

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:

402143100

Date Received:

08/16/2019

Spill report taken by:

Arauzo, Steven

Spill/Release Point ID:

466240

### 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: <u>VANGUARD OPERATING LLC</u>	Operator No: <u>10531</u>	<b>Phone Numbers</b>
Address: <u>5847 SAN FELIPE #3000</u>		Phone: <u>(970) 876-1959</u>
City: <u>HOUSTON</u> State: <u>TX</u> Zip: <u>77057</u>		Mobile: <u>(970) 744-8128</u>
Contact Person: <u>Scott Ghan</u>		Email: <u>sghan@grizzlyenergyllc.com</u>

#### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 402118254

Initial Report Date: 07/23/2019 Date of Discovery: 07/22/2019 Spill Type: Recent Spill

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR SWSW SEC 29 TWP 6S RNG 91W MERIDIAN 6

Latitude: 39.492469 Longitude: -107.585501

Municipality (if within municipal boundaries): \_\_\_\_\_ County: GARFIELD

#### Reference Location:

Facility Type: TANK BATTERY  Facility/Location ID No 323972

Spill/Release Point Name: Gibson Gulch Unit-66S91W/29SWSW  No Existing Facility or Location ID No.

Number: 323972  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? No

*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? Yes

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

Estimated Oil Spill Volume(bbl): 0 Estimated Condensate Spill Volume(bbl): Unknown

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: \_\_\_\_\_

#### Land Use:

Current Land Use: OTHER Other(Specify): agricultural

Weather Condition: sunny and 80 degrees

Surface Owner: FEE Other(Specify): Miller Land and Cattle

#### 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):

Vanguard Operating personnel identified a condensate release within the production tank secondary containment at Vanguard's Gibson Gulch Unit-66S91W/29SWSW location at approximately 0935 on 7/22/2019. The release occurred due to a production tank overflow and condensate was released from the thief hatch and PRV. All of the released condensate remained inside the earthen berm secondary containment. Production operations have been shut-in and the tank has been evacuated of all fluids. The tank is scheduled to be removed today and excavation activities are to begin on Wednesday. A third-party consultant will be on location during the excavation activities and will be screening soils and collecting confirmation samples as necessary.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

Date	Agency/Party	Contact	Phone	Response
7/22/2019	GarCo	Kirby Wynn	-	acknowledged email notification
7/22/2019	COGCC	Steven Arauza	-	acknowledged email notification
7/22/2019	landowner	Marty Miller	-	notified via phone conversation

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: 08/13/2019

FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	<u>0</u>	<u>0</u>	<input type="checkbox"/>
CONDENSATE	<u>8</u>	<u>8</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	<u>0</u>	<u>0</u>	<input type="checkbox"/>

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

Was spill/release completely contained within berms or secondary containment? YES 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): 24 Width of Impact (feet): 17

Depth of Impact (feet BGS): 26 Depth of Impact (inches BGS): \_\_\_\_\_

How was extent determined?

Confirmation soil samples were collected from the base and sidewalls of the excavation and submitted for laboratory analysis of constituents identified in COGCC Table 910-1. Based on laboratory analytical results, additional assessment is warranted and a plan will be detailed in a Form 27. Approximately 440 cubic yards of impacted soil were transported to Greenleaf Environmental Services in De Beque, Colorado for offsite disposal. Waste disposal manifests are attached. The excavation area and soil sample locations are depicted on the attached Figure 2. Laboratory analytical reports are attached and summarized in Table 1.

Soil/Geology Description:

Olney loam, 6 to 12 percent slopes.

Depth to Groundwater (feet BGS) 26 Number Water Wells within 1/2 mile radius: 2

If less than 1 mile, distance in feet to nearest

Water Well	<u>1661</u>	None	<input type="checkbox"/>	Surface Water	<u>2038</u>	None	<input type="checkbox"/>
Wetlands		None	<input checked="" type="checkbox"/>	Springs		None	<input checked="" type="checkbox"/>
Livestock	<u>60</u>	None	<input type="checkbox"/>	Occupied Building	<u>1695</u>	None	<input type="checkbox"/>

Additional Spill Details Not Provided Above:

Based on the vertical extent of the soil impacts within the excavation and field observations, not all of the excavated soil is associated with the recent 8 barrel release and is likely associated with historical operations. During excavation activities, water was encountered at approximately 26 feet below ground surface. Vanguard mixed 400 lbs. of chemically oxidized granular activated carbon into the excavation at the water level prior to backfilling to remediate any potential dissolved phase hydrocarbons associated with this release. The excavation will be backfilled to create access for equipment needed to continue assessment activities.

### CORRECTIVE ACTIONS

#1 Supplemental Report Date: 08/13/2019

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

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

The well on this location had been shut-in and production staff returned the well to production on 7/21/19 at approximately 1200. Tank gauging indicated approximately 10.5' (210 bbls) of available capacity in the production tank. This well is a low producing well and typically does not produce large volumes of fluids. Production staff monitored the well until approximately 1515 before leaving the location for the day. Telemetry indicated that well shut down at 0023 on 7/22/19 due to a low gas flow condition.

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

As part of our internal review of this incident, it was identified that production staff monitoring the well should have gauged the production tank again before leaving the location. This second gauging event would have provided a fluid production rate for a three hour period. After establishing the fluid production rate, production staff could have again assessed the available storage capacity in the production tank and made a decision on whether to shut-in the well overnight or schedule a water haul from the tank at some point in the evening hours. This incident and the root cause and preventive measures will be discussed with operational staff.

Volume of Soil Excavated (cubic yards): 440

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:

Please route to Steven Arauza.

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

Signed: \_\_\_\_\_ Print Name: Scott Ghan  
 Title: Senior EHS Specialist Date: 08/16/2019 Email: sghan@grizzlyenergyllc.com

**COA Type****Description**

	Laboratory analytical report for Sample ID W. Floor @ 10' collected 7/25/2019 indicates a calculated concentration for trivalent chromium of 7,200,000 mg/kg. Analytical summary table for the same sample reports 7.2 mg/kg. Operator shall address this discrepancy via a Supplemental eForm 19.
	Operator's eForm 27 Site Investigation and Remediation Workplan shall address documented Table 910-1 exceedances for arsenic.
	Operator's report indicates that groundwater was encountered in excavation and that soil was amended with activated carbon to address potential groundwater impacts. Operator's Initial eForm 27 shall include collection of groundwater sample(s) and analysis for the complete Table 910-1 suite, per Rule 910.b.(4).
	Submit an eForm 19 Initial w/ Supplemental to report historical impacts associated with tank battery.

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

402143100	SPILL/RELEASE REPORT(SUPPLEMENTAL)
402143124	TOPOGRAPHIC MAP
402143127	SITE MAP
402143135	ANALYTICAL RESULTS
402144099	ANALYTICAL RESULTS
402144100	ANALYTICAL RESULTS
402147492	DISPOSAL MANIFEST
402153699	FORM 19 SUBMITTED

Total Attach: 8 Files

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

		Stamp Upon Approval
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Total: 0 comment(s)