

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

403315534

Date Received:

03/30/2023

Spill report taken by:

Anderson, Laurel

Spill/Release Point ID:

483536

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>NOBLE ENERGY INC</u> | Operator No: <u>100322</u> | Phone Numbers |
| Address: <u>2001 16TH STREET SUITE 900</u> | | Phone: <u>(715) 562-0251</u> |
| City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u> | | Mobile: <u>()</u> |
| Contact Person: <u>Dan Peterson</u> | | Email: <u>rbueuf27@chevron.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# 403271296

Initial Report Date: 12/26/2022 Date of Discovery: 12/25/2022 Spill Type: Recent Spill

Spill/Release Point Location:

QTRQTR SESE SEC 19 TWP 9N RNG 58W MERIDIAN 6

Latitude: 40.731380 Longitude: -103.899310

Municipality (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: OIL AND GAS LOCATION Facility/Location ID No 447247

Spill/Release Point Name: LD19-16 Well API No. (Only if the reference facility is well) 05- -

No Existing Facility or Location ID No.

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

Estimated Oil Spill Volume(bbl): >=5 and <100 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): 0 Estimated 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: NON-CROP LAND Other(Specify): _____

Weather Condition: 20 degrees, overcast

Surface Owner: FEE Other(Specify): _____

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

Yesterday at 1pm a valve going to the maintenance line from the heater treater froze and split, causing 5.1 bbl. oil to release to the ground. Cleanup has commenced.

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

OTHER NOTIFICATIONS

| Date | Agency/Party | Contact | Phone | Response |
|------------|--------------|-----------------|-------|----------|
| 12/26/2022 | Noble Land | Landowner | - | |
| 12/26/2022 | Weld County | Jason Maxey | - | |
| 12/26/2022 | COGCC | Kyle Waggoner | - | |
| 12/26/2022 | COGCC | Laurel Anderson | - | |

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.

Yes 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.): 355

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

No 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 daylight 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.

Areas offsite of Oil & Gas Location 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: 03/30/2023

| FLUIDS | BBL's SPILLED | BBL's RECOVERED | Unknown |
|-----------------|-------------------|-------------------|-------------------------------------|
| OIL | <u>5</u> | <u>5</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> </u> | <u> </u> | <input checked="" type="checkbox"/> |
| FLOW BACK FLUID | <u> </u> | <u> </u> | <input checked="" type="checkbox"/> |
| OTHER E&P WASTE | <u> </u> | <u> </u> | <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): 50 Width of Impact (feet): 50

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

How was extent determined?

Visual inspection of site surface

Soil/Geology Description:

SC - clayey sands

Depth to Groundwater (feet BGS) 90 Number Water Wells within 1/2 mile radius: 1

If less than 1 mile, distance in feet to nearest

| | | | | | | | |
|------------|-------------------|------|-------------------------------------|-------------------|-------------------|------|-------------------------------------|
| Water Well | <u>1094</u> | None | <input type="checkbox"/> | Surface Water | <u>1426</u> | None | <input type="checkbox"/> |
| Wetlands | <u> </u> | None | <input checked="" type="checkbox"/> | Springs | <u> </u> | None | <input checked="" type="checkbox"/> |
| Livestock | <u> </u> | None | <input checked="" type="checkbox"/> | Occupied Building | <u> </u> | None | <input checked="" type="checkbox"/> |

Additional Spill Details Not Provided Above:

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 03/30/2023

Root Cause of Spill/Release Pipe, Weld, or Joint Failure

Other (specify) _____

Type of Equipment at Point of Spill/Release: Other

If "Other" selected above, specify or describe here:

Valve

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

A valve going to the maintenance line from the heater treater froze and split, causing 5.1 bbl. oil to release to the ground

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

Damaged valve was replaced, and location will be regularly monitored via AVO site inspections.

Volume of Soil Excavated (cubic yards): 355

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, 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: _____

SUSPECTED Spill/Release did not occur or was below Rule 912.a.(5) reporting thresholds.

OPERATOR COMMENTS:

An excavation was initiated in the area of the spill to remove soil impacted with organic compounds above COGCC Table 915-1 Residential Soil Screening Levels (RSSLs). A total of four sampling events (2/3/2023, 2/17/2023, 3/1/2023, and 3/3/2023) were conducted to guide the removal of soils impacted with compounds above COGCC Table 915-1 RSSLs. A total of 355 cubic yards of impacted soil was removed from the spill area and transported off-site for disposal. A total of 62 confirmatory soil samples were collected from the perimeters and bases of the excavation extents, and submitted for laboratory analysis of COGCC Table 915-1 Organic Compounds in Soil, TPH, COGCC Table 915-1 Metals in Soil, pH, EC, SAR, and Boron. All confirmatory sampling results collected from the final excavation extents are compliant with COGCC Table 915-1 RSSL standards, with the exception of arsenic. To determine if arsenic was a contaminant of concern, 10 background soil samples were collected from 5 discrete locations from native soil to the north and upgradient from the site. The average concentration of arsenic in background soil samples collected from depths that correlate with confirmatory soil samples was calculated to be 6.97 mg/kg, whereas the average concentration of arsenic in the confirmatory samples was calculated to be 3.80 mg/kg. Additionally, the median concentration for arsenic in background samples was calculated to be 6.99 mg/kg, whereas the median concentration for arsenic in confirmatory samples was calculated to be 3.10 mg/kg. Since the average and median concentrations for arsenic are higher in

background soil samples than confirmatory soil samples, arsenic is not a contaminant of concern at the site.

A desktop review of Colorado's Division of Water Resources (DWR) Well Permit Research Mapper was performed to determine the depth to water below ground surface (BGS) in permitted water wells within a 0.5-mile radius of the spill location. Refer to Figure 4 on the attached document for a visual representation of the results of this inquiry. One permitted water well (permit ID 98770) was identified within the 0.5-mile radius, and is 1,094-ft to the east-southeast of the site and is at roughly the same ground surface elevation as the site. According to the permit records, the static groundwater level in this well is 90-ft BGS. Since groundwater is recorded to be 90-ft BGS in the region of the site, and since soil impacts at the site are limited to less than 3-ft BGS, there is no pathway for contaminant migration to the groundwater table. As such, Noble proposes to utilize COGCC Table 915-1 RSSL standards when reviewing confirmatory soil sample results at the site. Since all confirmatory soil sampling results are compliant with COGCC Table 915-1 RSSLs standards, and since arsenic is not a contaminant of concern based on the above-provided comparative analysis of arsenic concentrations in background soil samples, Noble is requesting a No Further Action (NFA) designation for the site, and is requesting to close this spill number.

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

Signed: _____ Print Name: Allan Engelhardt
 Title: Environmental Consultant Date: 03/30/2023 Email: chevroneform@tasman-geo.com

| <u>COA Type</u> | <u>Description</u> |
|-----------------|--------------------|
| 0 COA | |

Attachment List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-------------------|
| 403315534 | FORM 19 SUBMITTED |
| 403360599 | OTHER |

Total Attach: 2 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|---|---------------------|
| Environmental | COGCC approves Operator's request for use of Residential SSLs based on the depth to groundwater and the local lithology suggesting a pathway to groundwater at this location is not likely. | 04/24/2023 |
| Environmental | Per document #403263783, Operator shall provide all waste manifests as required by Rule 905.b.(3) for oily waste hauled off site for disposal. | 04/24/2023 |

Total: 2 comment(s)