

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



FOR OGCC USE ONLY

Received
10/12/2010

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:

FACILITY ID:

OPERATOR INFORMATION

Name of Operator: <u>Petroleum Development Corporation</u>	OGCC Operator No: <u>69175</u>	Phone Numbers
Address: <u>1775 Sherman Street, Suite 3000</u>		No: <u>(303) 860-5800</u>
City: <u>Denver</u>	State: <u>CO</u> Zip: <u>80203</u>	Fax: <u>(970) 860-5838</u>
Contact Person: <u>Randall Ferguson</u>		Email: <u>rferguson@petd.com</u>

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: <u>9/7/2010</u>	Facility Name & No: <u>Heldt 11-18</u>	County: <u>Weld</u>
Type of Facility (well, tank battery, flow line, pit): <u>Tank Battery</u>		QtrQtr: <u>NWNW</u> Section: <u>18</u>
Well Name and Number: <u>Heldt 11-18</u>		Township: <u>6N</u> Range: <u>64W</u>
API Number: <u>05-123-20466</u>		Meridian: <u>6th</u>

Specify volume spilled and recovered (in bbls) for the following materials:

Oil spilled: 0 Oil recov'd: 0 Water spilled: Unk Water recov'd: 0 Other spilled: 0 Other recov'd: 0

Ground Water impacted? ☒ Yes ☐ No Surface Water impacted? ☐ Yes ☒ No

Contained within berm? ☐ Yes ☒ No Area and vertical extent of spill: 20' N-S x 60' E-W x 5' depth

Current land use: Oil and Gas Production Facility/Agriculture Weather conditions: Mid 90s

Soil/geology description: Aquolls and Aquepts, flooded

IF LESS THAN A MILE, report distance IN FEET to nearest ... Surface water: 40' W wetlands: NA buildings: 485' NW

Livestock: Unknown Water wells: 480' E Depth to shallowest ground water: 5'

Cause of spill (e.g. equipment failure, human error, etc.): Equipment failure Detailed description of the spill/release incident:
During an equipment upgrade, PDC found a leak in the water vault and its associated dump line that released an unknown quantity of produced water to the subsurface.

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered): PDC shut-in the wells feeding the battery. Once the dump line and water vault were removed, approx. 440 cubic yards of impacted soil were excavated and transported offsite for disposal. Soil samples were collected from the extent of the excavation and were submitted for laboratory analysis of BTEX, naphthalene, and TPH-GRO by EPA Method 8260B and TPH-DRO by EPA Method 8015. A groundwater sample was collected from the base of the excavation and was submitted for laboratory analysis of BTEX by EPA Method 8260B. A vacuum truck is currently being used to recover impacted groundwater from the base of the excavation. A topographic site location map and site map are provided as Figures 1 and 2.

Describe any emergency pits constructed: NA

How was the extent of contamination determined? Laboratory analytical results for soil indicate BTEX, DRO, GRO, and naphthalene concentrations are in compliance with COGCC Table 910-1 concentration levels. Soil analytical results are summarized in Table 1. Laboratory analytical results for groundwater indicate BTEX concentrations are not in compliance with CDPHE WQCC Regulation 41 standards. Groundwater analytical results are summarized in Table 2.

Further remediation activities proposed (attach separate sheet if needed): Approx. 440 cubic yards of impacted soil was transported to the Waste Management Landfill in Ault, Colorado for disposal. A Form 27 will be submitted under separate cover.

Describe measures taken to prevent problem from reoccurring: PDC replaced the leaking water vault and dump line and will continue to conduct annual pressure testing.

OTHER NOTIFICATIONS

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

Date	Agency	Contact	Phone	Response
9/24/2010	COGCC	John Axelson	303-637-7178	Email Notification

Spill/Release Tracking No: 2521760