



## Certificate of Analysis

Number: 6030-22100377-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Brent White  
Contango  
5847 San Felipe, Suite 3000  
Houston, TX 77057

Oct. 28, 2022

Station Name: Marathon 25 Battery  
Station Location: Contango  
Sample Point: Heater  
Instrument: 6030\_GC6 (Inficon GC-3000 Micro)  
Last Inst. Cal.: 10/03/2022 0:00 AM  
Analyzed: 10/27/2022 15:16:44 by EBH

Sampled By: Gene Rogers  
Sample Of: Gas Spot  
Sample Date: 10/21/2022  
Sample Conditions: 12 psig  
Effective Date: 10/21/2022  
Method: GPA-2261M  
Cylinder No: 5030-03121

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.20000	0.296		GPM TOTAL C2+	6.480
Nitrogen	3.461	3.43336	4.180		GPM TOTAL C3+	3.107
Methane	71.044	70.48631	49.150		GPM TOTAL iC5+	0.720
Carbon Dioxide	3.288	3.26172	6.239			
Ethane	12.664	12.56488	16.422	3.373		
Propane	5.925	5.87893	11.268	1.626		
Iso-butane	0.698	0.69223	1.749	0.227		
n-Butane	1.702	1.68845	4.265	0.534		
Iso-pentane	0.455	0.45183	1.417	0.166		
n-Pentane	0.465	0.46155	1.447	0.168		
Hexanes Plus	0.888	0.88074	3.567	0.386		
	100.590	100.00000	100.000	6.480		

## Calculated Physical Properties

	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7973	3.2176
Calculated Molecular Weight	23.01	93.19
Compressibility Factor	0.9960	

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia & 60°F

Real Gas Dry BTU	1251	5141
Water Sat. Gas Base BTU	1229	5052
Ideal, Gross HV - Dry at 14.73 psia	1245.7	5141.1
Ideal, Gross HV - Wet	1224.0	5051.6

Comments: H2S Field Content 2000 ppm

Hydrocarbon Laboratory Manager

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

## Meter Summary

MARATHON 25 STATE 7,24 CDP, Artesia

Unit	Meter / Date	OP Hrs	Gas (MCF)	Oil/Cond (bbl)	Water (bbl)
MARATHON 25 STATE 024	MARATHON 25 STATE 7,24 CDP Gas MTR		0.00	0.00	0.00
MARATHON 25 STATE 024	MARATHON 25 STATE 7,24 CDP WTR MTR		0.00	0.00	503.00
MARATHON 25 STATE 024	TEMP FLARE METER		230.00	0.00	0.00

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**Oil Conservation Division**  
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DEFINITIONS

Action 231086

DEFINITIONS

Operator: Contango Resources, LLC 111 E. 5TH STREET FORT WORTH, TX 76102	OGRID: 330447
	Action Number: 231086
	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"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 231086

**QUESTIONS**

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	Action Number: 231086
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**QUESTIONS**

<b>Prerequisites</b>	
<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 Operator	[330447] Contango Resources, LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	[30-015-34585] MARATHON 25 STATE #024
Incident Facility	Unavailable.
<i>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.</i>	

**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, 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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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	70
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	3
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 231086

**QUESTIONS (continued)**

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	Action Number: 231086
	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	10/19/2022
Time vent or flare was discovered or commenced	08:35 AM
Time vent or flare was terminated	01:13 PM
Cumulative hours during this event	1,757

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure   Gas Well   Natural Gas Flared   Released: 230 Mcf   Recovered: 0 Mcf   Lost: 230 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	[224903] FRONTIER FIELD SERVICES, LLC
Date notified of downstream activity requiring this vent or flare	10/19/2022
Time notified of downstream activity requiring this vent or flare	06:30 PM

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	Fire at plant downstream
Steps taken to limit the duration and magnitude of vent or flare	Duration determined by plant operations
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	unknown



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ACKNOWLEDGMENTS  
  
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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 231086

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	Action Number: 231086
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CONDITIONS

Created By	Condition	Condition Date
adenner	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.	6/21/2023