

State of Colorado Oil and Gas Conservation Commission

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Document Number:

400726653

Date Received:

11/10/2014

Spill report taken by:

CANFIELD, CHRIS

Spill/Release Point ID:

439681

SPILL/RELEASE REPORT (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) 336-3500
City: DENVER State: CO Zip: 80217-3779		Mobile: (970) 515-1161
Contact Person: Phil Hamlin		Email: phil.hamlin@anadarko.com

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400722328

Initial Report Date: 11/03/2014 Date of Discovery: 10/31/2014 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SWNE SEC 22 TWP 1N RNG 67W MERIDIAN 6

Latitude: 40.040113 Longitude: -104.872339

Municipality (if within municipal boundaries): County: WELD

Reference Location:

Facility Type: TANK BATTERY ☒ Facility/Location ID No 317879

☐ 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: OTHER Other(Specify):

Weather Condition: 60'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 October 30, 2014, a historical release was discovered while closing the produced water sump at the Albert Sack Unit 1 production facility. Approximately 240 cubic yards of impacted soil have been removed and transported to the Kerr-McGee land treatment facility in Weld County, Colorado for disposal. Groundwater was encountered in the excavation area at approximately 10 feet below ground surface (bgs). A groundwater sample (GW01) was collected and submitted to Origins Laboratory in Denver, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) using USEPA Method 8260B. Analytical results received on October 31, 2014, indicated benzene, toluene, and total xylenes were in exceedance of the applicable COGCC Table 910-1 groundwater standards, causing this release to be state reportable. Groundwater analytical results are summarized in the attached Table 1 and laboratory analytical report.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
10/31/2014	County	Roy Rudisill	--Email	
10/31/2014	County	Tom Parko	--Email	

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 11/10/2014		
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): 55 Width of Impact (feet): 40

Depth of Impact (feet BGS): 10 Depth of Impact (inches BGS): _____

How was extent determined?

A historical release was discovered during the abandonment of the produced water sump at the Albert Sack Unit 1 production facility. Approximately 500 cubic yards of impacted material were removed and transported to the Front Range Regional Landfill in Erie, Colorado. The lateral and vertical extents of the excavation were determined in the field using a photoionization detector (PID) to measure volatile organic compounds (VOCs) in soil. Six soil samples were collected from the sidewalls of the final extent of the excavation at approximately 8 feet below ground surface (bgs). Soil samples were submitted to Origins Laboratory in Denver, Colorado for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), and total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by USEPA Method 8260B, and TPH - diesel range organics (DRO) and oil range organics (ORO) by USEPA Method 8015. Analytical results indicated constituent concentrations were below the applicable COGCC Table 910-1 standards in the soil samples collected from the final excavation extent. Groundwater was encountered in the excavation area at approximately 10 feet bgs. On October 30, 2014, a groundwater sample (GW01) was collected from the excavation area and submitted for laboratory analysis of BTEX. Analytical results indicated BTEX concentrations in GW01 were in exceedance of applicable Table 910-1 standards. Approximately 80 barrels of impacted groundwater were subsequently removed using a vacuum truck and transported to a licensed injection facility for disposal. On November 5, 2014, a second groundwater sample (GW02) was collected and analytical results indicated constituent concentrations remained in exceedance of regulatory standards. Prior to backfilling, approximately 264 pounds of activated carbon were introduced to the excavation area. A subsequent Form 27 will be submitted outlining a proposed remedial strategy to address remaining dissolved aqueous phase hydrocarbon impacts.

Soil/Geology Description:

Silty sand and silty clay

Depth to Groundwater (feet BGS) <u>10</u>		Number Water Wells within 1/2 mile radius: <u>19</u>			
If less than 1 mile, distance in feet to nearest	Water Well	<u>1105</u>	None <input type="checkbox"/>	Surface Water	<u>932</u> None <input type="checkbox"/>
	Wetlands	<u></u>	None <input checked="" type="checkbox"/>	Springs	<u></u> None <input checked="" type="checkbox"/>
	Livestock	<u>1280</u>	None <input type="checkbox"/>	Occupied Building	<u>1415</u> None <input type="checkbox"/>

CORRECTIVE ACTIONS

#1	Supplemental Report Date:	11/10/2014
Cause of Spill (Check all that apply)		
<input type="checkbox"/> Human Error	<input type="checkbox"/> Equipment Failure	<input checked="" type="checkbox"/> Historical-Unknown
<input type="checkbox"/> Other (specify) _____		
Describe Incident & Root Cause (include specific equipment and point of failure)		
<div style="border: 1px solid black; padding: 5px;"> A historical release was discovered during the abandonment of a produced water sump. The release volume is unknown. </div>		
Describe measures taken to prevent the problem(s) from reoccurring:		
<div style="border: 1px solid black; padding: 5px;"> The tank battery will be rebuilt with a geosynthetic liner, poly drain line, and a double walled fiberglass produced water tank. </div>		
Volume of Soil Excavated (cubic yards): 500		
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): 80		
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)

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

Attachment Check List

Att Doc Num	Name
400726656	FORM 19 SUBMITTED
400726659	TOPOGRAPHIC MAP
400726660	ANALYTICAL RESULTS
400727144	SITE MAP

Total Attach: 4 Files

General Comments

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

Total: 0 comment(s)