

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

401545671

Date Received:

02/16/2018

Spill report taken by:

Spill/Release Point ID:

## SPILL/RELEASE REPORT (INITIAL /w 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: 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	Mobile: (970) 515-1161
Zip: 80217-3779		Email: Phil.Hamlin@anadarko.com
Contact Person: Phillip Hamlin		

### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401545671

Initial Report Date: 02/14/2018 Date of Discovery: 02/13/2018 Spill Type: Historical Release

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR SESE SEC 18 TWP 3N RNG 67W MERIDIAN 6

Latitude: 40.221315 Longitude: -104.927257

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):

Weather Condition: Cloudy ~ 20 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 February 12, 2018, historical impacts were discovered during abandonment activities at the Sekich Farms 16-18 production facility. Excavation activities were guided in the field by screening soil for volatile organic compound (VOC) concentrations using a photoionization detector (PID). Groundwater was encountered within the excavation at approximately 6 feet below ground surface (bgs). 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
2/13/2018	County	Roy Rudisill	-email	
2/13/2018	County	Tom Parko	-email	
2/13/2018	County	Troy Swain	-email	
2/13/2018	Private	Landowner	-phone	

**SPILL/RELEASE DETAIL REPORTS**

#1	Supplemental Report Date: 02/15/2018		
<b>FLUIDS</b>	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL			<input checked="" 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): \_\_\_\_\_ Width of Impact (feet): \_\_\_\_\_

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

How was extent determined?

On February 12, 2018, historical impacts were discovered during abandonment activities at the Sekich Farms 16-18 production facility. Excavation activities were guided in the field by screening soil for volatile organic compound (VOC) concentrations using a photoionization detector (PID). Four (4) confirmation soil samples were collected from the sidewalls of the final lateral extent of the produced water sump excavation area at approximately 5 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. Soil analytical results indicated that constituent concentrations in the soil samples collected from the sidewalls of the final lateral extent of the produced water sump excavation area were in full compliance with State standards. Groundwater was encountered within the excavation at approximately 6 feet bgs. A groundwater sample (GW01) was collected and submitted to Origins Laboratory for analysis of BTEX by USEPA Method 8260C. Analytical results received on February 13, 2018, indicated that the benzene concentration in groundwater sample GW01 was out of compliance with State standards. On February 13, 2018, approximately 0.25 barrels of impacted groundwater were removed from the excavation via vacuum truck and transported to the Kerr-McGee Aggregate Recycling Facility for disposal. A second groundwater sample (GW02) was collected and submitted to Origins Laboratory for analysis of BTEX by USEPA Method 8260C. Analytical results received on February 14, 2018, indicated that constituent concentrations in groundwater sample GW02 were in full compliance with State standards.

Soil/Geology Description:

Clayey sand
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Depth to Groundwater (feet BGS) 6      Number Water Wells within 1/2 mile radius: 0

Number Water Wells within 1/2 mile radius: 0

If less than 1 mile, distance in feet to nearest	Water Well	4980	None		Surface Water	635	None	
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Water Well	4980	None		Surface Water	635	None	
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Surface Water	635	None	
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Wetlands 3190 None ☐ Springs None ☒

None ☒

Livestock 45 None ☐ Occupied Building 750 None ☐

Occupied Building 750 None 

Additional Spill Details Not Provided Above:

Prior to backfilling, approximately 44 pounds of activated carbon were introduced into the excavation to mitigate potential remaining hydrocarbon impacts to groundwater. The phreatic zone was backfilled with clean sand and the excavation area was graded to match pre-existing conditions. 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. Soil analytical results are summarized in Table 1 and groundwater 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:	02/15/2018
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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 sump 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):

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

☐ Other (specify) \_\_\_\_\_

Volume of Impacted Ground Water Removed (bbls):	1
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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: Phillip Hamlin

Title: Senior HSE Representative      Date: 02/16/2018      Email: Phil.Hamlin@anadarko.com

<u>COA Type</u>	<u>Description</u>
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Description	Frequency	Severity	Probability	Impact	Mitigation
Data Breach	Low	High	Medium	High	Implement strong security measures
System Downtime	Medium	Medium	High	Medium	Implement backup and recovery procedures
Human Error	High	Low	Medium	Low	Implement training and awareness programs
Malware Infection	Medium	High	Medium	High	Implement antivirus and anti-malware software
Insider Threat	Low	High	Medium	High	Implement access controls and monitoring
Natural Disasters	Low	High	Medium	High	Implement disaster recovery and business continuity plans
Supply Chain Disruption	Medium	Medium	High	Medium	Implement supplier diversification and risk management
Regulatory Changes	Low	Medium	Medium	Medium	Implement compliance and legal review
Cyberattacks	High	High	High	High	Implement robust security measures and incident response
Data Loss	Medium	High	Medium	High	Implement backup and recovery procedures
Service Outage	Medium	Medium	High	Medium	Implement redundancy and failover mechanisms
Reputation Damage	Low	High	Medium	High	Implement crisis communication and PR strategies
Financial Loss	Medium	High	High	High	Implement risk management and insurance
Operational Disruption	Medium	Medium	High	Medium	Implement contingency plans and resource allocation
Customer Dissatisfaction	Low	Medium	Medium	Medium	Implement customer feedback and service improvement
Employee Turnover	Medium	Low	Medium	Medium	Implement employee retention and training programs
Market Volatility	Low	Medium	Medium	Medium	Implement market research and strategic planning
Competitor Actions	Medium	Medium	High	Medium	Implement competitive analysis and strategic response
Technological Obsolescence	Low	High	Medium	High	Implement research and development, innovation
Supply Chain Disruption	Medium	Medium	High	Medium	Implement supplier diversification and risk management
Regulatory Changes	Low	Medium	Medium	Medium	Implement compliance and legal review
Cyberattacks	High	High	High	High	Implement robust security measures and incident response
Data Loss	Medium	High	Medium	High	Implement backup and recovery procedures

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**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
401546058	OTHER
401546060	ANALYTICAL RESULTS
401546062	ANALYTICAL RESULTS
401546085	TOPOGRAPHIC MAP
401547042	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)