



# Certificate of Analysis

Number: 6030-21100044-002A

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

Travis Hutchinson  
 Franklin Mountain Energy  
 44 Cook St  
 Suite 1000  
 Denver, CO 80206

Oct. 13, 2021

Station Name: Carnival CTB Sales  
 Station Number: 14790  
 Station Location: Franklin Mountain  
 Sample Point: Meter Run  
 Instrument: 6030\_GC2 (Agilent GC-7890B)  
 Last Inst. Cal.: 09/13/2021 14:54 PM  
 Analyzed: 10/12/2021 06:38:31 by KNF

Sampled By: Michael Mirabal  
 Sample Of: Gas Spot  
 Sample Date: 10/04/2021 02:51  
 Sample Conditions: 102 psia, @ 117 °F  
 Effective Date: 10/04/2021 02:51  
 Method: GPA 2286  
 Cylinder No: 5030-04978

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.03000	0.046		GPM TOTAL C2+ 6.454
Nitrogen	1.403	1.42800	1.795		GPM TOTAL C3+ 3.316
Methane	73.528	74.85900	53.881		GPM TOTAL iC5+ 0.699
Carbon Dioxide	1.069	1.08800	2.148		
Ethane	11.509	11.71700	15.807	3.138	
Propane	6.029	6.13800	12.144	1.693	
Iso-butane	0.853	0.86800	2.264	0.284	
n-Butane	1.992	2.02800	5.289	0.640	
Iso-pentane	0.579	0.58900	1.907	0.216	
n-Pentane	0.476	0.48500	1.570	0.176	
Hexanes Plus	0.756	0.77000	3.149	0.307	
	98.194	100.00000	100.000	6.454	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7723	3.1419
Calculated Molecular Weight	22.29	91.00
Compressibility Factor	0.9960	

**GPA 2172 Calculation:**

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

Real Gas Dry BTU	1298	4869
Water Sat. Gas Base BTU	1276	4784
Ideal, Gross HV - Dry at 14.696 psia	1292.9	4869.0
Ideal, Gross HV - Wet	1270.4	0.000

**Comments:** H2S Field Content 300 ppm

Data reviewed by: Krystle Fitzwater, 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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Oct. 13, 2021

Station Name: Carnival CTB Sales  
 Station Number: 14790  
 Station Location: Franklin Mountain  
 Sample Point: Meter Run  
 Analyzed: 10/12/2021 07:47:10 by KNF

Sampled By: Michael Mirabal  
 Sample Of: Gas Spot  
 Sample Date: 10/04/2021 02:51  
 Sample Conditions: 102 psia, @ 117 °F  
 Method: GPA 2286  
 Cylinder No: 5030-04978

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.030	0.046	
Nitrogen	1.428	1.795	
Methane	74.859	53.881	
Carbon Dioxide	1.088	2.148	
Ethane	11.717	15.807	3.138
Propane	6.138	12.144	1.693
Iso-Butane	0.868	2.264	0.284
n-Butane	2.028	5.289	0.640
Iso-Pentane	0.589	1.907	0.216
n-Pentane	0.485	1.570	0.176
i-Hexanes	0.209	0.797	0.084
n-Hexane	0.113	0.425	0.045
Benzene	0.054	0.188	0.015
Cyclohexane	0.069	0.262	0.024
i-Heptanes	0.129	0.537	0.053
n-Heptane	0.029	0.133	0.014
Toluene	0.039	0.162	0.013
i-Octanes	0.078	0.370	0.035
n-Octane	0.008	0.039	0.004
Ethylbenzene	0.004	0.020	0.002
Xylenes	0.011	0.051	0.004
i-Nonanes	0.015	0.086	0.008
n-Nonane	0.004	0.020	0.002
Decanes Plus	0.008	0.059	0.004
	<u>100.000</u>	<u>100.000</u>	<u>6.454</u>



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Oct. 13, 2021

Station Name: Carnival CTB Sales  
Station Number: 14790  
Station Location: Franklin Mountain  
Sample Point: Meter Run  
Analyzed: 10/12/2021 07:47:10 by KNF

Sampled By: Michael Mirabal  
Sample Of: Gas Spot  
Sample Date: 10/04/2021 02:51  
Sample Conditions: 102 psia, @ 117 °F  
Method: GPA 2286  
Cylinder No: 5030-04978

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	22.29	151.89
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia &amp; 60°F</b>		
Real Gas Dry BTU	1298.1	8150.9
Water Sat. Gas Base BTU	1275.5	7976.9
Relative Density Real Gas	0.7723	5.2444
Compressibility Factor	0.9960	
Ideal, Gross HV - Wet	1270.4	
Ideal, Gross HV - Dry at 14.696 psia	1292.9	
Net BTU Dry Gas - real gas	1179	
Net BTU Wet Gas - real gas	1159	

**Comments:** H2S Field Content 300 ppm

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

Operator	CTB	Event	Start Time	End Time	Duration (Hr)	Total (MCF)
Franklin Mountain	Carnival	50 MCF	5/15/2022 0:00	5/15/2022 2:09	2.13	443.91
Franklin Mountain	Carnival	50 MCF	5/15/2022 3:34	5/15/2022 4:13	0.63	83.91
Franklin Mountain	Carnival	50 MCF	5/15/2022 5:16	5/15/2022 5:46	0.48	54.95
Franklin Mountain	Carnival	50 MCF	5/15/2022 8:23	5/15/2022 9:27	1.05	224.2
Franklin Mountain	Carnival	50 MCF	5/15/2022 12:24	5/15/2022 13:43	1.32	231.25
Franklin Mountain	Carnival	50 MCF	5/15/2022 17:49	5/15/2022 18:20	0.5	81.41
Franklin Mountain	Carnival	50 MCF	5/15/2022 19:08	5/15/2022 21:06	1.97	477.11
Franklin Mountain	Green Light	50 MCF	5/15/2022 19:25	5/15/2022 20:30	1.07	371.23
Franklin Mountain	Carnival	50 MCF	5/15/2022 22:03	5/16/2022 0:00	1.93	442.02

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**District III**  
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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 109846

**DEFINITIONS**

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 109846
	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 109846

**QUESTIONS**

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 109846
	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	Not answered.
Incident Facility	[fAPP2123468509] Carnival 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	Gas Compressor Station
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	74
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	1
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 109846

**QUESTIONS (continued)**

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 109846
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/15/2022
Time vent or flare was discovered or commenced	07:08 PM
Time vent or flare was terminated	09:06 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	Cause: High Line Pressure   Gas Compressor Station   Natural Gas Flared   Released: 477 Mcf   Recovered: 0 Mcf   Lost: 477 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	[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	Foaming issues at the compressor station. Recycle to clean station
Steps taken to limit the duration and magnitude of vent or flare	Did not open chokes
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Urge lucid to put in control to limit operators sending them liquids

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ACKNOWLEDGMENTS

Action 109846

**ACKNOWLEDGMENTS**

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 109846
	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 109846

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Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 109846
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
tbiggart	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.	5/24/2022