

State of Colorado Oil and Gas Conservation Commission

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Document Number:

401004170

Date Received:

03/15/2016

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

444936

SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. 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>(970) 506-9273</u>
City: <u>DENVER</u>	State: <u>CO</u>	Zip: <u>80203</u>
Contact Person: <u>Zack Liesenfeld</u>		Mobile: <u>(970) 373-6581</u>
		Email: <u>zack.liesenfeld@pdce.com</u>

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400992777

Initial Report Date: 02/19/2016 Date of Discovery: 02/18/2016 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR NESE SEC 12 TWP 6N RNG 65W MERIDIAN 6Latitude: 40.499410 Longitude: -104.601990Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: TANK BATTERY ☒ Facility/Location ID No 331302☐ 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): 0Estimated 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: _____

Land Use:

Current Land Use: CROP LAND

Other(Specify): _____

Weather Condition: Sunny and coolSurface 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 historical release was discovered on the Williamson 43-12 site while abandoning the production facility. Current remediation efforts are mitigating impacts.

List Agencies and Other Parties Notified:

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 03/14/2016		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input 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): 80 Width of Impact (feet): 50

Depth of Impact (feet BGS): 13 Depth of Impact (inches BGS): _____

How was extent determined?

On February 18, 2016, a historic release was discovered during facility plug and abandonment activities at the Williamson 43-12 location. Approximately 1,450 cubic yards of impacted material were removed and transported to the Waste Management Facility in Ault, Colorado for disposal under PDC waste manifests. 10 soil samples (SS01 – SS03 and SS05 – SS11) were collected from the sidewalls of the final excavation extent at approximately 11 feet below ground surface (bgs). Soil samples were submitted to Summit Scientific Laboratories in Golden, Colorado for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, and total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by Environmental Protection Agency (EPA) Method 8260B, TPH - diesel range organics (DRO) by EPA Method 8015, pH, and electrical conductivity (EC). Analytical results indicated organic compound concentrations were below COGCC Table 910-1 standards in all 10 soil sample locations. EC concentrations were in exceedance of regulatory standards in three (3) soil sample locations (SS02, SS06, and SS10). However, additional soil removal was not conducted as samples were collected below the designed root zone. Groundwater was encountered in the excavation area at approximately 13 feet bgs. Between February 25 and March 8, 2016, approximately 550 barrels of groundwater were removed using a vacuum truck and transported to a licensed disposal facility. A subsequent groundwater sample (GW01) was collected from the excavation area and submitted for laboratory analysis of BTEX. Analytical results indicated benzene concentrations were in exceedance of COGCC Table 910-1 groundwater standards at a detection of 5.1 µg/l. The excavation extent and soil and groundwater sample locations are illustrated on Figure 2. Soil analytical results are summarized in Table 1 and groundwater analytical results are summarized in Table 2. The laboratory reports are included as Attachment A.

Soil/Geology Description:

Thedalund loam, 1 to 3 percent slopes

Depth to Groundwater (feet BGS) 13 Number Water Wells within 1/2 mile radius: 5

If less than 1 mile, distance in feet to nearest

Water Well	<u>850</u>	None <input type="checkbox"/>	Surface Water	<u>1470</u>	None <input type="checkbox"/>
Wetlands		None <input checked="" type="checkbox"/>	Springs		None <input checked="" type="checkbox"/>
Livestock	<u>485</u>	None <input type="checkbox"/>	Occupied Building	<u>1275</u>	None <input type="checkbox"/>

Additional Spill Details Not Provided Above:

Based on the soil analytical data provided herein, remaining hydrocarbon impacts in soil were successfully removed during excavation activities. Given the marginal benzene concentration detected in groundwater sample GW01, PDC feels that dissolved phase hydrocarbon impacts do not pose a future risk at this site. Consequently, PDC is requesting a No Further Action (NFA) determination for this location.

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 Representative Date: 03/15/2016 Email: zack.liesenfeld@pdce.com

<u>COA Type</u>	<u>Description</u>
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Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401004260	ANALYTICAL RESULTS
401004261	SITE MAP
401004262	TOPOGRAPHIC MAP

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)