

State of Colorado Oil and Gas Conservation Commission

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Document Number:

403005647

Date Received:

04/06/2022

Spill report taken by:

Brown, Kari

Spill/Release Point ID:

481884

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>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# 403001479

Initial Report Date: 03/31/2022 Date of Discovery: 03/31/2022 Spill Type: Historical Release

Spill/Release Point Location:

QTRQTR NWNW SEC 23 TWP 4N RNG 65W MERIDIAN 6Latitude: 40.304954 Longitude: -104.639140Municipality (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 472424Spill/Release Point Name: Arens 1 - Separator☐ 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): UnknownEstimated Condensate Spill Volume(bbl): 0Estimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): UnknownEstimated 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: Warm and SunnySurface 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 releases at the Arens 1 production facility separator. Release clean-up and delineation activities 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>
3/31/2022	Colorado Parks & Wildlife	Brandon Marrette	-	
3/31/2022	Weld Co	NA	-	
3/31/2022	Surface Owner	NA	-	
3/31/2022	COGCC	Kari Brown	-	

REPORT CRITERIA

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

- ☐ **Yes** 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: Threatened to Impact Public Water System: n/a
- Residence or Occupied Structure: n/a Livestock: n/a
- Wildlife: n/a Publicly-Maintained Road: n/a
- ☐ **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.): _____

Yes	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:
	<input type="checkbox"/> The presence of free product or hydrocarbon sheen Surface Water <input type="checkbox"/> The presence of free product or hydrocarbon sheen on Groundwater <input checked="" type="checkbox"/> The presence of contaminated soil in contact with Groundwater <input type="checkbox"/> 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: 04/06/2022		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL			<input checked="" type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER			<input checked="" 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 checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet): <u>15</u>		Width of Impact (feet): <u>22</u>	
Depth of Impact (feet BGS): <u>5</u>		Depth of Impact (inches BGS): _____	
How was extent determined?			
<p>On March 31, 2022, a historic release was discovered below the separator during tank battery decommissioning at the Arens 1 tank battery. One soil sample (SEP01-FL) was collected beneath the separator flowline riser from impacted source material and submitted for laboratory analysis of the full COGCC Table 915-1 analytical suite. Preliminary analytical results indicated organic concentrations were in exceedance of the COGCC Table 915-1 Protection of Groundwater SSLs. Following the discovery, excavation activities were initiated and approximately 50 cubic yards of impacted material were removed and transported to the North Weld Waste Management Facility for disposal under PDC waste manifests. During excavation activities, groundwater was encountered at approximately 3 feet bgs. Consequently, one groundwater sample (GW01) was collected from the excavation and submitted for laboratory analysis of BTEX, naphthalene, 1,2,4-TMB, and 1,3,5-TMB. Analytical results indicated that organic concentrations were below applicable COGCC Table 915-1 standards in sample GW01. Following excavation activities, nine samples (SS01 - SS09) were collected from the base and sidewalls of the excavation at depths ranging between 2.5 feet and 5 feet bgs. The samples were submitted for preliminary laboratory analysis of BTEX, 1,2,4-TMB, 1,3,5-TMB, naphthalene, and TPH (C6-C36). Soil Sample SS05 was submitted for additional laboratory analysis of soil suitability for reclamation. Preliminary analytical results indicated that organic concentrations were below the applicable COGCC Table 915-1 standards in all samples collected from the final excavation extent. Additionally, five background soil samples (BKG01) were collected from the native material up-gradient of the tank battery and submitted to the laboratory for analysis of the COGCC Table 915-1 metals.</p>			

Soil/Geology Description:

Depth to Groundwater (feet BGS) <u>3</u>		Number Water Wells within 1/2 mile radius: <u>13</u>			
If less than 1 mile, distance in feet to nearest	Water Well	<u>945</u>	None <input type="checkbox"/>	Surface Water	<u>95</u> None <input type="checkbox"/>
	Wetlands	<u>45</u>	None <input type="checkbox"/>	Springs	<u> </u> None <input checked="" type="checkbox"/>
	Livestock	<u>1340</u>	None <input type="checkbox"/>	Occupied Building	<u>1500</u> None <input type="checkbox"/>

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 samples collected from the source material. The final analytical results will be summarized in a forthcoming Supplemental Form 27.

CORRECTIVE ACTIONS

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: 21378

☐ 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 27.

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: 04/06/2022 Email: COGCCSpillRemediation@pdce.com

Condition of Approval

COA Type

Description

	Operator shall provide an updated Form 27 for Remediation #21378 indicating groundwater monitoring and soil sampling plan in compliance with Table 915-1 within 60 days of approval of this Form 19 and prior to installation of monitoring wells.
1 COA	

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403005647	SPILL/RELEASE REPORT(SUPPLEMENTAL)
403005660	TOPOGRAPHIC MAP
403005674	SOIL SAMPLE LOCATION MAP
403005807	ANALYTICAL RESULTS
403005814	PHOTO DOCUMENTATION
403016982	FORM 19 SUBMITTED

Total Attach: 6 Files

General Comments

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

Total: 0 comment(s)