

State of Colorado Oil and Gas Conservation Commission

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Date Received:

06/03/2015

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

439495

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.

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) 860-5800</u>
City: <u>DENVER</u>	State: <u>CO</u>	Mobile: <u>(303) 318-6144</u>
Zip: <u>80203</u>		Email: <u>charity.fleenor@pdce.com</u>
Contact Person: <u>Charity Fleenor</u>		

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400719289

Initial Report Date: 10/29/2014 Date of Discovery: 10/27/2014 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWSE SEC 24 TWP 6N RNG 65W MERIDIAN 6Latitude: 40.468682 Longitude: -104.606833Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: FLOWLINE☐ Facility/Location ID No _____☐ No Existing Facility or Location ID No.☒ Well API No. (Only if the reference facility is well) 05-123-14085

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? No

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): UnknownEstimated Condensate Spill Volume(bbl): UnknownEstimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): UnknownEstimated 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: Clear Windy 50FSurface 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 October 27, 2014, a historic release was discovered during routine pressure testing of the Miller GJ 33-24 well flowline (API # 05-123-14085). The well/flowline was shut in and excavation activities commenced below the separator. Groundwater was later encountered at approximately 11 feet below ground surface. Excavation continued and soils were field screened and sampled to determine and confirm the extent of the spill. Excavated soils will be screened, profiled, and disposed of at a permitted landfill. Groundwater will be evacuated and disposed of at a permitted water disposal facility. Groundwater will then be sampled and submitted for laboratory analysis to evaluate any impact. A summary of the excavation activities and groundwater/soil sampling results will be provided in a Supplemental Form 19 to this report.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
10/28/2014	COGCC	Rick Allison	970-461-2970	Call and e-mail on 10/28/2014. File eForm 19 as follow-up top Initial Notification.
10/28/2014	Weld OEM	Roy Rudisill	-	E-mail on 10/28/2014. No response.
10/28/2014	Property Owner	David Cogburn	-	Phone message and e-mail on 10/28/2014 by PDC Land.

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 06/02/2015		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL			<input checked="" type="checkbox"/>
CONDENSATE			<input checked="" type="checkbox"/>
PRODUCED WATER			<input checked="" 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 checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet): <u>50</u>		Width of Impact (feet): <u>45</u>	
Depth of Impact (feet BGS): <u>11</u>		Depth of Impact (inches BGS): _____	
How was extent determined?			
<p>On October 27, 2014, a historic release was discovered during routine pressure testing of the Miller GJ 33-24 well flow line (API # 05-123-14085). Following the discovery, excavation activities were completed and approximately 360 cubic yards of impacted material were removed and transported to the Waste Management Facility in Ault, Colorado for disposal under PDC waste manifests. Between October 27 - October 29, 2014, eight soil samples (SS01 - SS08) were collected from the sidewalls of the excavation area at approximately 7 feet below ground surface (bgs). Soil samples were submitted to Summit Scientific Laboratories in Golden, Colorado for laboratory analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, and total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by USEPA Method 8260B. Samples were also analyzed for TPH - diesel range organics (DRO) by USEPA Method 8015. Analytical results indicated constituent concentrations were below COGCC Table 910-1 standards in the eight soil samples collected from the final excavation extent. Groundwater was encountered in the excavation area at approximately 11 feet bgs. Between October 27 - November 3, 2014, approximately 640 barrels of groundwater were removed and transported to a permitted water disposal facility. On November 3, 2014, a groundwater sample (GW01) was collected from the excavation area and submitted for laboratory analysis of BTEX. Analytical results indicated benzene concentrations in GW01 were in exceedance of regulatory standards. The excavation extent and soil and groundwater sample locations are illustrated on Figure 2.</p>			
Soil/Geology Description:			
Nunn clay loam, 0-1 percent slopes			
Depth to Groundwater (feet BGS) <u>11</u>		Number Water Wells within 1/2 mile radius: <u>14</u>	

If less than 1 mile, distance in feet to nearest Water Well 1050 None ☐ Surface Water 2230 None ☐
Wetlands None ☒ Springs None ☒
Livestock None ☒ Occupied Building 1405 None ☐

Additional Spill Details Not Provided Above:

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 06/02/2015

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 flow line release was discovered during routine pressure testing. The flow line was replaced and PDC Energy, Inc. will continue pressure testing once the facility is returned to operation.

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

The flow line will be replaced and PDC will continue annual pressure testing once the facility becomes operational.

Volume of Soil Excavated (cubic yards): 360

Disposition of Excavated Soil (attach documentation) ☒ Offsite Disposal ☐ Onsite Treatment
☐ Other (specify) _____

Volume of Impacted Ground Water Removed (bbls): 640

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: 9101

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

Signed: _____ Print Name: Charity Fleenor

Title: Director of EHS Date: 06/03/2015 Email: charity.fleenor@pdce.com

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400847209	OTHER
400847210	TOPOGRAPHIC MAP
400847211	SITE MAP
400847212	SITE MAP
400847213	ANALYTICAL RESULTS
400847216	OTHER

Total Attach: 6 Files

General Comments

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

Total: 0 comment(s)