

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:

403068443

Date Received:

06/07/2022

Spill report taken by:

CANFIELD, CHRIS

Spill/Release Point ID:

482279

**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>	<b>Phone Numbers</b>
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>cogccspillremediation@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# 403063285

Initial Report Date: 05/31/2022 Date of Discovery: 05/28/2022 Spill Type: Recent Spill

**Spill/Release Point Location:**

QTRQTR SENE SEC 11 TWP 1S RNG 67W MERIDIAN 6

Latitude: 39.982022 Longitude: -104.847716

Municipality (if within municipal boundaries): \_\_\_\_\_ County: ADAMS

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 460107

Spill/Release Point Name: Brant HZ  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): >=5 and <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: 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):

On 5/28/2022, PDC Energy had a reportable release of produced water at the Brant HZ Pad. A gasket on the water treater failed.

**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>
5/29/2022	Surface Owner	NA	-	
5/28/2022	Adams County	Greg Dean	-	
5/28/2022	COGCC	Chris Canfield	-	

**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

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>06/08/2022</u>		
<b>FLUIDS</b>	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	<u>20</u>	<u>10</u>	<input type="checkbox"/>
CONDENSATE	<u>0</u>	<u>0</u>	<input type="checkbox"/>
PRODUCED WATER	<u>20</u>	<u>10</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 &amp; floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>			
<b>A Form 15 Pit Report shall be submitted within 30 calendar days after the construction of an emergency pit</b>			
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>43</u>		Width of Impact (feet): <u>60</u>	
Depth of Impact (feet BGS): _____		Depth of Impact (inches BGS): _____	
How was extent determined?			
<p>On May 28, 2022, a release was discovered at the Brant Hz Pad. A gasket on a water treater failed and resulted in the release of approximately forty (40) BBLs of production fluid from the water treater within and outside of secondary containment onsite. Following the discovery, mitigation activities were immediately initiated and approximately twenty (20) BBLs of spilled production fluid were recovered via hydro-vacuum and approximately 15 cubic yards (CY) of impacted material were stockpiled onsite to be properly disposed of under PDC waste manifests. On June 2, 2022, one soil sample (SS01) was collected from stockpiled impacted material removed during mitigation activities and submitted for laboratory analysis of the full Table 915-1 analytical suite. In addition, seven (7) soil samples (SS02-SS08) were collected within and outside the tank battery berm at 0-6 inches bgs and submitted for preliminary laboratory analysis of BTEX, naphthalene, 1,2,4-TMB, 1,3,5-TMB, and TPH (C6-C36). Preliminary analytical results indicated that organic compound concentrations were in exceedance of the acceptable COGCC Table 915-1 Protection of Groundwater SSLs in soil samples SS01 and SS06. Three (3) background soil samples (BKG01, BKG02, &amp; BKG03) were collected from the native material up-gradient of the pad at approximately 0-6 inches bgs and submitted for laboratory analysis of the Table 915-1 metals. Due to the active status of the tank battery, a path forward, final analytical results, and field activities will be summarized in a forthcoming Supplemental Form 19. Pending receipt of the remaining Table 915-1 laboratory results, PDC will be submitting an analyte reduction request for the director approval based on the constituents identified in the sample collected from the source material.</p>			
Soil/Geology Description:			
<u>Nunn clay loam, 1 to 3 percent slopes; Ulm loam, 5 to 9 percent slopes</u>			
Depth to Groundwater (feet BGS) <u>57</u>		Number Water Wells within 1/2 mile radius: <u>50</u>	
If less than 1 mile, distance in feet to nearest	Water Well <u>332</u> None <input type="checkbox"/>	Surface Water <u>516</u> None <input type="checkbox"/>	
	Wetlands <u>516</u> None <input type="checkbox"/>	Springs _____ None <input checked="" type="checkbox"/>	
	Livestock <u>90</u> None <input type="checkbox"/>	Occupied Building <u>577</u> None <input type="checkbox"/>	
Additional Spill Details Not Provided Above:			

Preliminary soil analytical results are summarized in Table 1. GPS coordinates and PID readings for the soil samples collected during confirmation sampling activities are summarized in Table 2. A topographic map is attached as Figure 1. Soil sample locations are illustrated on Figure 2. The draft laboratory analytical reports are included in Attachment A and the release response and confirmation sampling field notes and photo logs are included in Attachment B.

## CORRECTIVE ACTIONS

#1 Supplemental Report Date: 06/07/2022

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:

Water Treater

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

A gasket at water treater failed resulting in the release of production fluid within and outside of containment onsite.

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

The gasket on the water treater was replaced.

Volume of Soil Excavated (cubic yards): 15

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

Other (specify)

Volume of Impacted Ground Water Removed (bbls):

Volume of Impacted Surface Water Removed (bbls):

## 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:

Field activities and final analytical results will be summarized in a forthcoming Supplemental Form 19.

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 Environmental Rep. Date: 06/07/2022 Email: cogccspillremediation@pdce.com

## Condition of Approval

**COA Type****Description**

<b>COA Type</b>	<b>Description</b>
0 COA	

### Attachment List

**Att Doc Num****Name**

403068443	SPILL/RELEASE REPORT(SUPPLEMENTAL)
403069311	SOIL SAMPLE LOCATION MAP
403069313	ANALYTICAL RESULTS
403069352	PHOTO DOCUMENTATION
403070163	TOPOGRAPHIC MAP
403082203	FORM 19 SUBMITTED

Total Attach: 6 Files

### General Comments

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

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

Total: 0 comment(s)