



Certificate of Analysis

Number: 6030-22020386-001A

Artesia Laboratory
 200 E Main St.
 Artesia, NM 88210
 Phone 575-746-3481

Alex Batista
 Taprock
 602 Park Point Drive
 Ste. 200
 Golden, CO 80401

Mar. 01, 2022

Station Name: Black Marlin CTB Sales Sour
 Station Number: 14801
 Sample Point: Meter run
 Formation: Spot
 County: Lea
 Type of Sample: Spot-Cylinder
 Heat Trace Used: N/A
 Sampling Method: Fill and Purge
 Sampling Company: SPL

Sampled By: Gerardo Rodriguez
 Sample Of: Gas Spot
 Sample Date: 02/24/2022 10:30
 Sample Conditions: 74.3 psig, @ 67.9 °F Ambient: 20 °F
 Effective Date: 02/24/2022 10:30
 Method: GPA 2286
 Cylinder No: 5030-01102
 Instrument: 6030_GC2 (Agilent GC-7890B)
 Last Inst. Cal.: 03/01/2022 8:20 AM
 Analyzed: 03/01/2022 09:20:24 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.800	1.170		GPM TOTAL C2+	6.614
Nitrogen	1.199	1.195	1.436		GPM TOTAL C3+	3.884
Methane	73.694	73.427	50.532		GPM TOTAL iC5+	1.062
Carbon Dioxide	2.015	2.008	3.791			
Ethane	10.204	10.167	13.115	2.730		
Propane	6.020	5.998	11.346	1.659		
Iso-butane	1.173	1.169	2.915	0.384		
n-Butane	2.469	2.460	6.134	0.779		
Iso-pentane	0.865	0.862	2.668	0.317		
n-Pentane	0.739	0.736	2.278	0.268		
Hexanes Plus	1.182	1.178	4.615	0.477		
	99.560	100.000	100.000	6.614		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8079	3.1414
Calculated Molecular Weight	23.31	90.98
Compressibility Factor	0.9957	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1326	4916
Water Sat. Gas Base BTU	1303	4830
Ideal, Gross HV - Dry at 14.73 psia	1320.6	4915.9
Ideal, Gross HV - Wet	1297.6	0.000
Net BTU Wet Gas - real gas	1185	

Comments: H2S Field Content 0.8 %
 Mcf/day 4818.8

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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Station Name:	Black Marlin CTB Sales Sour	Sampled By:	Gerardo Rodriguez
Station Number:	14801	Sample Of:	Gas Spot
Sample Point:	Meter run	Sample Date:	02/24/2022 10:30
Formation:	Spot	Sample Conditions:	74.3 psig, @ 67.9 °F
County:	Lea	Method:	GPA 2286
Type of Sample:	Spot-Cylinder	Cylinder No:	5030-01102
Heat Trace Used:	N/A	Analyzed:	03/01/2022 11:02:19 by KNF
Sampling Method:	Fill and Purge	Sampling Company:	SPL

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.800	1.170	
Nitrogen	1.195	1.436	
Methane	73.427	50.532	
Carbon Dioxide	2.008	3.791	
Ethane	10.167	13.115	2.730
Propane	5.998	11.346	1.659
Iso-Butane	1.169	2.915	0.384
n-Butane	2.460	6.134	0.779
Iso-Pentane	0.862	2.668	0.317
n-Pentane	0.736	2.278	0.268
i-Hexanes	0.381	1.381	0.153
n-Hexane	0.194	0.704	0.079
Benzene	0.051	0.169	0.014
Cyclohexane	0.095	0.341	0.032
i-Heptanes	0.220	0.873	0.089
n-Heptane	0.045	0.193	0.021
Toluene	0.040	0.156	0.013
i-Octanes	0.106	0.489	0.048
n-Octane	0.008	0.039	0.004
Ethylbenzene	0.002	0.012	0.001
Xylenes	0.007	0.033	0.003
i-Nonanes	0.011	0.067	0.006
n-Nonane	0.001	0.008	0.001
Decanes Plus	0.017	0.150	0.013
	<u>100.000</u>	<u>100.000</u>	<u>6.614</u>



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Station Name:	Black Marlin CTB Sales Sour	Sampled By:	Gerardo Rodriguez
Station Number:	14801	Sample Of:	Gas Spot
Sample Point:	Meter run	Sample Date:	02/24/2022 10:30
Formation:	Spot	Sample Conditions:	74.3 psig, @ 67.9 °F
County:	Lea	Method:	GPA 2286
Type of Sample:	Spot-Cylinder	Cylinder No:	5030-01102
Heat Trace Used:	N/A	Analyzed:	03/01/2022 11:02:19 by KNF
Sampling Method:	Fill and Purge	Sampling Company:	SPL

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	23.31	185.24
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1326.4	10096.1
Water Sat. Gas Base BTU	1303.3	9877.3
Relative Density Real Gas	0.8079	6.3957
Compressibility Factor	0.9957	
Ideal, Gross HV - Wet	1297.6	
Ideal, Gross HV - Dry at 14.73 psia	1320.6	
Net BTU Dry Gas - real gas	1206	
Net BTU Wet Gas - real gas	1185	

Comments: H2S Field Content 0.8 %
Mcf/day 4818.8

Hydrocarbon Laboratory Manager

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

FLARING SUMMARY

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start	End

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 325171

DEFINITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 325171
	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 325171

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 325171
	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 Facility	[fAPP2126030240] BLACK MARLIN CTB

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	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	73
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	8,000
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 325171

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 325171
	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	03/12/2024
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	8

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Midstream Scheduled Maintenance Pipeline (Any) Natural Gas Flared Released: 820 Mcf Recovered: 0 Mcf Lost: 820 Mcf.
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	[371960] LUCID ENERGY DELAWARE, LLC
Date notified of downstream activity requiring this vent or flare	03/08/2024
Time notified of downstream activity requiring this vent or flare	01:00 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	The flaring can be attributed to high line pressure due to the midstream provider shutting in their line to commission/tie-in a new line. Due to the inability for midstream to take gas, flaring was required.
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with vendor to coordinate service time and minimize downtime.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. No way to avoid periodic downtime for maintenance/repairs to address unforeseen issues.

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ACKNOWLEDGMENTS

Action 325171

ACKNOWLEDGMENTS

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	Action Number: 325171
	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 325171

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Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 325171
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
mlaruecdh	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.	3/20/2024