



# Certificate of Analysis

Number: 6030-22080450-001A

**Artesia Laboratory**  
 200 E Main St.  
 Artesia, NM 88210  
 Phone 575-746-3481

Tom Cleveland  
 Lucid Energy Group  
 3100 McKinnon St. #800  
 Dallas, TX 75201

Aug. 31, 2022

Station Name:	Frac Cat Dishcharge	Sampled By:	Cesar Ramirez
Station Number:	95740	Sample Of:	Gas Spot
Station Location:	Lucid	Sample Date:	08/25/2022 11:35
Type of Sample:	Spot-Cylinder	Sample Conditions:	1162.23 psia, @ 126.24 °F Ambient: 83 °F
Heat Trace Used:	N/A	Effective Date:	08/25/2022 11:35
Sampling Method:	Fill and Purge	Method:	GPA-2261M
Sampling Company:	Lucid	Cylinder No.:	9999-002535
Analyzed:	08/31/2022 09:46:29 by KNF	Instrument:	70104251 (Inficon GC-MicroFusion)
		Last Inst. Cal.:	08/30/2022 0:00 AM

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+ 5.178
Nitrogen	2.009	2.02511	2.621		GPM TOTAL C3+ 2.521
Methane	76.159	76.78058	56.918		GPM TOTAL iC5+ 0.547
Carbon Dioxide	3.071	3.09598	6.296		
Ethane	9.823	9.90354	13.761	2.657	
Propane	4.785	4.82388	9.829	1.333	
Iso-butane	0.627	0.63222	1.698	0.208	
n-Butane	1.359	1.37010	3.680	0.433	
Iso-pentane	0.342	0.34500	1.150	0.127	
n-Pentane	0.369	0.37181	1.240	0.135	
Hexanes Plus	0.647	0.65178	2.807	0.285	
	99.191	100.00000	100.000	5.178	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7496	3.2176
Calculated Molecular Weight	21.64	93.19
Compressibility Factor	0.9964	

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft³ @ 14.73 psia & 60°F**

Real Gas Dry BTU	1206.584	5141.087
Water Sat. Gas Base BTU	1186.06	5051.61
Ideal, Gross HV - Dry at 14.73 psia	1202.29	5141.09
Ideal, Gross HV - Wet	1181.36	5051.61
As Delivered BTU	1203.890	5141.087

**Comments:** H2S Field Content 0 ppm

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

 <b>TARGA</b>	<b>ENVIRONMENTAL INCIDENT</b>	DOU/Northern Delaware
		Pipeline Dept

<b>EVENT DATE:</b> Wednesday 12/14/2022 <b>EVENT TIME START:</b> 10:45 am <b>EVENT TIME END:</b> 12:37 pm	<b>LOCATION:</b> Gutline 16" from Frac Cat to Thistle
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**EVENT DESCRIPTION**

At 10:45 am, Pipeline Techs isolated the 16" Gutline lateral from Frac Cat to Thistle isolation valves to de-pressure the line and prep for inline block valve replacement at Frac Cat. This replacement work is part of the CO2 project that is currently ongoing in the system. The blowdowns occurred at both Thistle and Frac Cat Station areas via vent valves on both ends of this section of the lateral.

**REPAIR METHOD**

**Site Owner/Responder**

Name		Date
Aaron Smith		12-14-2022

**Supervisor**

Name		
Jason Reyes		

Calculated (Pipeline) Volumes						
Blowdown(s)				Purge/Vent		
Reference Meter Number		Blowdown (MCF)	3,475.08	Reference Meter Number		Volume Lost (MCF)
Pipe ID (in)	16in Sch. 30	Length (Feet)	29,833.00	Beginning Date & Time		Vent Duration (Hours)
Begin Press. (PSIG)	1,080.00	End Press. (PSIG)	0.00	Ending Date & Time		Gas Temp
Gas Temp.		Specific Gravity		Pipe ID (in)		Specific Gravity
Elevation (ft)				Orifice Size (in)		Elevation (ft)
				Avg Pressure		

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

DEFINITIONS

Action 170801

**DEFINITIONS**

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 170801
	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:

- 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 170801

**QUESTIONS**

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 170801
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**QUESTIONS**

<b>Prerequisites</b>	
<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	[331548] Targa Northern Delaware, LLC.
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Unavailable.
Incident Facility	[APP2123031392] TARGA NORTHERN DELAWARE, LLC.
<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>	

<b>Determination of Reporting Requirements</b>	
<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, major 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Pipeline (Any)
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	77
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	3
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 (continued)**

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	Action Number: 170801
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**QUESTIONS**

<b>Date(s) and Time(s)</b>	
Date vent or flare was discovered or commenced	12/14/2022
Time vent or flare was discovered or commenced	10:45 AM
Time vent or flare was terminated	12:37 PM
Cumulative hours during this event	2

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Cause: Repair and Maintenance   Pipeline (Any)   Natural Gas Vented   Released: 3,475 Mcf   Recovered: 0 Mcf   Lost: 3,475 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause:     Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0
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.

<b>Venting or Flaring Resulting from Downstream Activity</b>	
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	
Time notified of downstream activity requiring this vent or flare	Not answered.

<b>Steps and Actions to Prevent Waste</b>	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control	False
Please explain reason for why this event was beyond this operator's control	Pipeline Techs isolated the 16" Gutline lateral from Frac Cat to Thistle isolation valves to de-pressure the line and prep for inline block valve replacement at Frac Cat. The original block valve was not seating completely and had to be replaced.
Steps taken to limit the duration and magnitude of vent or flare	Pipeline Technicians isolated the pipeline between the Frac Cat and Thistle to purge the line. The line was purged starting at 10:45 am in order to replace an inline block valve on the pipeline. The emission event ended at 12:37 pm once the line purge was completed.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The original block valve in place was not seating completely so operations replaced the valve. The purging process was necessary as safety measure for operations to perform the block valve replacement. A third party contractor will begin performing preventative maintenance on this block valve on a yearly basis in order to prevent failure of the valve to seat completely.

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ACKNOWLEDGMENTS

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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

Action 170801

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	Action Number: 170801
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**CONDITIONS**

Created By	Condition	Condition Date
jfuentes	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.	12/29/2022