

State of Colorado Oil and Gas Conservation Commission

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Document Number:

403188471

Date Received:

10/12/2022

Spill report taken by:

Kosola, Jason

Spill/Release Point ID:

482570

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>
Contact Person: <u>Phillip Porter</u>		Mobile: <u>()</u>
		Email: <u>taspillremediationcontr</u> <u>actor@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# 403106370

Initial Report Date: 07/14/2022 Date of Discovery: 07/14/2022 Spill Type: Recent Spill

Spill/Release Point Location:

QTRQTR SWNW SEC 10 TWP 5N RNG 64W MERIDIAN 6Latitude: 40.415056 Longitude: -104.544244Municipality (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: OIL AND GAS LOCATION☐ Facility/Location ID No _____Spill/Release Point Name: Wacker Sec. 10☒ Well API No. (Only if the reference facility is well) 05-123-43560☐ No Existing Facility or Location ID No.

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

Estimated Oil Spill Volume(bbl): >0 and <1Estimated Condensate Spill Volume(bbl): 0Estimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): 0Estimated Other E&P Waste Spill Volume(bbl): 0Estimated 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: Night timeSurface Owner: FEE

Other(Specify): _____

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

Off-location mist, 1-2 gallons estimated total with a miniscule amount going off location. Clean up operations are underway.

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>
7/7/2022	Surface Owner	NA	-	
7/14/2022	Weld Co	NA	-	
7/14/2022	COGCC	Rick Allison	-	

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? _____

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

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 daylights from the subsurface.
Yes	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 checked="" 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: 10/10/2022		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	1	0	<input type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER	0	0	<input type="checkbox"/>
DRILLING FLUID	0	0	<input type="checkbox"/>
FLOW BACK FLUID	0	0	<input type="checkbox"/>
OTHER E&P WASTE	0	0	<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>50</u>		Width of Impact (feet): <u>17</u>	
Depth of Impact (feet BGS): _____		Depth of Impact (inches BGS): _____	
How was extent determined?			
<p>On July 14, 2022, PDC discovered a release at the Wacker 10G-302 wellhead. A pressure valve at the compressor failed causing the flowline to become over-pressurized and the pressure release valves at the wellhead to activate. This resulted in the release of approximately twenty (20) gallons of oil with slight misting off-location. Following the discovery, mitigation activities were immediately initiated, and the area was treated with a Petro-Green ADP-7 solution. Additionally, the location was shut-in and equipment deenergized. On July 18, 2022, following treatment and mitigation activities, soil within the release extent was field screened for volatile organic compound (VOC) concentrations using a photoionization device (PID). Initial screening indicated no elevated petroleum hydrocarbons remained present. Five (5) soil samples (SB01-SB05) were collected from the estimated release extent at 0-6 inches bgs and were submitted for laboratory analysis of the Table 915-1 organic compounds in soil and total petroleum hydrocarbons (TPS) [C6-C36], in accordance with Rule 915.E.(2). C. guidance. Analytical results indicated that organic compounds were in compliance with the applicable COGCC Table 915-1 standards.</p> <p>Following initial soil sampling activities, it was determined that additional confirmation soils samples would be required below the road base and in the agricultural field to confirm hydrocarbon impacts resulting from the release were successfully mitigated. On September 21, 2022, eight (8) soil samples (SB01-SB08) were collected from the estimated release extent at 1-foot bgs and from the misted extent within the cultivated field at 0 to 6 inches bgs. Soil samples were submitted for laboratory analysis of the Table 915-1 organic compounds in soil and total petroleum hydrocarbons (TPH) [C6-C36], in accordance with Rule 915.E.(2). C. guidance. Analytical results indicated that organic compounds were in compliance with applicable COGCC Table 915-1 standards.</p>			
Soil/Geology Description:			
Haverson loam - 1 to 3%			
Depth to Groundwater (feet BGS) <u>15</u>		Number Water Wells within 1/2 mile radius: <u>12</u>	
If less than 1 mile, distance in feet to nearest	Water Well <u>960</u>	None <input type="checkbox"/>	Surface Water <u>235</u> None <input type="checkbox"/>
	Wetlands <u>235</u>	None <input type="checkbox"/>	Springs _____ None <input checked="" type="checkbox"/>
	Livestock <u>1435</u>	None <input type="checkbox"/>	Occupied Building <u>577</u> None <input type="checkbox"/>

Additional Spill Details Not Provided Above:

Soil sample locations are illustrated on Figure 1. Lab results are illustrated on Tables 1-3 and Attachment A. Field notes and the photo log can be found on Attachment B, soil boring logs can be found in Attachment C. The Petro-Green ADP-7 safety data sheet is included in Attachment D.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 07/21/2022

Root Cause of Spill/Release Equipment Failure

Other (specify)

Type of Equipment at Point of Spill/Release: Compressor

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

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

On July 14, 2022, PDC discovered a release at the Wacker 10G-302 wellhead caused by failure of a pressure release valve at the compressor resulting in over pressurizing of the flowline and the causing pressure release valve to activate at the wellhead. A total of approximately twenty (20) gallons of oil were released with no recovery.

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

The valves have been reset and the location is being monitored for upset conditions.

Volume of Soil Excavated (cubic yards): 0



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:

The COGCC issued Inspection Report #693701018 on July 21, 2022. This Supplemental Form 19 is being submitted in response to the above referenced Inspection Report requesting the correct latitude and longitude for the release. Additionally, confirmation sampling was conducted to ensure and document that confirmation soil samples were collected from beneath the road base material.

Confirmation soil sampling activities indicated petroleum hydrocarbon impacts were properly treated with Petro-Green ADP7 solution and were no longer present in soils adjacent to the Wacker 10G-302 Wellhead. Based on the aforementioned information, PDC is requesting the closure of Release Point ID #482570 associated with the Wacker 10G-302 Wellhead.

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: Senior Program Manager Date: 10/12/2022 Email: taspillremediationcontractor@pdce.com

COA Type

Description

	<p>Based on the information presented, it appears that no further action is necessary at this time and the COGCC approves the closure request. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if groundwater is found to be impacted, then further investigation and/or remediation activities may be required. In addition, the surface area disturbed by the remediation activity shall be reclaimed in accordance with the 1000 Series Reclamation Rules.</p> <p>For locations with active ongoing oil and gas operations, comply with Rule 1003 interim reclamation requirements.</p>
1 COA	

Attachment List

Att Doc Num

Name

403188471	SPILL/RELEASE REPORT(SUPPLEMENTAL)
403192422	ANALYTICAL RESULTS
403192425	PHOTO DOCUMENTATION
403192427	SOIL SAMPLE LOCATION MAP
403192432	OTHER
403193604	OTHER
403217060	FORM 19 SUBMITTED

Total Attach: 7 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)