Certificate of Analysis

Number: 6030-24100960-002A

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

Station Name:	Igloo Federal #1	Report Date:	10/29/2024
Station Number:	118001617	Sampled By:	Raul Salazar
Station Location:	Caza Operating	Sample Of:	Gas
Sample Point:	Meter	Sample Type:	Spot
Heating Method:		Sample Date:	10/28/2024
Method:	GPA-2261M	Sample Conditions:	64.5 psig, @ 84.0 °F
Cylinder No:	5030-03169	Received Date:	10/29/2024
Instrument:	70142339 (Inficon GC-MicroFusion)	Login Date:	10/29/2024
Last Inst. Cal.:	10/28/2024 07:59:03	Effective Date:	10/28/2024
Analyzed:	10/29/2024 11:33:31 by CDW	Flow Rate:	1899 MSCFD
		Sampling Method:	

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.0000	0.5000	0.6565		GPM TOTAL C2+	9.041
Nitrogen	6.3806	6.3491	6.8519		GPM TOTAL C3+	5.383
Methane	62.5845	62.2752	38.4875		GPM TOTAL iC5+	1.743
Carbon Dioxide	0.4405	0.4383	0.7431			
Ethane	13.7091	13.6413	15.8018	3.658		
Propane	8.4738	8.4319	14.3236	2.329		
Iso-butane	1.0488	1.0436	2.3367	0.342		
n-Butane	3.0793	3.0641	6.8608	0.969		
Iso-pentane	0.7863	0.7824	2.1747	0.287		
n-Pentane	0.8786	0.8743	2.4301	0.318		
Hexanes Plus	2.6127	2.5998	9.3333	1.138		
	99.9942	100.0000	100.0000	9.041		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.9007	3.2176
Calculated Molecular Weight	25.96	93.19
Compressibility Factor	0.9947	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1426.9	5129.2
Water Sat. Gas Base BTU	1402.6	5039.7
Ideal, Gross HV - Dry at 14.696 psia	1419.3	5129.2
Ideal, Gross HV - Wet	1394.5	5039.7

Comments: Note Nitrogen
High nitrogen due to low pressure. Not enough to rerun.
H2S Field Content: 5000 ppm

Mostafa Ahmadi

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Caza Flared Gas Calculation

Igloo 19-24 Fed CTB

Facility ID# fAPP2429536536

input	
calculated	

Date	8/14/2024
Reported Flared metered Volume (mcf)	133
Last 7 Day Avg metered Gas Production (mcf)	1828.14
% of gas flared vs Produced (% mcf) & (% hrs)	7.3%
Avg Gas prodcution per hour for 24 hrs (mcf)	76.17
number of hours flare was active (hours)	1.75

Please be advised this C-129/C-129A is replacement for previous Incident# nAPP2423254326, incorrectly submitted with “Well API#”.

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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: 396406
	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:

- 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 396406

QUESTIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 396406
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 Well	*Unavailable.*
Incident Facility	**[fAPP2429536536] Igloo Fed Production Facility**

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	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

Equipment Involved	
Primary Equipment Involved	Gas Plant
Additional details for Equipment Involved. Please specify	Pipeline

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	62
Nitrogen (N2) percentage, if greater than one percent	6
Hydrogen Sulfide (H2S) PPM, rounded up	1
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 (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 396406
	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	01:15 PM
Cumulative hours during this event	2

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 | Gas Plant | Natural Gas Flared | Released: 133 Mcf | Recovered: 0 Mcf | Lost: 133 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	Yes
Downstream OGRID that should have notified this operator	[24650] TARGA MIDSTREAM SERVICES LLC
Date notified of downstream activity requiring this vent or flare	08/05/2024
Time notified of downstream activity requiring this vent or flare	09:37 AM

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 has gas plant shut-in.
Steps taken to limit the duration and magnitude of vent or flare	Upon determination of flare event by on-site personnel, production was shut-in.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	No corrective action. This flare event was beyond control of the operator.

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ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 396406
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (C-129) report on behalf of this operator and understand that this report can be **a complete** C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☑	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.
☑	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.
☑	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

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 396406
	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.	11/11/2024