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EXTENDED GAS REPORT
SUMMARY OF CHROMATOGRAPHIC ANALYSIS

Sample Name:	Big Lizard Dehy	**For:**	20675G
Sample Date:	04/10/2024	**Cyl. Ident.:**	20254088297
Sampled By:	OD	**Company:**	Targa Midstream
Time Sampled:	09:40	**Analysis Date:**	04/12/2024
Sample Temp:	F	**Analysis By:**	BH
Sample Press:	0.0	**Data File:**	LS1_0499.D

H2S (PPM) = 1.0

Component	Mole%	GPM REAL	GPM IDEAL
H2S	0.000		
Nitrogen	2.219		
Methane	74.893		
CO2	1.745		
Ethane	11.206	2.996	2.989
Propane	5.828	1.605	1.601
Isobutane	0.753	0.246	0.246
N-Butane	1.772	0.559	0.557
Isopentane	0.441	0.161	0.161
N-Pentane	0.453	0.164	0.164
Hexanes+	0.690	0.279	0.277
Total	100.000	6.010	5.995

CALCULATED PARAMETERS

TOTAL ANALYSIS SUMMARY

MOLE WT:	22.088
VAPOR PRESS PSIA:	3846.9
SPECIFIC GRAVITY	
AIR = 1 (REAL):	0.7650
AIR = 1 (IDEAL):	0.7625
H2O = 1 (IDEAL):	0.364
REPORTED BASIS:	14.73
Unnormalized Total:	100.143

HEATING VALUE

BTU/CUFT (DRY)	1261.2
BTU/CUFT (WET)	1239.8

BTEX SUMMARY

WT% BENZENE	6.524
WT% TOLUENE	5.113
WT% E BENZENE	0.505
WT% XYLENES	1.684

LAB MANAGER

LABORATORY SERVICES Natural Gas Analysis

575.397.3713 2609 W MARLAND HOBBS, NEW MEXICO 88240

Sample Name: Big Lizard Dehy
Company: Targa Midstream

Data File: LS1_0499.D

*ANALYSIS OF HEXANES PLUS

Component	MOLE%	WT%
2,2 DIMETHYL BUTANE	0.004	0.014
CYCLOPENTANE	0.031	0.111
2-METHYLPENTANE	0.090	0.350
3-METHYLPENTANE	0.050	0.194
HEXANE (C6)	0.112	0.430
DIMETHYLPENTANES	0.002	0.009
METHYLCYCLOPENTANE	0.049	0.187
2,2,3 TRIMETHYLBUTANE	0.000	0.000
BENZENE	0.042	0.149
CYCLOHEXANE	0.070	0.268
2-METHYLHEXANE	0.014	0.064
3-METHYLHEXANE	0.021	0.093
DIMETHYCYCLOPENTANES	0.000	0.000
HEPTANE (C7)	0.032	0.145
METHYLCYCLOHEXANE	0.051	0.229
2,5 DIMETHYLHEXANE	0.001	0.005
TOLUENE	0.035	0.147
2-METHYLHEPTANE	0.009	0.045
OTHER OCTANES	0.016	0.082
OCTANE (C8)	0.010	0.049
ETHYLCYCLOHEXANE	0.003	0.016
ETHYL BENZENE	0.003	0.013
M,P-XYLENE	0.008	0.041
O-XYLENE	0.002	0.010
OTHER NONANES	0.005	0.035
NONANE (C-9)	0.003	0.020
IC3 BENZENE	0.000	0.000
CYCLOOCTANE	0.001	0.005
NC3 BENZENE	0.000	0.002
TM BENZENE(S)	0.000	0.000
IC4 BENZENE	0.001	0.004
NC4 BENZENE	0.000	0.001
DECANES + (C10+)	0.010	0.069

*HEXANES PLUS SUMMARY

AVG MOLE WT	91.517
VAPOR PRESS PSIA	9.860
API GRAVITY @ 60F	64.8
SPECIFIC GRAVITY	
AIR = 1 (IDEAL):	2.975
H2O = 1 (IDEAL):	0.721

COMPONENT RATIOS

HEXANES (C6) MOLE%	41.244
HEPTANES (C7) MOLE%	35.492
OCTANES (C8) MOLE%	17.584
NONANES (C9) MOLE%	3.771
DECANES+ (C10+) MOLE%	1.909
HEXANES (C6) WT%	38.440
HEPTANES (C7) WT%	34.543
OCTANES (C8) WT%	19.439
NONANES (C9) WT%	4.719
DECANES+ (C10+) WT%	2.859

Remarks: spot

* Hexane+ portion calculated by Allocation Process

Hackberry

10 Apr 2024, 5:00 PM CDT[1]
1854 MCF/day (1112 – 2596 MCF/day)

	EMISSION SOURCE: 1654
	OBSERVATION ID: 8177
	LOCATION: 32.08281 N, 104.20329 W
	DETECTION COUNT: 2
	DETECTION TIME: 10 Apr 2024, 4:54 PM CDT – 10 Apr 2024, 5:00 PM CDT
	EMISSION RATE: [2] 1055 MCF/day (633 – 1477 MCF/day)
	BUID: DOU
	MAXIMO ASSET NUMBER: 2002550
	MAXIMO LOCATION: CS-HCB
	NOTES: Maintenance equipment appears to be on-site at time of flyover.

1. *Red dot indicates the probable source of the methane plume.*
2. *Emission rates presented have error bars of +/- 40%, as quantified in Sherwin et. al., 2021.*

Additional Images – Hackberry

10 Apr 2024, 4:54 PM CDT
255 MCF/day (153 – 357 MCF/day)

Big Lizard

10 Apr 2024, 12:16 PM CDT
1289 MCF/day (773 – 1805 MCF/day)

EMISSION SOURCE:	24297
OBSERVATION ID:	8219
LOCATION:	32.30838 N, 103.62097 W
DETECTION COUNT:	3
DETECTION TIME:	10 Apr 2024, 11:20 AM CDT – 10 Apr 2024, 12:18 PM CDT
EMISSION RATE: [1]	1034 MCF/day (620 – 1448 MCF/day)
BUID:	DOU
MAXIMO ASSET NUMBER:	2002537
MAXIMO LOCATION:	CS-BLZ

1. *Emission rates presented have error bars of +/- 40%, as quantified in Sherwin et. al., 2021.*

Additional Images – Big Lizard

10 Apr 2024, 11:20 AM CDT
924 MCF/day (554 – 1294 MCF/day)

10 Apr 2024, 12:18 PM CDT
890 MCF/day (534 – 1246 MCF/day)

Coyote

10 Apr 2024, 12:16 PM CDT
398 MCF/day (239 – 557 MCF/day)

	EMISSION SOURCE: 25210
	OBSERVATION ID: 8203
	LOCATION: 32.15009 N, 104.19894 W
	DETECTION COUNT: 1
	DETECTION TIME: 10 Apr 2024, 12:16 PM CDT
	EMISSION RATE: [1] 398 MCF/day (239 – 557 MCF/day)
	BUID: DOU
	MAXIMO ASSET NUMBER: 2002544
	MAXIMO LOCATION: CS-CYE
	NOTES: This emission is located at the same asset as EID 25209 (also included in this report); however, it appears to be a separate emission coming from another area.

1. *Emission rates presented have error bars of +/- 40%, as quantified in Sherwin et. al., 2021.*

Coyote

10 Apr 2024, 12:16 PM CDT
334 MCF/day (200 – 468 MCF/day)

	EMISSION SOURCE: 25209
	OBSERVATION ID: 8202
	LOCATION: 32.15098 N, 104.19760 W
	DETECTION COUNT: 2
	DETECTION TIME: 10 Apr 2024, 12:16 PM CDT – 10 Apr 2024, 12:44 PM CDT
	EMISSION RATE: [1] 323 MCF/day (194 – 452 MCF/day)
	BUID: DOU
	MAXIMO ASSET NUMBER: 2002544
	MAXIMO LOCATION: CS-CYE
	NOTES: This emission is located at the same asset as EID 25210 (also included in this report); however, it appears to be a separate emission coming from another area.

1. *Emission rates presented have error bars of +/- 40%, as quantified in Sherwin et. al., 2021.*

Additional Images – Coyote

10 Apr 2024, 12:44 PM CDT
312 MCF/day (187 – 437 MCF/day)

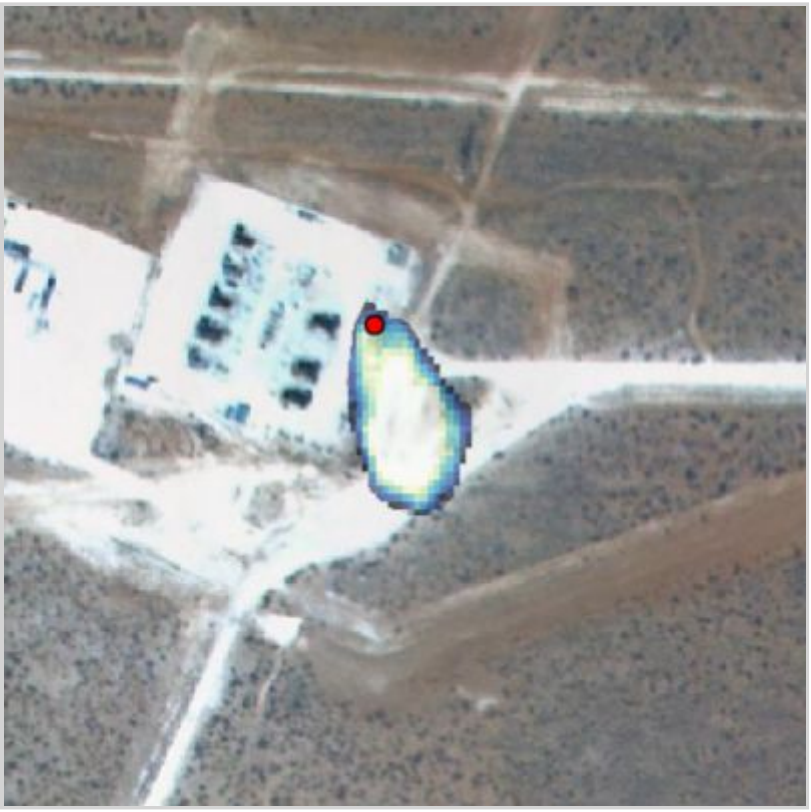
Greyhound

10 Apr 2024, 2:44 PM CDT
141 MCF/day (85 – 197 MCF/day)

EMISSION SOURCE:	20315
OBSERVATION ID:	8232
LOCATION:	32.35474 N, 103.45057 W
DETECTION COUNT:	1
DETECTION TIME:	10 Apr 2024, 2:44 PM CDT
EMISSION RATE: [1]	141 MCF/day (85 – 197 MCF/day)
BUID:	DOU
MAXIMO ASSET NUMBER:	2002549
MAXIMO LOCATION:	CS-GHD
NOTES:	This source appears to be intermittent, as methane was not detected in every flyover pass.

1. *Emission rates presented have error bars of +/- 40%, as quantified in Sherwin et. al., 2021.*

Frac Cat



10 Apr 2024, 2:27 PM CDT
133 MCF/day (80 – 186 MCF/day)

	EMISSION SOURCE: 7884
	OBSERVATION ID: 8211
	LOCATION: 32.20064 N, 103.68319 W
	DETECTION COUNT: 1
	DETECTION TIME: 10 Apr 2024, 2:27 PM CDT
	EMISSION RATE: [1] 133 MCF/day (80 – 186 MCF/day)
	BUID: DOU
	MAXIMO ASSET NUMBER: 2002547
	MAXIMO LOCATION: CS-FCT

1. *Emission rates presented have error bars of +/- 40%, as quantified in Sherwin et. al., 2021.*

Eider

10 Apr 2024, 3:03 PM CDT
178 MCF/day (107 – 249 MCF/day)

EMISSION SOURCE: 20057
OBSERVATION ID: 8209
LOCATION: 32.17039 N, 103.65361 W
DETECTION COUNT: 2
DETECTION TIME: 10 Apr 2024, 2:58 PM CDT – 10 Apr 2024, 3:03 PM CDT
EMISSION RATE: [1] 124 MCF/day (74 – 174 MCF/day)
BUID: DOU
MAXIMO ASSET NUMBER: 50563437
MAXIMO LOCATION: CS-EDR
NOTES: Maintenance equipment appears to be on-site at time of flyover.

1. *Emission rates presented have error bars of +/- 40%, as quantified in Sherwin et. al., 2021.*

Additional Images – Eider

10 Apr 2024, 2:58 PM CDT
70 MCF/day (42 – 98 MCF/day)

Humidor

10 Apr 2024, 11:14 AM CDT
69 MCF/day (41 – 97 MCF/day)

	EMISSION SOURCE: 3079
	OBSERVATION ID: 8231
	LOCATION: 32.20730 N, 104.15467 W
	DETECTION COUNT: 1
	DETECTION TIME: 10 Apr 2024, 11:14 AM CDT
	EMISSION RATE: [1] 69 MCF/day (41 – 97 MCF/day)
	BUID: DOU
	MAXIMO ASSET NUMBER: 2002551
	MAXIMO LOCATION: CS-HMD

1. *Emission rates presented have error bars of +/- 40%, as quantified in Sherwin et. al., 2021.*

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District IV
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State of New Mexico
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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: 341055
	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 341055

QUESTIONS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 341055
	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	Yes
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 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	75
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	2
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: 341055
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/10/2024
Time vent or flare was discovered or commenced	10:00 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Downhole Well Maintenance | Gas Compressor Station | Natural Gas Vented | Released: 88 Mcf | Recovered: 0 Mcf | Lost: 88 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 released to atmosphere from the inlet scrubber. The dump valve system was malfunctioning, and it was necessary to depressurize the inlet scrubber to safely work on the unit.
Steps taken to limit the duration and magnitude of vent or flare	Gas was vented until the dump valve system was repaired, and the inlet scrubber was returned to normal service.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The dump valve system was repaired, and then the inlet scrubber was returned to normal service. Normal operations resumed, and the emission event ended.

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ACKNOWLEDGMENTS

Operator: Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	OGRID: 331548
	Action Number: 341055
	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

Operator:	OGRID:
Targa Northern Delaware, LLC. 110 W. 7th Street, Suite 2300 Tulsa, OK 74119	331548
	Action Number: 341055
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
tillmana	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.	5/6/2024