



10700 FM 307
Midland, TX 79706
432-686-2719
www.nattygaslab.com

Gas Analysis Report

Method GPA 2286 **Analyzed On** 8/4/2026
Analysis # 4305
Cylinder # 37 **Analyzed By** Alex Mata

Customer Information

Attn: Jerry Keese
6301 Holiday Hill Rd. Bld 1
Midland, TX 79707

Sample Information

Producer:	SM Energy	Sampled By:	Stefan Carrasco
Well/Lease:	Jr. Mint	Sample Date:	7/29/2026
Station #:	Sales Gas Scrubber	Sample Pressure:	124 psig
County:	Loving	Sample Temperature:	129 F
Sample Type:	Spot	Sample Method:	H2 Pop
Remarks:	-	Field H2S:	700 ppm

Base Condition: 14.65 psia and 60° F

Physical Constants per GPA 2145-16

<u>Component</u>	<u>Mole %</u>	<u>Wt %</u>	<u>GPM</u>
H2S	0.0700	0.0907	
Nitrogen	2.2443	2.3907	
Carbon Dioxide	1.7007	2.8462	
Methane	63.8433	38.9467	
Ethane	12.9522	14.8098	3.464
Propane	9.2060	15.4367	2.536
Iso-Butane	1.6058	3.5491	0.525
N-Butane	4.1658	9.2072	1.313
Iso-Pentane	1.2870	3.5310	0.471
N-Pentane	1.1951	3.2788	0.433
2,3-Dimethylbutane & Cyclopentane	0.0957	0.3136	0.039
N-Hexane	0.3319	1.0876	0.137
Cyclohexane	0.1453	0.4650	0.049
Other Hexanes	0.6267	2.0427	0.248
Heptanes	0.2265	0.8600	0.103
Methylcyclohexane	0.1005	0.3752	0.040
2,2,4-Trimethylpentane	0.0207	0.0899	0.011
Benzene	0.0626	0.1859	0.018
Toluene	0.0360	0.1261	0.012
Ethylbenzene	0.0012	0.0048	0.001
M-Xylene	0.0026	0.0105	0.001
P-Xylene	0.0014	0.0057	0.001
O-Xylene	0.0007	0.0028	0.000
Other Octanes	0.0647	0.2774	0.032
Nonanes	0.0121	0.0592	0.007



Decanes +	0.0012	0.0067	0.001
Total	100.0000	100.0000	9.441

Sample Calculations**C10+ Calculations****Gross Heating Value (BTU/ft³)**

<u>Dry</u>	<u>Wet</u>	
1473.2	1447.4	Ideal
1481.5	1456.3	Real

Dry Compressibility Factor (Z)

0.9944

Dry Specific Gravity (air=1.000)

0.9080	Ideal
0.9127	Real

C10+ Dry Specific Gravity (air=1.000)

5.0917	Ideal
5.1183	Real

Molecular Weight

26.30

C10+ Molecular Weight

147.45

FLARING SUMMARY

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start		End	

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 618048

DEFINITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 618048
	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 618048

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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 Well	[30-025-54739] JUNIOR MINT FEDERAL #131H
<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	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, 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	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

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	64
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	700
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/16/2026
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	9

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 Pipeline (Any) Natural Gas Flared Released: 977 Mcf Recovered: 0 Mcf Lost: 977 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	No
Downstream OGRID that should have notified this operator	[331548] Targa Northern Delaware, LLC.
Date notified of downstream activity requiring this vent or flare	
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	The location experienced a malfunction that was not anticipated and the flaring can be attributed to high line pressure from our midstream provider. Due to the inability for midstream to take gas, flaring was required.*Please note we're reporting the flaring volumes under the Junior Mint #131H until the CTB is registered with the NMOCD.
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with vendor to coordinate service time and minimize downtime.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. No way to avoid periodic downtime for maintenance/repairs to address unforeseen issues.

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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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CONDITIONS

Created By	Condition	Condition Date
mlaruecdh	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.	8/26/2026