

**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

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

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>02/04/2010</u> Facility Name & No: <u>Heldt 12-18</u>	County: <u>Weld</u>
Type of Facility (well, tank battery, flow line, pit): <u>Tank Battery</u>	QtrQtr: <u>SWNW</u> Section: <u>18</u>
Well Name and Number: <u>Heldt 12-18</u>	Township: <u>6N</u> Range: <u>64W</u>
API Number: <u>05-123-19549</u>	Meridian: <u>6th</u>
Specify volume spilled and recovered (in bbls) for the following materials:	
Oil spilled: <u>0</u> Oil recov'd: <u>0</u> Water spilled: <u>Unk</u> Water recov'd: <u>0</u> Other spilled: <u>0</u> Other recov'd: <u>0</u>	
Ground Water impacted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface Water impacted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Contained within berm? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Area and vertical extent of spill: <u>Unk</u> x <u> </u>
Current land use: <u>Irrigated cropland</u>	Weather conditions: <u>Mid 40s</u>
Soil/geology description: <u>Colombo Clay Loam, 0 to 1 percent slopes</u>	
IF LESS THAN A MILE , report distance IN FEET to nearest ... Surface water: <u>45' SW</u> wetlands: <u>NA</u> buildings: <u>650' SW</u>	
Livestock: <u>unknown</u> Water wells: <u>771' SW</u> Depth to shallowest ground water: <u>7' bgs</u>	
Cause of spill (e.g. equipment failure, human error, etc.): <u>Failed produced water vault</u> Detailed description of the spill/release incident:	
A produced water vault failure released produced water into the subsurface. Released fluids intercepted a landowner's field drain tiles installed beneath the tank battery which conveyed the produced water to an adjacent unnamed tributary of Lone Tree Creek.	

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered): PDC placed absorbent pads and booms in the unnamed tributary to control any free hydrocarbons and/or sheen. The wells which feed the battery were immediately shut-in. PDC contractors began excavating to determine the point where the produced water was infiltrating the field drain tiles. Vacuum trucks have recovered impacted fluids from the exposed drain tiles on a daily basis. PDC also installed an activated carbon filter downgradient of the field drain tile discharge to capture and remediate any potential hydrocarbons in outfall fluids.
Describe any emergency pits constructed: <u>NA</u>
How was the extent of contamination determined? Samples are collected at the field drain tile outfall and upgradient as well as downgradient of the outfall. Surface water samples are being collected to monitor remedial progress.
Further remediation activities proposed (attach separate sheet if needed): PDC contractors are currently conducting excavation and removal of impacted soils associated with the failed produced water vault. PDC will delineate impacted soil and groundwater during excavation activities. Findings will be detailed in a future Form 27 submittal.
Describe measures taken to prevent problem from reoccurring: PDC will replace the produced water vault and associated piping.

OTHER NOTIFICATIONS

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

Date	Agency	Contact	Phone	Response
02/04/2010	COGCC	John Axelson	(303) 637-7178	Verbal notification
02/04/2010	NRC	Dave Dedeaux	1-800-424-8802	NRC Spill # 930522
02/04/2010	CDPHE	Automated Machine	1-877-518-5608	Left Message
02/05/2010	CDPHE	Greg Stasinos	1-877-518-5608	CDPHE Spill # 2010-0058

Spill/Release Tracking No: _____