

State of Colorado Oil and Gas Conservation Commission

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Document Number:

400639067

Date Received:

07/03/2014

Spill report taken by:

Spill/Release Point ID:

SPILL/RELEASE REPORT (INITIAL /w 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>(303) 831-3971</u>
City: <u>DENVER</u>	State: <u>CO</u>	Zip: <u>80203</u>
Contact Person: <u>Brandon Bruns</u>		Mobile: <u>()</u>
		Email: <u>brandon.bruns@pdce.com</u>

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400639067

Initial Report Date: 07/03/2014 Date of Discovery: 06/16/2014 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWNE SEC 32 TWP 6N RNG 65W MERIDIAN 6Latitude: 40.451074 Longitude: -104.686782Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: TANK BATTERY ☐ Facility/Location ID No 322945☐ 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): 0Estimated Condensate Spill Volume(bbl): UnknownEstimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): 0Estimated 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, 70 degreesSurface 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):

On June 13, 2014, a historic dump line release was discovered during routine maintenance activities at the Johnson Oly 1 (Facility# 322945) tank battery. Well Johnson Oly 1 (API# 05-123-12299) produces to this location. The facility was immediately shut in and excavation of impacted soil commenced below the dump line location. Approximately 540 cubic yards of impacted material were removed and disposed of at the Waste Management Landfill in Ault, Colorado under PDC waste manifests. Groundwater was not encountered during excavation activities. A topographic map of the site is included as Figure 1.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
6/18/2014	Landowner	D&D Commodities	970-353-8052	discussed planned cleanup activities

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 07/03/2014		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE			<input checked="" type="checkbox"/>
PRODUCED WATER	0	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? <u>NO</u> Was an Emergency Pit constructed? <u>NO</u>			
<i>Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>			
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) <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet):		42	Width of Impact (feet): 22
Depth of Impact (feet BGS):		18	Depth of Impact (inches BGS):
How was extent determined?			
Excavation activities commenced on June 16, 2014, following the discovery of a historic release adjacent to the buried dump lines at the Johnson Oly 1 tank battery. Approximately 540 cubic yards of impacted material were removed and transported to the Waste Management Landfill in Ault, Colorado under PDC waste manifests. The vertical and lateral extents of the excavation were determined in the field using a photoionization detector (PID) to measure volatile organic compound (VOC) concentrations in soil. On June 16, 2014, four soil samples (SS01 – SS04) were collected from the base and sidewalls of the excavation area and submitted to Summit Scientific Laboratories in Golden, Colorado for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), and naphthalene by EPA Method 8260B. Samples were also submitted for analysis of TPH-diesel range organics (DRO) by EPA Method 8015. Analytical results indicated residual hydrocarbon impacts were present on the sidewalls and the base (approximately 18 feet below ground surface [bgs]) of the excavation area.			
Soil/Geology Description:			
kim loam 1 to 3 percent slopes			
Depth to Groundwater (feet BGS)		35	Number Water Wells within 1/2 mile radius: 19
If less than 1 mile, distance in feet to nearest	Water Well	1116	None <input type="checkbox"/> Surface Water 1965 None <input type="checkbox"/>
	Wetlands		None <input checked="" type="checkbox"/> Springs None <input checked="" type="checkbox"/>
	Livestock		None <input checked="" type="checkbox"/> Occupied Building 1385 None <input type="checkbox"/>
Additional Spill Details Not Provided Above:			

Between June 18 and June 19, 2014, excavation of impacted soil was subsequently conducted. Twelve soil samples (SS05 – SS16) were collected from the sidewalls of the excavation area at depth intervals of 8 feet bgs and 14 feet bgs. Soil samples were submitted for laboratory analysis of BTEX, naphthalene, and TPH – GRO/DRO. Analytical results indicated constituent concentrations in soil samples collected from the sidewalls of the excavation area are below regulatory standards, with the exception of those collected from the northeast sidewall (SS09/SS10). However, impacted soil adjacent to SS09 and SS10 was not removed due to the presence of a buried gas line owned by others. Consequently, four soil samples (TP01 – TP04) were collected from a test pit located northeast of the buried gas line to delineate the lateral extent of the residual hydrocarbon plume. Analytical results indicate constituent concentrations in the test pit location are below regulatory standards. Groundwater was not encountered during excavation activities. Soil analytical results are summarized on Table 1 and the laboratory analytical reports are included as Attachment A. The excavation extent and soil sample locations are illustrated on Figure 2.

CORRECTIVE ACTIONS

#1	Supplemental Report Date: 07/03/2014
Cause of Spill (Check all that apply)	
<input type="checkbox"/> Human Error	<input checked="" type="checkbox"/> Equipment Failure
<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Historical-Unknown
Describe Incident & Root Cause (include specific equipment and point of failure)	
A dumpline failed which caused a spill to the subsurface	
Describe measures taken to prevent the problem(s) from reoccurring:	
The dump lines were replaced during battery reconstruction and PDC will continue yearly production line testing once the location is back to being operational.	
Volume of Soil Excavated (cubic yards): 540	
Disposition of Excavated Soil (attach documentation)	
<input checked="" type="checkbox"/> Offsite Disposal	<input type="checkbox"/> Onsite Treatment
<input type="checkbox"/> 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: _____

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: _____ Print Name: Brandon Bruns

Title: EHS Supervisor Date: 07/03/2014 Email: brandon.bruns@pdce.com

Attachment Check List

Att Doc Num	Name
400639069	SITE MAP
400639070	ANALYTICAL RESULTS

Total Attach: 2 Files

General Comments

User Group	Comment	Comment Date

Total: 0 comment(s)