

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:

403426452

Date Received:

06/07/2023

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

483838

**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>	<b>Phone Numbers</b>
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# 403312311

Initial Report Date: 02/04/2023 Date of Discovery: 02/03/2023 Spill Type: Recent Spill

**Spill/Release Point Location:**

QTRQTR NESW SEC 12 TWP 5N RNG 64W MERIDIAN 6

Latitude: 40.411457 Longitude: -104.502513

Municipality (if within municipal boundaries): No 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: TANK BATTERY  Facility/Location ID No 431199

Spill/Release Point Name: SLW Ranch  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): 0 Estimated Condensate Spill Volume(bbl): 0

Estimated Flow Back Fluid Spill Volume(bbl): 0 Estimated Produced Water Spill Volume(bbl): >=5 and <100

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: 40's and clear skies

Surface Owner: FEE Other(Specify): \_\_\_\_\_

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

During a routine site walk at the SLW Ranch B12-65-1HN Tank Battery a field specialist found that a 2" screw style Balon valve had frozen causing a release of approximately 5 barrels of produced water. The 2" line the valve was on was immediately shut in and clean-up response was initiated.

**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>
2/4/2023	CPW	Brandon Marette	-	
2/4/2023	COGCC	Rick Allison	-	
2/4/2023	Weld County	Jason Maxey David Burns	-	
2/4/2023	Noble Land	Landowner	-	

**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? \_\_\_\_\_

No 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.): \_\_\_\_\_

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:  <input type="checkbox"/> The presence of free product or hydrocarbon sheen Surface Water <input type="checkbox"/> The presence of free product or hydrocarbon sheen on Groundwater <input type="checkbox"/> The presence of contaminated soil in contact with Groundwater <input type="checkbox"/> 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.  <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.

### CORRECTIVE ACTIONS

#1	Supplemental Report Date: <u>06/07/2023</u>
Root Cause of Spill/Release	<u>Natural Force Damage</u> Other (specify) _____
Type of Equipment at Point of Spill/Release:	<u>Other</u>
If "Other" selected above, specify or describe here:	
<u>2" Balon Valve</u>	
Describe Incident & Root Cause (include specific equipment and point of failure)	
<u>2-inch balon valve froze causing it to push out and release fluid.</u>	
Describe measures taken to prevent the problem(s) from reoccurring:	
<u>Screw style balon valves being replaced to be less susceptible to freezing.</u>	
Volume of Soil Excavated (cubic yards):	<u>7</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):	_____
Volume of Impacted Surface Water Removed (bbls):	_____

## 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 six sampling events (2/6/2023, 2/7/2023, 2/9/2023, 3/20/2023, 3/29/2023 and 4/11/2023) were conducted to guide the removal of soils impacted with compounds above COGCC Table 915-1 RSSLs. A total of 7 cubic yards of impacted soil was removed from the spill area and transported off-site for disposal. A total of 14 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 1.83 mg/kg with a 1.25 multiplier applied, whereas the average concentration of arsenic in the confirmatory samples was calculated to be 2.36 mg/kg. It should be noted that the lithology of the background sampling area consisted generally of fine sands, whereas the lithology on the tank battery pad consisted of road-base gravels. This difference in lithology is the most likely cause for the difference in arsenic concentrations between the background sampling area and the tank battery pad. While the average concentrations for arsenic are higher in confirmatory soil samples than background soil samples, the background concentrations for arsenic still exceed COGCC Table 915-1 RSSL standards and should not be 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. Ten permitted water wells were identified within the 0.5-mile radius, and are at roughly the same ground surface elevation as the site. According to the permit records, the average static groundwater level within this radius is 22-ft BGS. Since groundwater is recorded to be 22-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 RSSL 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: 06/07/2023 Email: chevroneform@tasman-geo.com

COA Type	Description
1 COA	Closure request removed. Operator shall address the following: 1. Several pages in the attachments are blank. Operator shall resubmit attachments and break attachments into separate files (tables, laboratory reports, figures, photos). 2. Operator shall provide additional justification for removing arsenic as a contaminant of concern. Operator has stated that arsenic concentrations in confirmation samples are greater than 1.25xbackground concentrations and provided insufficient justification for removing arsenic as a contaminant of concern. 3. Site is an active facility. Operator should collect a produced water sample for analysis of total recoverable metals for metals listed in Table 915-1 to aid in determining contaminants of concern.

## Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403426452	SPILL/RELEASE REPORT(SUPPLEMENTAL)
403426485	OTHER
403434063	FORM 19 SUBMITTED

Total Attach: 3 Files

## General Comments

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

Total: 0 comment(s)