

State of Colorado  
Oil and Gas Conservation Commission

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



Document Number:

401831675

Date Received:

11/09/2018

SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Refer to COGCC Rule 906.b. for reporting requirements of spills or releases of E&P Waste or produced fluids. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

Spill report taken by:

Graber, Candice  
(Nikki)

Spill/Release Point ID:

458525

OPERATOR INFORMATION

Name of Operator: PDC ENERGY INC	Operator No: 69175	<b>Phone Numbers</b>
Address: 1775 SHERMAN STREET - STE 3000		Phone: (970) 506-9272
City: DENVER State: CO Zip: 80203		Mobile: (970) 373-6581
Contact Person: Zack Liesenfeld		Email: Zack.Liesenfeld@pdce.com

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401815465

Initial Report Date: 10/30/2018	Date of Discovery: 10/29/2018	Spill Type: Recent Spill
---------------------------------	-------------------------------	--------------------------

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SWNE SEC 6 TWP 3N RNG 65W MERIDIAN 6  
Latitude: 40.254510 Longitude: -104.705590  
Municipality (if within municipal boundaries): County: WELD

Reference Location:

Facility Type: OTHER  Facility/Location ID No 444255  
Spill/Release Point Name: Ludwig  No Existing Facility or Location ID No.  
Number: #3  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? 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): 0	Estimated Condensate Spill Volume(bbl): 0
Estimated Flow Back Fluid Spill Volume(bbl): 0	Estimated Produced Water Spill Volume(bbl): 0
Estimated Other E&P Waste Spill Volume(bbl): >=1 and <5	Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: Water Based Drill Cuttings

Land Use:

Current Land Use: NON-CROP LAND Other(Specify):  
Weather Condition: Sunny and Cool  
Surface 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):

PDC discovered a reportable quantity of water based drill cuttings outside secondary containment at the Ludwig #3 spread field due to offsite tracking. Equipment is on sight conducting recovery efforts.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

Date	Agency/Party	Contact	Phone	Response
10/30/2018	COGCC	Candice Graber	-	Via Email
10/30/2018	Weld County	Roy Rudisill	-	Via Email
10/30/2018	Land Owners	NA	-	Via Phone Call

Was there a Grade 1 Gas Leak associated with this E & P waste spill or release? Yes  No

If YES, enter the Document Number of the Initial Grade 1 Gas Leak Report Form 44: \_\_\_\_\_

Was there a reportable accident associated with this E & P waste spill or release? Yes  No

If YES, enter the Document Number of the Initial Accident Report, Form 22: \_\_\_\_\_

**SPILL/RELEASE DETAIL REPORTS**

#1 Supplemental Report Date: 11/08/2018

FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	<u>0</u>	<u>0</u>	<input type="checkbox"/>
CONDENSATE	<u>0</u>	<u>0</u>	<input type="checkbox"/>
PRODUCED WATER	<u>0</u>	<u>0</u>	<input type="checkbox"/>
DRILLING FLUID	<u>0</u>	<u>0</u>	<input type="checkbox"/>
FLOW BACK FLUID	<u>0</u>	<u>0</u>	<input type="checkbox"/>
OTHER E&P WASTE			<input checked="" type="checkbox"/>

specify: \_\_\_\_\_

Was spill/release completely contained within berms or secondary containment? NO Was an Emergency Pit constructed? NO

*Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.*

**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)  Soil  Groundwater  Surface Water  Dry Drainage Feature

Surface Area Impacted: Length of Impact (feet): 3170 Width of Impact (feet): 15

Depth of Impact (feet BGS): \_\_\_\_\_ Depth of Impact (inches BGS): \_\_\_\_\_

How was extent determined?

On October 29, 2018, a reportable quantity of water-based drill cuttings were discovered outside the the Ludwig #3 spreadfield due to off-site tracking. Following the discovery, the lease road was scraped and impacted material was removed and transported back to the spreadfield. The road was subsequently re-graded to match pre-existing conditions. On November 6, 2018, thirteen (13) soil samples (SS01 - SS13) were collected from the affected area. Each composite soil sample was composited using four discrete soil samples collected every 80 feet at approximately 3 inches below ground surface (bgs). In addition, two (2) background soil samples (BG01 and BG02) were collected from native soil outside the spreadfield at approximately 3 inches bgs. The soil samples were submitted to Summit Scientific Laboratories in Golden, Colorado for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by USEPA Method 8260B, TPH - diesel range organics (DRO) by USEPA 8015, pH, electrical conductivity (EC), and sodium adsorption ratio (SAR). Analytical results indicated that pH levels were above the applicable COGCC Table 910-1 standards in six (6) sample locations. The remaining ten (10) soil samples exhibited organic and inorganic concentrations below regulatory standards. A topographic map is attached as Figure 1. Soil analytical results are summarized in Table 1 and sample locations are illustrated on Figure 2. The laboratory report is included in Attachment A.



**COA Type****Description**

--	--

**Attachment Check List****Att Doc Num****Name**

401831675	SPILL/RELEASE REPORT(SUPPLEMENTAL)
401831964	TOPOGRAPHIC MAP
401831968	ANALYTICAL RESULTS
401832721	SITE MAP
401835124	FORM 19 SUBMITTED

Total Attach: 5 Files

**General Comments****User Group****Comment****Comment Date**

Environmental	For areas where road is not to be reclaimed, Operator may use pH of undisturbed road base as a background sample.	11/09/2018
---------------	---	------------

Total: 1 comment(s)