



Certificate of Analysis

Number: 6030-22040461-003A

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

May 03, 2022

Station Name: Mud River 13-3
Station Number: 55650024
Station Location: Caza Operating
Sample Point: Meter run
Instrument: 70142339 (Inficon GC-MicroFusion)
Last Inst. Cal.: 05/02/2022 0:00 AM
Analyzed: 05/03/2022 08:14:40 by ERG

Sampled By: John Whitt
Sample Of: Gas Spot
Sample Date: 04/27/2022 12:10
Sample Conditions: 91 psig, @ 86.4 °F Ambient: 67 °F
Effective Date: 04/27/2022 12:10
Method: GPA-2261M
Cylinder No: 1111-005955

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+ 6.185
Nitrogen	1.154	1.17997	1.535		GPM TOTAL C3+ 3.004
Methane	75.316	77.02480	57.388		GPM TOTAL iC5+ 0.588
Carbon Dioxide	0.057	0.05819	0.119		
Ethane	11.616	11.87991	16.590	3.181	
Propane	5.718	5.84730	11.975	1.613	
Iso-butane	0.714	0.73009	1.971	0.239	
n-Butane	1.746	1.78591	4.821	0.564	
Iso-pentane	0.397	0.40549	1.359	0.148	
n-Pentane	0.469	0.47984	1.608	0.174	
Hexanes Plus	0.595	0.60850	2.634	0.266	
	97.782	100.00000	100.000	6.185	

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.7460	3.2176
Calculated Molecular Weight	21.53	93.19
Compressibility Factor	0.9962	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

Real Gas Dry BTU	1289	5129
Water Sat. Gas Base BTU	1267	5040
Ideal, Gross HV - Dry at 14.696 psia	1284.0	5129.2
Ideal, Gross HV - Wet	1261.6	5039.7

Comments: H2S Field Content 0 ppm

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 Mad River 13 State 3H/6H CTB

input

calculated

Date	11/20/2022
Reported Flared metered Volume (mcf)	850
Last 7 Day Avg metered Gas Production (mcf)	6338.14
% of gas flared vs Produced (% mcf) & (% hrs)	13.4%
Avg Gas production per hour for 24 hrs (mcf)	264.09
number of hours flare was active (hours)	3.22

source

pumpers text

pumpers text

prodman ctb report

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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 163156

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 163156
	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 163156

QUESTIONS

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	Action Number: 163156
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 Operator	[249099] CAZA OPERATING, LLC
Incident Type	Flare
Incident Status	Closure Approved
Incident Well	[30-015-43898] MAD RIVER 13 STATE COM #003H
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 <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	No
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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Separator
Additional details for Equipment Involved. Please specify	High vessel pressure

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	77
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sufide (H2S) PPM quality requirement	0
Carbon Dioxide (CO2) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0

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QUESTIONS, Page 2

Action 163156

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/20/2022
Time vent or flare was discovered or commenced	04:15 AM
Time vent or flare was terminated	07:15 AM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other Separator Natural Gas Flared Released: 850 Mcf Recovered: 0 Mcf Lost: 850 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	The downstream operator shut in the operator's gas line. Therefore, operator was forced to flare at that point until issues were resolved on the downstream operator side.
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	Pumper was not on location at exact time of the malfunction in order to prevent the equipment failure.

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ACKNOWLEDGMENTS

Action 163156

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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
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.	12/12/2022