

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:

401274672

Date Received:

05/11/2017

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

449978

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>	<b>Phone Numbers</b>
Address: <u>1775 SHERMAN STREET - STE 3000</u>		Phone: <u>(970) 506-9272</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80203</u>		Mobile: <u>(970) 373-6581</u>
Contact Person: <u>Zack Liesenfeld</u>		Email: <u>Zack.Liesenfeld@pdce.com</u>

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401254471

Initial Report Date: 04/10/2017 Date of Discovery: 04/07/2017 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWSW SEC 29 TWP 6N RNG 64W MERIDIAN 6

Latitude: 40.454710 Longitude: -104.582670

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

Reference Location:

Facility Type: TANK BATTERY  Facility/Location ID No 330611  
 No Existing Facility or Location ID No.  
 Well API No. (Only if the reference facility is well) 05- -

Fluid(s) Spilled/Released (please answer Yes/No):

Was one (1) barrel or more spilled outside of berms or secondary containment? Yes

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

Were Five (5) barrels or more spilled? Yes

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

Estimated Oil Spill Volume(bbl): Unknown Estimated Condensate Spill Volume(bbl): 0

Estimated Flow Back Fluid Spill Volume(bbl): 0 Estimated Produced Water Spill Volume(bbl): Unknown

Estimated Other E&P Waste Spill Volume(bbl): 0 Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: \_\_\_\_\_

Land Use:

Current Land Use: CROP LAND Other(Specify): \_\_\_\_\_

Weather Condition: Sunny and warm

Surface Owner: FEE Other(Specify): \_\_\_\_\_

Check if impacted or threatened by spill/Release (please answer Yes/No to all that apply):

Waters of the State  Residence/Occupied Structure  Livestock  Public Byway  Surface Water Supply Area   
As defined in COGCC 100-Series Rules

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

A historic release was discovered on the Urich 13-29 while abandoning the production facility. Current remediation efforts are mitigating impacts.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

Date	Agency/Party	Contact	Phone	Response
4/8/2017	COGCC	Rick Allison	-	Via email
4/8/2017	Weld County	Roy Rudisill	-	Via email
4/7/2017	Land owner	NA	-	Via phone call

**SPILL/RELEASE DETAIL REPORTS**

#1 Supplemental Report Date: 05/04/2017

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? 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): 53 Width of Impact (feet): 44

Depth of Impact (feet BGS): 24 Depth of Impact (inches BGS): \_\_\_\_\_

How was extent determined?

On April 7, 2017, a historic release was discovered below the separator during decommissioning activities at the Urich 13-29 production facility. Between April 10 and April 17, 2017, approximately 1,092 cubic yards of impacted material were removed and transported to the North Weld Waste Management Facility in Ault, Colorado for disposal under PDC waste manifests. Sixteen soil samples (SS03 – SS06 and SS09 - SS20) were collected from the sidewalls of the final extent of the excavation area at approximately 12 feet and 22 feet below ground surface (bgs). Soil samples were submitted to Summit Scientific Laboratories (Summit) for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260, and TPH – diesel range organics (DRO) by USEPA Method 8015. Analytical results indicated constituent concentrations were below COGCC Table 910-1 standards in the sixteen soil sample locations. Groundwater was encountered in the excavation at approximately 24 feet bgs. Between April 18 and April 30, 2017, approximately 90 barrels of groundwater were recovered from the excavation using a vacuum truck and transported to a licensed disposal facility. On May 1, 2017, one groundwater sample (GW01) was collected from the excavation area and submitted to Summit for laboratory analysis of BTEX by USEPA Method 8260. Analytical results indicated dissolved phase BTEX concentrations were below COGCC Table 910-1 standards. The excavation extent and soil and groundwater sample locations are illustrated on Figure 2. Soil analytical data is summarized in Table 1 and groundwater analytical data is summarized in Table 2. Laboratory reports are provided in Attachment A. Based on the data described herein, PDC is requesting a No Further Action (NFA) determination for this release.

**Soil/Geology Description:**

Otero sandy loam, 1 to 3 percent slopes.

Depth to Groundwater (feet BGS) 24 Number Water Wells within 1/2 mile radius: 5  
 If less than 1 mile, distance in feet to nearest Water Well 1200 None  Surface Water 3175 None   
 Wetlands \_\_\_\_\_ None  Springs \_\_\_\_\_ None   
 Livestock \_\_\_\_\_ None  Occupied Building 260 None

Additional Spill Details Not Provided Above:

**CORRECTIVE ACTIONS**

#1 Supplemental Report Date: 05/04/2017

Cause of Spill (Check all that apply)  Human Error  Equipment Failure  Historical-Unknown  
 Other (specify) \_\_\_\_\_

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

A historic release was discovered during facility decommissioning activities.

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

The facility was decommissioned and will not be reconstructed.

Volume of Soil Excavated (cubic yards): 1092

Disposition of Excavated Soil (attach documentation)  Offsite Disposal  Onsite Treatment  
 Other (specify) \_\_\_\_\_

Volume of Impacted Ground Water Removed (bbls): 90

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)  
 Work proceeding under an approved Form 27  
 Form 27 Remediation Project No: \_\_\_\_\_

**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: Zack Liesenfeld  
 Title: EHS Professional Date: 05/11/2017 Email: Zack.Liesenfeld@pdce.com

**COA Type****Description**

	Based on the information presented, it appears that no further action is necessary at this time and the COGCC approves the closure request. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if ground water is found to be impacted, then further investigation and/or remediation activities may be required. In addition, the surface area disturbed by the remediation activity shall be reclaimed in accordance with the 1000 Series Reclamation Rules.
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**Attachment Check List****Att Doc Num****Name**

2615542	CORRESPONDENCE
401274672	SPILL/RELEASE REPORT(SUPPLEMENTAL)
401275521	TOPOGRAPHIC MAP
401275583	SITE MAP
401275871	ANALYTICAL RESULTS
401294360	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)