

State of Colorado Oil and Gas Conservation Commission

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Date Received:

11/09/2022

Spill report taken by:

Kosola, Jason

Spill/Release Point ID:

482991

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>frspillremediationcontractor@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# 403176323

Initial Report Date: 09/23/2022 Date of Discovery: 09/21/2022 Spill Type: Recent Spill

Spill/Release Point Location:

QTRQTR SENE SEC 32 TWP 1N RNG 66W MERIDIAN 6Latitude: 40.011117 Longitude: -104.793177Municipality (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 433548Spill/Release Point Name: Phelps Hz Pad☐ 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: NON-CROP LAND

Other(Specify): _____

Weather Condition: Cloudy and overcastSurface Owner: FEE

Other(Specify): _____

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

Pinhole observed at bottom of oil tank. Spill was completely contained within secondary containment.

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>
9/21/2022	Surface Owner	NA	-	
9/21/2022	Weld Co	NA	-	
9/21/2022	COGCC	Nikki Graber	-	

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.

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 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: 11/09/2022		
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FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	1	1	<input type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER	5	4	<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? NO Was an Emergency Pit constructed? NO

*Secondary containment, **including walls & floor regardless of construction material**, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.*

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) ☒ Soil ☐ Groundwater ☐ Surface Water ☐ Dry Drainage Feature

Surface Area Impacted: Length of Impact (feet): _____ Width of Impact (feet): _____

Depth of Impact (feet BGS): _____ Depth of Impact (inches BGS): _____

How was extent determined?

Spill impacts were limited to secondary containment liner fill material and were removed based on PID readings and visual indicators. See Figure 2 for spill extent. A waste characterization sample was collected and submitted for Table 915-1, and laboratory results demonstrated exceedance for residential standards for Benzene, Ethyl-Benzene, xylenes, 1,2,3- TMB, Naphthalene, TPH GRO, TPH DRO, TPH ORO, Benzo (s) pyrene, 1-Methyl-Naphthalene, 2-Methyl-Napthalene, EC, and SA. Eight clean-up confirmation samples of fill material were collected and analyzed for Table 915-1 organics and Soil suitability standards. All samples were in compliance with Table 915-1 except for EC and SAR. A background was collected with fill material and submitted for soil suitability standards, with results below Table 915-1 standard for soil suitability.

The release was fully contained inside secondary containment with a synthetic liner. A robust visual inspection of the liner was performed in areas where it was exposed during spill clean-up and the liner is competent and has not been compromised. The synthetic liner constitutes a significant barrier to migration and has good integrity, thus residential standards should be used.

Soil/Geology Description:

NA

Depth to Groundwater (feet BGS) <u>18</u>	Number Water Wells within 1/2 mile radius: <u>38</u>
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If less than 1 mile, distance in feet to nearest	Water Well <u>1250</u>	None <input type="checkbox"/>	Surface Water <u>240</u>	None <input type="checkbox"/>
	Wetlands <u>240</u>	None <input type="checkbox"/>	Springs _____	None <input checked="" type="checkbox"/>
	Livestock _____	None <input checked="" type="checkbox"/>	Occupied Building <u>1007</u>	None <input type="checkbox"/>

Additional Spill Details Not Provided Above:

PDC requests the fill material with elevated soil suitability standards be left in place until decommissioning of the facility, which the fill material will be disposed at a licensed landfill. The synthetic liner has good integrity constituting a significant barrier to migration.

CORRECTIVE ACTIONS

#1	Supplemental Report Date: 11/09/2022
Root Cause of Spill/Release <u>Corrosion</u>	
Other (specify) _____	
Type of Equipment at Point of Spill/Release: <u>Other</u>	
If "Other" selected above, specify or describe here:	
Crude oil storage tank	
Describe Incident & Root Cause (include specific equipment and point of failure)	
Pinhole leak in storage tank due to corrosion	
Describe measures taken to prevent the problem(s) from reoccurring:	
Inspect all other storage tanks for signs of corrosion and replace tanks if deemed necessary.	
Volume of Soil Excavated (cubic yards): <u>20</u>	
Disposition of Excavated Soil (attach documentation) <input checked="" type="checkbox"/> Offsite Disposal <input type="checkbox"/> Onsite Treatment	
<input type="checkbox"/> 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:

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

Signed: _____	Print Name: <u>Phillip Porter</u>
Title: <u>sr. env. rep</u>	Date: <u>11/09/2022</u> Email: <u>frspillremediationcontractor@pdce.com</u>

COA Type	Description
0 COA	

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403223681	AERIAL IMAGE
403223682	PHOTO DOCUMENTATION
403223683	ANALYTICAL RESULTS
403223685	ANALYTICAL RESULTS

Total Attach: 4 Files

General Comments

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

Total: 0 comment(s)