

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:

401259764

Date Received:

04/14/2017

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

449422

## 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.

### 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# 401221401

Initial Report Date: 02/28/2017 Date of Discovery: 02/16/2017 Spill Type: Recent Spill

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR SESW SEC 7 TWP 5N RNG 63W MERIDIAN 6

Latitude: 40.407980 Longitude: -104.476890

Municipality (if within municipal boundaries): County: WELD

#### Reference Location:

Facility Type: FLOWLINE ☒ Facility/Location ID No 330885  
☐ No Existing Facility or Location ID No.  
☐ 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): >=1 and <5

Estimated Other E&P Waste Spill Volume(bbl): 0 Estimated Drilling Fluid Spill Volume(bbl): 0

Specify:

#### Land Use:

Current Land Use: NON-CROP LAND Other(Specify):

Weather Condition: Sunny and warm

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 Energy discovered a reportable produced water release on the SLW Ranch 24, 34, 44-7 during flowline integrity testing. Upon discovery the facility was immediately shut in and vault bottomed out.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

| Date      | Agency/Party | Contact      | Phone | Response       |
|-----------|--------------|--------------|-------|----------------|
| 2/22/2017 | COGCC        | Rick Allison | -     | Via Email      |
| 3/1/2017  | Land owner   | NA           | -     | Via Phone Call |

**SPILL/RELEASE DETAIL REPORTS**

|                 |                                      |                 |                          |
|-----------------|--------------------------------------|-----------------|--------------------------|
| #1              | Supplemental Report Date: 04/14/2017 |                 |                          |
| <b>FLUIDS</b>   | BBL's SPILLED                        | BBL's RECOVERED | Unknown                  |
| OIL             | 0                                    | 0               | <input type="checkbox"/> |
| CONDENSATE      | 0                                    | 0               | <input type="checkbox"/> |
| PRODUCED WATER  | 1                                    | 0               | <input 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? 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): \_\_\_\_\_ Width of Impact (feet): \_\_\_\_\_

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

How was extent determined?

On February 16, 2017, approximately 1.5 barrels of produced water were released within secondary containment at the SLW Ranch 24, 34, 44-7 production facility. Upon discovery, the produced water vessel and associated produced line were shut in and spill response measures were completed. On April 7, 2017, a site investigation was conducted to determine the extent of potential hydrocarbon impacts related to the release. Five soil borings (SB01 - SB05) were advanced adjacent to the release point and in each cardinal direction using a hand auger. Grab soil samples were collected from the soil borings in 1 foot intervals and field screened for volatile organic compound (VOC) concentrations using a photoionization detector (PID). Soil samples were collected from the terminus of each soil boring at approximately 8 feet below ground surface (bgs). Samples were submitted to Summit Scientific Laboratories in Golden, Colorado for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, and total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by Environmental Protection Agency (EPA) Method 8260B, and TPH - diesel range organics (DRO) by EPA Method 8015. Analytical results indicated that constituent concentrations were below COGCC Table 910-1 standards in all five soil samples. Soil boring locations are illustrated on Figure 2 and soil analytical results are summarized in Table 1. The laboratory report is included as Attachment A. Based on the analytical data provided herein, PDC is requesting a No Further Action (NFA) determination for this release.

Soil/Geology Description:

Valent sand, 3 to 9 percent slopes

Depth to Groundwater (feet BGS) 27 Number Water Wells within 1/2 mile radius: 2

If less than 1 mile, distance in feet to nearest Water Well 3510 None ☐ Surface Water 4585 None ☐

Wetlands \_\_\_\_\_ None ☒Springs \_\_\_\_\_ None ☒Livestock \_\_\_\_\_ None ☒Occupied Building \_\_\_\_\_ None ☒

Additional Spill Details Not Provided Above:

**CORRECTIVE ACTIONS**

#1 Supplemental Report Date: 04/14/2017

Cause of Spill (Check all that apply) ☐ Human Error ☒ Equipment Failure ☐ Historical-Unknown☐ Other (specify) \_\_\_\_\_

Describe Incident &amp; Root Cause (include specific equipment and point of failure)

Failure identified during annual flowline integrity testing due to a damaged connection at the produced water vessel.

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

The damaged connection was replaced and routine integrity inspections will continue.

Volume of Soil Excavated (cubic yards): 0

Disposition of Excavated Soil (attach documentation) ☐ Offsite Disposal ☐ Onsite Treatment☐ Other (specify) \_\_\_\_\_

Volume of Impacted Ground Water Removed (bbls): 0

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: \_\_\_\_\_

**OPERATOR COMMENTS:**

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

Signed: \_\_\_\_\_ Print Name: Zack Liesenfeld

Title: EHS Professional Date: 04/14/2017 Email: zack.liesenfeld@pdce.com

**COA Type****Description**

Based on the information presented, it appears that no further action is necessary at this time and the COGCC approves the closure request. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if ground water is found to be impacted, then further investigation and/or remediation activities may be required. In addition, the surface area disturbed by the remediation activity shall be reclaimed in accordance with the 1000 Series Reclamation Rules.

**Attachment Check List**

| <u>Att Doc Num</u> | <u>Name</u>                        |
|--------------------|------------------------------------|
| 401259764          | SPILL/RELEASE REPORT(SUPPLEMENTAL) |
| 401259777          | TOPOGRAPHIC MAP                    |
| 401259778          | SITE MAP                           |
| 401259779          | ANALYTICAL RESULTS                 |
| 401260125          | FORM 19 SUBMITTED                  |

Total Attach: 5 Files

**General Comments**

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u>    |
|-------------------|----------------|------------------------|
|                   |                | Stamp Upon<br>Approval |

Total: 0 comment(s)