

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

401590586

Date Received:

03/30/2018

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

454458

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>	Phone Numbers
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# 401583863

Initial Report Date: 03/22/2018 Date of Discovery: 03/21/2018 Spill Type: Recent Spill

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SWNE SEC 24 TWP 5N RNG 65W MERIDIAN 6

Latitude: 40.387610 Longitude: -104.609410

Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: OTHER Facility/Location ID No 450111
 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): <u>0</u>	Estimated Condensate Spill Volume(bbl): <u>0</u>
Estimated Flow Back Fluid Spill Volume(bbl): <u>0</u>	Estimated Produced Water Spill Volume(bbl): <u>0</u>
Estimated Other E&P Waste Spill Volume(bbl): <u>0</u>	Estimated Drilling Fluid Spill Volume(bbl): <u>>=5 and <100</u>

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):

PDC discovered a reportable Oil Based Drilling Mud release on the Sandin 24V drill location due to a misaligned valve. Once discovered the release was stopped and impacts immediately mitigated.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
3/22/2018	COGCC	Rick Allison	-	Via Email
3/22/2018	Weld County	Roy Rudisill	-	Via Email
3/22/2018	Landowners	NA	-	Via Phone Call

SPILL/RELEASE DETAIL REPORTS

#1 Supplemental Report Date: 03/29/2018

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	10	9	<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): 90 Width of Impact (feet): 25

Depth of Impact (feet BGS): 1 Depth of Impact (inches BGS): _____

How was extent determined?

On March 21, 2018, approximately 10 barrels of oil-based drilling mud were released onto a concrete pad and adjacent area at the Sandin 24V Drill Pad. Following the release, vacuum activities were conducted and recovered approximately 9 barrels of fluid. The remaining fluid and impacted surface area was scraped to approximately 6 inches below ground surface (bgs). On March 23, 2018, three (3) confirmation soils samples (SS01 - SS03) were collected from the affected area and submitted to Summit Scientific Laboratories in Golden, Colorado for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons (TPH) - gasoline range organics by United States Environmental Protection Agency (USEPA) Method 8260B, and TPH - diesel range organics (DRO) by USEPA Method 8015. Analytical results indicated that TPH concentrations were above applicable COGCC Table 910-1 standards in soil sample SS01. Soil samples SS02 and SS03 exhibited organic compound concentrations below regulatory standards. Based on the analytical results, additional scraping was conducted to approximately 1 foot bgs in the northern release area. On March 27, 2018, one soil sample (SS04) was collected in the location of soil sample SS01 at approximately 1 foot bgs. The sample was submitted to Summit for laboratory analysis of BTEX, naphthalene, TPH-GRO by USEPA Method 8260B, and TPH-DRO by USEPA Method 8015. Analytical results indicated that organic compound concentrations were below applicable regulatory standards in soil sample SS04. Based on the results, PDC is submitting a No Further Action (NFA) request for this location. A topographic map is included as Figure 1. The release area and sample locations are illustrated in Figure 2 and soil analytical results are summarized in Table 1. The laboratory reports are included in Attachment A. Additionally, pictures of the release area and mitigation efforts are included in the photolog.

Soil/Geology Description:

Altvan loam, 0 to 1 percent grades.

Depth to Groundwater (feet BGS) 17

Number Water Wells within 1/2 mile radius: 10

If less than 1 mile, distance in feet to nearest

Water Well 778 None

Surface Water 756 None

Wetlands _____ None

Springs _____ None

Livestock 1919 None

Occupied Building 1113 None

Additional Spill Details Not Provided Above:

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 03/29/2018

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)

On March 21, 2018, approximately 10 barrels of oil-based drilling mud was released due to a miss-alignment of valves during fluid transfer operations.

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

Prior to fluid transfer operations, all valves and connections will be checked. Importance of checking valves was addressed in morning safety meetings.

Volume of Soil Excavated (cubic yards): 10

Disposition of Excavated Soil (attach documentation) Offsite Disposal Onsite Treatment

Other (specify) Impacted material was mixed in with on-site drill cuttings for disposal.

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: 03/30/2018 Email: Zack.Liesenfeld@pdce.com

COA Type

Description

COA Type	Description

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401591336	ANALYTICAL RESULTS
401591342	SITE MAP
401591346	TOPOGRAPHIC MAP
401591865	OTHER

Total Attach: 4 Files

General Comments

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

Total: 0 comment(s)