DCP Midstream Artesia Plant Flare 8.7.21 NMED.OCD Support Documents Calculations file 1.1.8

ARTESIA PLT 5# FLARE

Total MCF 172.42

Event Date (local time)	08/07/21 07:00:00 pm
Reported Date (local time)	08/09/21 10:36:04 am
Discovery Date (local time)	08/07/21 07:00:00 pm
End Date (local time)	08/07/21 09:00:00 pm
Ongoing	No

At 1920 - Foamed on amine contactor and caused contactor outlet scrubber to get a false high level and close PSDV4. Inlet volume was redirected to the eddy co spill to limit the volume of gas flared at the plant while troubleshooting the amine contactor outlet scrubber. At 2030 - Plant back online and off of the flare. Operations blew down the amine contactor outlet scrubber high level switch and were able to clear the interlock on the downstream PSDV-4. Emission event volumes covered under SSM tolerance. Citation 106.a

Amine event occurred rapidly "under seven minutes". Anti-form injection pump verified to be working, DP temps, no process variability etc. to predict this event.

The nature of this event was unpredictable and occurred quickly allowing minimal response time. DCP Midstream by backing out and redirecting volumes, trouble shooting and eliminating a foaming event and clearing false high alarm and clearing an interlock PSDV-4.

u. Detailed driving directions from nearest New Mexico town:
□ **From Artesia: Go 10 miles east on US Highway 82 to County Road 204. Turn south on County Road 204 and travel 3 miles to County Road 206. Take County Road 206 (Illinois Camp Road) south to Artesia Plant.**
GPS: N 32□ 45.363' W 104□ 12.554'

Composition	Parameter	Component	Value
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Carbon Dioxide	0.6478 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Methane	91.7064 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Carbon Monoxide	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Hydrogen Sulfide	0.0076 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Hexane	0.0456 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Butane	1.2512 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Pentane	0.3866 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Heptane	0.002 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	n-Octane	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	n-Nonane	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	n-Decane	0.0071 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Nitrogen	1.6822 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Propane	3.7076 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Ethane	6.215 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Isobutane	0.5081 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Isopentane	0.3725 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Water	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Argon	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Hydrogen	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Helium	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT S4 FLARE - FlowCal Mole%	Oxygen	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Carbon Dioxide	0.573 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Methane	82.732 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Carbon Monoxide	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Hydrogen Sulfide	0.095 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Hexane	0.093 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Butane	3.141 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Pentane	0.279 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Heptane	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	n-Octane	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	n-Nonane	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	n-Decane	0 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Nitrogen	1.612 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Propane	8.797 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Ethane	6.429 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Isobutane	0.515 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Isopentane	0.212 mol %
	08/07/21 07:00:00 pm - ARTESIA PLT TREATER FLARE - FlowCal Mole%	Water	0 mol %

District I
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 40771

QUESTIONS

Operator: DCP OPERATING COMPANY, LP 370 17th Street, Suite 2500 Denver, CO 80202	OGRID: 36785
	Action Number: 40771
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
Was or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a notification of a major venting or flaring	**Yes, minor venting or flaring of natural gas.**
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there or will there be **at least 50 MCF** of natural gas vented or flared during this event	Yes
Did this venting or flaring result in the release of **ANY** liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No

Unregistered Facility Site	
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.	
Facility or Site Name	*Not answered.*
Facility Type	*Not answered.*

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	At 1920 - Foamed on amine contactor and caused contactor outlet scrubber to get a false high level and close PSDV4. Inlet volume was redirected to the eddy co spill to limit the volume of gas flared at the plant while troubleshooting the amine contactor outlet scrubber. At 2030 - Plant back online and off of the flare. Operations blew down the amine contactor outlet scrubber high level switch and were able to clear the interlock on the downstream PSDV-4. Emission event volumes covered under SSM tolerance. Citation 106.a

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	92
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	*Not answered.*
Nitrogen (N2) percentage quality requirement	*Not answered.*
Hydrogen Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	08/07/2021
Time venting or flaring was discovered or commenced	07:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	08/07/2021
Time venting or flaring was terminated	09:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	2
Longest duration of cumulative hours within any 24-hour period during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Other | Gas Plant | Natural Gas Flared | Spilled: 172 Mcf | Recovered: 0 Mcf | Lost: 172 Mcf]
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	*Not answered.*
Is this a gas only submission (i.e. only Mcf values reported)	**Yes, according to supplied volumes this appears to be a "gas only" report.**

Venting or Flaring Resulting from Downstream Activity	
Was or is this venting or flaring a result of downstream activity	*Not answered.*
Date notified of downstream activity requiring this venting or flaring	*Not answered.*

Time notified of downstream activity requiring this venting or flaring	*Not answered.*

Steps and Actions to Prevent Waste	
For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	Amine event occurred rapidly "under seven minutes". Anti-form injection pump verified to be working, DP temps, no process variability etc. to predict this event.
Steps taken to limit the duration and magnitude of venting or flaring	Inlet volume was redirected to the eddy co spill to limit the volume of gas flared at the plant while troubleshooting the amine contactor outlet scrubber. At 2030 - Plant back online and off of the flare. Operations blew down the amine contactor outlet scrubber high level switch and were able to clear the interlock on the downstream PSDV-4. Emission event volumes covered under SSM tolerance. Citation 106.a
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	The nature of this event was unpredictable and occurred quickly allowing minimal response time. DCP Midstream by backing out and redirecting volumes, trouble shooting and eliminating a foaming event and clearing false high alarm and clearing an interlock PSDV-4.

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CONDITIONS

Action 40771

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Operator: DCP OPERATING COMPANY, LP 370 17th Street, Suite 2500 Denver, CO 80202	OGRID: 36785
	Action Number: 40771
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	8/9/2021