo Ridge Waste Management Facility for disposal under PDC waste manifests. Preliminary soil analytical results are summarized in Tables 1 - 4. GPS coordinates and PID readings for the soil samples collected during initial excavation activities are summarized in Table 5. Excavation and confirmation sampling activities are ongoing and will be summarized along with final analytical results in a forthcoming Supplemental Form 27. A topographic map is attached as Figure 1. The current excavation extent and sample locations are illustrated on Figure 2. The laboratory reports are included in Attachment A and the tank battery decommissioning field notes and photo logs are included in Attachment B.</p>			
Soil/Geology Description:			
<u>Renohill clay loam, 3 to 9 percent slopes</u>			
Depth to Groundwater (feet BGS) <u>20</u>		Number Water Wells within 1/2 mile radius: <u>3</u>	
If less than 1 mile, distance in feet to nearest		Water Well <u>764</u> None <input type="checkbox"/>	Surface Water <u>2442</u> None <input type="checkbox"/>
		Wetlands <u>1981</u> None <input type="checkbox"/>	Springs _____ None <input checked="" type="checkbox"/>
		Livestock <u>3991</u> None <input type="checkbox"/>	Occupied Building <u>834</u> None <input type="checkbox"/>
Additional Spill Details Not Provided Above:			

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 08/16/2021

Root Cause of Spill/Release Unknown (Historical)

Other (specify) _____

Type of Equipment at Point of Spill/Release: Partially Buried Vessel

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

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

On August 6, 2021, a historic release was discovered beneath the former produced water vessel during tank battery decommissioning activities. Due to the historic nature of the release, a root cause was not identified.

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

The production facility and associated infrastructure was removed and will not be replaced.

Volume of Soil Excavated (cubic yards): 810

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: 18732
 - SUSPECTED Spill/Release did not occur or was below Rule 912.a.(5) reporting thresholds.

OPERATOR COMMENTS:

Based on analytical results for the waste characterization sample SS01, PDC is requesting that the COC's for this release location be reduced to the following: BTEX, naphthalene, TPH (C6-36), 1,2,4-TMB, 1,3,5-TMB, arsenic, lead, and selenium.

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: _____ Print Name: Phillip Porter

Title: Snr. Environmental Rep. Date: 08/16/2021 Email: COGCCSpillRemediation@pdce.com

Condition of Approval

COA Type**Description**

	Based on review of the information to be submitted in project 18732 which is ongoing at this time, it is concluded that the proposed investigation activities and proposed remedial actions in the approved site investigation and remediation plan will be adequate to remediate impacted soils and groundwater at the site of the spill. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if ground water is found to be impacted, further site investigation and/or remediation activities may be required at the site.
	Impacted soils were not sampled from data provided for Table 915-1 soil metals so no request for reduction of metals analysis can be approved at this time. Spill was reported as produced water. All spills of produced water require analysis of soil suitability parameters listed in Table 915-1.
2 COAs	

Attachment List

Att Doc Num**Name**

402781005	SPILL/RELEASE REPORT(SUPPLEMENTAL)
402781753	TOPOGRAPHIC MAP
402781755	ANALYTICAL RESULTS
402781762	PHOTO DOCUMENTATION
402781778	SOIL SAMPLE LOCATION MAP
402782211	FORM 19 SUBMITTED

Total Attach: 6 Files

General Comments

User Group**Comment****Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)