

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:

401972759

Date Received:

03/14/2019

Spill report taken by:

Hughes, Jim

Spill/Release Point ID:

463123

## 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 INFORMATION

Name of Operator: <u>KINDER MORGAN CO2 CO LP</u>	Operator No: <u>46685</u>	<b>Phone Numbers</b>
Address: <u>1001 LOUISIANA ST SUITE 1000</u>		Phone: <u>(970) 882-5532</u>
City: <u>HOUSTON</u>	State: <u>TX</u>	Mobile: <u>(970) 403-9501</u>
Zip: <u>77002</u>		Email: <u>michael_hannigan@kin</u>
Contact Person: <u>Michael Hannigan</u>		<u>dermorgan.com</u>

### INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401960990

Initial Report Date: 03/05/2019 Date of Discovery: 03/04/2019 Spill Type: Recent Spill

#### Spill/Release Point Location:

Location of Spill/Release: QTRQTR SWSE SEC 13 TWP 38N RNG 19W MERIDIAN N

Latitude: 37.545011 Longitude: -108.893749

Municipality (if within municipal boundaries): \_\_\_\_\_ County: MONTEZUMA

#### Reference Location:

Facility Type: WELL PAD ☒ Facility/Location ID No 450245

Spill/Release Point Name: CD-3 Fresh Water Mud ☐ 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? Yes

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): 0

Estimated Condensate Spill Volume(bbl): 0

Estimated Flow Back Fluid Spill Volume(bbl): 0

Estimated Produced Water Spill Volume(bbl): 0

Estimated Other E&P Waste Spill Volume(bbl): 0

Estimated Drilling Fluid Spill Volume(bbl): >=5 and <100

Specify: Fresh water drilling mud

#### Land Use:

Current Land Use: NON-CROP LAND Other(Specify): \_\_\_\_\_

Weather Condition: Snow & rain mix, wind NW 10-15 mph

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):

Release was discovered at 01:00 05/04/2019. Leaking rig pump noted, pump shut in and gasket replaced 23:00 05/03/2019, pump put back in service. Cleanup after repair required suction however rig vacuum system inoperable so derrick hand connected 2" hose to outside mixing hopper valve which provided suction (Venturi effect during mixing). Mud system operation switched from mixing to transfer while the 2" valve remained open with hose connected which resulted in fresh water / bentonite clay drilling mud discharging from hose in the pump room. The mud flowed across the floor, out the doors of the pump room and across the liner. Upon discovery, the valve was closed, the hose disconnected and the spill was contained using absorbent socks and soil berms. The volume of mud loss from the active system was 40 bbls. A vacuum truck was used to recover the mud along with a significant volume of accumulated rainfall and snowmelt (total 126 bbls), all of which was returned to the active system.

**List Agencies and Other Parties Notified:**

**OTHER NOTIFICATIONS**

Date	Agency/Party	Contact	Phone	Response
3/4/2019	BLM	Jennnifer Jardine	970-385-1242	Yes, "thank you for letting me know"

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: 03/14/2019		
<b>FLUIDS</b>	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER	0	0	<input type="checkbox"/>
DRILLING FLUID	40	40	<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): 90 Width of Impact (feet): 90

Depth of Impact (feet BGS): 0 Depth of Impact (inches BGS): \_\_\_\_\_

How was extent determined?

Direct measurement. The mud release exited through the pump house doors, flowed across the liner that was deployed under the rig and then flowed across the gravel surface of the northeast portion of the location to the trench constructed around the perimeter of the pad. The dimensions given above define the unlined corner of the location where the mud was spilled. The actual area impacted by the spill is less than the dimensions given due to the equipment, tanks and associated secondary containment that were in the path of the spill.

Soil/Geology Description:

The soil impacted by the release consists of 3/4" compacted aggregate base course.

Depth to Groundwater (feet BGS) 125 Number Water Wells within 1/2 mile radius: 1

If less than 1 mile, distance in feet to nearest Water Well 1870 None ☐ Surface Water 1575 None ☐

Wetlands \_\_\_\_\_ None ☒ Springs \_\_\_\_\_ None ☒

Livestock \_\_\_\_\_ None ☒Occupied Building 1708 None ☐

Additional Spill Details Not Provided Above:

One water well (Permit #217787) located within 1/2 mile of spill (0.36 mile southeast). Owner was contacted in January to collect ground water sample prior to CD-3 spud in January 2019 but owner informed Kinder Morgan that the well was dry due to drought.

## CORRECTIVE ACTIONS

#1 Supplemental Report Date: 03/14/2019

Cause of Spill (Check all that apply) ☒ Human Error ☒ Equipment Failure ☐ Historical-Unknown  
☐ Other (specify) \_\_\_\_\_

Describe Incident &amp; Root Cause (include specific equipment and point of failure)

A leak was noticed on the suction manifold on rig pump #1, the pump was shut down and a gasket was replaced in order to fix leak. The derrick hand connected a 2" hose to the "outside mixing hopper valve" in order to suction up the spilled drilling mud left over from the pump repair after the repair was completed and then rig pump #1 was put back into service. The 2" "outside mixing hopper valve" was left open from 2300 – 0100. The outside mixing hopper valve used to vacuum up the spill is generally used to add chemicals from drums into the mixing hopper. A floor hand noticed drilling mud flowing out of the pump house and alerted the driller on duty, the source of the leak was identified and the valve was shut. Approximately 40 bbls. of drilling mud (fresh water, bentonite clay) was released. The Standard Operating Procedure for mud spills and liquid cleanup is to use the "rig vacuum" which was not working due to a broken starter, so the derrick man made the decision to improvise using the outside mixing hopper valve. Rig supervision was not notified of inoperable equipment until after the spill.

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

1) A working Rig Vacuum unit brought onto site (completed 3/5/19); 2) Plugs purchased and installed on all open ended valves (completed 3/5/19); 3) Bent or broken valve handles were replaced (completed 3/5/19); 4) Amend Procedure 3010 – Add plugging open ended valves to Pre-Spud checklist; and 5) Amend Procedure 3010 – Add the question "Is there any equipment or system not working" to Pre-Spud checklist.

Volume of Soil Excavated (cubic yards): 0

Disposition of Excavated Soil (attach documentation) ☐ Offsite Disposal ☐ Onsite Treatment  
☐ Other (specify) \_\_\_\_\_

Volume of Impacted Ground Water Removed (bbls): 0Volume of Impacted Surface Water Removed (bbls): 86

## 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: Michael HanniganTitle: EHS Supervisor Date: 03/14/2019 Email: michael\_hannigan@kindermorgan.com

## COA Type

## Description

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401972759	FORM 19 SUBMITTED
401973026	ANALYTICAL RESULTS
401973027	AERIAL PHOTOGRAPH

Total Attach: 3 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)