

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

402758975

Date Received:

07/26/2021

Spill report taken by:

Spill/Release Point ID:

480305

## 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 912.b. for reporting requirements of spills or releases of E&P Waste, produced Fluids, or unauthorized Releases of natural gas. Submit a Site Investigation and Remediation Workplan (Form 27) if Rule 913.c. applies.

### OPERATOR INFORMATION

|  |                           |  |
|--|---------------------------|--|
| Name of Operator: <u>PDC ENERGY INC</u>        | Operator No: <u>69175</u> | <b>Phone Numbers</b>                         |
| Address: <u>1775 SHERMAN STREET - STE 3000</u> |                           | Phone: <u>(303) 597-6847</u>                 |
| City: <u>DENVER</u>                            | State: <u>CO</u>          | Zip: <u>80203</u>                            |
| Contact Person: <u>Phillip Porter</u>          |                           | Mobile: <u>( )</u>                           |
|  |                           | Email: <u>COGCCSpillRemediation@pdce.com</u> |

☐ Transfer of Operatorship: Pursuant to Rule 912.f, this Supplemental Form 19 is being submitted to designate the Buying Operator as the responsible Operator for this Spill and Release.

### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 402750640

Initial Report Date: 07/17/2021 Date of Discovery: 07/16/2021 Spill Type: Historical Release

#### Spill/Release Point Location:

QTRQTR SESW SEC 14 TWP 4N RNG 66W MERIDIAN 6Latitude: 40.306347 Longitude: -104.747190Municipality (if within municipal boundaries): \_\_\_\_\_ County: WELD

Enter Lat./long measurement of the actual Spill/Release Point. Lat./Long. Data shall meet standards of Rule 216.

#### Reference Location:

Facility Type: WELL SITE☐ Facility/Location ID No \_\_\_\_\_Spill/Release Point Name: Dinner 14-B-1☒ Well API No. (Only if the reference facility is well) 05-123-17813☐ No Existing Facility or Location ID No.

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): UnknownEstimated Condensate Spill Volume(bbl): 0Estimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): UnknownEstimated Other E&P Waste Spill Volume(bbl): 0Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: \_\_\_\_\_

Has the subject Spill/Release been controlled at the time of reporting? Yes

#### Land Use:

Current Land Use: CROP LAND

Other(Specify): \_\_\_\_\_

Weather Condition: SunnySurface Owner: FEE

Other(Specify): \_\_\_\_\_

Describe what is known about the spill/release event (what happened -- including how it was stopped, contained, and recovered):

PDC discovered a reportable release at the Dinner 14-B-1 wellhead during decommissioning activities. Release clean-up and delineation activities are underway.

**List of Agencies and Other Parties Notified Pursuant to Rule 912.b.(7)-(11):**

**OTHER NOTIFICATIONS**

| <u>Date</u> | <u>Agency/Party</u> | <u>Contact</u> | <u>Phone</u> | <u>Response</u> |
|-------------|---------------------|----------------|--------------|-----------------|
| 7/16/2021   | COGCC               | Nikki Graber   | -            |                 |
| 7/16/2021   | Weld Co             | NA             | -            |                 |
| 7/16/2021   | Surface Owner       | Private        | -            |                 |

**REPORT CRITERIA**

**Rule 912.b.(1) Report to the Director (select all criteria that apply):**

- No Rule 912.b.(1).A: A Spill or Release of any size that impacts or threatens to impact any Waters of the State, Public Water System, residence or occupied structure, livestock, wildlife, or publicly-maintained road.
- Waters of the State: \_\_\_\_\_ Public Water System: \_\_\_\_\_
- Residence or Occupied Structure: \_\_\_\_\_ Livestock: \_\_\_\_\_
- Wildlife: \_\_\_\_\_ Publicly-Maintained Road: \_\_\_\_\_
- No Rule 912.b.(1).B: A Spill or Release in which 1 barrel or more of E&P Waste or produced fluids is spilled or released outside of berms or other secondary containment.
- No Rule 912.b.(1).C: A Spill or Release of 5 barrels or more of E&P Waste or produced Fluids regardless of whether the Spill or Release is completely contained within berms or other secondary containment.
- No Rule 912.b.(1).D: Within 6 hours of discovery, a Grade 1 Gas Leak. For a Grade 1 Gas Leak from a Flowline, the Operator also must submit the Form 19 – Initial, document number on a Form 44, Flowline Report, for the Grade 1 Gas Leak
- Enter the approximate time of discovery \_\_\_\_\_ (HH:MM)
- Enter the Document Number of the Grade 1 Gas Leak Report, Form 44 \_\_\_\_\_
- Was there a reportable accident associated with either a Grade 1 Gas Leak or an E&P waste spill or release? \_\_\_\_\_
- Enter the Document Number of the Initial Accident Report, Form 22 \_\_\_\_\_
- Was there damage during excavation? \_\_\_\_\_
- Was CO 811 notified prior to excavation? \_\_\_\_\_
- Yes Rule 912.b.(1).E: The discovery of 10 cubic yards or more of impacted material resulting from a current or historic Spill or Release. Discovery and reporting will not be contingent upon confirmation samples demonstrating exceedance of Table 915-1 standards.
- Estimated Volume of Impacted Solids (cu. yd.): \_\_\_\_\_ 10
- No Rule 912.b.(1).F: The discovery of impacted Waters of the State, including Groundwater. Discovery and reporting will not be contingent upon confirmation samples demonstrating exceedance of Table 915-1 standards. The presence of free product or hydrocarbon sheen on Groundwater or surface water is reportable. The presence of contaminated soil in contact with Groundwater or surface water is reportable. Check all that apply:
- ☐ The presence of free product or hydrocarbon sheen Surface Water
- ☐ The presence of free product or hydrocarbon sheen on Groundwater
- ☐ The presence of contaminated soil in contact with Groundwater
- ☐ The presence of contaminated soil in contact with Surface water

|     |  |
|-----|--|
| Yes | Rule 912.b.(1).G: A suspected or actual Spill or Release of any volume where the volume cannot be immediately determined, including a spill or release of any volume that daylights from the subsurface.                                     |
| No  | Rule 912.b.(1).H: Spill or Release resulting in vaporized hydrocarbon mists that leave the Oil and Gas Location or Off-Location Flowline right of way from an Oil and Gas Location and impacts or threatens to impact off-location property. |
|     | <input type="checkbox"/> Areas offsite of Oil & Gas Location <input type="checkbox"/> Off-Location Flowline right of way   |
| No  | Rule 912.b.(1).I: A Release of natural gas that results in an accumulation of soil gas or gas seeps.   |
| No  | Rule 912.b.(1).J: A Release that results in natural gas in Groundwater.  |

## SPILL/RELEASE DETAIL REPORTS

|  |   |  |                                     |
|--|---|--|-------------------------------------|
| #1   | Supplemental Report Date: 07/26/2021                |  |                                     |
| <b>FLUIDS</b>  | BBL's SPILLED                                       | BBL's RECOVERED  | Unknown                             |
| OIL  |   |  | <input checked="" type="checkbox"/> |
| CONDENSATE   | 0   | 0  | <input type="checkbox"/>            |
| PRODUCED WATER   |   |  | <input checked="" 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? <u>NO</u> Was an Emergency Pit constructed? <u>NO</u>  |   |  |                                     |
| <i>Secondary containment, <b>including walls &amp; floor regardless of construction material</b>, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>  |   |  |                                     |
| <b>A Form 15 Pit Report shall be submitted within 30 calendar days after the construction of an emergency pit</b>  |   |  |                                     |
| Impacted Media (Check all that apply) <input checked="" type="checkbox"/> Soil <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature  |   |  |                                     |
| Surface Area Impacted: Length of Impact (feet): <u>29</u>  |   | Width of Impact (feet): <u>29</u>                          |                                     |
| Depth of Impact (feet BGS): <u>20</u>  |   | Depth of Impact (inches BGS): _____                        |                                     |
| How was extent determined?   |   |  |                                     |
| <p>On July 16, 2021, historic hydrocarbon impacts were discovered during decommissioning activities at the Dinner 14 B-1 wellhead and the associated flowline. Following the discovery, excavation activities were initiated, and one soil sample (SS01) was collected from the impacted source material and submitted for laboratory analysis of the full COGCC Table 915-1 analytical suite. In addition, one background soil sample (BKG01) was collected from native material topographically upgradient of the wellhead and submitted for analysis of the Table 915-1 Metals. Analytical results indicated that organic compound concentrations were above COGCC Table 915-1 standards in sample SS01. To date, approximately 439.5 cubic yards of impacted material were removed and transported to the North Weld Landfill for disposal under PDC waste manifests. During excavation activities, groundwater was encountered at approximately 11 feet below ground surface (bgs). On July 19, 2021, one groundwater sample (GW01) was collected from the excavation and submitted for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-TMB. Analytical results indicated that select organic compound concentrations were in exceedance of the applicable Table 915-1 groundwater standards. One confirmation soil sample (SS02) was collected from the base of the excavation at approximately 20 feet bgs and submitted for preliminary laboratory analysis of BTEX, naphthalene, 1,2,4-TMB, 1,3,5-TMB, and TPH (C6-C36). Analytical results indicated that organic constituent concentrations were in compliance with the applicable Table 915-1 soil standards. Excavation and site assessment activities are ongoing at this time.</p> |   |  |                                     |
| Soil/Geology Description:  |   |  |                                     |
| Julesburg sandy loam, 0 to 1 percent slopes  |   |  |                                     |
| Depth to Groundwater (feet BGS) <u>11</u>  |   | Number Water Wells within 1/2 mile radius: <u>29</u>       |                                     |
| If less than 1 mile, distance in feet to nearest   | Water Well <u>905</u> None <input type="checkbox"/> | Surface Water <u>278</u> None <input type="checkbox"/>     |                                     |
|  | Wetlands <u>278</u> None <input type="checkbox"/>   | Springs _____ None <input checked="" type="checkbox"/>     |                                     |
|  | Livestock <u>1180</u> None <input type="checkbox"/> | Occupied Building <u>260</u> None <input type="checkbox"/> |                                     |
| Additional Spill Details Not Provided Above:   |   |  |                                     |

Preliminary soil analytical results are summarized in Tables 1-4. Groundwater analytical results are summarized in Table 5. GPS coordinates and field screened VOC concentrations for the soil samples collected during excavation activities are summarized in Table 6. Excavation confirmation sampling activities and final analytical results will be summarized in a forthcoming Supplemental Form 27. A topographic map is attached as Figure 1. The current excavation extent and sample locations are illustrated on Figure 2. Draft laboratory reports are included in Attachment A and the excavation field notes and photo logs are included in Attachment B.

## CORRECTIVE ACTIONS

|   |                           |            |
|---|---------------------------|------------|
| #1  | Supplemental Report Date: | 07/26/2021 |
| Root Cause of Spill/Release <u>Unknown (Historical)</u>   |                           |            |
| Other (specify) _____   |                           |            |
| Type of Equipment at Point of Spill/Release: <u>Wellhead Line</u>   |                           |            |
| If "Other" selected above, specify or describe here:<br><div style="border: 1px solid black; height: 30px; width: 100%;"></div>   |                           |            |
| Describe Incident & Root Cause (include specific equipment and point of failure)  |                           |            |
| <div style="border: 1px solid black; padding: 5px;">On July 16, 2021, a historic release was discovered adjacent to the former wellhead during wellhead decommissioning activities. Due to the historic nature of the release, a root cause was not identified.</div> |                           |            |
| Describe measures taken to prevent the problem(s) from reoccurring:   |                           |            |
| <div style="border: 1px solid black; padding: 5px;">The wellhead and associated flowline will be removed and will not be replaced.</div>  |                           |            |
| Volume of Soil Excavated (cubic yards): <u>439</u>  |                           |            |
| Disposition of Excavated Soil (attach documentation) <input checked="" type="checkbox"/> Offsite Disposal <input type="checkbox"/> Onsite Treatment   |                           |            |
| <input type="checkbox"/> Other (specify) _____  |                           |            |
| Volume of Impacted Ground Water Removed (bbls): <u>155</u>  |                           |            |
| Volume of Impacted Surface Water Removed (bbls): <u>0</u>   |                           |            |

## 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, check all that apply)
    - ☐ Horizontal and Vertical extents of impacts have been delineated.
    - ☐ Documentation of compliance with Table 915-1 is attached.
    - ☐ All E&P Waste has been properly treated or disposed.
  - ☒ Work proceeding under an approved Form 27 (Rule 912.c).  
Form 27 Remediation Project No: 18114
  - ☐ SUSPECTED Spill/Release did not occur or was below Rule 912.a.(5) reporting thresholds.

## OPERATOR COMMENTS:

Based on analytical results for the waste characterization sample SS01, PDC is requesting that the COC's for this release location be reduced to the following: BTEX, naphthalene, TPH (C6-36), 1,2,4-TMB, 1,3,5-TMB, fluorene, pyrene, 1-Methylnaphthalene (M), and 2-M.

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

Signed: \_\_\_\_\_ Print Name: Phillip Porter  
Title: Snr. Env. Rep. Date: 07/26/2021 Email: COGCCSpillRemediation@pdce.com

| <u>COA Type</u> | <u>Description</u> |
|-----------------|--------------------|
|                 |                    |

### Attachment List

| <u>Att Doc Num</u> | <u>Name</u>              |
|--------------------|--------------------------|
| 402758976          | PHOTO DOCUMENTATION      |
| 402758977          | ANALYTICAL RESULTS       |
| 402758978          | TOPOGRAPHIC MAP          |
| 402758979          | SOIL SAMPLE LOCATION MAP |

Total Attach: 4 Files

### General Comments

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

Total: 0 comment(s)