

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

401056785

Date Received:

06/03/2016

Spill report taken by:

GINTAUTAS, PETER

Spill/Release Point ID:

445876

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: <u>KERR MCGEE OIL & GAS ONSHORE LP</u>	Operator No: <u>47120</u>	Phone Numbers
Address: <u>P O BOX 173779</u>		Phone: <u>(720) 929-4306</u>
City: <u>DENVER</u>	State: <u>CO</u>	Zip: <u>80217-3779</u>
Contact Person: <u>Erik Mickelson</u>		Email: <u>erik.mickelson@anadarko.com</u>

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401053751

Initial Report Date: 05/25/2016 Date of Discovery: 05/25/2016 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SESE SEC 3 TWP 2N RNG 65W MERIDIAN 6Latitude: 40.161837 Longitude: -104.641005Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: TANK BATTERY ☐ Facility/Location ID No. _____☒ 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? 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? No

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

Estimated Oil Spill Volume(bbl): UnknownEstimated Condensate Spill Volume(bbl): UnknownEstimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): UnknownEstimated Other E&P Waste Spill Volume(bbl): 0Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: Oil, condensate, and produced water

Land Use:

Current Land Use: CROP LAND

Other(Specify): _____

Weather Condition: Partly cloudy, 65 degrees FSurface 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):

During construction activities associated with a partially buried produced water sump which had been displaced by shallow groundwater, stained soils were encountered. When removed, the sump was intact and there were no signs of active leaking. During excavation activities to remove the stained soils, a hole was discovered in the buried liner. This made it possible for shallow groundwater to infiltrate fill material within the secondary containment. A groundwater sample was collected from the base of the excavation, and results from that sample received on May 25 indicated that impacts were present above the COGCC Table 910-1 allowable level for benzene. Remediation and assessment activities are ongoing and further information will be provided in a forthcoming Form 19 Supplemental report. A topographic facility location map is provided as Figure 1, and the laboratory report is attached.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
5/25/2016	Weld County	Roy Rudisill	-email	
5/25/2016	Weld County	Troy Swain	-email	
5/25/2016	Weld Country	Tom Parko	-email	
5/25/2016	landowner	landowner	-email	

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 06/02/2016		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL			<input checked="" 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: Oil, condensate, and produced water

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): 27 Width of Impact (feet): 24

Depth of Impact (feet BGS): 3 Depth of Impact (inches BGS): _____

How was extent determined?

Between May 19 and May 24, 2016, soil excavation and groundwater extraction activities were conducted following the discovery of stained soils beneath the produced water sump, at the Cannon Land 62N65W/3SESE facility (Location ID 332142). On May 24, four confirmation soil samples (West 1@3', South1@3', North1@3', and East 1@3') were collected at the sidewall extents of the excavation, at 3 feet below ground surface (bgs). Also on May 24, groundwater sample Groundwater 1@3' was collected from the excavation, at 3 feet bgs. All samples were submitted to Origins Laboratory in Denver, Colorado, for analysis. Groundwater samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), by USEPA Method 8260. Soil samples were analyzed for BTEX and total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) by USEPA 8260, TPH - diesel and residual range organics (DRO and RRO) by USEPA 8015, electrical conductivity (EC), and pH. For the soil samples, laboratory analytical results indicated that BTEX and TPH were below laboratory detection limits and EC and pH were within COGCC allowable levels. Analytical results of sample Groundwater 1@3' indicated that benzene exceeded the applicable COGCC Table 910-1 standard for groundwater, at 146 micrograms per liter (µg/L). The general facility layout, excavation location, and laboratory results are shown in Figure 2. Analytical results are summarized in Table 1 and Table 2, and the associated laboratory reports are provided.

Soil/Geology Description:

Road base.

Depth to Groundwater (feet BGS)	<u>3</u>	Number Water Wells within 1/2 mile radius:	<u>10</u>
If less than 1 mile, distance in feet to nearest	Water Well <u>730</u>	None <input type="checkbox"/>	Surface Water <u>700</u>
	Wetlands <u></u>	None <input checked="" type="checkbox"/>	Springs <u></u>
	Livestock <u></u>	None <input checked="" type="checkbox"/>	Occupied Building <u>2230</u>
Additional Spill Details Not Provided Above:			
<p>The final extent of the excavation spanned approximately 24 feet (west-east) by 27 feet (north-south). Approximately 20 cubic yards of impacted material was removed via hydro-vacuum, and transported to the Kerr-McGee Oil & Gas Onshore, LP's Aggregate Recycling Facility in Weld County, Colorado, for disposal. Approximately 160 barrels of groundwater were removed via vacuum truck, and transported to a licensed injection facility for disposal. A Form 27 Remediation Workplan will be prepared and submitted for the subject release.</p>			

CORRECTIVE ACTIONS

#1	Supplemental Report Date:	06/02/2016
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>Historical release, source unknown.</div>		
Describe measures taken to prevent the problem(s) from reoccurring:		
<div>Historical release, source unknown. A new liner will be installed within the secondary containment.</div>		
Volume of Soil Excavated (cubic yards): 20		
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): 160		
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: Erik Mickelson	
Title: Senior HSE Representative	Date: 06/03/2016	Email: erik.mickelson@anadarko.com	

<u>COA Type</u>	<u>Description</u>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401056785	FORM 19 SUBMITTED
401057999	TOPOGRAPHIC MAP
401058008	SITE MAP
401058010	ANALYTICAL RESULTS
401058011	ANALYTICAL RESULTS
401058014	ANALYTICAL RESULTS

Total Attach: 6 Files

General Comments

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

Total: 0 comment(s)