

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

400823335

Date Received:

04/10/2015

Spill report taken by:

CANFIELD, CHRIS

Spill/Release Point ID:

441436

## 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	<b>Phone Numbers</b>
Address: P O BOX 173779		Phone: (970) 336-3500
City: DENVER State: CO Zip: 80217-3779		Mobile: (970) 515-1238
Contact Person: Sam LaRue		Email: Sam.LaRue@anadarko.com

### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400819242

Initial Report Date: 04/02/2015 Date of Discovery: 04/01/2015 Spill Type: Recent Spill

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR NWNE SEC 3 TWP 2N RNG 67W MERIDIAN 6

Latitude: 40.172282 Longitude: -104.874173

Municipality (if within municipal boundaries): County: WELD

#### Reference Location:

Facility Type: FLOWLINE

☐ Facility/Location ID No

☐ No Existing Facility or Location ID No.

☒ Well API No. (Only if the reference facility is well) 05-123-16852

#### 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: CROP LAND

Other(Specify):

Weather Condition: 70'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 March 31, 2015, hydrocarbon impacts were discovered during abandonment activities at the Richardson V3-2 production facility. Approximately 40 cubic yards of impacted material were excavated and transported to Front Range Regional Landfill in Erie, Colorado for disposal. Groundwater was encountered in the excavation area at approximately 3 feet below ground surface. A groundwater sample (GW01) was collected from the excavation area and submitted to Origins Laboratory in Denver, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8260B. Analytical results received on April 1, 2015, indicated benzene, toluene, and total xylenes concentrations were above applicable COGCC Table 910-1 groundwater standards. Excavation activities are on-going at this location.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

Date	Agency/Party	Contact	Phone	Response
4/1/2015	County	Tom Parko	--Email	
4/1/2015	County	Roy Rudisill	--Email	

**SPILL/RELEASE DETAIL REPORTS**

#1	Supplemental Report Date: 04/10/2015		
<b>FLUIDS</b>	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): 39 Width of Impact (feet): 30

Depth of Impact (feet BGS): 3 Depth of Impact (inches BGS): 0

How was extent determined?

On March 31, 2015, hydrocarbon impacts were discovered during abandonment activities at the Richardson V 3-2 production facility. Approximately 110 cubic yards of impacted material were excavated and transported to the Front Range Regional Landfill in Erie, Colorado for disposal. Four soil samples (W01@2, E01@2, N01@2, and S01@2) were collected from the sidewalls of the final extent of the initial excavation area at approximately 4 ft. below ground surface (bgs) and submitted to Origins Laboratory 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 TPH - oil range organics (ORO) by USEPA Method 8015, specific conductance (EC), and pH. Hydrocarbon constituent concentrations were below regulatory standards in the four soil samples collected from the excavation area. However, analytical results indicated that pH levels in soil samples N01@2, W01@2, and E01@2 were above applicable COGCC Table 910-1 standards. Additional excavation activities were conducted to remove soils with pH levels above regulatory standards. Subsequently, three soil samples were collected from the north, west, and east sidewalls of the final extent of the excavation area at approximately 2 ft. bgs and submitted for laboratory analysis of pH. Analytical results indicated that the pH levels in soil samples N03@2 and E03@2 were within the applicable COGCC Table 910-1 standards.

Soil/Geology Description:

Silty sand to silty clay.

Depth to Groundwater (feet BGS) 3 Number Water Wells within 1/2 mile radius: 12

If less than 1 mile, distance in feet to nearest Water Well 200 None ☐ Surface Water 950 None ☐

Wetlands            None ☒ Springs            None ☒

Livestock 800 None ☐Occupied Building 600 None ☐

Additional Spill Details Not Provided Above:

Groundwater was encountered within the excavation area at approximately 3 ft. bgs. On March 31, 2015, a groundwater sample (GW01) was collected from the excavation area and submitted for laboratory analysis of BTEX. Analytical results indicated that benzene, toluene, and total xylenes concentrations were above COGCC Table 910-1 groundwater standards. Approximately 100 barrels of hydrocarbon impacted groundwater were removed from the excavation area via vacuum truck and transported to a licensed injection facility. On April 9, 2015, a second groundwater sample (GW02) was collected from the excavation area and submitted for laboratory analysis of BTEX. Analytical results indicated benzene, toluene, and total xylenes concentrations were above the applicable COGCC Table 910-1 standards. Prior to backfilling, 50 pounds of activated carbon were introduced to the groundwater table to mitigate remaining aqueous phase hydrocarbon impacts. The excavation area was backfilled and re-contoured to match pre-existing conditions. Soil and groundwater analytical results are summarized in Table 1 and 2, respectively and soil and groundwater sample locations are illustrated in Figure 2.

## CORRECTIVE ACTIONS

#1	Supplemental Report Date: <u>04/10/2015</u>
Cause of Spill (Check all that apply) <input type="checkbox"/> Human Error <input checked="" 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>During abandonment activities, hydrocarbon impacts were discovered along the flowline.</div>	
Describe measures taken to prevent the problem(s) from reoccurring: <div>The flowline and associated equipment were flushed and removed. The flowline will not be replaced.</div>	
Volume of Soil Excavated (cubic yards): <u>110</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>100</u>	
Volume of Impacted Surface Water Removed (bbls): <u>0</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: \_\_\_\_\_

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

Signed: \_\_\_\_\_ Print Name: Sam LaRueTitle: Senior HSE Representative Date: 04/10/2015 Email: Sam.LaRue@anadarko.com

## Attachment Check List

Att Doc Num	Name
400823522	FORM 19 SUBMITTED
400823523	TOPOGRAPHIC MAP
400823552	SITE MAP
400823553	ANALYTICAL RESULTS

Total Attach: 4 Files

General Comments

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

Total: 0 comment(s)