



Certificate of Analysis

Number: 6030-22040473-013A

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: Igloo 19-24 Fed Com 12H

Station Number: 55680019

Station Location: Caza Operating

Sample Point: Meter run

Instrument: 70142339 (Inficon GC-MicroFusion)

Last Inst. Cal.: 05/02/2022 0:00 AM

Analyzed: 05/02/2022 15:45:09 by ERG

Sampled By: RM

Sample Of: Gas Spot

Sample Date: 04/28/2022

Sample Conditions: 117.8 psig, @ 100.8 °F

Effective Date: 04/28/2022

Method: GPA-2261M

Cylinder No: 5030-02178

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	4.141	4.21945	5.084		GPM TOTAL C2+	7.269
Methane	68.340	69.63767	48.053		GPM TOTAL C3+	3.775
Carbon Dioxide	0.787	0.80215	1.518		GPM TOTAL iC5+	0.806
Ethane	12.801	13.04403	16.871	3.494		
Propane	7.138	7.27357	13.796	2.007		
Iso-butane	0.828	0.84362	2.109	0.277		
n-Butane	2.127	2.16781	5.420	0.685		
Iso-pentane	0.484	0.49279	1.529	0.181		
n-Pentane	0.509	0.51836	1.609	0.188		
Hexanes Plus	0.982	1.00055	4.011	0.437		
	98.137	100.0000	100.000	7.269		

Calculated Physical Properties

Relative Density Real Gas

Total

0.8058

C6+

3.2176

Calculated Molecular Weight

23.25

93.19

Compressibility Factor

0.9958

GPA 2172 Calculation:

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

Real Gas Dry BTU

1313

5129

Water Sat. Gas Base BTU

1290

5040

Ideal, Gross HV - Dry at 14.696 psia

1307.2

5129.2

Ideal, Gross HV - Wet

1284.4

5039.7

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 Igloo 19-24 Fed 12H-15H

input

calculated

Date	4/26/2022
Reported Flared metered Volume (mcf)	1375
Last 7 Day Avg metered Gas Production (mcf)	1877.57
% of gas flared vs Produced (% mcf) & (% hrs)	73.2%
Avg Gas production per hour for 24 hrs (mcf)	78.23
number of hours flare was active (hours)	17.58

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 227962

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 227962
	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 227962

QUESTIONS

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	Action Number: 227962
	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	[30-025-46411] IGLOO 19 24 STATE FEDERAL COM #012H
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 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	Yes
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 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	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	70
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) 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 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 227962

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/26/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	05:30 PM
Cumulative hours during this event	18

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: 1,375 Mcf Recovered: 0 Mcf Lost: 1,375 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	[24650] TARGA MIDSTREAM SERVICES 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	Downstream operator had gas plant shutdown due to high oxygen. 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 oxygen. 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

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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.	6/14/2023