

State of Colorado Oil and Gas Conservation Commission

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Document Number:

401732108

Date Received:

08/17/2018

Spill report taken by:

GINTAUTAS, PETER

Spill/Release Point ID:

456515

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: KERR MCGEE OIL & GAS ONSHORE LP

Operator No: 47120

Address: P O BOX 173779

City: DENVER

State: CO

Zip: 80217-3779

Contact Person: Greg Hamilton

Phone Numbers

Phone: (970) 515-1698

Mobile: ()

Email: gregory.hamilton@ana-darko.com

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401726857

Initial Report Date: 08/07/2018

Date of Discovery: 08/07/2018

Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR NENE SEC 5 TWP 3N RNG 67W MERIDIAN 6

Latitude: 40.262042 Longitude: -104.905178

Municipality (if within municipal boundaries): County: WELD

Reference Location:

Facility Type: TANK BATTERY

☐ Facility/Location ID No

Spill/Release Point Name:

☒ No Existing Facility or Location ID No.

Number:

☐ 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): >=1 and <5

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: CROP LAND

Other(Specify):

Weather Condition: Upper 90's, sunny

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):

While rebuilding the WCR Properties 41-5/Spaur 1-5 tank battery, soil and groundwater with historical petroleum hydrocarbon impacts were discovered. The volume of the release is unknown. Groundwater was encountered at approximately 12 feet below ground surface. On August 6, 2018, a groundwater sample was collected from the excavation and submitted to Origins Laboratory for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8260C. Laboratory analytical results received August 7, 2018 indicated that the benzene concentration in groundwater sample GW01 exceeded the COGCC Table 910-1 allowable level for benzene at a concentration of 2,010 ug/L. Soil excavation activities are ongoing and will be summarized in a supplemental report. The topographic site location map showing the geographic location of the release is provided as Figure 1.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
8/7/2018	Weld County	Roy Rudisill	----email	
8/7/2018	Weld County	Tom Parko	----email	
8/7/2018	Landowner	Landowner	----email	

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: 08/13/2018		
FLUIDS	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? 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): 45 Width of Impact (feet): 29

Depth of Impact (feet BGS): 12 Depth of Impact (inches BGS): _____

How was extent determined?

While rebuilding the WCR Properties 41-5/Spaur 1-5 tank battery, soil and groundwater with historical petroleum hydrocarbon impacts were discovered. The volume of the release is unknown. Groundwater was encountered at approximately 12 feet below ground surface. On August 6, 2018, a groundwater sample was collected from the excavation and submitted to Origins Laboratory for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8260C. Laboratory analytical results received August 7, 2018, indicated that the benzene concentration in groundwater sample GW01 exceeded the COGCC Table 910-1 allowable level for benzene at a concentration of 2,010 ug/L. On August 7, 2018, after additional soil excavation activities, a second groundwater sample GW02 was collected from the excavation and submitted for laboratory analysis of BTEX by USEPA Method 8260C. The results indicated that the benzene concentration in groundwater sample GW02 exceeded COGCC Table 910-1 allowable level for benzene at a concentration of 5.52 ug/L. Confirmation soil samples were collected from the final extent of the excavation and analyzed for BTEX, and total petroleum hydrocarbons- gasoline range organics (TPH-GRO) by USEPA Method 8260C and TPH-diesel range organics (TPH-DRO) and TPH-residual range organics (TPH-RRO) by USEPA Method 8015C. The laboratory analytical results for the soil samples collected at the final extent of the excavation were in full compliance with State standards. Soil excavation activities were completed on August 9, 2018, and 200 pounds of Chemically Oxygenated Granular Activated Carbon (COGAC) was applied to the excavation prior to backfilling the excavation.

Soil/Geology Description:

The site geology is sandy loam.

Depth to Groundwater (feet BGS) 12

Number Water Wells within 1/2 mile radius: 1

If less than 1 mile, distance in feet to nearest	Water Well	<u>1928</u>	None <input type="checkbox"/>	Surface Water	<u>1403</u>	None <input type="checkbox"/>
	Wetlands	<u></u>	None <input checked="" type="checkbox"/>	Springs	<u>4029</u>	None <input type="checkbox"/>
	Livestock	<u>2326</u>	None <input type="checkbox"/>	Occupied Building	<u>1418</u>	None <input type="checkbox"/>

Additional Spill Details Not Provided Above:

Approximately 580 cubic yards of soil were removed from the excavation. Approximately 460 cubic yards were disposed at the Erie Landfill in Erie, CO and 120 cubic yards were disposed at the Kerr-McGee Land Treatment Facility in Weld County, CO. Minimal groundwater was encountered in the excavation and therefore not removed. Prior to backfilling the excavation, 200 pounds of COGAC was applied to the base of the excavation. Soil and groundwater sample locations collected at the tank battery and analytical results are depicted on Figure 2. Laboratory results for the soil and groundwater samples collected are attached as Table 1 and 2, respectively.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 08/13/2018

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)

While rebuilding the WCR Properties 41-5/Spaur 1-5 tank battery, soil and groundwater with historical petroleum hydrocarbon impacts were discovered. The volume of the release is unknown. Groundwater was encountered at approximately 12 feet below ground surface. On August 6, 2018, a groundwater sample was collected from the excavation and sampled for BTEX by USEPA Method 8260C. Laboratory analytical results received August 7, 2018, indicated that the benzene concentration in groundwater sample GW01 exceeded the COGCC Table 910-1 allowable level for benzene at a concentration of 2,010 ug/L. Therefore, a release was reported to the COGCC on August 7, 2018.

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

The tank battery is being re-built with new equipment and liners were installed within the secondary containment beneath the tanks.

Volume of Soil Excavated (cubic yards): 580

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: Greg Hamilton

Title: Senior Staff HSE Rep Date: 08/17/2018 Email: gregory.hamilton@anadarko.com

COA Type

Description

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Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401732108	SPILL/RELEASE REPORT(SUPPLEMENTAL)
401732370	ANALYTICAL RESULTS
401732373	ANALYTICAL RESULTS
401732376	ANALYTICAL RESULTS
401732380	ANALYTICAL RESULTS
401732381	ANALYTICAL RESULTS
401732384	ANALYTICAL RESULTS
401732387	ANALYTICAL RESULTS
401732388	ANALYTICAL RESULTS
401734502	SITE MAP
401734506	TOPOGRAPHIC MAP
401738115	FORM 19 SUBMITTED

Total Attach: 12 Files

General Comments

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

Total: 0 comment(s)