Certificate of Analysis

Number: 6030-22050003-002A

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

May 03, 2022

Station Name:	Comanche CTB 1H Test	Sampled By:	CM
Station Number:	55680039	Sample Of:	Gas Spot
Station Location:	Caza	Sample Date:	04/29/2022 02:05
Sample Point:	Meter Run	Sample Conditions:	152.1 psig, @ 120.7 °F Ambient: 96 °F
Instrument:	6030_GC6 (Inficon GC-3000 Micro)	Effective Date:	04/29/2022 02:05
Last Inst. Cal.:	05/02/2022 0:00 AM	Method:	GPA-2261M
Analyzed:	05/03/2022 11:36:50 by ERG	Cylinder No:	5030-01267

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.05000	0.081		GPM TOTAL C2+	4.366
Nitrogen	1.163	1.18185	1.583		GPM TOTAL C3+	2.465
Methane	80.681	82.00952	62.903		GPM TOTAL iC5+	0.747
Carbon Dioxide	1.870	1.90110	4.000			
Ethane	6.988	7.10278	10.211	1.901		
Propane	3.520	3.57828	7.544	0.987		
Iso-butane	0.725	0.73735	2.049	0.242		
n-Butane	1.523	1.54849	4.303	0.489		
Iso-pentane	0.579	0.58803	2.028	0.215		
n-Pentane	0.495	0.50315	1.736	0.183		
Hexanes Plus	0.787	0.79945	3.562	0.349		
	98.331	100.00000	100.000	4.366		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7244	3.2176
Calculated Molecular Weight	20.92	93.19
Compressibility Factor	0.9966	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1208	5129
Water Sat. Gas Base BTU	1187	5040
Ideal, Gross HV - Dry at 14.696 psia	1203.5	5129.2
Ideal, Gross HV - Wet	1182.5	5039.7

Comments: H2S Field Content 500 ppm
Mcf/day 1573.7

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
Comanche CTB

input

calculated

		source
Date	11/3/2022	pumpers text
Reported Flared metered Volume (mcf)	606	pumpers text
Last 7 Day Avg metered Gas Production (mcf)	3955.43	prodman ctb report
% of gas flared vs Produced (% mcf) & (% hrs)	15.3%	
Avg Gas prodcution per hour for 24 hrs (mcf)	164.81	
number of hours flare was active (hours)	3.68	

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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

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 156325
	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 156325

QUESTIONS

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	Action Number: 156325
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 Operator	**[249099] CAZA OPERATING, LLC**
Incident Type	**Flare**
Incident Status	**Closure Not Approved**
Incident Well	**[30-025-47449] COMANCHE 25 36 FEDERAL STATE COM #001H**
Incident Facility	*Unavailable.*
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.	

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	No
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, major 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	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	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: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 156325
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/03/2022
Time vent or flare was discovered or commenced	12:00 PM
Time vent or flare was terminated	04:00 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: Other | Gas Plant | Natural Gas Flared | Released: 606 Mcf | Recovered: 0 Mcf | Lost: 606 Mcf.
Other Released Details	Cause: | | Other (Specify) | Released: 0 (Unknown Released Amount) | Recovered: 0 | Lost: 0 .
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	[147831] Lucid Artesia Company
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	Downstream Operator had gas plant shutdown due to high sales line pressure. This event was outside the control of operator.
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 shutdown due to high sales line pressure. This event was outside the control of operator.

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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

Action 156325

CONDITIONS

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	Action Number: 156325
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CONDITIONS

Created By	Condition	Condition Date
tberry	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.	11/4/2022