

Gas Analysis Report

Monument

Plant 118	Lab
Producer CHETEX	Analysis Date 2/7/2022 1:24:00 PM
Meter : Lease 118971 : MONUMENT 13 STATE #17	Analyzed By
Effective Date 2/1/2022 12:00:00 AM	Report No
Field Gravity 0.0000	Sampled By
Line Pressure 42	Sample Taken 2/7/22
Line Flow Rate	Sample Type Spot
Line Temperature 77	Cylinder No

Analysis Results Calculated at 14.65 psia and 60 degrees F

	<u>Mol %</u>	<u>GPM</u>
Nitrogen	1.138	
Carbon Dioxide	1.934	
Oxygen	0.000	
Water	0.000	
Hydrogen Sulfide	2.007	
Helium	0.000	
Methane	67.418	
Ethane	12.460	3.329
Propane	8.990	2.474
Isobutane	1.350	0.441
Normal Butane	2.807	0.884
IsoPentane	0.681	0.249
Normal Pentane	0.602	0.218
Hexane	0.614	0.274
Heptane	0.000	0.000
Octane	0.000	0.000
Total	100.000	7.869

<u>Condition</u>	<u>Real BTU/scf</u>	<u>Ideal BTU/scf</u>	<u>Relative Density</u>	<u>Compressibility (Z)</u>
Water Saturated	1,337.91	0.00	0.843	0.000
Dry	1,361.74	0.00		0.000
As Delivered	0.00	0.00	0.000	0.000
Water Content (lb/mmascfd)	0.00			
Calculated 26/70 Gasoline gpm	1.074			

Remarks:

Printed from Measurement Repository 11/23/22 11:42:06 AM GMT-06:C

Hours of leak =	5.433333	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 =	18	
Volume of gas (mcf/hr) loss is equal to the hole diameter squared times the upstream pressure absolute. *		
Volume of Gas Leaked =	11.10 Mcf	

Footage of Pipe blowdown =	158.4	
Initial line pressure =	18	Calculated factor for line pack = 0.049
Diameter of Pipe (inches) =	2	
Example:		
Volume of Gas BlownDown =	0.01 Mcf	Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig

Footage of Pipe blowdown =	950.4	
Initial line pressure =	18	Calculated factor for line pack = 0.109
Diameter of Pipe (inches) =	3	
Example:		
Volume of Gas BlownDown =	0.10 Mcf	Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig

Footage of Pipe blowdown =	1132.032	
Initial line pressure =	18	Calculated factor for line pack = 0.194
Diameter of Pipe (inches) =	4	
Example:		
Volume of Gas BlownDown =	0.22 Mcf	Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig

Footage of Pipe blowdown =	13411.2	
Initial line pressure =	18	Calculated factor for line pack = 0.437
Diameter of Pipe (inches) =	6	
Example:		
Volume of Gas BlownDown =	5.86 Mcf	Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig

Footage of Pipe blowdown =	19483.2	
Initial line pressure =	18	Calculated factor for line pack = 1.747
Diameter of Pipe (inches) =	12	
Example:		
Volume of Gas BlownDown =	34.04 Mcf	Loss of gas due to blowdown of 7 miles of 12 inch at initial pressure 51 psig

		Reportable	50 Mcf
		Immediate Notification	500 Mcf
Total Volume of Gas Loss =	51.33	Mcf	

Comments:

Name : Joseph Tillman Austin	Title : Environmental Specialist
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* Pipeline Rules of Thumb Handbook /2nd Edition

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DEFINITIONS

Action 161241

DEFINITIONS

Operator: TARGA MIDSTREAM SERVICES LLC 811 Louisiana Street Houston, TX 77002	OGRID: 24650
	Action Number: 161241
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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: <ul style="list-style-type: none">• 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 161241

QUESTIONS

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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 Operator	[24650] TARGA MIDSTREAM SERVICES LLC
Incident Type	Vent
Incident Status	Closure Approved
Incident Well	Unavailable.
Incident Facility	[fAPP2123021777] Targa NM Gathering System
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

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	No
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 withing 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	67
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	20,070
Carbon Dioxide (C02) 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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sufide (H2S) PPM quality requirement	0
Carbon Dioxide (C02) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0

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QUESTIONS, Page 2

Action 161241

QUESTIONS (continued)

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	Action Number: 161241
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/14/2022
Time vent or flare was discovered or commenced	10:34 AM
Time vent or flare was terminated	04:00 PM
Cumulative hours during this event	5

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Pipeline (Any) Natural Gas Vented Released: 51 MCF Recovered: 0 MCF Lost: 51 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	No
Downstream OGRID that should have notified this operator	0
Date notified of downstream activity requiring this vent or flare	
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 to atmosphere when a leak formed on Targa's 12-inch steel gathering pipeline. The leak was caused by internal corrosion. The first sign of internal corrosion on a pipeline is the formation of a leak. This event was unavoidable and was beyond Targa's control.
Steps taken to limit the duration and magnitude of vent or flare	Gas was vented until the section of pipeline with the leak was isolated.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Once the section of pipeline with the leak was isolated, the venting event stopped. The section of pipeline with the leak was replaced. The pipeline section was returned to service, and normal operation resumed.

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ACKNOWLEDGMENTS

Action 161241

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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
tillmana	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	11/23/2022