



Certificate of Analysis

Number: 6030-24050378-004A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Randy Ferrell
3R Operating
4000 N. Big Spring
Ste. 210
Midland, TX 79705

May 23, 2024

Station Name: Morpheus 25-36 CTB Sales
Station Number: 118001390
Station Location: 3R Operating
Sample Point: Meter Run
Instrument: 70142339 (Inficon GC-MicroFusion)
Last Inst. Cal.: 05/20/2024 0:00 AM
Analyzed: 05/23/2024 08:21:13 by EBHSampled By: Ian Pollack
Sample Of: Gas Spot
Sample Date: 05/17/2024
Sample Conditions: 64.6 psig, @ 99.8 °F Ambient: 92 °F
Effective Date: 05/17/2024
Flow Rate:
Method: GPA-2261M
Cylinder No: 5030-01628

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.0000	1.0000	1.2324	
Nitrogen	1.8959	1.8408	1.8648	
Carbon Dioxide	11.3439	11.0144	17.5291	
Methane	59.7424	58.0071	33.6516	
Ethane	12.6300	12.2631	13.3343	3.297
Propane	8.6955	8.4429	13.4629	2.338
Iso-Butane	1.1235	1.0909	2.2929	0.359
n-Butane	3.0259	2.9380	6.1751	0.931
Iso-Pentane	0.8803	0.8547	2.2300	0.314
n-Pentane	0.8999	0.8738	2.2798	0.318
Hexanes	0.7239	0.7029	2.1904	0.291
Heptanes	0.5970	0.5797	2.1005	0.269
Octanes	0.3260	0.3165	1.3074	0.163
Nonanes Plus	0.0775	0.0752	0.3488	0.043
	101.9617	100.0000	100.0000	8.323

Calculated Physical Properties

Calculated Molecular Weight	27.65	C9+
Compressibility Factor	0.9944	
Relative Density Real Gas	0.9598	4.4283

GPA 2172 Calculation:

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

Real Gas Dry BTU	1323.0	7012.5
Water Sat. Gas Base BTU	1300.5	6890.4
Ideal, Gross HV - Dry at 14.73 psia	1315.6	7012.5
Ideal, Gross HV - Wet	1292.6	6890.4

Comments: H2S Field Content 1.0 %

Hydrocarbon Laboratory Manager

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

Calculations for the total Mcf flared

End Meter Volume – the Begin Meter Volume.

***Composition for the gas has been entered into the question portion of the C-129.

If further back up is needed please let us know and will provide requested data.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 461139

DEFINITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 461139
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 461139

QUESTIONS

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	Action Number: 461139
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QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2410032171] Morpheus Facility
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	Yes
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.
<i>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.</i>	
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	Gas Plant
Additional details for Equipment Involved. Please specify	Targa Monument Plant - Shut Down

Representative Compositional Analysis of Vented or Flared Natural Gas	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	60
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	11
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 461139

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/06/2025
Time vent or flare was discovered or commenced	10:22 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours during this event	145

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Gas Plant Natural Gas Flared Released: 1,770 Mcf Recovered: 0 Mcf Lost: 1,770 Mcf.
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	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[24650] TARGA MIDSTREAM SERVICES LLC
Date notified of downstream activity requiring this vent or flare	05/06/2025
Time notified of downstream activity requiring this vent or flare	12:00 PM

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	Although the Targa Monument Plant shut down is beyond operator's control, 3RO has included emissions represented in their air permit to include pipeline downtime.
Steps taken to limit the duration and magnitude of vent or flare	None by the operator. Targa Monument Plant will complete any repairs or maintenance and resume operations as soon as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	None by operator. Plant shut down is outside of their control and a normal part of operations

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☒	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☒	I hereby certify the statements in this amending 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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	Action Number: 461139
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CONDITIONS

Created By	Condition	Condition Date
atramell01	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	5/13/2025