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 Dishcarge	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		

Calculated Physical Properties	Total	C6+
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.

LUCID

Monthly Vent / Blowdown Gas Report

LUC-XX-XX-XXX-XXX
VERSION 2.1: APRIL 6 2022

Please submit this form by the 5th business day of the month following the month the vent/blowdown occurred. Please submit a separate form for each site. All sections should be filled out by field personnel. ***All red fields per event must be entered to calculate volumes correctly!*** ***All yellow fields should be entered if known for increased accuracy.***

Balance/Lateral	*BOOTLEG BALANCE VENT BD*	**Event Month**	*December*
CS/Plant	*Frac Cat CS VENT BD*	**Event Day**	*13*
Employee Name	*Aaron Smith*	**Event Year**	*2022*

Calculated (Pipeline) Volumes

Blowdown(s)

Reference Meter Number		Blowdown (MCF)	1,448.21	Reference Meter Number		Volume Lost (MCF)	18,048.32
Pipe ID (in)	16in Sch. 30	Length (Feet)	11,560.00	Beginning Date & Time	12/13/2022 1517	Vent Duration (Hours)	1.17
Begin Press. (PSIG)	1,144.26	End Press. (PSIG)	0.00	Ending Date & Time	12/13/2022 1627	Gas Temp	
Gas Temp.		Specific Gravity		Pipe ID (in)	16in Sch. 30	Specific Gravity	
Elevation (ft)				Orifice Size (in)	16	Elevation (ft)	
				Avg Pressure	54.00		
Reference Meter Number		Blowdown (MCF)	59.60	Reference Meter Number		Volume Lost (MCF)	
Pipe ID (in)	16in Sch. 30	Length (Feet)	500.00	Beginning Date & Time		Vent Duration (Hours)	
Begin Press. (PSIG)	1,100.00	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			
Reference Meter Number		Blowdown (MCF)	36.71	Reference Meter Number		Volume Lost (MCF)	
Pipe ID (in)	16in Sch. 30	Length (Feet)	500.00	Beginning Date & Time		Vent Duration (Hours)	
Begin Press. (PSIG)	735.14	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			

Known (Station) Volumes

Volumes must be known to calculate correctly!

Type of Blowdown	Number of Occurances		Known Volume (MCF) Blowdown		Volume (MCF)
		Multiplied by		Equals	
		Multiplied by		Equals	
		Multiplied by		Equals	
			Total Volume (MCF):		19,592.84

Comments:

e-pressured 16" Gutline from Gnome isolation block valve to Frac Cat station for Construction to tie in Auto launcher to Double Draw syste

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District IV
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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

DEFINITIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 167023
	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 167023

QUESTIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 167023
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	*Unavailable.*
Incident Facility	**[fAPP2123031392] TARGA NORTHERN DELAWARE, LLC.**

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 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.**
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.	
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	Pipeline (Any)
Additional details for Equipment Involved. Please specify	*Not answered.*

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	77
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	3
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.*

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QUESTIONS (continued)

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 167023
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/13/2022
Time vent or flare was discovered or commenced	03:17 PM
Time vent or flare was terminated	04:27 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Commissioning to Purge | Pipeline (Any) | Natural Gas Vented | Released: 19,593 Mcf | Recovered: 0 Mcf | Lost: 19,593 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.	False
Please explain reason for why this event was beyond this operator's control	The pipeline was isolated and blown down in order to tie in an automatic pig launcher.
Steps taken to limit the duration and magnitude of vent or flare	All possible steps were taken to limit the duration and magnitude of this venting event.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	There are no practicable corrective actions as this event was necessary to purge the pipeline for a new pipeline connection to be completed.

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ACKNOWLEDGMENTS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 167023
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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

Action 167023

CONDITIONS

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	Action Number: 167023
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
jfuentes	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.	12/28/2022