



Certificate of Analysis

Number: 6030-24100960-007A

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 19 State #1
Station Number: 118001312
Station Location: Caza Operating
Sample Point: Meter Run
Heating Method:
Method: GPA-2261M
Cylinder No: 1111-007977
Instrument: 70142339 (Inficon GC-MicroFusion)
Last Inst. Cal.: 10/28/2024 07:59:03
Analyzed: 10/29/2024 10:45:46 by CDW

Report Date: 10/29/2024
Sampled By: Raul Salazar
Sample Of: Gas
Sample Type: Spot
Sample Date: 10/28/2024 11:15
Sample Conditions: 63.0 psig, @ 80.5 °F Ambient: 77 °F
Received Date: 10/29/2024
Login Date: 10/29/2024
Effective Date: 10/28/2024 11:15
Flow Rate: 228.4 MSCFD
Sampling Method:

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.0000	0.0003	0.0005		GPM TOTAL C2+	6.748
Nitrogen	3.9329	3.9220	4.8761		GPM TOTAL C3+	3.376
Methane	72.4151	72.2148	51.4161		GPM TOTAL iC5+	0.727
Carbon Dioxide	0.2913	0.2905	0.5674			
Ethane	12.6249	12.5900	16.8014	3.372		
Propane	6.3142	6.2967	12.3228	1.737		
Iso-butane	0.7502	0.7481	1.9298	0.245		
n-Butane	2.1177	2.1118	5.4475	0.667		
Iso-pentane	0.4744	0.4731	1.5149	0.173		
n-Pentane	0.5058	0.5044	1.6151	0.183		
Hexanes Plus	0.8507	0.8483	3.5084	0.371		
	100.2772	100.0000	100.0000	6.748		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.7808	3.2176
Calculated Molecular Weight	22.53	93.19
Compressibility Factor	0.9960	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1291.6	5129.2
Water Sat. Gas Base BTU	1269.6	5039.7
Ideal, Gross HV - Dry at 14.696 psia	1286.5	5129.2
Ideal, Gross HV - Wet	1264.0	5039.7

Comments: Reran Sample Confirmed GC Analysis
H₂S Field Content: 2.5 ppm

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 State CTB
Facility ID# fAPP2428851406

input

calculated

Date	5/5/2022
Reported Flared metered Volume (mcf)	181
Last 7 Day Avg metered Gas Production (mcf)	401
% of gas flared vs Produced (% mcf) & (% hrs)	45.1%
Avg Gas production per hour for 24 hrs (mcf)	16.71
number of hours flare was active (hours)	10.83

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 466842

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 466842
	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 466842

QUESTIONS

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	Action Number: 466842
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 Well	Unavailable.
Incident Facility	[fAPP2428851406] Igloo 19 State Nos. 1H 3H 4H Production Facility

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	Yes
Is this considered a submission for a vent or flare event	Yes, minor 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 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	Gas plant is shut-in. High line 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	72
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	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	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 466842

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/05/2022
Time vent or flare was discovered or commenced	09:32 AM
Time vent or flare was terminated	08:32 PM
Cumulative hours during this event	11

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: 181 Mcf Recovered: 0 Mcf Lost: 181 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-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

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ACKNOWLEDGMENTS

☒	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 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

Action 466842

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	Action Number: 466842
	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.	5/23/2025