



Certificate of Analysis

Number: 6030-22090085-001A

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

Sep. 09, 2022

Station Name: MUSKIE 23 CRP
Station Number: 14824
Sample Point: Meter Run
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: Lucid
Analyzed: 09/09/2022 06:40:14 by EBH

Sampled By: Marcelo Campos
Sample Of: Gas Spot
Sample Date: 09/08/2022 10:56
Sample Conditions: 148.1 psia, @ 114.08 °F
Effective Date: 09/08/2022 10:56
Method: GPA-2261M
Cylinder No: 9999-002544
Instrument: 70104251 (Inficon GC-MicroFusion)
Last Inst. Cal.: 09/07/2022 0:00 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.00500	0.007		GPM TOTAL C2+	6.991
Nitrogen	1.574	1.59268	1.740		GPM TOTAL C3+	4.810
Methane	69.018	69.81893	43.692		GPM TOTAL iC5+	2.022
Carbon Dioxide	5.964	6.03325	10.357			
Ethane	8.022	8.11535	9.519	2.181		
Propane	5.171	5.23145	8.998	1.448		
Iso-butane	1.331	1.34656	3.053	0.443		
n-Butane	2.798	2.83089	6.418	0.897		
Iso-pentane	1.193	1.20675	3.396	0.443		
n-Pentane	1.280	1.29507	3.645	0.472		
Hexanes Plus	2.495	2.52407	9.175	1.107		
	98.846	100.00000	100.000	6.991		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8894	3.2176
Calculated Molecular Weight	25.64	93.19
Compressibility Factor	0.9949	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1356.335	5141.087
Water Sat. Gas Base BTU	1333.33	5051.61
Ideal, Gross HV - Dry at 14.73 psia	1349.37	5141.09
Ideal, Gross HV - Wet	1325.88	5051.61
As Delivered BTU	1342.981	5141.087

Comments: H2S Field Content 50 ppm

Hydrocarbon Laboratory Manager

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



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.**

Month Blowdown Occurred June Year 2023
 Site RATTLESNAKE CF Employee Name Kain Fierro

Calculated (Pipeline) Volumes

Blowdown(s)				Purge/Vent			
Reference Meter Number		Blowdown (MCF)	<u>27.85</u>	Reference Meter Number		Volume Lost (MCF)	<u>316.73</u>
Pipe ID (in)	<u>12in Sch. 80</u>	Length (Feet)	<u>6,000.00</u>	Beginning Date & Time	<u>06/06/2023 1500</u>	Vent Duration (Hours)	<u>0.67</u>
Begin Press. (PSIG)	<u>95.00</u>	End Press. (PSIG)	<u>0.00</u>	Ending Date & Time	<u>06/06/2023 1540</u>	Gas Temp	
Gas Temp.		Specific Gravity		Pipe ID (in)	<u>12in Sch. 80</u>	Specific Gravity	
Elevation (ft)				Orifice Size (in)	<u>3.5</u>	Elevation (ft)	
				Avg Pressure	<u>30.00</u>		
Reference Meter Number		Blowdown (MCF)		Reference Meter Number		Volume Lost (MCF)	
Pipe ID (in)		Length (Feet)		Beginning Date & Time		Vent Duration (Hours)	
Begin Press. (PSIG)		End Press. (PSIG)		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)		Reference Meter Number		Volume Lost (MCF)	
Pipe ID (in)		Length (Feet)		Beginning Date & Time		Vent Duration (Hours)	
Begin Press. (PSIG)		End Press. (PSIG)		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 Occurrences		Known Volume (MCF) Blowdown		Volume (MCF)
		Multiplied by		Equals	
		Multiplied by		Equals	
		Multiplied by		Equals	

Total Volume (MCF): 344.58

Comments:

Blew down and purged the Muskie 23 lateral for the Muskie CTB 6 tie in.

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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

DEFINITIONS

Action 229081

DEFINITIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 229081
	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 229081

QUESTIONS

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	Action Number: 229081
	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 additional 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, minor 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 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 Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	69
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	6
Oxygen (O2) 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 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 229081

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/06/2023
Time vent or flare was discovered or commenced	03:00 PM
Time vent or flare was terminated	03:40 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: 345 Mcf Recovered: 0 Mcf Lost: 345 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 to atmosphere to purge the pipeline to allow for a tie in on the Muskie line. Blowdown and purging is done for the safety of personnel during tie in activities.
Steps taken to limit the duration and magnitude of vent or flare	Gas was vented until the pipeline was purged. This was done in as timely as possible to reduce duration of the emission event.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The section of pipeline was purged and the emission event ended. Once the emission event ended, and tie in complete and checked for safety, the line was put back into service.

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ACKNOWLEDGMENTS

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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.	6/16/2023