

State of Colorado
Oil and Gas Conservation Commission

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Date Received:

07/24/2015

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.

Spill report taken by:

CANFIELD, CHRIS

Spill/Release Point ID:

442471

OPERATOR INFORMATION

Name of Operator: PDC ENERGY INC Operator No: 69175
Address: 1775 SHERMAN STREET - STE 3000
City: DENVER State: CO Zip: 80203
Contact Person: Zack Liesenfeld
Phone Numbers: Phone: (970) 5069273 Mobile: (970) 3736581 Email: Zack.Liesenfeld@pdce.com

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400864427

Initial Report Date: 07/08/2015 Date of Discovery: 07/06/2015 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWSE SEC 20 TWP 2N RNG 66W MERIDIAN 6

Latitude: 40.120918 Longitude: -104.797700

Municipality (if within municipal boundaries): County: WELD

Reference Location:

Facility Type: WELL PAD [X] Facility/Location ID No 327274
[] 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? No

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? No

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

Specify: A historic release was discovered during line replacement and production tank removal activities.

Land Use:

Current Land Use: CROP LAND Other(Specify):
Weather Condition: Cloudy
Surface Owner: FEE Other(Specify): Gary and Julie Hladky

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 [X]
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 during dump line replacement and production tank removal activities. In addition, an abandoned concrete vault was discovered below the fiberglass tank. Soil encountered during the excavation was field screened for VOC concentrations using a PID. Site assessment activities were completed to delineate the lateral extent of remaining hydrocarbon impacts. Soil excavation activities will continue until contaminated material is removed.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
7/8/2015	State of CO	Rick Allison	-	via email
7/8/2015	Weld County	Roy Rudesil	-	via email

SPILL/RELEASE DETAIL REPORTS

#1 Supplemental Report Date: 07/24/2015

FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	_____	_____	<input checked="" type="checkbox"/>
CONDENSATE	<u>0</u>	<u>0</u>	<input type="checkbox"/>
PRODUCED WATER	_____	_____	<input checked="" type="checkbox"/>
DRILLING FLUID	<u>0</u>	<u>0</u>	<input type="checkbox"/>
FLOW BACK FLUID	<u>0</u>	<u>0</u>	<input type="checkbox"/>
OTHER E&P WASTE	<u>0</u>	<u>0</u>	<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): 160 Width of Impact (feet): 55

Depth of Impact (feet BGS): 11 Depth of Impact (inches BGS): _____

How was extent determined?

On July 6, 2015, a historic release was discovered during dump line replacement and produced water tank removal activities at the Succo GU 4, 43-20 production facility. Approximately 2,530 cubic yards of impacted material were removed and transported to the Buffalo Ridge Landfill in Keenesburg, Colorado for disposal under PDC waste manifests. Soil encountered in the excavation area was field screened for (VOC) concentrations using a photoionization detector (PID). Soil samples were collected from the sidewalls and base of the excavation area at depths ranging between 6 feet and 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 USEPA Method 8260B, and TPH - diesel range organics (DRO) by USEPA Method 8015. The soil sample (SS01) collected from the base of the final excavation extent below the former produced water vessel was also submitted for analysis of pH, electrical conductivity (EC), and sodium adsorption ratio (SAR). Analytical results indicated soil samples collected from the final extent of the excavation area exhibited constituent concentrations below COGCC Table 910-1 soil standards. Soil analytical data is summarized in Table 1 and the laboratory analytical reports are included as Attachment A. The excavation extent and soil sample locations are illustrated on Figure 2. Based on the soil analytical data described herein, PDC is requesting a No Further Action (NFA) determination for this release.

Soil/Geology Description:

Shingle loam, 3 to 9 percent slopes

Depth to Groundwater (feet BGS) 28 Number Water Wells within 1/2 mile radius: 47

If less than 1 mile, distance in feet to nearest Water Well 245 None Surface Water 105 None

Wetlands _____ None

Springs _____ None

Livestock 60 None

Occupied Building 630 None

Additional Spill Details Not Provided Above:

PDC is requesting a produced water tank closure for this location, as described in the attached Form 27.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 07/24/2015

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 dump line replacement and produced water tank removal activities.

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

The produced water tank will not be replaced. Dump lines were replaced and routine pressure testing will be completed.

Volume of Soil Excavated (cubic yards): 2530

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: 07/24/2015 Email: Zack.Liesenfeld@pdce.com

COA Type

Description

Attachment Check List

Att Doc Num	Name
400873692	FORM 19 SUBMITTED
400873705	OTHER

Total Attach: 2 Files

General Comments

User Group

Comment

Comment Date

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

Total: 0 comment(s)