

State of Colorado Oil and Gas Conservation Commission

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Document Number:

402742799

Date Received:

07/09/2021

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

480256

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 906.b. for reporting requirements of spills or releases of E&P Waste or produced fluids. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

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# 402737636

Initial Report Date: 07/03/2021 Date of Discovery: 07/01/2021 Spill Type: Historical Release

Spill/Release Point Location:

QTRQTR nwne SEC 35 TWP 7n RNG 65w MERIDIAN 6Latitude: 40.537542 Longitude: -104.627123Municipality (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: WELL☐ Facility/Location ID No _____Spill/Release Point Name: Booth 10-26☒ Well API No. (Only if the reference facility is well) 05-123-34537☐ 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: sunnySurface Owner: FEE

Other(Specify): _____

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

Historic release was observed during wellhead investigation activities. Release clean-up and delineation activities are underway.

List of Agencies and Other Parties Notified Pursuant to Rule 912.b.(7)-(11):

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
7/1/2021	Surface Owner	Private	-	
7/2/2021	COGCC	Nikki Graber	-	
7/2/2021	WeldCo	NA	-	

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:
- ☐ 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: 07/09/2021		
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>19</u>		Width of Impact (feet): <u>14</u>	
Depth of Impact (feet BGS): <u>6</u>		Depth of Impact (inches BGS): _____	
How was extent determined?			
<p>On July 1, 2021, historic hydrocarbon impacts were discovered during decommissioning activities at the Booth 10-26 wellhead and the associated flowline. Following the discovery, excavation activities were initiated, and one soil sample (WH01) was collected from the source mass material and submitted for laboratory analysis of the full COGCC Table 915-1 analytical suite. Approximately 9.5 cubic yards of impacted material were removed and transported to the North Weld Landfill for disposal under PDC waste manifests. During excavation activities, groundwater was encountered at approximately 6 feet below ground surface (bgs). On July 1, 2021, 9 confirmation soil samples (SS01 – SS09) were collected from the base and sidewalls of the excavation at depths of 4 feet and 6.5 feet bgs. All samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene (TMB), 1,3,5-TMB, and TPH (C6-C36). Preliminary analytical results indicated that organic constituent concentrations were below the applicable regulatory standards in the soil samples collected from the final excavation extent. In addition, one soil sample (FLR01) was collected adjacent to the flowline at 2.5 feet bgs and submitted for analysis of Table 915-1 soil suitability constituents.</p>			
Soil/Geology Description:			
Otero sandy loam, 3 to 5 percent slopes			
Depth to Groundwater (feet BGS) <u>6</u>		Number Water Wells within 1/2 mile radius: <u>4</u>	
If less than 1 mile, distance in feet to nearest	Water Well <u>2271</u>	None <input type="checkbox"/>	Surface Water <u>220</u> None <input type="checkbox"/>
	Wetlands <u>1580</u>	None <input type="checkbox"/>	Springs _____ None <input checked="" type="checkbox"/>
	Livestock <u>2383</u>	None <input type="checkbox"/>	Occupied Building <u>770</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 excavation activities are summarized in Table 3. On July 1, 2021, following source mass removal activities, one groundwater sample (GW01) was collected from the excavation and submitted for analysis of BTEX, naphthalene, 1,2,4-TMB, and 1,3,5-TMB. Analytical results indicated that the benzene concentration was in exceedance of the applicable Table 915-1 standard in sample GW01. Groundwater analytical results are summarized in Table 2. Pending receipt of the remaining Table 915-1 laboratory results for source sample WH01, additional source mass removal activities may be required. Excavation and confirmation sampling activities and final analytical results will be summarized 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. Draft laboratory reports are included in Attachment A and the excavation and wellhead decommissioning field notes and photo logs are included in Attachment B.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 07/09/2021

Root Cause of Spill/Release Unknown (Historical)

Other (specify)

Type of Equipment at Point of Spill/Release: Wellhead Line

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

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

On July 1, 2021, a historic release was discovered adjacent to the former wellhead during wellhead 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 wellhead and associated flowline will be removed and not be replaced.

Volume of Soil Excavated (cubic yards): 9

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):

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: 18262

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

OPERATOR COMMENTS:

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. Env. Rep. Date: 07/09/2021 Email: COGCCSpillRemediation@pdce.com

Condition of Approval

COA Type

Description

	Pursuant to Rule 915.e.(2)C. If Operator believes it is appropriate to modify or reduce the list of Table 915-1 Contaminants of Concern, Operator will propose a modified list of contaminants of concern for Director approval on a Form 27 Supplemental for Remediation Project #18262. Operator may analyze soil confirmation samples for all contaminants of concern in Table 915-1 in lieu of submitting a modified list for Director approval.
1 COA	

Attachment List

Att Doc Num

Name

402742799	SPILL/RELEASE REPORT(SUPPLEMENTAL)
402742801	ANALYTICAL RESULTS
402742802	PHOTO DOCUMENTATION
402742803	SOIL SAMPLE LOCATION MAP
402743473	TOPOGRAPHIC MAP
402752359	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)