



## Certificate of Analysis

Number: 6030-24060725-003A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Kevin Garrett  
Caza Operating  
200 N. Loraine St Ste 1550  
Midland, TX 79701

July 02, 2024

Station Name: Desert Rose 1H  
Station Number: 55650050  
Station Location: Caza  
Sample Point: Meter Run  
Instrument: 6030\_GC2 (Agilent GC-7890B)  
Last Inst. Cal.: 07/01/2024 10:55 AM  
Analyzed: 07/02/2024 12:43:40 by EBH

Sampled By: Eric Sanchez  
Sample Of: Gas Spot  
Sample Date: 06/27/2024 11:00  
Sample Conditions: 66.5 psig, @ 112.4 °F Ambient: 86 °F  
Effective Date: 06/27/2024 11:00  
Flow Rate:  
Method: GPA 2286  
Cylinder No: 1111-007513

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	3.6800	3.7470	4.3500		GPM TOTAL C2+	7.961
Methane	67.5110	68.7380	45.6950		GPM TOTAL C3+	4.322
Carbon Dioxide	0.1660	0.1690	0.3080		GPM TOTAL iC5+	1.311
Ethane	13.3370	13.5790	16.9200	3.639		
Propane	7.0950	7.2240	13.2000	1.994		
Iso-butane	0.7550	0.7690	1.8520	0.252		
n-Butane	2.3780	2.4210	5.8310	0.765		
Iso-pentane	0.6330	0.6450	1.9280	0.236		
n-Pentane	0.7770	0.7910	2.3650	0.287		
Hexanes Plus	1.8830	1.9170	7.5510	0.788		
	98.2150	100.0000	100.0000	7.961		

## Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8365	3.2649
Calculated Molecular Weight	24.13	94.56
Compressibility Factor	0.9954	

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

Real Gas Dry BTU	1381	5070
Water Sat. Gas Base BTU	1357	4981
Ideal, Gross HV - Dry at 14.696 psia	1375.0	5069.7
Ideal, Gross HV - Wet	1351.0	0.000

Hydrocarbon Laboratory Manager

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



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July 02, 2024

Station Name: Desert Rose 1H  
Station Number: 55650050  
Station Location: Caza  
Sample Point: Meter Run  
Analyzed: 07/02/2024 12:42:07 by EBH

Sampled By: Eric Sanchez  
Sample Of: Gas Spot  
Sample Date: 06/27/2024 11:00  
Sample Conditions: 66.5 psig, @ 112.4 °F  
Method: GPA 2286  
Cylinder No: 1111-007513

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	3.747	4.350	
Methane	68.738	45.695	
Carbon Dioxide	0.169	0.308	
Ethane	13.579	16.920	3.639
Propane	7.224	13.200	1.994
Iso-Butane	0.769	1.852	0.252
n-Butane	2.421	5.831	0.765
Iso-Pentane	0.645	1.928	0.236
n-Pentane	0.791	2.365	0.287
i-Hexanes	0.383	1.343	0.152
n-Hexane	0.241	0.856	0.099
Benzene	0.100	0.326	0.028
Cyclohexane	0.179	0.624	0.061
i-Heptanes	0.396	1.513	0.158
n-Heptane	0.087	0.364	0.040
Toluene	0.056	0.219	0.019
i-Octanes	0.271	1.186	0.121
n-Octane	0.027	0.132	0.014
Ethylbenzene	0.011	0.046	0.004
Xylenes	0.025	0.105	0.010
i-Nonanes	0.062	0.319	0.031
n-Nonane	0.016	0.087	0.009
Decanes Plus	0.063	0.431	0.042
	100.000	100.000	7.961



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Midland, TX 79701

July 02, 2024

Station Name:	Desert Rose 1H	Sampled By:	Eric Sanchez
Station Number:	55650050	Sample Of:	Gas Spot
Station Location:	Caza	Sample Date:	06/27/2024 11:00
Sample Point:	Meter Run	Sample Conditions:	66.5 psig, @ 112.4 °F
Analyzed:	07/02/2024 12:42:07 by EBH	Method:	GPA 2286
		Cylinder No:	1111-007513

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.13	157.05
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1381.4	8491.9
Water Sat. Gas Base BTU	1357.3	8305.2
Relative Density Real Gas	0.8365	5.4226
Compressibility Factor	0.9954	
Ideal, Gross HV - Wet	1351.0	
Ideal, Gross HV - Dry at 14.696 psia	1375.0	
Net BTU Dry Gas - real gas	1258	
Net BTU Wet Gas - real gas	1236	

Hydrocarbon Laboratory Manager

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

Caza Flared Gas Calculation  
Desert Rose CTB

input
calculated

Date	8/14/2024
Reported Flared metered Volume (mcf)	253
Last 7 Day Avg metered Gas Production (mcf)	1713.57
% of gas flared vs Produced (% mcf) & (% hrs)	14.8%
Avg Gas prodcuton per hour for 24 hrs (mcf)	71.40
number of hours flare was active (hours)	3.54

source  
pumpers text  
pumpers text  
prodman ctb report

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**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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1220 S. St Francis Dr., Santa Fe, NM 87505  
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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 375219

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 375219
	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"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 375219

**QUESTIONS**

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 375219
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b> 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	[30-025-42972] DESERT ROSE 17 8 FEDERAL COM #001H
Incident Facility	Unavailable.

<b>Determination of Reporting Requirements</b> 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	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

<b>Equipment Involved</b>	
Primary Equipment Involved	Gas Plant
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	69
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	0
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, Page 2  
  
Action 375219

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 375219
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/14/2024
Time vent or flare was discovered or commenced	11:15 AM
Time vent or flare was terminated	03:15 PM
Cumulative hours during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Gas Plant   Natural Gas Flared   Released: 253 Mcf   Recovered: 0 Mcf   Lost: 253 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	[24650] TARGA MIDSTREAM SERVICES LLC
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	Downstream operator had gas plant shut down.
Steps taken to limit the duration and magnitude of vent or flare	Flare minimal mcf
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Downstream operator had gas plant shut down.





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ACKNOWLEDGMENTS  
  
Action 375219

ACKNOWLEDGMENTS

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	Action Number: 375219
	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 <b>complete</b> 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  
  
Action 375219

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 375219
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
tberry	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.	8/19/2024