

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:

400883149

Date Received:

08/12/2015

Spill report taken by:

CANFIELD, CHRIS

Spill/Release Point ID:

442347

SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

OPERATOR INFORMATION

Name of Operator: <u>DCP MIDSTREAM LP</u>	Operator No: <u>4680</u>	Phone Numbers
Address: <u>370 17TH STREET - SUITE 2500</u>		Phone: <u>(970) 590-6444</u>
City: <u>DENVER</u>	State: <u>CO</u>	Zip: <u>80202</u>
Contact Person: <u>Sam Wood</u>		Mobile: <u>()</u>
		Email: <u>swood@dcpmidstream.com</u>

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 400859200

Initial Report Date: 06/26/2015 Date of Discovery: 06/24/2015 Spill Type: Recent Spill

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SWSW SEC 31 TWP 3N RNG 67W MERIDIAN 6Latitude: 40.182298 Longitude: -104.941596Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: PIPELINE☐ 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): 0Estimated Condensate Spill Volume(bbl): >=1 and <5Estimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): 0Estimated Other E&P Waste Spill Volume(bbl): 0Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: _____

Land Use:

Current Land Use: OTHEROther(Specify): RiverWeather Condition: Sunny and temps in the low 90'sSurface Owner: STATE

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):

A DCP pipeline was broken in the St. Vrain river just south of Highway 66 on WCR 13. An unknown amount of natural gas and condensate was released into the river. The line was immediately shut in and blown down to prevent any more release into the river. No sheen or evidence of condensate was visible, only the temporary bubbling of the natural gas. This incident is currently under investigation and corrective actions being planned. More information and a corrective actions report will be submitted in the 10-day follow up.

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
6/26/2015	Weld County LEPC	Gracie Marquez	-	

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 08/12/2015		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	0	0	<input type="checkbox"/>
CONDENSATE			<input checked="" type="checkbox"/>
PRODUCED WATER	0	0	<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? <u>NO</u> Was an Emergency Pit constructed? <u>NO</u>			
<i>Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>			
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) <input type="checkbox"/> Soil <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet): <u>0</u>		Width of Impact (feet): <u>0</u>	
Depth of Impact (feet BGS): <u>0</u>		Depth of Impact (inches BGS): _____	
How was extent determined?			
At 10:15 a.m. on 6/24/2015, DCP Midstream (DCP) was contacted about a gas leak in the St. Vrain River by Anadarko P* C* (Anadarko). DCP immediately responded to shut in pipelines and visually inspect the damage (see attached timeline). Neither Anadarko, DCP, or any other party involved in this release noticed and sheen or evidence of liquids being released into the river. Using the most recent gas analysis from that pipeline and Promax simulations, we were able to estimate that less than 1 barrel of liquid* was released into the river.			
Soil/Geology Description:			
N/A			
Depth to Groundwater (feet BGS) <u>0</u>		Number Water Wells within 1/2 mile radius: <u>8</u>	
If less than 1 mile, distance in feet to nearest		Water Well <u>900</u> None <input type="checkbox"/>	Surface Water <u>0</u> None <input type="checkbox"/>
		Wetlands <u>0</u> None <input type="checkbox"/>	Springs _____ None <input checked="" type="checkbox"/>
		Livestock _____ None <input checked="" type="checkbox"/>	Occupied Building <u>1100</u> None <input type="checkbox"/>
Additional Spill Details Not Provided Above:			
A timeline of events leading up to investigation was formed during DCP's investigation of the event, please see attached timeline.			

CORRECTIVE ACTIONS

#1	Supplemental Report Date: 08/12/2015
Cause of Spill (Check all that apply)	
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Human Error</div><div><input checked="" type="checkbox"/> Equipment Failure</div><div><input type="checkbox"/> Historical-Unknown</div></div> <div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> Other (specify)</div><div>Weather, flooding</div></div>	
Describe Incident & Root Cause (include specific equipment and point of failure)	
<div style="border: 1px solid black; padding: 5px;">After a thorough investigation was conducted by DCP Midstream, it was determined the 4" pipeline was broken due to "fatigue failure." This "fatigue failure" was caused by several contributing factors. The first factor was on September 17th, 2013, Northern Colorado experienced a 1,000 year flood event which completely changed river bottoms and pathways in many rivers in Weld County including the St. Vrain (see Image01). During this re-shaping, many areas of the St. Vrain river bottom were altered, it is believed because of the altered river bottom a section of DCP pipeline that was originally installed well below the river bottom became exposed. Please see attached graph (Graph01) that shows depths of original installation of the pipe (blue line) and the original river bottom (orange line) in late 2011. With the pipeline exposed since September 2013, the pipeline experienced significant wear from the sands and sediments being moved by the St. Vrain River. This wear wore off the protective coating and started corroding the metal sidewall of pipe (see Image02). During the spring of 2015, Northern Colorado saw more significant flooding, which is believed to have bombarded this pipeline with more sand and larger objects such as rocks and stumps being carried by the high water levels and currents. As you can see, (Image03, Image04) the pipeline saw significant damage and thinning in the pipeline walls which then compromised the strength and durability of the line. Evidence shows the decreased strength and durability of the line caused it to flex back and forth until fatigue caused the pipeline to break, therefore causing the release.</div>	
Describe measures taken to prevent the problem(s) from reoccurring:	
<div style="border: 1px solid black; padding: 5px;">DCP removed the damaged pipeline section, replaced and re-bored the pipeline to safe depths below ground surface. DCP has drafted a revised Gas Pipeline O&M manual to reflect what was learned from this event to prevent further pipeline breaks from the 2013 flooding, 2015 flooding, and any future flooding that may occur in DCP's areas of operation. A few main points of this drafted revision include the following: Identify all locations where pipelines cross or are adjacent to rivers or streams where severe flooding may occur. Evaluate each pipeline crossing at a river to determine if the installation method has the ability to withstand the risks of anticipated flood conditions. During flooding, position key operations personnel in locations where they will be able to respond for pipeline shut down and isolation as needed. After flooding, determine immediately if flooding has caused pipeline exposures or new river channels that impact the depth or cover of pipelines under or near the river. Also, after flooding, surveys of underwater pipelines and pipelines in areas adjacent to rivers will be conducted to determine new depth and cover.</div>	
Volume of Soil Excavated (cubic yards): 0	
Disposition of Excavated Soil (attach documentation)	
<div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Offsite Disposal</div><div><input type="checkbox"/> Onsite Treatment</div></div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Other (specify)</div><div></div></div>	
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: _____

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: Sam Wood
Title: Compliance Coordinator Date: 08/12/2015 Email: swood@dcpmidstream.com

COA Type

Description

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400883149	FORM 19 SUBMITTED
400883204	TOPOGRAPHIC MAP
400883206	OTHER
400883207	OTHER
400883208	OTHER
400883209	OTHER
400883218	OTHER

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Environmental	Spill closed with no further action required at this time, but release from pipeline will be referred to COGCC engineering group for possible follow-up on piepline integrity.	8/19/2015 5:06:03 PM

Total: 1 comment(s)