

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400724974

Date Received:

11/06/2014

Spill report taken by:

CANFIELD, CHRIS

Spill/Release Point ID:

439679

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# 400720388

Initial Report Date: 10/30/2014 Date of Discovery: 10/27/2014 Spill Type: Historical Release

Spill/Release Point Location:

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

Latitude: 40.040111 Longitude: -104.872880

Municipality (if within municipal boundaries): County: WELD

Reference Location:

Facility Type: TANK BATTERY ☒ Facility/Location ID No 328953

☐ 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 27, 2014, a historical release was discovered while replacing the tank battery at the Coughlin Red VV 22-1, 22-2 production facility. Approximately 200 cubic yards of impacted material were removed and transported to Front Range Regional Landfill in Erie, Colorado. Groundwater was encountered in the excavation 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 27, 2014, indicated benzene concentrations were in exceedance of the applicable COGCC Table 910-1 groundwater standards, causing this release to be reportable to the State. 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
10/27/2014	County	Tom Parko	--Email	
10/27/2014	County	Roy Rudisill	--Email	

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 11/06/2014		
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? <u>YES</u> Was an Emergency Pit constructed? <u>NO</u>			
<i>Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>			
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) <input checked="" type="checkbox"/> Soil <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet): <u>28</u>		Width of Impact (feet): <u>31</u>	
Depth of Impact (feet BGS): <u>10</u>		Depth of Impact (inches BGS): _____	
How was extent determined?			
<p>On October 27, 2014, a historical release was discovered during plugging and abandoning activities at the Coughlin Red VV 22-1, 22-2 production facility. Approximately 200 cubic yards of impacted soil were removed and transported to the Front Range Regional Landfill in Erie, Colorado. The vertical and lateral extents of the excavation were determined using a photoionization detector to field screen volatile organic compound (VOC) concentrations in the soil. Six soil samples were collected from the final extent of the excavation at approximately 8 feet below ground surface (bgs) and were submitted to Origins Laboratory in Denver, Colorado for analysis of BTEX and TPH using USEPA Method 8260B and 8015, respectively. Laboratory results indicated that constituent concentrations were below the applicable COGCC Table 910-1 soil standards in the soil samples collected from the final excavation extent. Groundwater was encountered in the excavation at approximately 10 feet bgs. Following the excavation activities, approximately 80 barrels of groundwater were removed from the excavation via vacuum truck and transported to a licensed injection facility for disposal. Subsequently, a groundwater sample (GW01) was collected from the excavation and submitted for analysis of BTEX. Laboratory results indicated that benzene concentrations in groundwater sample GW01 were in exceedance of the applicable COGCC Table 910-1 standards. Prior to backfilling, 264 pounds of activated carbon were introduced to the groundwater table to mitigate remaining dissolved aqueous phase petroleum impacts. The excavation will be backfilled and re-contoured to pre-existing conditions. A subsequent Form 27 will be submitted outlining a proposed remedial strategy to address remaining hydrocarbon impacts in groundwater.</p>			
Soil/Geology Description:			
Silty clay to silty sand.			
Depth to Groundwater (feet BGS) <u>10</u>		Number Water Wells within 1/2 mile radius: <u>21</u>	
If less than 1 mile, distance in feet to nearest Water Well <u>850</u> None <input type="checkbox"/>		Surface Water <u>1885</u> None <input type="checkbox"/>	

Wetlands _____ None ☒Springs _____ None ☒Livestock _____ None ☒Occupied Building 800 None ☐

Additional Spill Details Not Provided Above:

CORRECTIVE ACTIONS#1 Supplemental Report Date: 11/06/2014Cause 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 plugging and abandoning activities, historical impacts were discovered beneath the produced water tank. There was no indication that the dump lines or the water tank were leaking. All associated fittings were tight and working properly.

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

The tank battery will be rebuilt with a geosynthetic liner, poly drain line, and a double walled fiberglass produced water tank.

Volume of Soil Excavated (cubic yards): 200Disposition of Excavated Soil (attach documentation) ☒ Offsite Disposal ☐ Onsite Treatment
☐ Other (specify) _____Volume of Impacted Ground Water Removed (bbls): 80

Volume of Impacted Surface Water Removed (bbls): _____

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: Phil HamlinTitle: Senior HSE Representative Date: 11/06/2014 Email: phil.hamlin@anadarko.com**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400724987	ANALYTICAL RESULTS
400724988	TOPOGRAPHIC MAP
400724991	FORM 19 SUBMITTED
400725168	SITE MAP

Total Attach: 4 Files

General Comments

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

Total: 0 comment(s)