



Certificate of Analysis

Number: 6030-23070127-015A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Ray Glidewell
Targa Resources
1 Mile North NM Hwy 248
Eunice, NM 88231

July 19, 2023

Station Name: Hackberry Discharge

Station Number: 95752

Station Location: Lucid

Cylinder No: 9999-002395

Instrument: 70104251 (Inficon GC-MicroFusion)

Last Inst. Cal.: 07/17/2023 0:00 AM

Analyzed: 07/19/2023 10:14:16 by EBH

Sampled By: Cody Mullins

Sample Of: Gas Spot

Sample Date: 07/13/2023 12:39

Sample Conditions: 1080.69 psia, @ 149.35 °F Ambient: 103 °F

Effective Date: 07/13/2023 12:39

PO/Ref. No: TAR303273

Method: GPA-2261M

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0000	0.0000	0.0000		GPM TOTAL C2+ 5.243
Nitrogen	1.0047	0.9812	1.3324		GPM TOTAL C3+ 2.315
Methane	81.8948	79.9776	62.1943		GPM TOTAL iC5+ 0.415
Carbon Dioxide	0.5243	0.5120	1.0923		
Ethane	11.1747	10.9131	15.9066	2.928	
Propane	4.7221	4.6116	9.8573	1.275	
Iso-butane	0.6054	0.5912	1.6657	0.194	
n-Butane	1.3947	1.3620	3.8373	0.431	
Iso-pentane	0.2997	0.2927	1.0237	0.107	
n-Pentane	0.3377	0.3298	1.1534	0.120	
Hexanes Plus	0.4391	0.4288	1.9370	0.188	
	102.3972	100.0000	100.0000	5.243	

Calculated Physical Properties

Relative Density Real Gas

Total

0.7145

C6+

3.2176

Calculated Molecular Weight

20.63

93.19

Compressibility Factor

0.9966

GPA 2172 Calculation:

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

Real Gas Dry BTU

1235

5141

Water Sat. Gas Base BTU

1214

5052

Ideal, Gross HV - Dry at 14.73 psia

1230.4

5141.1

Ideal, Gross HV - Wet

1208.9

5051.6

Hydrocarbon Laboratory Manager

Quality Assurance:

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

Big Lizard Flow for Modeling	90,000.00
Big Lizard Measured Vent When Liquids Handling is Bypassed	125.00
Modeling Factor	0.001389

Event	Start Time	End Time	Duration	Avg Flow	Mcf Vented
1	8/26/23 5:18 PM	8/26/23 8:33 PM	3.2	17,522.72	3.30
2	8/27/23 2:48 PM	8/27/23 4:48 PM	2.0	17,380.00	2.01
3	8/28/23 6:19 PM	8/28/23 10:33 PM	4.2	17,105.74	4.19
4	8/29/23 1:34 AM	8/29/23 8:33 PM	19.0	10,740.26	11.80
5	8/30/23 12:03 PM	8/30/23 11:59 PM	11.9	13,604.51	9.39
6	8/31/23 12:00 AM	8/31/23 1:49 AM	1.8	13,604.51	1.44
7	8/31/23 7:21 AM	8/31/23 11:33 AM	4.2	11,186.27	2.72
8	9/1/23 1:34 AM	9/1/23 2:33 AM	1.0	11,844.62	0.68
9	9/3/23 2:18 AM	9/3/23 9:18 AM	7.0	8,190.03	3.32
10	9/3/23 4:33 PM	9/3/23 7:03 PM	2.5	14,574.57	2.11
11	9/3/23 8:18 PM	9/3/23 9:48 PM	1.5	11,657.83	1.02
12	9/4/23 3:33 AM	9/4/23 8:20 AM	4.8	8,868.53	2.45
13	9/4/23 5:34 PM	9/4/23 9:03 PM	3.5	12,439.00	2.51
14	9/8/23 4:48 PM	9/8/23 8:33 PM	3.8	18,853.43	4.09
15	9/13/23 6:48 PM	9/13/23 11:59 PM	5.2	18,118.31	5.43
16	9/14/23 12:00 AM	9/14/23 1:23 AM	1.4	18,118.31	1.46
17	9/16/23 7:08 AM	9/16/23 7:13 AM	0.1	14,644.54	0.08
18	9/16/23 11:08 AM	9/16/23 11:59 PM	12.8	17,761.33	13.20
19	9/17/23 12:00 AM	9/17/23 12:19 PM	12.3	17,761.33	12.68
20	9/18/23 10:18 AM	9/18/23 10:24 AM	0.1	12,510.29	0.07
21	9/20/23 4:13 PM	9/20/23 11:59 PM	7.8	19,344.60	8.69
22	9/21/23 12:00 AM	9/21/23 4:23 AM	4.4	19,344.60	4.91
23	9/21/23 8:39 AM	9/21/23 11:18 AM	2.7	16,328.42	2.51
24	9/22/23 4:47 PM	9/22/23 7:27 PM	2.7	19,311.71	2.98
25	9/23/23 8:08 AM	9/23/23 12:23 PM	4.2	20,156.72	4.95
26	9/24/23 12:38 PM	9/24/23 1:03 PM	0.4	20,919.95	0.50
27	9/25/23 1:43 AM	9/25/23 11:07 AM	9.4	18,737.62	10.19
28	9/25/23 9:58 PM	9/25/23 11:59 PM	2.0	19,185.17	2.23
29	9/26/23 12:00 AM	9/26/23 12:53 AM	0.9	19,185.17	0.99
30	9/26/23 6:03 AM	9/26/23 9:07 AM	3.1	18,706.77	3.33
31	9/27/23 3:57 PM	9/27/23 9:18 PM	5.3	23,860.93	7.38
32	9/28/23 11:08 AM	9/28/23 11:58 AM	0.8	22,636.60	1.08
146.0					133.67

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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 363081

DEFINITIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 363081
	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 363081

QUESTIONS

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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	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, answer to "eight hours or more" suggests this is at least a minor event.
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	No
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 Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	82
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	1
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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 363081

QUESTIONS (continued)

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	Action Number: 363081
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/17/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	12:19 PM
Cumulative hours during this event	12

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Gas Compressor Station Natural Gas Vented Released: 13 Mcf Recovered: 0 Mcf Lost: 13 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	Venting occurred from a slop tank at Hackberry Compressor Station as the result of a thief hatch malfunction. Thief hatches are designed to relieve tank pressure and come equipped with a keeper pin on the closure. The keeper pin on the closure of the thief hatch malfunctioned causing gas to be vented to atmosphere.
Steps taken to limit the duration and magnitude of vent or flare	Operations personnel replaced the thief hatch on the slop tank.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The thief hatch on the slop tank was replaced and once determined to be safely operated, the emission event ended.

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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

Action 363081

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	Action Number: 363081
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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.	7/11/2024