



# Certificate of Analysis

Number: 5030-20100190-012A

**Midland Laboratory**  
 2200 East I-20  
 Midland, TX 79706  
 Phone 432-689-7252

Travis Hutchinson  
 Franklin Mountain Energy,LLC  
 2401 East 2nd Avenue  
 Suite 300  
 Denver, CO 80206

Oct. 23, 2020

Station Name: PARADE STATE 1H FLARE  
 Method: GPA 2286  
 Cylinder No: 5030-01043  
 Analyzed: 10/14/2020 08:45:41 by CDW

Sampled By: MICHAEL  
 Sample Of: Gas Spot  
 Sample Date: 10/07/2020  
 Sample Conditions: 123 psig, @ 81 °F

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.000		GPM TOTAL C2+ 5.844
Nitrogen	1.637	2.127		GPM TOTAL C3+ 2.734
Carbon Dioxide	1.538	3.140		GPM TOTAL IC5+ 0.395
Methane	76.041	56.587		
Ethane	11.618	16.205	3.110	
Propane	5.841	11.948	1.611	
Iso-butane	0.707	1.906	0.232	
n-Butane	1.573	4.241	0.496	
Iso-pentane	0.339	1.135	0.124	
n-Pentane	0.297	0.994	0.108	
Hexanes Plus	0.409	1.717	0.163	
	100.000	100.000	5.844	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7467	3.1030
Calculated Molecular Weight	21.56	89.87
Compressibility Factor	0.9964	

**GPA 2172 Calculation:**

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

Real Gas Dry BTU	1245	4820
Water Sat. Gas Base BTU	1223	4736

Hydrocarbon Laboratory Manager

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## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.000		GPM TOTAL C2+	5.8440
Nitrogen	1.637	2.127		GPM TOTAL C3+	2.7340
Methane	76.041	56.587		GPM TOTAL IC5+	0.3950
Carbon Dioxide	1.538	3.140			
Ethane	11.618	16.205	3.110		
Propane	5.841	11.948	1.611		
Iso-Butane	0.707	1.906	0.232		
n-Butane	1.573	4.241	0.496		
Iso-Pentane	0.339	1.135	0.124		
n-Pentane	0.297	0.994	0.108		
Hexanes	0.196	0.749	0.077		
Heptanes Plus	0.213	0.968	0.086		
	<u>100.000</u>	<u>100.000</u>	<u>5.844</u>		

Calculated Physical Properties	Total	C7+
Relative Density Real Gas	0.7467	3.2469
Calculated Molecular Weight	21.56	94.04
Compressibility Factor	0.9964	
<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	1244.6	4939.7
Water Sat. Gas Base BTU	1222.9	4853.5

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 Sample Of: Gas Spot  
 Sample Date: 10/07/2020  
 Sample Conditions: 123 psig, @ 81 °F

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.000		GPM TOTAL C2+ 5.844
Nitrogen	1.637	2.127		
Carbon Dioxide	1.538	3.140		
Methane	76.041	56.587		
Ethane	11.618	16.205	3.110	
Propane	5.841	11.948	1.611	
Iso-Butane	0.707	1.906	0.232	
n-Butane	1.573	4.241	0.496	
Iso-Pentane	0.339	1.135	0.124	
n-Pentane	0.297	0.994	0.108	
i-Hexanes	0.127	0.488	0.050	
n-Hexane	0.069	0.261	0.027	
Benzene	0.029	0.101	0.008	
Cyclohexane	0.036	0.136	0.012	
i-Heptanes	0.071	0.306	0.029	
n-Heptane	0.015	0.069	0.007	
Toluene	0.017	0.072	0.006	
i-Octanes	0.033	0.180	0.016	
n-Octane	0.004	0.020	0.002	
Ethylbenzene	0.001	0.006	0.000	
Xylenes	0.003	0.015	0.001	
i-Nonanes	0.002	0.029	0.002	
n-Nonane	0.001	0.006	0.001	
Decane Plus	0.001	0.028	0.002	
	<u>100.000</u>	<u>100.000</u>	<u>5.844</u>	

Calculated Physical Properties	Total	C10+
Relative Density Real Gas	0.7467	4.6410
Calculated Molecular Weight	21.56	134.41
Compressibility Factor	0.9964	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft³ @ 14.696 psia &amp; 60°F</b>		
Real Gas Dry BTU	1244.6	6985.3
Water Sat. Gas Base BTU	1222.9	6838.5

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Cylinder No: 5030-01043

Sampled By: MICHAEL  
Sample Of: Gas Spot  
Sample Date: 10/07/2020

Analytical Data

Test	Method	Result	Units	Detection Limit	Lab Tech.	Analysis Date
Hydrogen Sulfide	ASTM D-4810	1	ppm		MGN	10/22/2020

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Operator	CTB	Event	Start Time	End Time	Duration (Hr)	Total (MCF)
Franklin Mountain	Carnival	500 MCF	5/8/2022 1:05	5/8/2022 3:10	2.08	541.34
Franklin Mountain	Parade	50 MCF	5/8/2022 2:03	5/8/2022 3:08	1.08	53.66
Franklin Mountain	Parade	50 MCF	5/8/2022 4:25	5/8/2022 8:53	4.47	199.83
Franklin Mountain	Green Light	500 MCF	5/8/2022 7:27	5/8/2022 9:02	1.57	899.39
Franklin Mountain	Parade	50 MCF	5/8/2022 8:54	5/8/2022 12:18	3.4	157
Franklin Mountain	Carnival	50 MCF	5/8/2022 10:15	5/8/2022 10:46	0.5	54.73
Franklin Mountain	Carnival	500 MCF	5/8/2022 11:49	5/8/2022 15:24	3.57	754.08
Franklin Mountain	Parade	50 MCF	5/8/2022 12:22	5/8/2022 17:31	5.13	238.41
Franklin Mountain	Carnival	500 MCF	5/8/2022 15:40	5/8/2022 19:17	3.6	878.34
Franklin Mountain	Green Light	50 MCF	5/8/2022 16:10	5/8/2022 16:51	0.68	117.56
Franklin Mountain	Parade	50 MCF	5/8/2022 18:12	5/8/2022 21:30	3.3	136.17
Franklin Mountain	Carnival	50 MCF	5/8/2022 19:24	5/8/2022 19:45	0.35	54.61
Franklin Mountain	Carnival	50 MCF	5/8/2022 20:28	5/8/2022 21:36	1.13	247.69
Franklin Mountain	Parade	50 MCF	5/8/2022 21:31	5/8/2022 23:44	2.22	91.05
Franklin Mountain	Carnival	50 MCF	5/8/2022 21:50	5/8/2022 22:23	0.53	52.77

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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 105564

**DEFINITIONS**

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 105564
	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 105564

**QUESTIONS**

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 105564
	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	[fAPP2123468744] Parade Flare

<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	76
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
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 (continued)**

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 105564
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/08/2022
Time vent or flare was discovered or commenced	08:54 AM
Time vent or flare was terminated	12:18 PM
Cumulative hours during this event	3

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: 157 Mcf   Recovered: 0 Mcf   Lost: 157 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	Comp down. Hot valves. Rotated taking units down 1 at a time.
Steps taken to limit the duration and magnitude of vent or flare	held gas lift injection rate
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Bi Weekly Ops discussion with Lucid



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ACKNOWLEDGMENTS

Action 105564

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Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 105564
	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 105564

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	Action Number: 105564
	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.	5/10/2022