

State of Colorado Oil and Gas Conservation Commission

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Document Number:

401183957

Date Received:

01/16/2017

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

448023

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) 506-9273</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# 401130478

Initial Report Date: 10/14/2016 Date of Discovery: 10/13/2016 Spill Type: Recent Spill

Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWSW SEC 32 TWP 6N RNG 63W MERIDIAN 6Latitude: 40.440500 Longitude: -104.467290Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: TANK BATTERY ☒ Facility/Location ID No 331044☐ 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? 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): >=5 and <100Estimated Other E&P Waste Spill Volume(bbl): 0Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: _____

Land Use:

Current Land Use: NON-CROP LANDOther(Specify): Range LandWeather Condition: Sunny and warmSurface Owner: STATE

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):

Yesterday a produced water release was discovered within secondary containment at the State 6525 13-32 production facility. Once the release was determined reportable, the water leg was immediately shut in and vault bottomed out. Investigation efforts are identifying cause and point of release. Recovery activities are currently mitigating impacts.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
10/13/2016	COGCC	Rick Allison	-	Via email
10/13/2016	Weld County	Roy Rudisill	-	Via email
10/13/2016	Land Owner	NA	-	Via Phone Call

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 01/13/2017		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER	30	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? YES 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 October 13, 2016, approximately 30 barrels of produced water were released within secondary containment. Upon discovery, the produced water dump line was shut in and spill response measures were completed. On November 9, 2016, a site investigation was conducted to determine the extent of potential hydrocarbon impacts related to the release. Five soil borings (SB01 - SB05) were advanced to approximately 6 feet below ground surface (bgs) using a hand auger. Grab soil samples were collected from the soil borings in 1 foot intervals and field screened for volatile organic compound (VOC) concentrations using a photoionization detector (PID). Soil samples were collected from the terminus of each soil boring at approximately 6 feet bgs. 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, and TPH - diesel range organics (DRO) by EPA Method 8015. Analytical results indicated that constituent concentrations were below COGCC Table 910-1 standards in all five soil samples. Soil boring locations are illustrated on Figure 2 and soil analytical results are summarized in Table 1. The laboratory report is included as Attachment A.

Soil/Geology Description:

Vona sandy loam, 1 to 3 percent slopes.

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

If less than 1 mile, distance in feet to nearest Water Well 1675 None ☐ Surface Water 4630 None ☐

Wetlands _____ None ☒Springs _____ None ☒Livestock 3880 None ☐Occupied Building 3775 None ☐

Additional Spill Details Not Provided Above:

Based on the analytical data described herein, hydrocarbon impacts were not detected adjacent to the release point or outside of secondary containment. Consequently, PDC is requesting a No Further Action (NFA) determination for this release.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 01/13/2017Cause 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 leak was discovered during annual produced water vessel integrity testing. Based on the results of the integrity testing, PDC presumed the release occurred at the vessel and production line connection.

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

The produced water production line and tank drain will remain shut in until the tank may be repaired. PDC will repair, replace or remove the vessel from service within approximately one year of the release date. Corrective actions specific to this release will be established upon vessel repair and final determination of the root cause. Upon repair of the vessel, field screening for volatile organic compound (VOC) concentrations below the vessel will be conducted. Should hydrocarbon impacts be encountered during the repair, additional sampling and reporting will be conducted in accordance with COGCC 900 Series regulations. If the produced water vessel is removed from service, a confirmation soil or groundwater sample will be collected below the vessel in accordance with COGCC Rule 905.b. Should laboratory data indicate organic compound concentrations and geochemical parameters are in compliance with COGCC Table 910-1 standards, a Produced Water Vessel Closure Request will be submitted under Blanket Remediation #9440. Should hydrocarbon impacts in exceedance of regulatory standards be encountered below the vessel, a site-specific remediation work plan will be submitted via Form 27.

Volume of Soil Excavated (cubic yards): 0Disposition of Excavated Soil (attach documentation) ☐ Offsite Disposal ☐ Onsite Treatment☐ Other (specify) _____Volume of Impacted Ground Water Removed (bbls): 0Volume 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 LiesenfeldTitle: EHS Professional Date: 01/16/2017 Email: Zack.Liesenfeld@pdce.com

COA Type

Description

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401183962	SITE MAP
401183963	TOPOGRAPHIC MAP
401183964	ANALYTICAL RESULTS

Total Attach: 3 Files

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

Total: 0 comment(s)