



Certificate of Analysis

Number: 6030-23040022-013A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Station Name: Grama Ridge CDP
 Station Number: 14444
 Station Location: Lucid
 Sample Point: Downstream
 Type of Sample: Spot-Cylinder
 Heat Trace Used: N/A
 Sampling Method: Fill and Purge
 Sampling Company: Lucid
 Analyzed: 04/11/2023 14:20:36 by EBH

Apr. 12, 2023
 Sampled By: Cesar Ramirez
 Sample Of: Gas Spot
 Sample Date: 03/24/2023 09:26
 Sample Conditions: 206.53 psia, @ 65.17 °F Ambient: 57 °F
 Effective Date: 03/24/2023 09:26
 PO/Ref. No: TAR271547
 Method: GPA-2261M
 Cylinder No: 9999-002252
 Instrument: 70104251 (Inficon GC-MicroFusion)
 Last Inst. Cal.: 04/10/2023 0:00 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Nitrogen	1.566	1.59641	2.165		GPM TOTAL C2+
Methane	78.363	79.91026	62.060		GPM TOTAL C3+
Carbon Dioxide	0.357	0.36436	0.776		GPM TOTAL iC5+
Ethane	10.357	10.56173	15.374	2.834	
Propane	4.553	4.64311	9.911	1.283	
Iso-butane	0.509	0.51875	1.460	0.170	
n-Butane	1.182	1.20544	3.392	0.381	
Iso-pentane	0.266	0.27156	0.948	0.100	
n-Pentane	0.264	0.26942	0.941	0.098	
Hexanes Plus	0.646	0.65896	2.973	0.288	
	98.063	100.00000	100.000	5.154	

Calculated Physical Properties

Relative Density Real Gas	0.7154	C6+	3.2176
Calculated Molecular Weight	20.66		93.19
Compressibility Factor	0.9966		

GPA 2172 Calculation:

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

Real Gas Dry BTU	1229.513	5141.087
Water Sat. Gas Base BTU	1208.60	5051.61
Ideal, Gross HV - Dry at 14.73 psia	1225.32	5141.09
Ideal, Gross HV - Wet	1203.99	5051.61
As Delivered BTU	1227.546	5141.087

Hydrocarbon Laboratory Manager

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



TARGA

NDL Blowdown/Vent Estimate

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.

Date of Occurrence (m/d/yyyy)

11/1/2023

Reported By (First and Last Name)

Willie Pierce

Site (Select)

FIELD - FRAC CAT BALANCE

If "FIELD" for Site, Pipe Name

Grama Ridge 8"

Calculated Volumes

Blowdown(s)				Purge/Vent			
Reference Meter Number		Blowdown (MCF)	74.19	Reference Meter Number		Volume Lost (MCF)	11.63
Pipe ID (in)	8in Sch. 80	Length (Feet)	17,000.00	Beginning Date & Time	11/01/2023 1400	Vent Duration (Hours)	0.75
Begin Press. (PSIG)	195.00	End Press. (PSIG)	0.00	Ending Date & Time	11/01/2023 1445	Gas Temp	
Gas Temp.		Specific Gravity		Pipe ID (in)	8in Sch. 80	Specific Gravity	
Elevation (ft)				Orifice Size (in)	2	Elevation (ft)	
				Avg Pressure	30.00		
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	
		Multiplied by	
		Multiplied by	

Total Volume (MCF):

85.83

Comments:

Blow down/pruge Gramma Ridge line for tie in. It is behind the Greyhound Compressor Station.

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Phone:(575) 748-1283 Fax:(575) 748-9720
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 286422

DEFINITIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 286422
	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: <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 286422

QUESTIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 286422
	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	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	80
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	0
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 286422

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	11/01/2023
Time vent or flare was discovered or commenced	06:30 AM
Time vent or flare was terminated	02:45 PM
Cumulative hours during this event	2

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: 86 Mcf Recovered: 0 Mcf Lost: 86 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 when the Grama Ridge line was depressurized to prepare for a pipeline tie in. It was necessary to depressurize the line to safely perform the pipeline tie in. Gas was vented until the section of pipeline was depressurized. Once the line was depressurized, the pipeline tie-in work was performed and completed. The line was then purged to removed oxygen from the line for the safety of personnel and equipment.
Steps taken to limit the duration and magnitude of vent or flare	Gas was vented until the section of pipeline was depressurized. The pipeline tie-in work was completed, and the line was the purged to removed oxygen from the line for the safety of personnel and equipment.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The pipeline tie-in was completed and the line was purged to removed oxygen. The purging process was completed and the emission event ended.

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ACKNOWLEDGMENTS

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

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<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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	Action Number: 286422
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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.	11/16/2023