

Gas Composition and Properties

Effective March 1, 2023 00:00 - January 18, 2038 21:14

Source #: 139100005
Name: Green Gas North Inlet

Component	Mole %	Liquid Content	Mass %	Property	Total Sample
Carbon Dioxide (CO2)	1.8524		3.6296	Pressure Base	14.65
Nitrogen (N2)	2.9175		3.6388	Temperature Base	60
Methane (C1)	74.8852		53.4871	HCDP @ Sample Pressure	
Ethane (C2)	9.6887	2.5862	12.9708	Cricondentherm	
Propane (C3)	5.5817	1.5348	10.9583	HV, Dry @ Base P, T	1258.16
Isobutane (IC4)	0.8586	0.2804	2.2218	HV, Sat @ Base P, T	1236.14
n-Butane (NC4)	1.9078	0.6003	4.9369	HV, Sat @ Sample P, T	
Isopentane (IC5)	0.5698	0.2080	1.8303	Relative Density	0.7781
n-Pentane (NC5)	0.5642	0.2041	1.8124		
Hexanes Plus (C6+)	0.9924	0.4420	4.2383		
Argon (Ar)					
Carbon Monoxide (CO)					
Hydrogen (H2)					
Oxygen (O2)					
Helium (He)					
Water (H2O)					
Hydrogen Sulfide (H2S)	0.1817		0.2757	C6+: 48 - 36 - 17	
Totals	100.0000	5.8550	100.0000		

Sample

Date: 03/20/2023 Type: Spot
Tech: Paul T
Pressure: 22.6 psi Temp.: 52 °F
Gauge: H2O:
Atm. Pressure: H2S: 1,817 ppm

Remarks:

Analysis

Date: Instrument:
Tech: Cylinder:

Remarks:

*** End of Report ***

Enter data in shaded fields to calculate gas volumes released due to leak and blowdown of system.

Hours of leak =	4.5	Example:
Diameter of hole (inches) =	0.25	Leak for 4 (est) hours out of a 1/4 inch hole with line pressure of 750 psig
Upstream Pressure =	30	
Volume of gas (mcf/hr) loss is equal to the hole diameter squared times the upstream pressure absolute. *		
Volume of Gas Leaked =	12.57 Mcf	

Footage of Pipe blowdown =	14256	
Initial line pressure =	30	Calculated factor for line pack = 6.634
Diameter of Pipe (inches) =	20	
Volume of Gas BlownDown =	94.57 Mcf	Example: Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig

Footage of Pipe blowdown =	500	
Initial line pressure =	30	Calculated factor for line pack = 0.149
Diameter of Pipe (inches) =	3	
Volume of Gas BlownDown =	0.07 Mcf	Example: Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig

Footage of Pipe blowdown =	12144	
Initial line pressure =	30	Calculated factor for line pack = 0.149
Diameter of Pipe (inches) =	3	
Volume of Gas BlownDown =	1.81 Mcf	Example: Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig

Total Volume of Gas Loss =	109.03 Mcf	Reportable	50 Mcf
		Immediate Notification	500 Mcf

Comments:

Name : Amber Groves Title : Sr. Environmental Specialist

* Pipeline Rules of Thumb Handbook /**2nd Edition**

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Oil Conservation Division
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DEFINITIONS

Action 210561

DEFINITIONS

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 210561
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 210561

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	Action Number: 210561
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2123021777] Targa NM Gathering System

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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
Was the vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	75
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	2
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 210561

QUESTIONS (continued)

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	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/20/2023
Time vent or flare was discovered or commenced	10:30 AM
Time vent or flare was terminated	02:00 PM
Cumulative hours during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 109 Mcf Recovered: 0 Mcf Lost: 109 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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 significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Gas was vented atmosphere when a leak was discovered on Targa's 20 inch steel line. The leak was due to corrosion. This pipeline is underground, and the corrosion was not visible. The first sign of corrosion in an underground pipeline is a leak. Furthermore, the only way to make repairs is to depressurize the corroded section of pipeline to atmosphere. This event was beyond Targa's control.
Steps taken to limit the duration and magnitude of vent or flare	The corroded section of pipeline was isolated and depressurized to atmosphere. Once the section of pipeline was fully depressurized, the emission event ended.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The corroded section of pipeline will be replaced. Once the new section of pipeline is verified to be safe to operate, the pipeline will be returned to normal service.

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ACKNOWLEDGMENTS

Action 210561

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ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
amberg	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/25/2023