



Certificate of Analysis

Number: 6030-23010001-004A

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: Eagle Claw Fed #3H
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 09:37:46 by EBH

Sampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 12/30/2022
Sample Conditions: 107.3 psig, @ 81.2 °F Ambient: 48 °F
Effective Date: 12/30/2022
Method: GPA 2286
Cylinder No: 5030-04429

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	3.416	3.46100	3.918		GPM TOTAL C2+	8.823
Methane	64.675	65.53300	42.482		GPM TOTAL C3+	4.598
Carbon Dioxide	0.400	0.40500	0.720		GPM TOTAL iC5+	1.150
Ethane	15.555	15.76100	19.151	4.225		
Propane	8.630	8.74400	15.581	2.415		
Iso-butane	0.925	0.93700	2.201	0.307		
n-Butane	2.266	2.29600	5.393	0.726		
Iso-pentane	0.489	0.49500	1.443	0.181		
n-Pentane	0.476	0.48200	1.405	0.175		
Hexanes Plus	1.861	1.88600	7.706	0.794		
	98.693	100.0000	100.000	8.823		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8583	3.4883
Calculated Molecular Weight	24.75	101.03
Compressibility Factor	0.9951	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1413	5315
Water Sat. Gas Base BTU	1388	5222
Ideal, Gross HV - Dry at 14.696 psia	1405.5	5314.8
Ideal, Gross HV - Wet	1381.0	0.000

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.



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Jan. 03, 2023

Station Name: Eagle Claw Fed #3H
Station Location: Caza Operating
Sample Point: Meter Run
Cylinder No: 5030-04429
Analyzed: 01/03/2023 09:41:03 by EBH

Sampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 12/30/2022
Sample Conditions: 107.3 psig, @ 81.2 °F
Method: GPA 2286

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	3.461	3.918	
Methane	65.533	42.482	
Carbon Dioxide	0.405	0.720	
Ethane	15.761	19.151	4.225
Propane	8.744	15.581	2.415
Iso-Butane	0.937	2.201	0.307
n-Butane	2.296	5.393	0.726
Iso-Pentane	0.495	1.443	0.181
n-Pentane	0.482	1.405	0.175
i-Hexanes	0.231	0.785	0.091
n-Hexane	0.114	0.396	0.047
Benzene	0.150	0.488	0.043
Cyclohexane	0.128	0.432	0.044
i-Heptanes	0.205	0.773	0.083
n-Heptane	0.048	0.196	0.022
Toluene	0.154	0.578	0.052
i-Octanes	0.250	1.060	0.112
n-Octane	0.048	0.223	0.024
Ethylbenzene	0.069	0.297	0.027
Xylenes	0.130	0.544	0.050
i-Nonanes	0.154	0.748	0.078
n-Nonane	0.059	0.309	0.033
Decanes Plus	0.146	0.877	0.088
	100.000	100.000	8.823

Calculated Physical Properties

Calculated Molecular Weight

Total

24.75

C10+

149.08

GPA 2172 Calculation:

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

Real Gas Dry BTU 1412.5 7990.8

Water Sat. Gas Base BTU 1387.8 7812.9

Relative Density Real Gas 0.8583 5.1475

Compressibility Factor 0.9951

Ideal, Gross HV - Wet 1381.0

Ideal, Gross HV - Dry at 14.696 psia 1405.5

Net BTU Dry Gas - real gas 1287

Net BTU Wet Gas - real gas 1264

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 Eagle Claw 5-8 Federal

input

calculated

Date	5/5/2023
Reported Flared metered Volume (mcf)	128
Last 7 Day Avg metered Gas Production (mcf)	1650.71
% of gas flared vs Produced (% mcf) & (% hrs)	7.8%
Avg Gas production per hour for 24 hrs (mcf)	68.78
number of hours flare was active (hours)	1.86

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 30-025-46827	² Pool Code 37580	³ Pool Name LEA BONE SPRING; SOUTH
⁴ Property Code 315700	⁵ Property Name EAGLECLAW 5-8 FEDERAL	⁶ Well Number 3H
⁷ OGRID No. 249099	⁸ Operator Name CAZA OPERATING LLC	⁹ Elevation 3693'

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
L 4	5	20S	35E		206	NORTH	1275	WEST	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
E	8	20S	35E		2550	NORTH	420	WEST	LEA

¹² Dedicated Acres 241.1	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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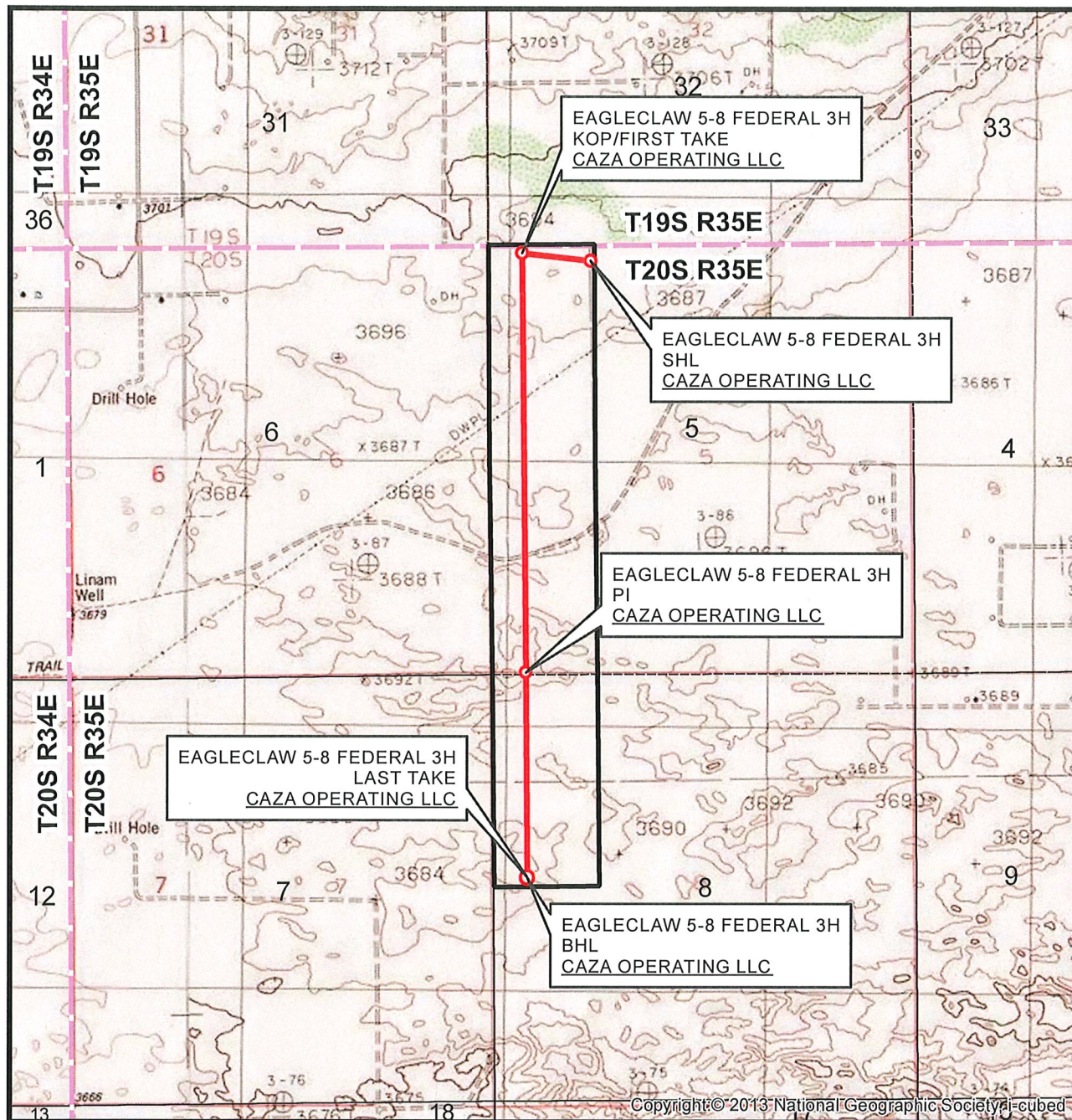
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 801663.96' / Y: 581233.12' B - X: 801624.81' / Y: 583892.38' C - X: 801613.81' / Y: 586531.35' D - X: 802935.37' / Y: 586544.35' E - X: 802953.06' / Y: 583892.70' F - X: 802984.77' / Y: 581237.85' G - X: 803008.23' / Y: 578582.95' H - X: 801688.33' / Y: 578573.86'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 760482.96' / Y: 581170.20' B - X: 760443.89' / Y: 583829.37' C - X: 760432.97' / Y: 586468.26' D - X: 761754.50' / Y: 586481.28' E - X: 761772.11' / Y: 583829.72' F - X: 761803.74' / Y: 581174.95' G - X: 761827.13' / Y: 578520.13' H - X: 760507.25' / Y: 578511.03'	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 unleased 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: <u>Steve Morris</u> Date: <u>10/24/2021</u>
	SURFACE HOLE LOCATION 206' FNL 1275' FWL, SECTION 5 NAD 83, SPCS NM EAST X: 802889.61' / Y: 586337.80' LAT: 32.60902198N / LON: 103.48393500W NAD 27, SPCS NM EAST X: 761708.74' / Y: 586274.74' LAT: 32.60889819N / LON: 103.48344598W	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. Signature and Seal of Professional Surveyor: <u>DAVID W. MYERS</u> Certificate Number: <u>11403</u>	
	KICK OFF/FIRST TAKE POINT 100' FNL 420' FWL, SECTION 5 NAD 83, SPCS NM EAST X: 802034.22' / Y: 586435.48' LAT: 32.60930920N / LON: 103.48671013W NAD 27, SPCS NM EAST X: 760853.36' / Y: 586372.40' LAT: 32.60918538N / LON: 103.48622097W	LAST TAKE POINT 2540' FNL 420' FWL, SECTION 8 NAD 83, SPCS NM EAST X: 802107.24' / Y: 578694.69' LAT: 32.58803249N / LON: 103.48667313W NAD 27, SPCS NM EAST X: 760926.16' / Y: 578631.86' LAT: 32.58790869N / LON: 103.48618483W	
	BOTTOM HOLE LOCATION 2550' FNL 420' FWL, SECTION 8 NAD 83, SPCS NM EAST X: 802107.33' / Y: 578684.69' LAT: 32.58800501N / LON: 103.48667309W NAD 27, SPCS NM EAST X: 760926.25' / Y: 578621.86' LAT: 32.58788121N / LON: 103.48618479W		

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99982819 Convergence Angle: 00°26'57.22001"

Horizontal Spacing Unit

LOCATION VERIFICATION MAP



SEC. 5 TWP. 20-S RGE. 35-E
 SURVEY: N.M.P.M.
 COUNTY: LEA
 OPERATOR: CAZA OPERATING LLC
 DESCRIPTION: 206' FNL & 1275' FWL
 ELEVATION: 3693'
 LEASE: EAGLECLAW 5-8 FEDERAL
 U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM.

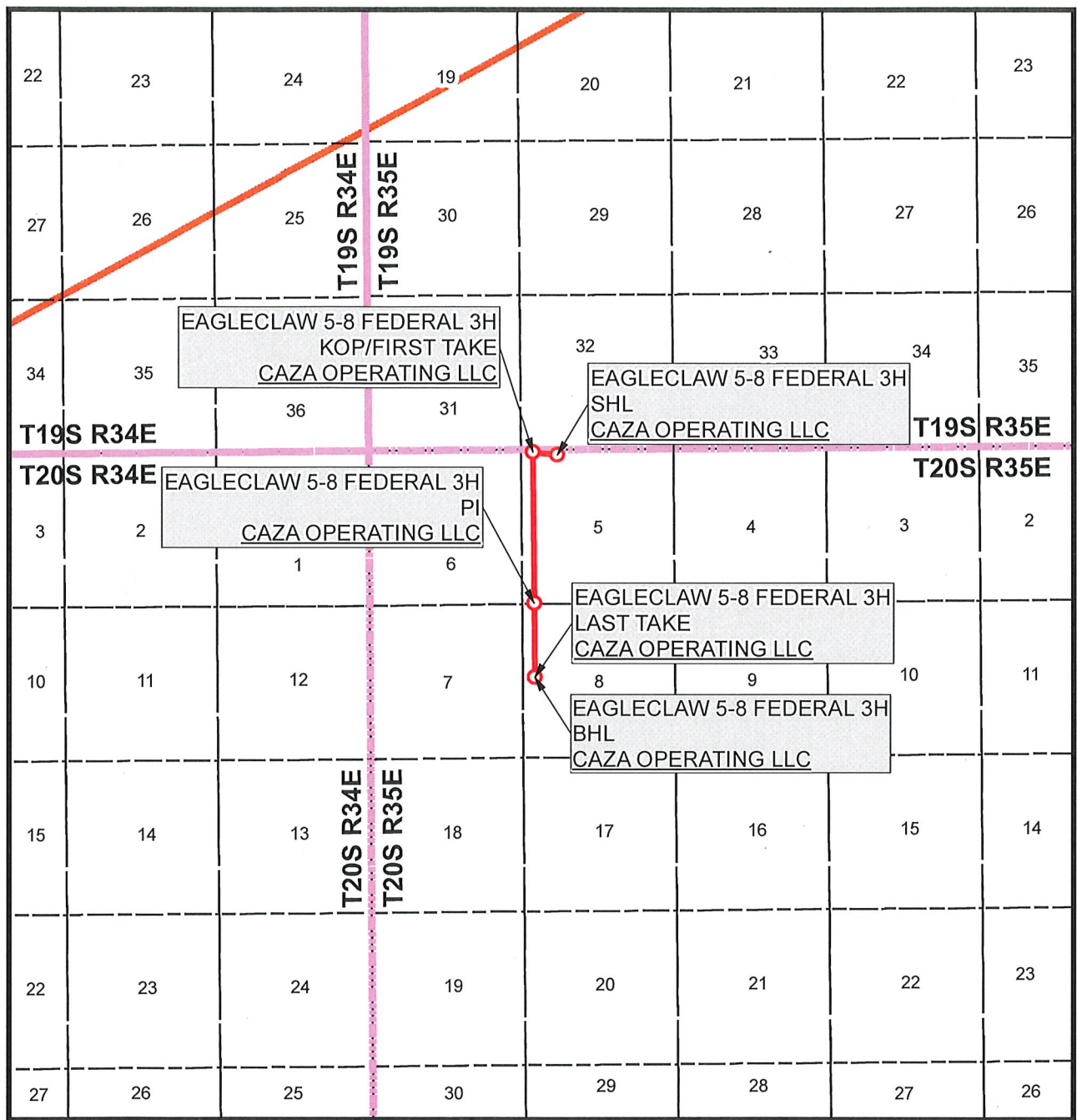
1" = 2,000'
 CONTOUR INTERVAL = 10'



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. R4046_003

VICINITY MAP



SEC. 5 TWP. 20-S RGE. 35-E
SURVEY: N.M.P.M.
COUNTY: LEA
OPERATOR: CAZA OPERATING LLC
DESCRIPTION: 206' FNL & 1275' FWL
ELEVATION: 3693'
LEASE: EAGLECLAW 5-8 FEDERAL
U.S.G.S. TOPOGRAPHIC MAP: MONUMENT SW, NM.

1" = 1 MILE



SHEET 3 OF 3
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District IV
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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 230829

DEFINITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 230829
	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: <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 230829

QUESTIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 230829
	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	[30-025-46827] EAGLE CLAW 5 8 FEDERAL COM #003H
Incident Facility	Unavailable.

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	No
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	Not answered.

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	66
Nitrogen (N2) percentage, if greater than one percent	3
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 230829

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 230829
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/05/2023
Time vent or flare was discovered or commenced	08:15 AM
Time vent or flare was terminated	10:15 AM
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: Other Gas Plant Natural Gas Flared Released: 128 Mcf Recovered: 0 Mcf Lost: 128 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 shutdown. This event was outside the control of the 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. This event was outside the control of the operator.

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ACKNOWLEDGMENTS

Action 230829

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Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 230829
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

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

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CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 230829
	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.	6/20/2023