



Certificate of Analysis

Number: 6030-22050003-002A

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

May 03, 2022

Station Name: Comanche CTB 1H Test

Station Number: 55680039

Station Location: Caza

Sample Point: Meter Run

Instrument: 6030_GC6 (Inficon GC-3000 Micro)

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

Analyzed: 05/03/2022 11:36:50 by ERG

Sampled By: CM

Sample Of: Gas Spot

Sample Date: 04/29/2022 02:05

Sample Conditions: 152.1 psig, @ 120.7 °F Ambient: 96 °F

Effective Date: 04/29/2022 02:05

Method: GPA-2261M

Cylinder No: 5030-01267

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.05000	0.081		GPM TOTAL C2+ 4.366
Nitrogen	1.163	1.18185	1.583		GPM TOTAL C3+ 2.465
Methane	80.681	82.00952	62.903		GPM TOTAL iC5+ 0.747
Carbon Dioxide	1.870	1.90110	4.000		
Ethane	6.988	7.10278	10.211	1.901	
Propane	3.520	3.57828	7.544	0.987	
Iso-butane	0.725	0.73735	2.049	0.242	
n-Butane	1.523	1.54849	4.303	0.489	
Iso-pentane	0.579	0.58803	2.028	0.215	
n-Pentane	0.495	0.50315	1.736	0.183	
Hexanes Plus	0.787	0.79945	3.562	0.349	
	98.331	100.00000	100.000	4.366	

Calculated Physical Properties

Relative Density Real Gas

Total

0.7244

C6+

3.2176

Calculated Molecular Weight

20.92

93.19

Compressibility Factor

0.9966

GPA 2172 Calculation:

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

Real Gas Dry BTU

1208

5129

Water Sat. Gas Base BTU

1187

5040

Ideal, Gross HV - Dry at 14.696 psia

1203.5

5129.2

Ideal, Gross HV - Wet

1182.5

5039.7

Comments: H2S Field Content 500 ppm
Mcf/day 1573.7

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 Comanche CTB

input

calculated

Date	8/23/2022
Reported Flared metered Volume (mcf)	2000
Last 7 Day Avg metered Gas Production (mcf)	4449.43
% of gas flared vs Produced (% mcf) & (% hrs)	44.9%
Avg Gas production per hour for 24 hrs (mcf)	185.39
number of hours flare was active (hours)	10.79

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 30-025-47449	² Pool Code 98234	³ Pool Name WC-025 G-09 S263619C; WOLFCAMP
⁴ Property Code 328896	⁵ Property Name COMANCHE 25-36 FED STATE COM	⁶ Well Number 1H
⁷ OGRID No. 249099	⁸ Operator Name CAZA OPERATING LLC	⁹ Elevation 2946'

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
B	25	26S	35E		349	NORTH	1500	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
G (L 2)	36	26S	35E		40	SOUTH	2240	EAST	LEA

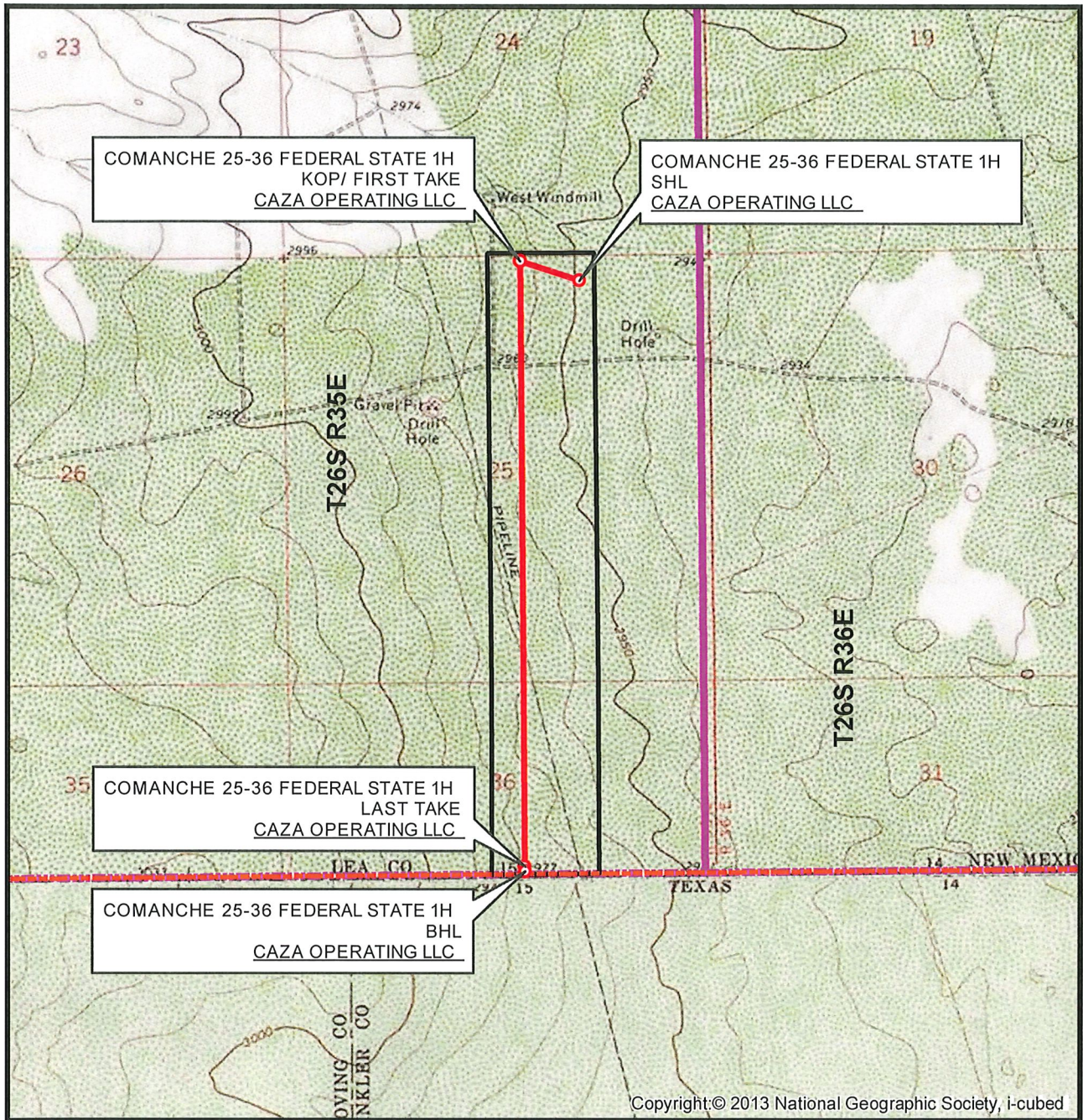
¹² Dedicated Acres 233.27	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 855026.84' / Y: 373017.32' B - X: 856343.04' / Y: 373028.15' C - X: 856411.82' / Y: 365332.23' D - X: 855087.15' / Y: 365319.53'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 813838.32' / Y: 372959.95' B - X: 815154.51' / Y: 372970.77' C - X: 815223.00' / Y: 365275.06' D - X: 813898.33' / Y: 365262.37'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date <u>11/8/2019</u> Steve Morris Printed Name stev.morris@morcoreengineering.com E-mail Address
	SURFACE HOLE LOCATION 349' FNL 1500' FEL, SECTION 25 NAD 83, SPCS NM EAST X: 856163.15' / Y: 372677.39' LAT: 32.02050208N / LON: 103.31752499W NAD 27, SPCS NM EAST X: 814974.61' / Y: 372620.02' LAT: 32.02037471N / LON: 103.31706748W		
	KICK OFF POINT / FIRST TAKE POINT 100' FNL 2225' FEL, SECTION 25 NAD 83, SPCS NM EAST X: 855435.34' / Y: 372920.68' LAT: 32.02118956N / LON: 103.31986564W NAD 27, SPCS NM EAST X: 814246.82' / Y: 372863.31' LAT: 32.02106222N / LON: 103.31940802W		
	LAST TAKE POINT 100' FSL 2240' FEL, SECTION 36 NAD 83, SPCS NM EAST X: 855495.62' / Y: 365423.42' LAT: 32.00058129N / LON: 103.31989797W NAD 27, SPCS NM EAST X: 814306.81' / Y: 365366.26' LAT: 32.00045386N / LON: 103.3194414W		
BOTTOM HOLE LOCATION 40' FSL 2240' FEL, SECTION 36 NAD 83, SPCS NM EAST X: 855496.21' / Y: 365363.43' LAT: 32.00041637N / LON: 103.31989788W NAD 27, SPCS NM EAST X: 814307.39' / Y: 365306.27' LAT: 32.00028894N / LON: 103.31944132W			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. NOVEMBER 5, 2019 Date of Survey Signature and Seal of Professional Surveyor:

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99988291 Convergence: 00°32'08.45268"

LOCATION VERIFICATION MAP



SEC. 25 TWP. 26-S RGE. 35-E
SURVEY: N.M.P.M.
COUNTY: LEA
OPERATOR: CAZA OPERATING LLC
DESCRIPTION: 349' FNL & 1500' FEL
ELEVATION: 2946'
LEASE: COMANCHE 25-36 FEDERAL STATE
U.S.G.S. TOPOGRAPHIC MAP: JAVELINA BASIN, NM,TX.

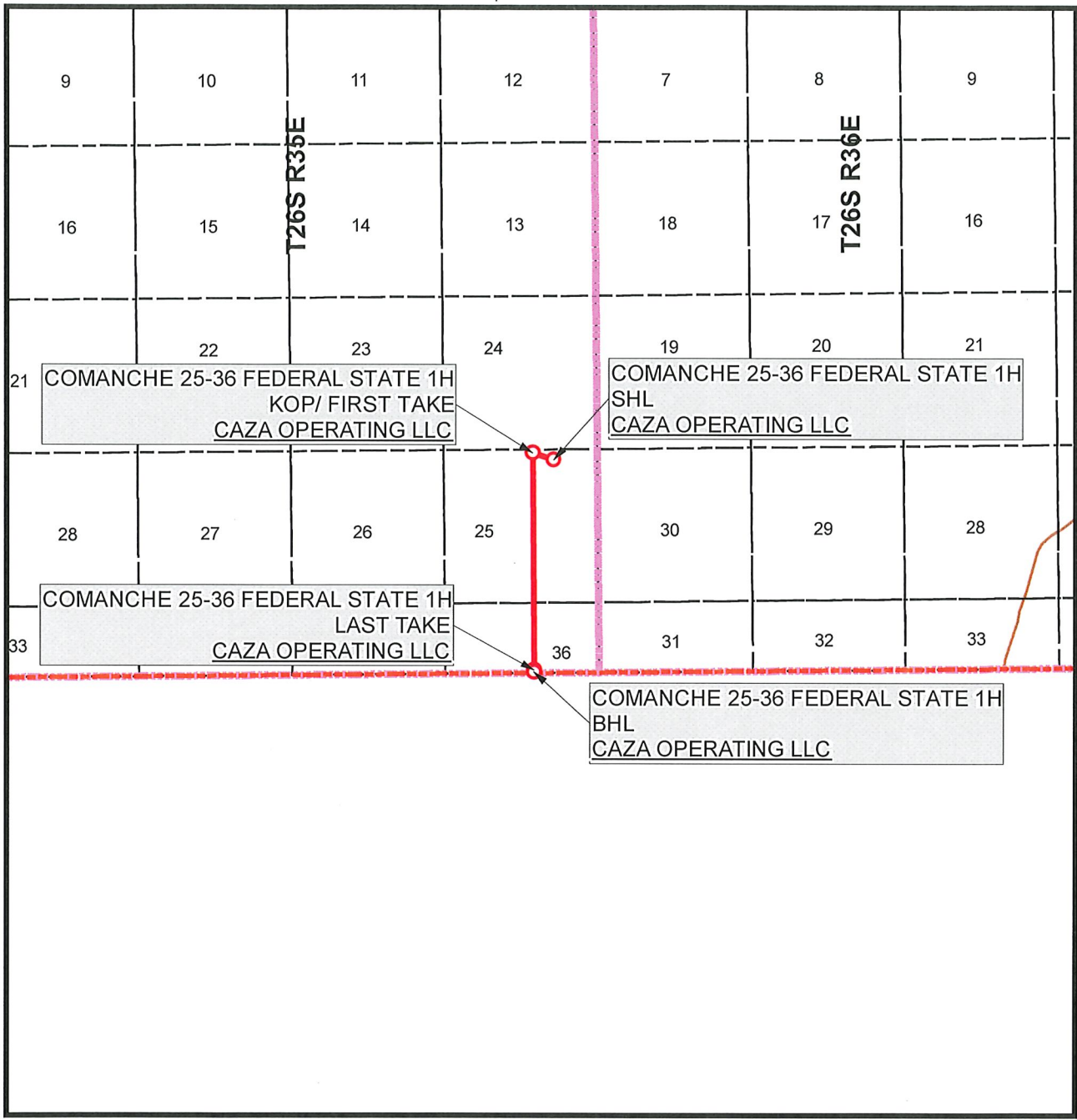
1" = 2,000'
CONTOUR INTERVAL = 10'



SHEET 2 OF 3

PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-6900 OFFICE
JOB No. R4029_001_A

VICINITY MAP



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LEASE: COMANCHE 25-36 FEDERAL STATE
U.S.G.S. TOPOGRAPHIC MAP: JAVELINA BASIN, NM,TX.

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 136951

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 136951
	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 136951

QUESTIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 136951
	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	[30-025-47449] COMANCHE 25 36 FEDERAL STATE COM #001H
Incident Facility	Not answered.

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	No
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	Not answered.
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	82
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	2
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 136951

QUESTIONS (continued)

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	Action Number: 136951
	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	08/23/2022
Time vent or flare was discovered or commenced	09:00 AM
Time vent or flare was terminated	08:00 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: Other Gas Plant Natural Gas Flared Released: 2,000 Mcf Recovered: 0 Mcf Lost: 2,000 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	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 down. This event was outside of the control of operator. No choice but to flare.
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. This event was outside of the control of operator. No choice but to flare.

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ACKNOWLEDGMENTS

Action 136951

ACKNOWLEDGMENTS

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	Action Number: 136951
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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

Action 136951

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Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 136951
	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.	8/23/2022