

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

401347527

Date Received:

10/16/2017

Spill report taken by:

CHESSON, BOB

Spill/Release Point ID:

450831

## 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: <u>KERR MCGEE OIL &amp; GAS ONSHORE LP</u>	Operator No: <u>47120</u>	<b>Phone Numbers</b>
Address: <u>P O BOX 173779</u>		Phone: <u>(720) 929-6368</u>
City: <u>DENVER</u>	State: <u>CO</u>	Mobile: <u>(785) 691-7788</u>
Zip: <u>80217-3779</u>		Email: <u>Mike.Dinkel@anadarko.com</u>
Contact Person: <u>Mike Dinkel</u>		

### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401294414

Initial Report Date: 05/26/2017 Date of Discovery: 05/25/2017 Spill Type: Recent Spill

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR SESE SEC 10 TWP 1N RNG 63W MERIDIAN 6

Latitude: 40.059150 Longitude: -104.415158

Municipality (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? 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? Yes

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

Estimated Oil Spill Volume(bbl): 0

Estimated Condensate Spill Volume(bbl): 0

Estimated Flow Back Fluid Spill Volume(bbl): 0

Estimated Produced Water Spill Volume(bbl): >=100

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: Sunny ~ 70 degrees F.

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 May 25, 2017, a release occurred when bore mud mixed with produced water and fresh water was applied to the ground surface in SESE Sec.10-1N-63W and at a Noble Energy construction site. Produced water originated from the Fehr 16N-32HZ and Land Fed 13N-32HZ production facilities. Assessment and incident investigation activities are ongoing and will be summarized in a forthcoming Supplemental Form 19 Spill/Release Report. A topographic Site Location Map showing the geographic setting of the release is provided as Figure 1.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

Date	Agency/Party	Contact	Phone	Response
5/26/2017	County	Tom Parko	-email	
5/26/2017	County	Troy Swain	-email	
5/26/2017	County	Roy Rudisill	-email	
5/26/2017	Land owner	Private	-phone	

**SPILL/RELEASE DETAIL REPORTS**

#1	Supplemental Report Date: 09/18/2017		
<b>FLUIDS</b>	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER	150	0	<input 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): \_\_\_\_\_ Width of Impact (feet): \_\_\_\_\_

Depth of Impact (feet BGS): \_\_\_\_\_ Depth of Impact (inches BGS): \_\_\_\_\_

How was extent determined? \_\_\_\_\_

On May 25, 2017, a release occurred when bore mud mixed with produced water and fresh water was applied to the ground surface in SESE Sec.10-1N-63W and at a Noble Energy construction site. Produced water originated from the Fehr 16N-32HZ and Land Fed 13N-32HZ production facilities. Characterization samples were collected from bore mud from the Noble Energy pipe bore inlet and outlet, and soil and water from the bore mud land application site and adjacent pond. Soil and water samples were submitted to Origins Laboratory and Summit Scientific for analysis of various analytes, including: volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and 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), pH, and arsenic by USEPA Method 6020A. Analytical results indicated that constituent concentrations in the samples collected from these locations were below the applicable COGCC Table 910-1 standards, with the exception of arsenic at the mud land application site. Seven (7) background native soil samples (BG02 – BG08) were collected from areas adjacent to the mud land application site and were submitted to Summit Scientific for analysis of arsenic by USEPA Method 6020A. Analytical results indicated that arsenic concentrations in the 7 background native soil samples were also above the COGCC Table 910-1 standard.

Soil/Geology Description:

Clay

Depth to Groundwater (feet BGS) 140 Number Water Wells within 1/2 mile radius: 12

If less than 1 mile, distance in feet to nearest Water Well 640 None ☐ Surface Water 25 None ☐

Wetlands          None ☒ Springs          None ☒

Livestock 365 None ☐ Occupied Building 345 None ☐

Additional Spill Details Not Provided Above:

Following sample collection from the above referenced locations, approximately 135 cubic yards of non-impacted material were removed from the bore mud land application site and transported to the Buffalo Ridge Landfill in Keenesburg, Colorado. Additionally, approximately 3,870 barrels of surface water were removed from the pond adjacent to the bore mud land application area and recycled for future use during Kerr-McGee completion operations. Based on the analytical data provided herein, Kerr-McGee is requesting a No Further Action (NFA) determination for this release. A topographic Site Location Map showing the geographic setting of the bore mud land application site and adjacent pond is provided as Figure 1. Soil and water sample locations from the Noble Energy pipe bore inlet and outlet are provided as Figure 2. Soil and water sample locations from the bore mud land application site and adjacent pond are provided as Figure 3. Soil analytical results are summarized in Table 1 and water analytical results are summarized in Table 2. The laboratory analytical reports are provided as Attachment A.

## CORRECTIVE ACTIONS

#1	Supplemental Report Date: <u>08/11/2017</u>
Cause of Spill (Check all that apply) <input checked="" type="checkbox"/> Human Error <input type="checkbox"/> Equipment Failure <input type="checkbox"/> Historical-Unknown	
<input type="checkbox"/> Other (specify) _____	
Describe Incident & Root Cause (include specific equipment and point of failure)	
<div>A truck driver unloaded produced water into temporary fresh water tanks at the wrong location instead of temporary produced water tanks for disposal. The water was then mixed with additional fresh water and bentonite to make bore mud which was ultimately land applied.</div>	
Describe measures taken to prevent the problem(s) from reoccurring:	
<div>Site and tank verification protocols and proper loading and unloading requirements have been re-emphasized to third-party drivers and crews. Additional preventative measures will be put in place following the completion of the release incident investigation.</div>	
Volume of Soil Excavated (cubic yards): <u>135</u>	
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): <u>0</u>	
Volume of Impacted Surface Water Removed (bbls): <u>3870</u>	

## 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:

Based on the analytical data provided herein, Kerr-McGee is requesting a No Further Action (NFA) determination for this release.

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

Signed: \_\_\_\_\_ Print Name: Mike Dinkel

Title: Staff HSE Representative Date: 10/16/2017 Email: Mike.Dinkel@anadarko.com

## COA Type

## Description

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**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
401348331	TOPOGRAPHIC MAP
401372578	FORM 19 SUBMITTED
401400981	ANALYTICAL RESULTS
401400991	ANALYTICAL RESULTS
401401019	SITE MAP

Total Attach: 5 Files

**General Comments**

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

Total: 0 comment(s)