

FORM 19
Rev 6/99

**State of Colorado
Oil and Gas Conservation Commission**

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FOR OGCC USE ONLY

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SPILL/RELEASE REPORT

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

Spill report taken by:
R. Allison
FACILITY ID:
430211

OPERATOR INFORMATION

Name of Operator: <u>PDC Energy, Inc.</u>	OGCC Operator No: <u>69175</u>	Phone Numbers
Address: <u>1775 Sherman Street, Suite 3000</u>		No: <u>(303) 831-3971</u>
City: <u>Denver</u>	State: <u>CO</u> Zip: <u>80203</u>	Fax: <u>(303) 860-5838</u>
Contact Person: <u>Brandon Bruns</u>		Email: <u>brandon.bruns@pdce.com</u>

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: <u>7/1/2013</u>	Facility Name & No: <u>Dalton 24Q-441</u>	County: <u>Weld</u>
Type of Facility (well, tank battery, flow line, pit): <u>Well</u>		QtrQtr: <u>SESW</u> Section: <u>24</u>
Well Name and Number: <u>Dalton 24Q-441</u>		Township: <u>7N</u> Range: <u>66W</u>
API Number: <u>05-123-36098</u>		Meridian: <u>6th</u>
Specify volume spilled and recovered (in bbls) for the following materials:		
Oil spilled: _____ Oil recov'd: _____	Water spilled: <u>10</u>	Water recov'd: <u>5</u> Other spilled: _____ Other recov'd: _____
Ground Water impacted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Surface Water impacted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Contained within berm? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Area and vertical extent of spill: <u>350' x 3'</u> x <u>3"</u> bgs	
Current land use: <u>Oil and Gas Production Facility/Agriculture</u> Weather conditions: <u>Rain, Low 90s</u>		
Soil/geology description: <u>Kim loam (1 to 3% slopes), otero sandy loam (3 to 5% slopes)</u>		
IF LESS THAN A MILE , report distance IN FEET to nearest ... Surface water: <u>~315' W</u> Wetlands: <u>NA</u> Buildings: <u>~335' E</u>		
Livestock: <u>NA</u> Water wells: <u>~1,240' SE</u> Depth to shallowest ground water: <u>~55 feet</u>		
Cause of spill (e.g. equipment failure, human error, etc.): <u>Connection failure</u> Detailed description of the spill/release incident:		
On July 1, 2013, at approximately 5:45 pm at the Dalton 24Q-441 tank battery, a release of produced water was detected at the connection to the produced water tank. This release surfaced immediately outside of the south wall of the steel tank battery containment. The produced water flowed to the south and entered a bar ditch that runs along the north edge of Weld County Road 78. Figure 1 illustrates the spill location.		

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered):
PDC and contractor personnel were onsite when the release occurred and the source was shut-in immediately. After the release was observed, an earthen dam was constructed downgradient of the spill in the bar ditch that runs along County Road 78. In addition, a vacuum truck was used to remove as much standing water in the ditch as possible. It was estimated that approximately 5 barrels of produced water was recovered by the vacuum truck. Soil impacted from the release were stockpiled adjacent to the tank battery and were screened with a photoionization detector (PID). A PID reading of 11.7 parts per million was measured on the stockpiled soil. Based on this low hydrocarbon level, the soil was mixed with clean backfill and spread on site.

Describe any emergency pits constructed: No emergency pits were constructed.

How was the extent of contamination determined?
On July 2, 2013, PDC collected five soil samples (SS01 - SS05) in the bar ditch. Each of these samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene and total petroleum hydrocarbons - gasoline range organics (TPH-GRO) by USEPA method 8260 and total petroleum hydrocarbons - diesel range organics (TPH-DRO) by USEPA Method 8015. In addition, an aqueous sample was collected from the produced water at the tank battery that released the fluids. This sample (PW01) was analyzed for BTEX by USEPA Method 8260. On July 3, 2013, an additional sample was collected from the same produced water tank and analyzed for the remaining analytes that make up the COGCC Table 910-1 aqueous suite (total dissolved solids, chlorides and sulfates) by applicable USEPA methods. Three surface water samples (SW01 - SW03) were also collected from the Mead Lateral irrigation ditch that runs west of the spill location. These samples were analyzed for BTEX using USEPA Method 8260. The sample locations along with a schematic of the spill area and surrounding area is provided as Figure 2. Lab results indicated that all soil and surface water samples were below laboratory detection limits or below applicable COGCC Table 910-1 standards.

Further remediation activities proposed (attach separate sheet if needed):
PDC plans to collect additional soil samples in the area between the tank battery and the bar ditch that runs along Weld County Road 78 in the near future. This additional data will be submitted to the COGCC through a subsequent Form 4 Sundry notice and updated figures, data summary tables and laboratory analytical reports.

Describe measures taken to prevent problem from reoccurring:
PDC applied additional bentonite along the edge of the steel tank battery containment.

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

Date	Agency	Contact	Phone	Response
7/3/2012	COGCC	Bob Chesson	303-894-2100 x5112	Left message
7/3/2012	CDPHE		1-877-518-5608	Spill # 2013-0423
2/11/2013	NRC		1-800-424-8802	Incident Report # 1052653

Spill/Release Tracking No: 2614364