FORM 19 Rev 03/18

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: 401988095
Date Received: 03/29/2019

Spill report taken by: GINTAUTAS, PETER
Spill/Release Point ID: 463434

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: Gregory Hamilton

Phone Numbers
Phone: (970) 336-3500
Mobile: (970) 515-1698
Email: Gregory.Hamilton@anadarko.com

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401980694

Initial Report Date: 03/21/2019 Date of Discovery: 03/21/2019 Spill Type: Historical Release

Spill/Release Point Location:

Locationof Spill/Release: QTRQTR SENW SEC 28 TWP 2N RNG 66W MERIDIAN 6
Latitude: 40.112662 Longitude: -104.785971
`Municipality (if within municipal boundaries): County: WELD

Reference Location:

Facility Type: TANK BATTERY ☐ Facility/Location ID No
Spill/Release Point Name: ☒ No Existing Facility or Location ID No.
Number: ☐ 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: CROP LAND Other(Specify):
Weather Condition: Sunny ~ 35 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):

Historical impacts were discovered during abandonment activities at the Coburn W 28-3JI production facility. Groundwater was encountered within the excavation at approximately 7.5 feet bgs. A groundwater sample (GW01) was collected and submitted to Origins Laboratory for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8260C. Analytical results received on March 21, 2019, indicated that the benzene concentration in groundwater sample GW01 was out of compliance with the COGCC standard. Soil excavation 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. The groundwater sample location is illustrated on Figure 2. The groundwater analytical results are summarized in Table 1. The analytical laboratory report is provided as Attachment A.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
3/21/2019	County	Jason Maxey	-email	
3/21/2019	County	Roy Rudisill	-email	
3/21/2019	Private	Landowner	-phone	

Was there a Grade 1 Gas Leak associated with this E & P waste spill or release? Yes ☐ No ☒

If YES, enter the Document Number of the Initial Grade 1 Gas Leak Report Form 44:

Was there a reportable accident associated with this E & P waste spill or release? Yes ☐ No ☒

If YES, enter the Document Number of the Initial Accident Report, Form 22:

SPILL/RELEASE DETAIL REPORTS

#1 Supplemental Report Date: 03/28/2019

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): 44 Width of Impact (feet): 40

Depth of Impact (feet BGS): 7 Depth of Impact (inches BGS): 6

How was extent determined?

Historical impacts were discovered during abandonment activities at the Coburn W 28-3JI production facility. Approximately 590 cubic yards of impacted material were removed and transported to the Buffalo Ridge Landfill in Keenesburg, Colorado for disposal. Eight (8) confirmation soil samples were collected from the sidewalls of the final lateral extent of the excavation area at approximately 6 feet below ground surface (bgs). The soil samples were submitted to Origins Laboratory for analysis of benzene, toluene, ethylbenzene, 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), and pH. Laboratory analytical results indicated that constituent concentrations in the soil samples collected from the sidewalls of the final lateral extent of the excavation area were in full compliance with the COGCC standards. Groundwater was encountered in the excavation at approximately 7.5 feet bgs. On March 20, 2019, a groundwater sample (GW01) was collected and submitted to Origins Laboratory for analysis of BTEX by USEPA Method 8260C. Analytical results received on March 21, 2019, indicated that the benzene concentration in sample GW01 was out of compliance with the COGCC standards. On March 27, 2019, a second groundwater sample (GW02) was collected following the removal of approximately 750 barrels of groundwater from the excavation and submitted to Origins Laboratory for analysis of BTEX. Analytical results received on March 28, 2019, indicated that the benzene concentration in groundwater sample GW02 remained out of compliance with the COGCC standard. Prior to backfilling, approximately 165 pounds of activated carbon were introduced into the excavation to address hydrocarbon-impacted groundwater. The phreatic zone was backfilled with clean sand and the excavation area was graded to match pre-existing conditions.

Soil/Geology Description:

Clayey sand

Depth to Groundwater (feet BGS) 7 Number Water Wells within 1/2 mile radius: 16

If less than 1 mile, distance in feet to nearest

Water Well	1475	None ☐		Surface Water	40	None ☐	
Wetlands		None ☒		Springs		None ☒	
Livestock	1065	None ☐		Occupied Building	610	None ☐	

Additional Spill Details Not Provided Above:

A topographic Site Location Map showing the geographic setting of the release is provided as Figure 1. Soil and groundwater sample locations are illustrated on Figure 2. Groundwater analytical results are summarized in Table 1 and soil analytical results are summarized in Table 2. The laboratory analytical reports are provided as Attachment A. An Initial Form 27 Site Investigation and Remediation Workplan will be prepared for this release.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 03/28/2019

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)

Historical impacts were discovered beneath the partially-buried produced water vessel during abandonment activities.

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

Site infrastructure has been removed and will not be replaced.

Volume of Soil Excavated (cubic yards): 590

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

☐ Other (specify)

Volume of Impacted Ground Water Removed (bbls): 750

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: _____

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: Gregory Hamilton

Title: Senior Staff Env Rep Date: 03/29/2019 Email: Gregory.Hamilton@anadarko.com

COA Type	Description

Attachment Check List

Att Doc Num	Name
401988166	TOPOGRAPHIC MAP
401988167	SITE MAP
401988169	ANALYTICAL RESULTS
401988173	ANALYTICAL RESULTS
401988174	OTHER
401988343	ANALYTICAL RESULTS

Total Attach: 6 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)