

State of Colorado Oil and Gas Conservation Commission

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Document Number:

400877072

Date Received:

07/31/2015

Spill report taken by:

Spill/Release Point ID:

SPILL/RELEASE REPORT (INITIAL /w SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. 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	Phone Numbers
Address: P O BOX 173779		Phone: (970) 335-3600
City: DENVER	State: CO	Mobile: (970) 515-1238
Zip: 80217-3779		Email: Sam.LaRue@anadarko.com
Contact Person: Sam LaRue		

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400877072

Initial Report Date: 07/30/2015 Date of Discovery: 07/28/2015 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SENW SEC 22 TWP 3N RNG 66W MERIDIAN 6

Latitude: 40.213796 Longitude: -104.766789

Municipality (if within municipal boundaries): County: WELD

Reference Location:

Facility Type: TANK BATTERY ☒ Facility/Location ID No 336310

☐ No Existing Facility or Location ID No.

☐ 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): 0

Estimated Condensate Spill Volume(bbl): Unknown

Estimated Flow Back Fluid Spill Volume(bbl): 0

Estimated Produced Water Spill Volume(bbl): Unknown

Estimated Other E&P Waste Spill Volume(bbl): 0

Estimated Drilling Fluid Spill Volume(bbl): 0

Specify:

Land Use:

Current Land Use: NON-CROP LAND Other(Specify):

Weather Condition: 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):

On July 27, 2015, hydrocarbon impacts were observed in surface soil at the Sarchet Unit-63N66W22SENW production facility. Excavation activities were initiated, and groundwater was encountered in the excavation area at approximately 6 feet below ground surface (bgs). A groundwater sample (GW01) was collected from the excavation and submitted to Origins Laboratory for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8260C. Analytical results received on July 28, 2015, indicated that benzene and total xylenes concentrations in groundwater sample GW01 were above the applicable COGCC Table 910-1 standards. The groundwater sample location is illustrated in Figure 2 and the groundwater laboratory analytical results are summarized in Table 2.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
7/28/2015	County	Roy Rudisill	--Email	
7/28/2015	County	Troy Swain	--Email	
7/28/2015	Private	Landowner	--Phone	

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 07/30/2015		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE			<input checked="" 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): 50 Width of Impact (feet): 43

Depth of Impact (feet BGS): 6 Depth of Impact (inches BGS): 0

How was extent determined?

On July 27, 2015, excavation activities were initiated following the discovery of surface staining at the Sarchet Unit-63N66W22SENW production facility. Excavation activities were guided in the field by using a photoionization detector (PID) to field screen soil for volatile organic compound (VOC) concentrations. Approximately 650 cubic yards of impacted material were excavated and transported to the Kerr-McGee Land Treatment Facility in Weld County, Colorado for disposal. Eight (8) soil samples were collected from the sidewalls of the final extent of the excavation area at approximately 5 feet below ground surface (bgs). Soil samples were submitted to Origins Laboratory for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by USEPA Method 8260C, TPH - diesel and oil range organics (DRO and ORO) by USEPA Method 8015, electrical conductivity (EC), and pH. Analytical results indicated that constituent concentrations in soil samples collected from the sidewalls of the final extent of the excavation area were below the applicable COGCC Table 910-1 standards. Groundwater was encountered in the excavation at approximately 6 feet bgs. A groundwater sample (GW01) was collected from the excavation and submitted to Origins Laboratory for analysis of BTEX using USEPA Method 8260C. Analytical results received on July 28, 2015, indicated that benzene and total xylenes concentrations were above the applicable COGCC Table 910-1 groundwater standards. Approximately 130 barrels of impacted groundwater were removed via vacuum truck and transported to a licensed injection facility for disposal. A second groundwater sample (GW02) was subsequently collected from the excavation area and submitted for laboratory analysis of BTEX. Analytical results indicated that the benzene concentration in groundwater sample GW02 remained in exceedance of regulatory standards.

Soil/Geology Description:

Depth to Groundwater (feet BGS) <u>6</u>		Number Water Wells within 1/2 mile radius: <u>13</u>			
If less than 1 mile, distance in feet to nearest	Water Well	<u>1260</u>	None <input type="checkbox"/>	Surface Water	<u>4180</u> None <input type="checkbox"/>
	Wetlands	<u></u>	None <input checked="" type="checkbox"/>	Springs	<u></u> None <input checked="" type="checkbox"/>
	Livestock	<u>1735</u>	None <input type="checkbox"/>	Occupied Building	<u>1800</u> None <input type="checkbox"/>

Prior to backfilling the excavation area, approximately 264 pounds of activated carbon were introduced to the groundwater table to mitigate remaining hydrocarbon impacts in the groundwater. Soil and groundwater analytical results are summarized in Table 1 and Table 2, respectively, and sample locations are illustrated in Figure 2.

#1 Supplemental Report Date: 07/30/2015

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

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

Volume of Soil Excavated (cubic yards): 650

Volume of Impacted Ground Water Removed (bbls): 130

Volume of Impacted Surface Water Removed (bbls): 0

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.

☐ Work proceeding under an approved Form 27

Form 27 Remediation Project No:

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

Signed: _____ Print Name: Sam LaRue

Title: Senior HSE Representative Date: 07/31/2015 Email: Sam.LaRue@anadarko.com

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400877093	TOPOGRAPHIC MAP
400877137	FORM 19 SUBMITTED
400877493	SITE MAP
400877619	ANALYTICAL RESULTS

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)