

State of Colorado
Oil and Gas Conservation Commission

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Document Number:

402440149

Date Received:

07/09/2020

Spill report taken by:

Hughes, Jim

Spill/Release Point ID:

471621

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>	Phone Numbers
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>CO2Source_Regulator_y@kindermorgan.com</u>
Contact Person: <u>Michael Hannigan</u>		

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 402313001

Initial Report Date: 02/13/2020 Date of Discovery: 02/13/2020 Spill Type: Recent Spill

Spill/Release Point Location:

QTRQTR NWNW SEC 13 TWP 37N RNG 18W MERIDIAN N

Latitude: 37.470397 Longitude: -108.790697

Municipality (if within municipal boundaries): _____ County: MONTEZUMA

Reference Location:

Facility Type: GAS COMPRESSOR STATION ☒ Facility/Location ID No 436392

Spill/Release Point Name: Yellow Jacket Produced Water Pump ☐ Well API No. (Only if the reference facility is well) 05- -

☐ No Existing Facility or Location ID No.

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): >=100

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

Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: 111 bbls Produced Water

Land Use:

Current Land Use: OTHER Other(Specify): Industrial (Compressor Plant)

Weather Condition: 40 Deg F, clear, wind 5 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):

The spill resulted from the failure of the packing on produced water pump 103B located inside a concrete containment area just south of the tank farm. Produced water from the release initially stayed inside the concrete containment area and was directed to the sump however the sump pump failed to activate. The produced water filled the sump, backed up into the containment area and then overflowed onto the ground surface on the north side of the containment area. The volume of the spill is based on our SCADA tank fluid level trend which was calculated to be a total of 111 barrels released and 72 barrels recovered and pumped back into the tank.

List Agencies and Other Parties Notified:

Was there a Grade 1 Gas Leak? Yes ☐ No ☒

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

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

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

Was there damage during excavation? Yes ☐ No ☐

If YES, was CO 811 notified prior to excavation? Yes ☐ No ☐

SPILL/RELEASE DETAIL REPORTS

#1 Supplemental Report Date: 07/09/2020

FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER	111	72	<input 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): 29 Width of Impact (feet): 12

Depth of Impact (feet BGS): 2 Depth of Impact (inches BGS): 0

How was extent determined?

Direct measurement of saturated soil areas adjacent to the containments.

Soil/Geology Description:

Soil type is silty, sandy gravel. The concrete pump pedestal and containment area was constructed by placing a layer of clean gravel on compacted native soil. The native soil is silty clay.

Depth to Groundwater (feet BGS) 900 Number Water Wells within 1/2 mile radius: 0

If less than 1 mile, distance in feet to nearest

Water Well	None <input checked="" type="checkbox"/>	Surface Water	700	None <input type="checkbox"/>	
Wetlands	None <input checked="" type="checkbox"/>	Springs		None <input checked="" type="checkbox"/>	
Livestock	600	None <input type="checkbox"/>	Occupied Building	1500	None <input type="checkbox"/>

Additional Spill Details Not Provided Above:

Upon discovery of the release of 111 barrels of produced water, the pump and associated piping were isolated. Produced water (72 barrels) was recovered from two (2) of the three (3) secondary containment areas and the sumps. Initial assessment of the impact of the spill included laboratory analysis of soil samples collected from three (3) separate areas: Two (2) soil samples were collected from spill area #1 (adjacent to the produced water pump curbed concrete containment); two (2) soil samples were collected from spill area #2 (adjacent to the glycol pump curbed concrete containment); and one (1) soil sample was collected from spill area #3 (inside the secondary containment of the blowdown tank). Results of the initial sampling showed that Table 910-1 screening levels were not exceeded in samples collected from spill areas #1 and #2. The analytical results of the sample collected from spill area #3 yielded a concentration of TPH (870.3 mg/kg) that exceeded the Table 910-1 screening level of 500 mg/kg. Gravel and soil from spill area #3 was removed using a hydroexcavation unit until there was no visual impact. Two (2) confirmation soil samples were collected from the hydroexcavation area and submitted for laboratory analysis of TPH. One of the confirmation soil samples exceeded the Table 910-1 screening level for TPH. A spill area/soil sample location map is attached to this Form 19 along with a summary table of laboratory analytical results of all soil samples collected.

CORRECTIVE ACTIONS

#1	Supplemental Report Date: 07/09/2020
Root Cause of Spill/Release Equipment Failure	
Other (specify)	
Type of Equipment at Point of Spill/Release: Other	
If "Other" selected above, specify or describe here:	
Produced water pump	
Describe Incident & Root Cause (include specific equipment and point of failure)	
The spill resulted from the failure of the packing on produced water pump 103B located inside a concrete containment area just south of the tank farm.	
Describe measures taken to prevent the problem(s) from reoccurring:	
The frequency of inspections of all triplex pumps with similar packing has been increased to weekly from monthly.	
Volume of Soil Excavated (cubic yards):	20
Disposition of Excavated Soil (attach documentation)	<input checked="" type="checkbox"/> Offsite Disposal Onsite Treatment
	<input type="checkbox"/> Other (specify)
Volume of Impacted Ground Water Removed (bbls):	0
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: 15551

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 Hannigan

Title: EHS Supervisor Date: 07/09/2020 Email: michael_hannigan@kindermorgan.com

COA Type

Description

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Attachment Check List

Att Doc Num

Name

402440173	SITE MAP
402440174	ANALYTICAL RESULTS
402440176	ANALYTICAL RESULTS

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)