FORM
19
Rev 8/13

State of Colorado
Oil and Gas Conservation Commission

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Document Number: 401233660
Date Received: 03/17/2017

Spill report taken by: GINTAUTAS, PETER
Spill/Release Point ID: 449643

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 INFORMATON

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator No: 47120
Address: P O BOX 173779
City: DENVER State: CO Zip: 80217-3779
Contact Person: Paul Schwarz

Phone Numbers
Phone: (970) 336-3500
Mobile: ( )
Email: Paul.Schwarz@Anadarko.com

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401227269

Initial Report Date: 03/07/2017 Date of Discovery: 03/07/2017 Spill Type: Historical Release

Spill/Release Point Location:

Locationof Spill/Release: QTRQTR SESE SEC 17 TWP 2N RNG 66W MERIDIAN 6
Latitude: 40.132073 Longitude: -104.793805
`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? 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:

Land Use:

Current Land Use: NON-CROP LAND Other(Specify): Tank Battery Pad
Weather Condition: Sunny, 50°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):

While excavating a nonreportable release at the Nesmith 15-17, UPRR 42 Pan Am AQ True #1 tank battery, historical impacts were encountered beneath the oil tank. Groundwater was encountered in the excavation at approximately 13 feet below ground surface. A groundwater sample (GW01) was collected and submitted for laboratory analysis of BTEX. Laboratory analytical results received on March 7, 2017, indicated petroleum hydrocarbon impact to groundwater. The analytical results and excavation details will be summarized in a supplemental 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
3/7/2017	Weld County	Roy Rudisill	-	Notified via Email
3/7/2017	Weld County	Troy Swain	-	Notified via Email
3/7/2017	Weld County	Tom Parko	-	Notified via Email
3/7/2017	Landowner	Landowner	-	Notified via Phone

SPILL/RELEASE DETAIL REPORTS

#1 Supplemental Report Date: 03/17/2017

FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL			☒
CONDENSATE			☒
PRODUCED WATER			☒
DRILLING FLUID	0	0	☐
FLOW BACK FLUID	0	0	☐
OTHER E&P WASTE	0	0	☐

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): 50 Width of Impact (feet): 26

Depth of Impact (feet BGS): 15 Depth of Impact (inches BGS):

How was extent determined?

Between March 6 and 16, 2017, nine soil samples were collected from the excavation sidewalls and submitted for laboratory analysis of TPH, BTEX, pH, and EC. Laboratory analytical results indicated that BTEX, TPH, and EC concentrations and levels were in compliance with COGCC Table 910-1 allowable levels at the extent of the excavation. The pH levels in sidewall soil samples N01@10', N02@10', N03@10', E01@10', S01@10', and W02@10' exceeded the COGCC allowable level for pH at levels ranging from 9.02 standard units (su) to 9.56 su. However, these samples were collected below the root zone (depth greater than 3 feet below ground surface), so no further excavation was necessary. On March 6, 2017, groundwater sample GW01 was collected from the excavation for BTEX analysis. The benzene concentration in GW01 exceeded the COGCC Table 910-1 allowable level at 1,680 µg/L. Approximately 410 cubic yards of impacted soil were excavated and transported to the Kerr-McGee Land Treatment Facility in Weld County, Colorado. In addition, approximately 400 barrels of impacted groundwater were removed from the excavation using a hydro-vacuum truck and transported to a licensed injection facility. Prior to backfilling, 5 gallons of MicroBlaze®, a bioremediation amendment, and 140 pounds of COGAC®, a carbon-based bioremediation product, were applied to the open excavation. The general site layout, excavation dimensions, and excavation soil and groundwater sample locations are depicted on the Excavation Site Map provided as Figure 2. The excavation soil and groundwater sample analytical results are summarized in Table 1 and Table 2, respectively. The laboratory analytical reports are attached.

Soil/Geology Description:

Clayey fine grained sand (SC).

Depth to Groundwater (feet BGS) 13 Number Water Wells within 1/2 mile radius: 15

If less than 1 mile, distance in feet to nearest

Water Well	400	None ☐	Surface Water	520	None ☐
Wetlands	520	None ☐	Springs		None ☒
Livestock	1050	None ☐	Occupied Building	320	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 and establish points of compliance.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 03/17/2017

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)

While excavating a nonreportable release at the Nesmith 15-17, UPRR 42 Pan Am AQ True #1 tank battery, historical impacts were encountered beneath the oil tank. The volume of the release is unknown.

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

The site will be restored to pre-release grade and the tank battery will be reconstructed.

Volume of Soil Excavated (cubic yards): 410

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

☒ Other (specify) Kerr-McGee Land Treatment Facility

Volume of Impacted Ground Water Removed (bbls): 400

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: Paul Schwarz

Title: HSE Representative Date: 03/17/2017 Email: Paul.Schwarz@Anadarko.com

COA Type	Description

Attachment Check List

Att Doc Num	Name
401233660	SPILL/RELEASE REPORT(SUPPLEMENTAL)
401233667	OTHER
401233724	TOPOGRAPHIC MAP
401235938	ANALYTICAL RESULTS
401236224	SITE MAP
401236908	FORM 19 SUBMITTED

Total Attach: 6 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)