

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

401257225

Date Received:

04/12/2017

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

449423

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: PDC ENERGY INC	Operator No: 69175	Phone Numbers
Address: 1775 SHERMAN STREET - STE 3000		Phone: (970) 506-9272
City: DENVER	State: CO Zip: 80203	Mobile: (970) 373-6581
Contact Person: Zack Liesenfeld		Email: zack.liesenfeld@pdce.com

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401221976

Initial Report Date: 03/01/2017 Date of Discovery: 02/28/2017 Spill Type: Recent Spill

Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWNE SEC 10 TWP 5N RNG 64W MERIDIAN 6

Latitude: 40.419330 Longitude: -104.536150

Municipality (if within municipal boundaries): County: WELD

Reference Location:

Facility Type: FLOWLINE ☒ Facility/Location ID No 330540
☐ 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): 0 Estimated Condensate Spill Volume(bbl): 0

Estimated Flow Back Fluid Spill Volume(bbl): 0 Estimated Produced Water Spill Volume(bbl): >=5 and <100

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: Cloudy and cool

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):

PDC Energy discovered a reportable produced water release on the Wacker 31, 32-10 during flowline integrity testing. Upon discovery the facility was immediately shut in and vault bottomed out.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
3/1/2017	COGCC	Rick Allison	-	Via Email
3/1/2017	Weld County	Roy Rudisill	-	Via Email
3/1/2017	Land Owner	NA	-	Via Phone Call

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 04/12/2017		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER	13	0	<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?

On February 28, 2017, a produced water release was discovered at the Wacker 31, 32-10 production facility during integrity testing. On April 3, 2017, the produced water vessel and associated production lines were removed from service. Soil encountered in the excavation area was field screened for volatile organic compound (VOC) concentrations using a photoionization detector (PID). One soil sample (SS01) was collected below the vessel at approximately 4.5 feet below ground surface (bgs). The sample was submitted to Summit Scientific Laboratories for benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260, TPH – diesel range organics (DRO) by USEPA Method 8015, pH, and electrical conductivity (EC). Analytical results indicated organic compound concentrations and geochemical parameters were in compliance with COGCC Table 910-1 standards. The excavation extent and soil sample location are illustrated on Figure 2. Soil analytical data is summarized in Table 1 and the laboratory report is included as Attachment A. Based on the analytical data described herein, hydrocarbon impacts related to the release were not encountered during vessel decommissioning activities. Consequently, PDC is requesting a No Further Action (NFA) determination for this location.

Soil/Geology Description:

Otero sandy loam, 1 to 3 percent slopes.

Depth to Groundwater (feet BGS) 38 Number Water Wells within 1/2 mile radius: 7

If less than 1 mile, distance in feet to nearest Water Well 1525 None ☐ Surface Water 2575 None ☐

Wetlands _____ None ☒

Springs _____ None ☒

Livestock _____ None ☒

Occupied Building 1968 None ☐

Additional Spill Details Not Provided Above:

The partially buried produced water vessel was removed. Please refer to attached Produced Water Vessel Closure Report and Blanket Remediation # 9440.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 04/12/2017

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)

The failure was identified during annual flowline integrity testing due to a damaged connection at the produced water vessel.

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

The produced water vessel and associated production line were removed from service.

Volume of Soil Excavated (cubic yards): 0

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): 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: 04/12/2017 Email: zack.liesenfeld@pdce.com

COA Type

Description

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401257231	ANALYTICAL RESULTS
401257233	TOPOGRAPHIC MAP
401257234	OTHER
401257439	SITE 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)