

State of Colorado Oil and Gas Conservation Commission

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Document Number:

403281982

Date Received:

01/07/2023

Spill report taken by:

Spill/Release Point ID:

SPILL/RELEASE REPORT (INITIAL /w 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>()</u>
City: <u>DENVER</u>	State: <u>CO</u>	Zip: <u>80203</u>
Contact Person: <u>Phillip Porter</u>		Mobile: <u>(303) 597-6847</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# 403281982

Initial Report Date: 01/06/2023 Date of Discovery: 01/04/2023 Spill Type: Historical Release

Spill/Release Point Location:

QTRQTR NWNE SEC 33 TWP 6N RNG 64W MERIDIAN 6Latitude: 40.448360 Longitude: -104.552440Municipality (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: Noffsinger 31-33☒ Well API No. (Only if the reference facility is well) 05-123-14260☐ No Existing Facility or Location ID No.

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

Estimated Oil Spill Volume(bbl): 0Estimated 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): UnknownEstimated Drilling Fluid Spill Volume(bbl): 0Specify: Produced FluidHas the subject Spill/Release been controlled at the time of reporting? Yes

Land Use:

Current Land Use: NON-CROP LAND

Other(Specify): _____

Weather Condition: Cold and breezySurface Owner: FEE

Other(Specify): _____

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

During well head decommissioning, a subsurface release was discovered. PDC is actively remediating and delineating the impacts.

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

Data not required

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.
- ☐ Areas offsite of Oil & Gas Location ☐ 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.

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 01/06/2023		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	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			<input checked="" type="checkbox"/>

specify: Produced fluid

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): 26 Width of Impact (feet): 22

Depth of Impact (feet BGS): 4 Depth of Impact (inches BGS): _____

How was extent determined?

On January 4, 2023, a historic release was discovered during decommissioning activities at the Noffsinger 31-33 wellhead. Following the discovery of the release, mitigation activities were initiated and to date, approximately 9 cubic yards of impacted material were removed and transported to the North Weld Waste Management Facility for disposal under PDC waste manifests. Additionally, groundwater was encountered during excavation activities at approximately 4 feet below ground surface (bgs). On January 3, 2022, one soil samples (SS01) was collected adjacent to the wellhead from the impacted source material at approximately 3 feet bgs, and was submitted for laboratory analysis of the full COGCC Table 915-1 analytical suite. Preliminary analytical results indicated that organic compound concentrations were in exceedance of the applicable COGCC Table 915-1 standards in soil sample SS01. One groundwater sample (GW01) was collected from the excavation at approximately 4 feet bgs and submitted for laboratory analysis of BTEX, naphthalene, 1,2,4-TMB, and 1,3,5-TMB. Analytical results indicated that organic compounds in groundwater were below the applicable COGCC Table 915-1 standards. In addition, nine (9) soil samples (SS02-SS10) were collected from the base and sidewalls of the excavation extent at depths ranging between 3 feet and 4 feet bgs and submitted for preliminary laboratory analysis of BTEX, naphthalene, 1,2,4-TMB, 1,3,5-TMB, and TPH (C6-C36). Two (2) soil samples (SS11-SS12) were collected from the sidewalls of the excavation extent at a depth of 2.5 feet bgs and submitted for laboratory analysis of pH, EC, SAR, and boron. Preliminary analytical results from soil samples collected from the final excavation extent are currently pending.

Soil/Geology Description:

Otero sandy loam, 1 to 3 percent slopes

Depth to Groundwater (feet BGS) 4 Number Water Wells within 1/2 mile radius: 3

If less than 1 mile, distance in feet to nearest

Water Well	<u>1659</u>	None <input type="checkbox"/>	Surface Water	<u>205</u>	None <input type="checkbox"/>
Wetlands	<u>205</u>	None <input type="checkbox"/>	Springs		None <input checked="" type="checkbox"/>
Livestock	<u>316</u>	None <input type="checkbox"/>	Occupied Building	<u>513</u>	None <input type="checkbox"/>

Additional Spill Details Not Provided Above:

In addition, six (6) background soil samples (BKG01 & BKG02) were collected from native material up-gradient of the wellhead between approximately 2.5 feet and 4 feet bgs and submitted for preliminary analysis of the Table 915-1 metals. Final analytical results and field activities will be summarized in a forthcoming Supplemental Form 27. 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.

Preliminary soil analytical results are summarized in Table 1. Preliminary groundwater analytical results are summarized in Table 2. GPS coordinates and PID readings for the soil samples collected during excavation activities are summarized in Table 3. A topographic map is attached as Figure 1. The current excavation extent and sample locations are illustrated on Figure 2. The draft laboratory analytical reports are included in Attachment A and the wellhead decommissioning field notes and photo logs are included in Attachment B.

CORRECTIVE ACTIONS

#1	Supplemental Report Date: 01/06/2023
Root Cause of Spill/Release <u>Unknown (Historical)</u>	
Other (specify) _____	
Type of Equipment at Point of Spill/Release: <u>Wellhead Line</u>	
If "Other" selected above, specify or describe here: <div style="border: 1px solid black; height: 30px; width: 100%; margin-top: 5px;"></div>	
Describe Incident & Root Cause (include specific equipment and point of failure) <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">On January 4, 2023, a historic release was discovered adjacent to the cut & capped wellhead during decommissioning activities at the Noffsinger 31-33 Wellhead. Due to the historic nature of the release, a root cause was not identified.</div>	
Describe measures taken to prevent the problem(s) from reoccurring: <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">Not Applicable</div>	
Volume of Soil Excavated (cubic yards): <u>9</u>	
Disposition of Excavated Soil (attach documentation) <input checked="" type="checkbox"/> Offsite Disposal <input type="checkbox"/> Onsite Treatment <div style="margin-left: 150px;"><input type="checkbox"/> Other (specify) _____</div>	
Volume of Impacted Ground Water Removed (bbls): <u>0</u>	
Volume of Impacted Surface Water Removed (bbls): <u>0</u>	

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: 25646
 - ☐ 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: Senior Environmental Rep. Date: 01/07/2023 Email: taspillremediationcontractor@pdce.com

COA Type

Description

0 COA	

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403282149	SOIL SAMPLE LOCATION MAP
403282151	PHOTO DOCUMENTATION
403282186	ANALYTICAL RESULTS
403282267	TOPOGRAPHIC MAP

Total Attach: 4 Files

General Comments

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

Total: 0 comment(s)