

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

400944348

Date Received:

12/03/2015

Spill report taken by:

GINTAUTAS, PETER

Spill/Release Point ID:

444185

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: <u>KERR MCGEE OIL & GAS ONSHORE LP</u>	Operator No: <u>47120</u>	Phone Numbers
Address: <u>P O BOX 173779</u>		Phone: <u>(970) 336-3500</u>
City: <u>DENVER</u>	State: <u>CO</u>	Mobile: <u>(970) 515-1238</u>
Zip: <u>80217-3779</u>		Email: <u>Sam.LaRue@Anadarko.com</u>
Contact Person: <u>Sam LaRue</u>		

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400944348

Initial Report Date: 11/30/2015 Date of Discovery: 11/30/2015 Spill Type: Historical Release

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SWSW SEC 30 TWP 3N RNG 66W MERIDIAN 6

Latitude: 40.191804 Longitude: -104.824718

Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: TANK BATTERY ☒ Facility/Location ID No 318057

☐ 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): Unknown

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: Historical Release. The volume of the release is unknown.

Land Use:

Current Land Use: OTHER Other(Specify): Tank Battery

Weather Condition: 30 Degrees F, Partly Cloudy

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):

During deconstruction activities at the Lorenz-63N66W/30SWSW tank battery, petroleum hydrocarbon impacted groundwater was encountered beneath the produced water sump. There were no indications that the dumlins or produced water sump were leaking. The volume of the release is unknown. Groundwater was encountered in the excavation at approximately 3 feet below ground surface. An initial groundwater sample (GW01) was collected on November 25, 2015, and submitted for laboratory analysis of BTEX. Laboratory analytical results received on November 30, 2015, indicated that the benzene concentration exceeded the CGWQS at a concentration of 96.8 µg/L. The analytical results and excavation details are summarized below. A topographic Site Location Map depicting the general location of the release is attached as Figure 1.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
11/30/2015	Weld County	Roy Rudisill	-	Notified via Email
11/30/2015	Weld County	Tom Parko	-	Notified via Email
11/30/2015	Weld County	Troy Swain	-	Notified via Email
11/30/2015	Landowner	Landowner	-	Notified via Phone

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 12/03/2015		
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: Historical Release. The volume of the release is unknown.

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): 44 Width of Impact (feet): 14

Depth of Impact (feet BGS): 4 Depth of Impact (inches BGS):

How was extent determined?

On November 25, 2015, four sidewall soil samples (N01@2.5', E01@2.5', S01@2.5', and W01@2.5') were collected from the excavation and submitted for laboratory analysis of TPH, BTEX, pH, and EC. Laboratory results indicated that the TPH concentration in soil sample W01@2.5' exceeded the COGCC Table 910-1 allowable level. Groundwater was encountered in the excavation at approximately 3 feet below ground surface. One groundwater sample (GW01) was collected and submitted for laboratory analysis for BTEX. Laboratory results for excavation groundwater sample GW01 indicated that benzene exceeded the CGWQS at a concentration of 96.8 µg/L. On December 1 and 2, 2015, three additional excavation sidewall soil samples (N02@2.5', S02@2.5', and W02@0.5') were collected following the removal of additional impacted soil. Laboratory analytical results indicated that TPH, BTEX, pH, and EC levels were less than or within COGCC Table 910-1 allowable levels at the excavation extent. Following the removal of approximately 180 barrels of impacted groundwater from the excavation, a second groundwater sample (GW02) was collected. Laboratory analytical results for excavation groundwater sample GW02 indicated that BTEX concentrations were in compliance with the CGWQS. Approximately 220 cubic yards of impacted soil were removed from the excavation and transported to the Kerr-McGee Land Treatment Facility in Weld County, Colorado, for disposal. Prior to backfilling, an additional 160 barrels of groundwater was removed from the excavation and transported to a licensed injection facility and 80 pounds of COGAC®, a carbon-based bioremediation product, was applied to the open excavation. The general site layout, excavation dimensions, and soil and groundwater sample locations are shown on the Excavation Site Map provided as Figure 2. The soil and groundwater sample analytical results are summarized in Tables 1 and 2, respectively. The laboratory analytical reports are attached.

Soil/Geology Description:

Fine to coarse grained sand, sandy clay, and clay.

Depth to Groundwater (feet BGS) 1

Number Water Wells within 1/2 mile radius: 14

If less than 1 mile, distance in feet to nearest

Water Well 800 None ☐

Surface Water 260 None ☐

Wetlands 260 None ☐

Springs None ☒

Livestock 20 None ☐

Occupied Building 750 None ☐

Additional Spill Details Not Provided Above:

Groundwater monitoring wells will be installed at the site to determine the extent and magnitude of the groundwater impacts. Additional details will be provided in a Form 27.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 12/03/2015

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)

During deconstruction activities at the Lorenz-63N66W/30SSSW tank battery, petroleum hydrocarbon impacted groundwater was encountered beneath the produced water sump. There were no indications that the dumlins or produced water sump were leaking.

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

The tank battery will be reconstructed.

Volume of Soil Excavated (cubic yards): 220

Disposition of Excavated Soil (attach documentation) ☒ Offsite Disposal ☐ Onsite Treatment

☐ Other (specify) _____

Volume of Impacted Ground Water Removed (bbls): 340

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: Sam LaRue

Title: Sr. HSE Representative Date: 12/03/2015 Email: Sam.LaRue@Anadarko.com

COA Type

Description

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400944348	FORM 19 SUBMITTED
400944683	OTHER
400944687	TOPOGRAPHIC MAP
400946841	ANALYTICAL RESULTS
400946843	ANALYTICAL RESULTS
400947235	SITE MAP

Total Attach: 6 Files

General Comments

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

Total: 0 comment(s)