



Certificate of Analysis

Number: 6030-23010002-001A

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

Jan. 03, 2023

Station Name: Desert Rose Fed #1H
Station Location: Caza Operating
Sample Point: Meter Run
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 12/21/2022 15:34 PM
Analyzed: 01/03/2023 10:45:52 by EBH

Sampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 12/30/2022
Sample Conditions: 34.5 psig, @ 51 °F Ambient: 42 °F
Effective Date: 12/30/2022
Method: GPA-2261M
Cylinder No: 1111-003939

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	3.909	3.99890	4.849		GPM TOTAL C2+	7.602
Methane	67.452	69.00319	47.922		GPM TOTAL C3+	3.755
Carbon Dioxide	0.191	0.19539	0.372		GPM TOTAL iC5+	0.631
Ethane	14.038	14.36083	18.693	3.847		
Propane	7.568	7.74204	14.778	2.136		
Iso-butane	0.762	0.77952	1.961	0.256		
n-Butane	2.266	2.31811	5.832	0.732		
Iso-pentane	0.453	0.46342	1.447	0.170		
n-Pentane	0.480	0.49104	1.534	0.178		
Hexanes Plus	0.633	0.64756	2.612	0.283		
	97.752	100.0000	100.000	7.602		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8007	3.2176
Calculated Molecular Weight	23.10	93.19
Compressibility Factor	0.9958	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1324	5129
Water Sat. Gas Base BTU	1301	5040
Ideal, Gross HV - Dry at 14.696 psia	1318.3	5129.2
Ideal, Gross HV - Wet	1295.3	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 Desert Rose CTB

input

calculated

Date	12/12/2023
Reported Flared metered Volume (mcf)	1677
Last 7 Day Avg metered Gas Production (mcf)	1818.71
% of gas flared vs Produced (% mcf) & (% hrs)	92.2%
Avg Gas production per hour for 24 hrs (mcf)	75.78
number of hours flare was active (hours)	22.13

source

pumpers text

pumpers text

prodman ctb report

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-50451	² Pool Code 24250	³ Pool Name FEATHERSTONE; BONE SPRING
⁴ Property Code 315692	⁵ Property Name DESERT ROSE 17-8 FEDERAL	⁶ Well Number 5H
⁷ OGRID No. 249099	⁸ Operator Name CAZA OPERATING, LLC	⁹ Elevation 3700'

¹⁰ Surface Location

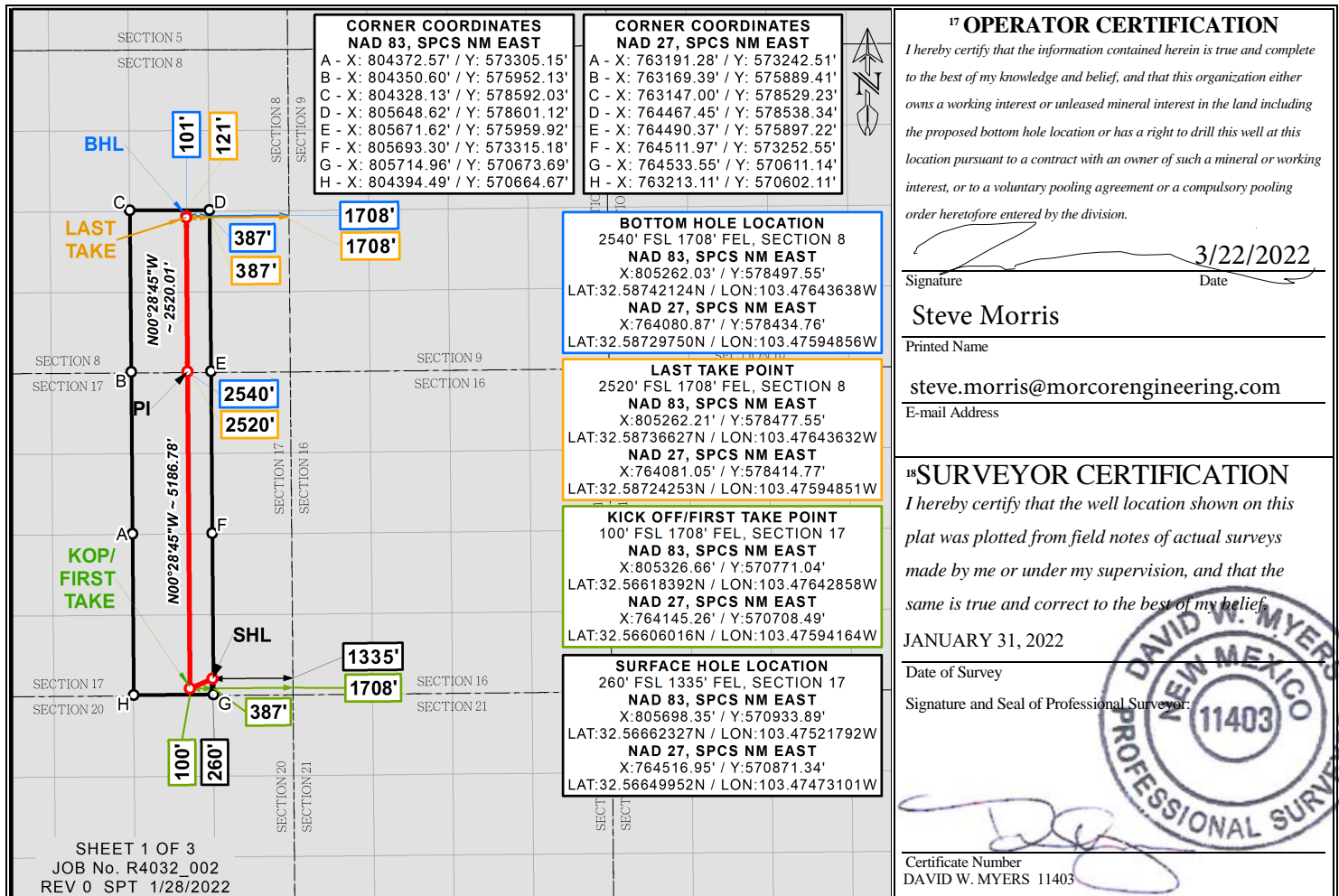
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	17	20S	35E		260	SOUTH	1335	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	8	20S	35E		2540	SOUTH	1708	EAST	LEA

¹² Dedicated Acres 240.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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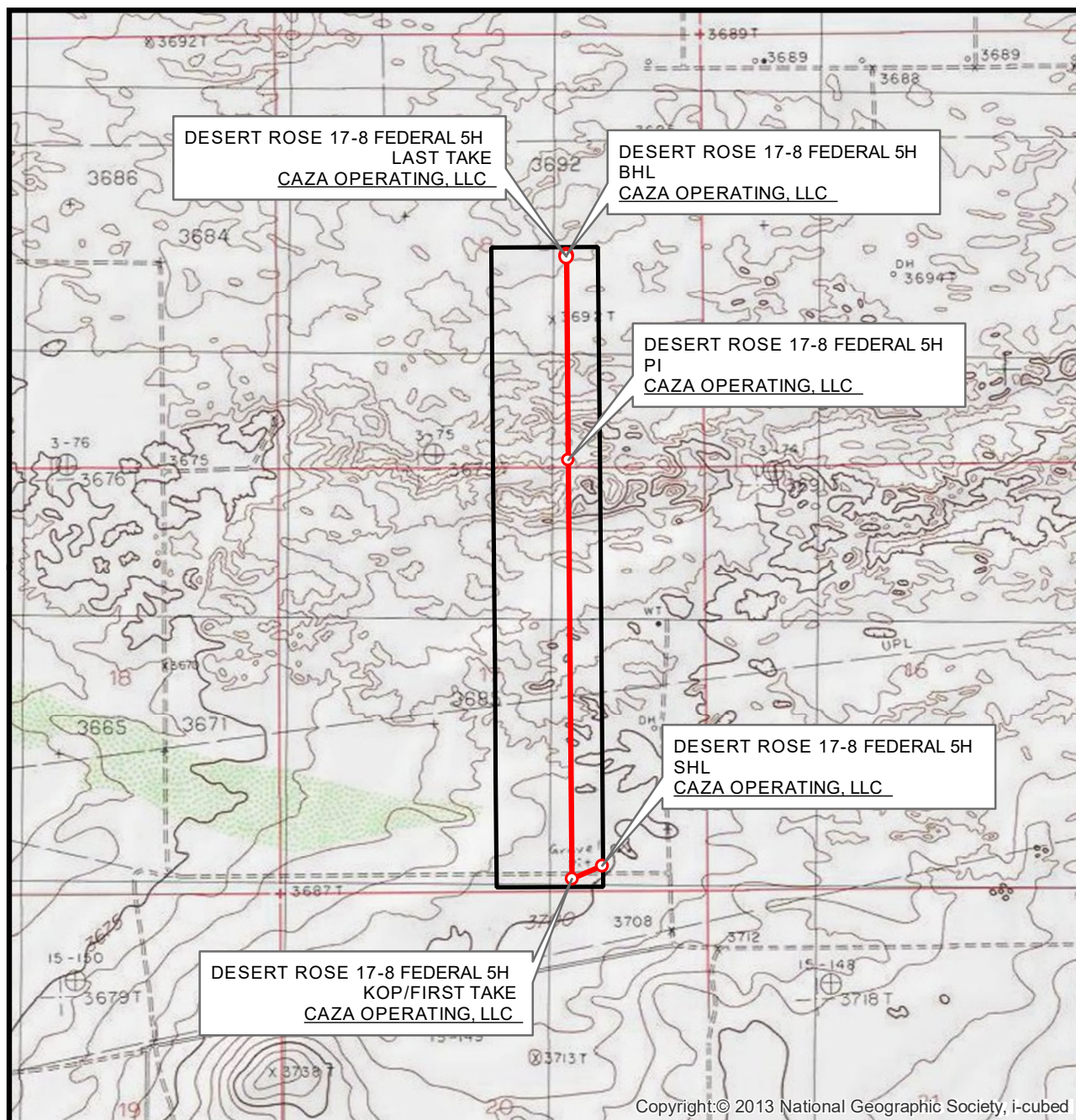
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99981205 Convergence Angle: 00°26'57.22001"

☐ Horizontal Spacing Unit

LOCATION VERIFICATION MAP



SEC. 17 TWP. 20-S RGE. 35-E
SURVEY: N.M.P.M.
COUNTY: LEA
OPERATOR: CAZA OPERATING, LLC
DESCRIPTION: 260' FSL & 1335' FEL
ELEVATION: 3700'
LEASE: DESERT ROSE 17-8 FEDERAL
U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM.

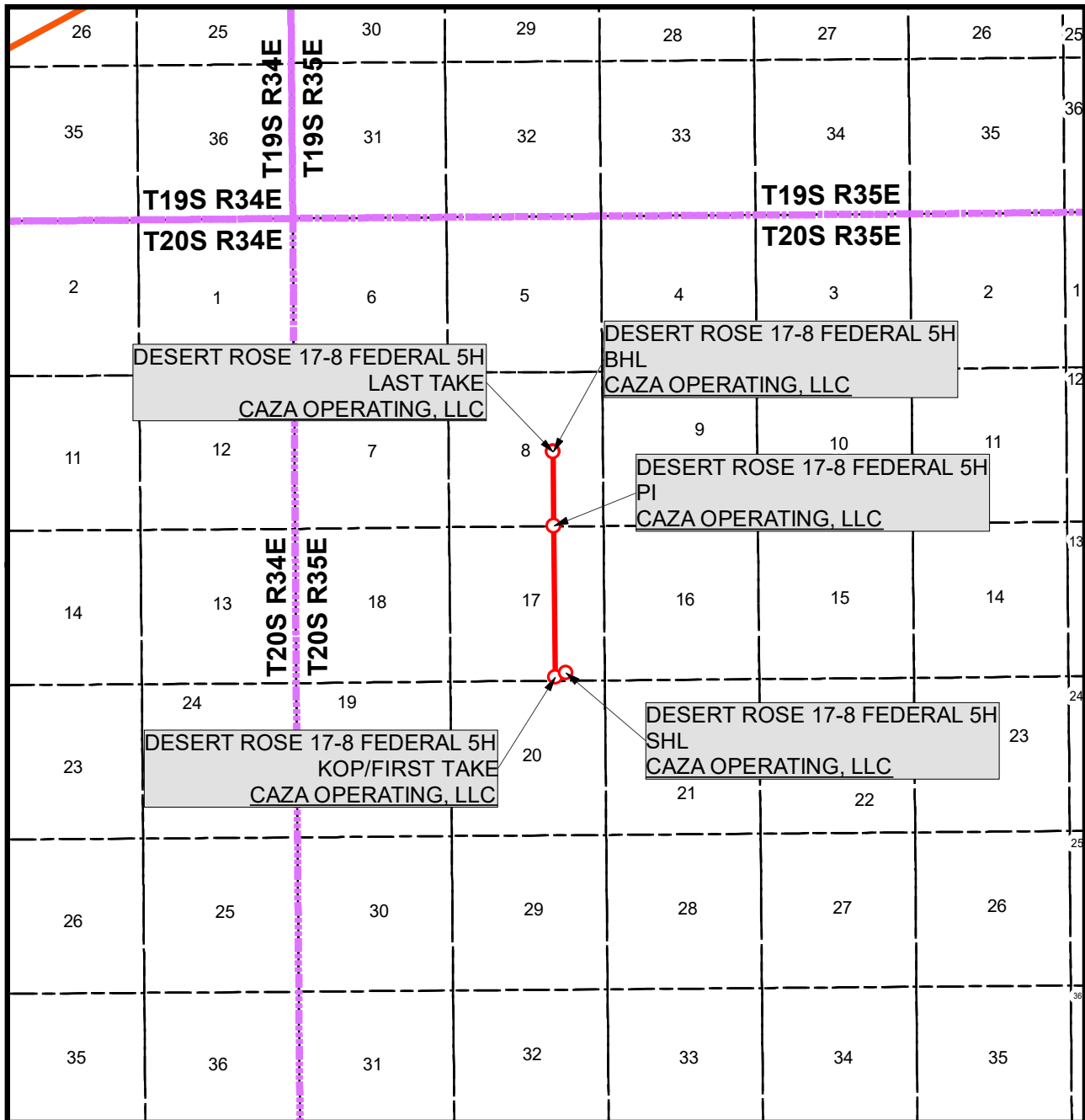
1" = 2,000'
CONTOUR INTERVAL = 5'



SHEET 2 OF 3

PREPARED BY:
R-SQUARED GLOBAL, LLC
510 TRENTON ST., UNIT B, WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4032_002

VICINITY MAP



SEC. 17 TWP. 20-S RGE. 35-E

SURVEY: N.M.P.M.

COUNTY: LEA

OPERATOR: CAZA OPERATING, LLC

DESCRIPTION: 260' FSL & 1335' FEL

ELEVATION: 3700'

LEASE: DESERT ROSE 17-8 FEDERAL

U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM.

1" = 1 MILE



SHEET 3 OF 3

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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 296480

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 296480
	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: <ul style="list-style-type: none">• 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 296480

QUESTIONS

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	Action Number: 296480
	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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Well	[30-025-50451] DESERT ROSE 17 8 FEDERAL COM #005H

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	69
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

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 296480

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 296480
	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	12/12/2023
Time vent or flare was discovered or commenced	01:00 AM
Time vent or flare was terminated	11:00 PM
Cumulative hours during this event	22

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: 1,677 Mcf Recovered: 0 Mcf Lost: 1,677 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 shut down.
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 shut down.

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ACKNOWLEDGMENTS

Action 296480

ACKNOWLEDGMENTS

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	Action Number: 296480
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 296480

CONDITIONS

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	Action Number: 296480
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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.	12/20/2023