



# 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		
	<u>99.560</u>	<u>100.000</u>	<u>100.000</u>	<u>6.614</u>		

### 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 ft<sup>3</sup> @ 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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Mar. 01, 2022

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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Mar. 01, 2022

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

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Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	23.31	185.24
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
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 307362

**DEFINITIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 307362
	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:

- 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 307362

**QUESTIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 307362
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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 Well	Unavailable.
Incident Facility	[fAPP2126030240] Black Marlin CTB

<b>Determination of Reporting Requirements</b>	
<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

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
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
<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 307362

**QUESTIONS (continued)**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 307362
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/16/2024
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	1

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: High Line Pressure   Pipeline (Any)   Natural Gas Flared   Released: 77 Mcf   Recovered: 0 Mcf   Lost: 77 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	No
Downstream OGRID that should have notified this operator	[371960] LUCID ENERGY DELAWARE, 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	The location experienced a malfunction that was not anticipated and the flaring can be attributed to high line pressure from our midstream provider. Due to this 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 307362

**ACKNOWLEDGMENTS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 307362
	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 <b>complete</b> 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  
 Action 307362

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Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 307362
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
mlaruecdh	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.	1/24/2024