



No Results Available  
Number: 5030-21120362-001A

**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

Dec. 22, 2021

Station Name: JUDGE BAYLOR FED COM 701H  
Method: GPA 2286  
Cylinder No: 5030-03316

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021  
Sample Conditions: 76 psig, @ 102 °F

The above-mentioned sample could not be analyzed properly by our laboratory personnel due to:

**Sample ran out during purge to GC and valves were in good working condition.**

We regret that an analysis could not be performed and recommend that another sample be collected, if appropriate. Please contact us if we can be of any assistance in this matter.

A handwritten signature in blue ink, likely belonging to the Hydrocarbon Laboratory Manager.

Hydrocarbon Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-001A

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

Dec. 22, 2021

Station Name: JUDGE BAYLOR FED COM 701H  
Sample Conditions: 76 psig, @ 102 °F  
Cylinder No: 5030-03316

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021

**Analytical Data**

| Test             | Method      | Result | Units | Detection Limit | Lab Tech. | Analysis Date |
|------------------|-------------|--------|-------|-----------------|-----------|---------------|
| Hydrogen Sulfide | ASTM D-4810 | NA     |       |                 |           |               |

**Comments:**

AS-H2SLST: NA = No Results Available: Sample ran out during purge to GC and valves were in good working condition.

Hydrocarbon Laboratory Manager

Quality Assurance:

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

Powered By SURECHEM™



## Certificate of Analysis

Number: 5030-21120362-002A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB UPSTREAM VALKYRIE  
Method: GPA 2286  
Cylinder No: 5030-02460  
Analyzed: 12/17/2021 13:03:38 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 14:50  
Sample Conditions: 78 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |       |
|------------------|---------|---------|-----------------------|----------------|-------|
| Hydrogen Sulfide | 0.020   | 0.028   |                       | GPM TOTAL C2+  | 8.529 |
| Nitrogen         | 1.294   | 1.481   |                       | GPM TOTAL C3+  | 4.927 |
| Carbon Dioxide   | 0.517   | 0.930   |                       | GPM TOTAL IC5+ | 1.166 |
| Methane          | 68.776  | 45.094  |                       |                |       |
| Ethane           | 13.436  | 16.511  | 3.602                 |                |       |
| Propane          | 8.623   | 15.540  | 2.381                 |                |       |
| Iso-butane       | 1.138   | 2.703   | 0.373                 |                |       |
| n-Butane         | 3.186   | 7.568   | 1.007                 |                |       |
| Iso-pentane      | 0.794   | 2.341   | 0.291                 |                |       |
| n-Pentane        | 0.848   | 2.500   | 0.308                 |                |       |
| Hexanes Plus     | 1.368   | 5.304   | 0.567                 |                |       |
|                  | 100.000 | 100.000 | 8.529                 |                |       |

| Calculated Physical Properties | Total  | C6+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.8484 | 3.2490 |
| Calculated Molecular Weight    | 24.47  | 94.10  |
| Compressibility Factor         | 0.9950 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1433 | 5056 |
| Water Sat. Gas Base BTU | 1408 | 4968 |

Comments: H2S Field Content 200 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-002A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB UPSTREAM VALKYRIE  
Method: GPA 2286  
Cylinder No: 5030-02460  
Analyzed: 12/17/2021 13:03:38 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 14:50  
Sample Conditions: 78 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |
|------------------|---------|---------|-----------------------|----------------|
| Hydrogen Sulfide | 0.020   | 0.028   |                       | GPM TOTAL C2+  |
| Nitrogen         | 1.294   | 1.481   |                       | GPM TOTAL C3+  |
| Methane          | 68.776  | 45.094  |                       | GPM TOTAL IC5+ |
| Carbon Dioxide   | 0.517   | 0.930   |                       |                |
| Ethane           | 13.436  | 16.511  | 3.602                 |                |
| Propane          | 8.623   | 15.540  | 2.381                 |                |
| Iso-Butane       | 1.138   | 2.703   | 0.373                 |                |
| n-Butane         | 3.186   | 7.568   | 1.007                 |                |
| Iso-Pentane      | 0.794   | 2.341   | 0.291                 |                |
| n-Pentane        | 0.848   | 2.500   | 0.308                 |                |
| Hexanes          | 0.506   | 1.754   | 0.204                 |                |
| Heptanes Plus    | 0.862   | 3.550   | 0.363                 |                |
|                  | 100.000 | 100.000 | 8.529                 |                |

| Calculated Physical Properties | Total  | C7+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.8484 | 3.4300 |
| Calculated Molecular Weight    | 24.47  | 99.34  |
| Compressibility Factor         | 0.9950 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1432.5 | 5272.0 |
| Water Sat. Gas Base BTU | 1407.5 | 5180.0 |

Comments: H2S Field Content 200 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-002A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB UPSTREAM VALKYRIE  
Method: GPA 2286  
Cylinder No: 5030-02460  
Analyzed: 12/17/2021 13:03:38 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 14:50  
Sample Conditions: 78 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |  |
|------------------|---------|---------|-----------------------|--|
| Hydrogen Sulfide | 0.020   | 0.028   |                       |  |
| Nitrogen         | 1.294   | 1.481   |                       |  |
| Carbon Dioxide   | 0.517   | 0.930   |                       |  |
| Methane          | 68.776  | 45.094  |                       |  |
| Ethane           | 13.436  | 16.511  | 3.602                 |  |
| Propane          | 8.623   | 15.540  | 2.381                 |  |
| Iso-Butane       | 1.138   | 2.703   | 0.373                 |  |
| n-Butane         | 3.186   | 7.568   | 1.007                 |  |
| Iso-Pentane      | 0.794   | 2.341   | 0.291                 |  |
| n-Pentane        | 0.848   | 2.500   | 0.308                 |  |
| i-Hexanes        | 0.319   | 1.091   | 0.127                 |  |
| n-Hexane         | 0.187   | 0.663   | 0.077                 |  |
| Benzene          | 0.061   | 0.195   | 0.017                 |  |
| Cyclohexane      | 0.123   | 0.423   | 0.042                 |  |
| i-Heptanes       | 0.204   | 0.835   | 0.089                 |  |
| n-Heptane        | 0.084   | 0.347   | 0.039                 |  |
| Toluene          | 0.029   | 0.110   | 0.010                 |  |
| i-Octanes        | 0.274   | 1.178   | 0.120                 |  |
| n-Octane         | 0.031   | 0.142   | 0.016                 |  |
| Ethylbenzene     | 0.012   | 0.049   | 0.005                 |  |
| Xylenes          | 0.004   | 0.016   | 0.002                 |  |
| i-Nonanes        | 0.022   | 0.130   | 0.012                 |  |
| n-Nonane         | 0.005   | 0.025   | 0.003                 |  |
| Decane Plus      | 0.013   | 0.100   | 0.008                 |  |
|                  | 100.000 | 100.000 | 8.529                 |  |

## Calculated Physical Properties

|                             |        |        |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 0.8484 | 4.6226 |
| Calculated Molecular Weight | 24.47  | 133.88 |
| Compressibility Factor      | 0.9950 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1432.5 | 7055.5 |
| Water Sat. Gas Base BTU | 1407.5 | 6898.1 |

Comments: H<sub>2</sub>S Field Content 200 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-003A

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

Dec. 22, 2021

Station Name: KASTON 703H  
Method: GPA 2286  
Cylinder No: 5030-01181  
Analyzed: 12/17/2021 12:33:37 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 11:56  
Sample Conditions: 81 psig, @ 100.5 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                      |
|------------------|---------|---------|-----------------------|----------------------|
| Hydrogen Sulfide | 0.010   | 0.015   |                       | GPM TOTAL C2+ 6.970  |
| Nitrogen         | 1.388   | 1.727   |                       | GPM TOTAL C3+ 3.541  |
| Carbon Dioxide   | 0.404   | 0.790   |                       | GPM TOTAL IC5+ 0.727 |
| Methane          | 73.746  | 52.544  |                       |                      |
| Ethane           | 12.801  | 17.096  | 3.429                 |                      |
| Propane          | 6.837   | 13.390  | 1.887                 |                      |
| Iso-butane       | 0.791   | 2.042   | 0.259                 |                      |
| n-Butane         | 2.115   | 5.460   | 0.668                 |                      |
| Iso-pentane      | 0.493   | 1.580   | 0.181                 |                      |
| n-Pentane        | 0.518   | 1.660   | 0.188                 |                      |
| Hexanes Plus     | 0.897   | 3.696   | 0.358                 |                      |
|                  | 100.000 | 100.000 | 6.970                 |                      |

| Calculated Physical Properties | Total  | C6+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.7798 | 3.1446 |
| Calculated Molecular Weight    | 22.52  | 91.08  |
| Compressibility Factor         | 0.9959 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1328 | 4879 |
| Water Sat. Gas Base BTU | 1305 | 4794 |

Comments: H2S Field Content 100 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-003A

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

Dec. 22, 2021

Station Name: KASTON 703H  
Method: GPA 2286  
Cylinder No: 5030-01181  
Analyzed: 12/17/2021 12:33:37 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 11:56  
Sample Conditions: 81 psig, @ 100.5 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                       |
|------------------|---------|---------|-----------------------|-----------------------|
| Hydrogen Sulfide | 0.010   | 0.015   |                       | GPM TOTAL C2+ 6.9700  |
| Nitrogen         | 1.388   | 1.727   |                       | GPM TOTAL C3+ 3.5410  |
| Methane          | 73.746  | 52.544  |                       | GPM TOTAL IC5+ 0.7270 |
| Carbon Dioxide   | 0.404   | 0.790   |                       |                       |
| Ethane           | 12.801  | 17.096  | 3.429                 |                       |
| Propane          | 6.837   | 13.390  | 1.887                 |                       |
| Iso-Butane       | 0.791   | 2.042   | 0.259                 |                       |
| n-Butane         | 2.115   | 5.460   | 0.668                 |                       |
| Iso-Pentane      | 0.493   | 1.580   | 0.181                 |                       |
| n-Pentane        | 0.518   | 1.660   | 0.188                 |                       |
| Hexanes          | 0.365   | 1.396   | 0.149                 |                       |
| Heptanes Plus    | 0.532   | 2.300   | 0.209                 |                       |
|                  | 100.000 | 100.000 | 6.970                 |                       |

| Calculated Physical Properties | Total  | C7+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.7798 | 3.2875 |
| Calculated Molecular Weight    | 22.52  | 95.21  |
| Compressibility Factor         | 0.9959 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1327.9 | 5012.5 |
| Water Sat. Gas Base BTU | 1304.7 | 4925.0 |

Comments: H2S Field Content 100 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-003A

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

Dec. 22, 2021

Station Name: KASTON 703H  
Method: GPA 2286  
Cylinder No: 5030-01181  
Analyzed: 12/17/2021 12:33:37 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 11:56  
Sample Conditions: 81 psig, @ 100.5 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                     |
|------------------|---------|---------|-----------------------|---------------------|
| Hydrogen Sulfide | 0.010   | 0.015   |                       | GPM TOTAL C2+ 6.970 |
| Nitrogen         | 1.388   | 1.727   |                       |                     |
| Carbon Dioxide   | 0.404   | 0.790   |                       |                     |
| Methane          | 73.746  | 52.544  |                       |                     |
| Ethane           | 12.801  | 17.096  | 3.429                 |                     |
| Propane          | 6.837   | 13.390  | 1.887                 |                     |
| Iso-Butane       | 0.791   | 2.042   | 0.259                 |                     |
| n-Butane         | 2.115   | 5.460   | 0.668                 |                     |
| Iso-Pentane      | 0.493   | 1.580   | 0.181                 |                     |
| n-Pentane        | 0.518   | 1.660   | 0.188                 |                     |
| i-Hexanes        | 0.227   | 0.869   | 0.092                 |                     |
| n-Hexane         | 0.138   | 0.527   | 0.057                 |                     |
| Benzene          | 0.055   | 0.191   | 0.015                 |                     |
| Cyclohexane      | 0.074   | 0.281   | 0.026                 |                     |
| i-Heptanes       | 0.166   | 0.690   | 0.067                 |                     |
| n-Heptane        | 0.042   | 0.185   | 0.019                 |                     |
| Toluene          | 0.043   | 0.179   | 0.015                 |                     |
| i-Octanes        | 0.099   | 0.461   | 0.043                 |                     |
| n-Octane         | 0.012   | 0.060   | 0.006                 |                     |
| Ethylbenzene     | 0.004   | 0.020   | 0.002                 |                     |
| Xylenes          | 0.009   | 0.043   | 0.004                 |                     |
| i-Nonanes        | 0.016   | 0.105   | 0.007                 |                     |
| n-Nonane         | 0.004   | 0.023   | 0.002                 |                     |
| Decane Plus      | 0.008   | 0.062   | 0.003                 |                     |
|                  | 100.000 | 100.000 | 6.970                 |                     |

## Calculated Physical Properties

|                             |        |             |
|-----------------------------|--------|-------------|
| Relative Density Real Gas   | 0.7798 | C10+ 4.2891 |
| Calculated Molecular Weight | 22.52  | 124.22      |
| Compressibility Factor      | 0.9959 |             |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1327.9 | 6466.1 |
| Water Sat. Gas Base BTU | 1304.7 | 6327.1 |

Comments: H2S Field Content 100 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-004A

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

Dec. 22, 2021

Station Name: BUS DRIVER FED COM 702H  
Method: GPA 2286  
Cylinder No: 5030-02851  
Analyzed: 12/17/2021 13:32:49 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 12:56  
Sample Conditions: 93 psig, @ 118 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |       |
|------------------|---------|---------|-----------------------|----------------|-------|
| Hydrogen Sulfide | 0.010   | 0.015   |                       | GPM TOTAL C2+  | 7.510 |
| Nitrogen         | 1.395   | 1.685   |                       | GPM TOTAL C3+  | 4.011 |
| Carbon Dioxide   | 0.396   | 0.752   |                       | GPM TOTAL IC5+ | 0.907 |
| Methane          | 72.026  | 49.829  |                       |                |       |
| Ethane           | 13.061  | 16.937  | 3.499                 |                |       |
| Propane          | 7.401   | 14.074  | 2.043                 |                |       |
| Iso-butane       | 0.883   | 2.213   | 0.289                 |                |       |
| n-Butane         | 2.444   | 6.126   | 0.772                 |                |       |
| Iso-pentane      | 0.588   | 1.830   | 0.215                 |                |       |
| n-Pentane        | 0.636   | 1.979   | 0.231                 |                |       |
| Hexanes Plus     | 1.160   | 4.560   | 0.461                 |                |       |
|                  | 100.000 | 100.000 | 7.510                 |                |       |

| Calculated Physical Properties | Total  | C6+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.8036 | 3.1217 |
| Calculated Molecular Weight    | 23.19  | 90.41  |
| Compressibility Factor         | 0.9956 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1365 | 4845 |
| Water Sat. Gas Base BTU | 1341 | 4761 |

Comments: H2S Field Content 100 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-004A

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

Dec. 22, 2021

Station Name: BUS DRIVER FED COM 702H  
Method: GPA 2286  
Cylinder No: 5030-02851  
Analyzed: 12/17/2021 13:32:49 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 12:56  
Sample Conditions: 93 psig, @ 118 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |        |
|------------------|---------|---------|-----------------------|----------------|--------|
| Hydrogen Sulfide | 0.010   | 0.015   |                       | GPM TOTAL C2+  | 7.5100 |
| Nitrogen         | 1.395   | 1.685   |                       | GPM TOTAL C3+  | 4.0110 |
| Methane          | 72.026  | 49.829  |                       | GPM TOTAL IC5+ | 0.9070 |
| Carbon Dioxide   | 0.396   | 0.752   |                       |                |        |
| Ethane           | 13.061  | 16.937  | 3.499                 |                |        |
| Propane          | 7.401   | 14.074  | 2.043                 |                |        |
| Iso-Butane       | 0.883   | 2.213   | 0.289                 |                |        |
| n-Butane         | 2.444   | 6.126   | 0.772                 |                |        |
| Iso-Pentane      | 0.588   | 1.830   | 0.215                 |                |        |
| n-Pentane        | 0.636   | 1.979   | 0.231                 |                |        |
| Hexanes          | 0.493   | 1.812   | 0.199                 |                |        |
| Heptanes Plus    | 0.667   | 2.748   | 0.262                 |                |        |
|                  | 100.000 | 100.000 | 7.510                 |                |        |

| Calculated Physical Properties | Total  | C7+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.8036 | 3.2549 |
| Calculated Molecular Weight    | 23.19  | 94.27  |
| Compressibility Factor         | 0.9956 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1364.6 | 4959.6 |
| Water Sat. Gas Base BTU | 1340.8 | 4873.1 |

Comments: H2S Field Content 100 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-004A

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

Dec. 22, 2021

Station Name: BUS DRIVER FED COM 702H  
Method: GPA 2286  
Cylinder No: 5030-02851  
Analyzed: 12/17/2021 13:32:49 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 12:56  
Sample Conditions: 93 psig, @ 118 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                     |
|------------------|---------|---------|-----------------------|---------------------|
| Hydrogen Sulfide | 0.010   | 0.015   |                       | GPM TOTAL C2+ 7.510 |
| Nitrogen         | 1.395   | 1.685   |                       |                     |
| Carbon Dioxide   | 0.396   | 0.752   |                       |                     |
| Methane          | 72.026  | 49.829  |                       |                     |
| Ethane           | 13.061  | 16.937  | 3.499                 |                     |
| Propane          | 7.401   | 14.074  | 2.043                 |                     |
| Iso-Butane       | 0.883   | 2.213   | 0.289                 |                     |
| n-Butane         | 2.444   | 6.126   | 0.772                 |                     |
| Iso-Pentane      | 0.588   | 1.830   | 0.215                 |                     |
| n-Pentane        | 0.636   | 1.979   | 0.231                 |                     |
| i-Hexanes        | 0.308   | 1.123   | 0.123                 |                     |
| n-Hexane         | 0.185   | 0.689   | 0.076                 |                     |
| Benzene          | 0.077   | 0.261   | 0.022                 |                     |
| Cyclohexane      | 0.104   | 0.376   | 0.035                 |                     |
| i-Heptanes       | 0.215   | 0.860   | 0.087                 |                     |
| n-Heptane        | 0.051   | 0.221   | 0.023                 |                     |
| Toluene          | 0.053   | 0.212   | 0.018                 |                     |
| i-Octanes        | 0.119   | 0.540   | 0.053                 |                     |
| n-Octane         | 0.013   | 0.065   | 0.007                 |                     |
| Ethylbenzene     | 0.004   | 0.018   | 0.002                 |                     |
| Xylenes          | 0.008   | 0.034   | 0.003                 |                     |
| i-Nonanes        | 0.012   | 0.089   | 0.006                 |                     |
| n-Nonane         | 0.003   | 0.016   | 0.002                 |                     |
| Decane Plus      | 0.008   | 0.056   | 0.004                 |                     |
|                  | 100.000 | 100.000 | 7.510                 |                     |

## Calculated Physical Properties

|                             | Total  | C10+   |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 0.8036 | 4.2891 |
| Calculated Molecular Weight | 23.19  | 124.22 |
| Compressibility Factor      | 0.9956 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1364.6 | 6468.0 |
| Water Sat. Gas Base BTU | 1340.8 | 6327.1 |

Comments: H2S Field Content 100 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-005A

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

Dec. 22, 2021

Station Name: KASTON 603H  
Method: GPA 2286  
Cylinder No: 5030-00999  
Analyzed: 12/17/2021 12:33:45 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 11:30  
Sample Conditions: 93 psig, @ 95 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |       |
|------------------|---------|---------|-----------------------|----------------|-------|
| Hydrogen Sulfide | 0.080   | 0.118   |                       | GPM TOTAL C2+  | 7.013 |
| Nitrogen         | 1.373   | 1.671   |                       | GPM TOTAL C3+  | 3.789 |
| Carbon Dioxide   | 1.098   | 2.099   |                       | GPM TOTAL IC5+ | 0.891 |
| Methane          | 73.118  | 50.963  |                       |                |       |
| Ethane           | 12.034  | 15.721  | 3.224                 |                |       |
| Propane          | 6.808   | 13.043  | 1.879                 |                |       |
| Iso-butane       | 0.867   | 2.189   | 0.284                 |                |       |
| n-Butane         | 2.328   | 5.879   | 0.735                 |                |       |
| Iso-pentane      | 0.588   | 1.843   | 0.215                 |                |       |
| n-Pentane        | 0.626   | 1.962   | 0.227                 |                |       |
| Hexanes Plus     | 1.080   | 4.512   | 0.449                 |                |       |
|                  | 100.000 | 100.000 | 7.013                 |                |       |

|                                       |              |            |
|---------------------------------------|--------------|------------|
| <b>Calculated Physical Properties</b> | <b>Total</b> | <b>C6+</b> |
| Relative Density Real Gas             | 0.7977       | 3.3083     |
| Calculated Molecular Weight           | 23.02        | 95.82      |
| Compressibility Factor                | 0.9957       |            |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1337 | 5130 |
| Water Sat. Gas Base BTU | 1314 | 5041 |

Comments: H2S Field Content 800 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-005A

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

Dec. 22, 2021

Station Name: KASTON 603H  
Method: GPA 2286  
Cylinder No: 5030-00999  
Analyzed: 12/17/2021 12:33:45 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 11:30  
Sample Conditions: 93 psig, @ 95 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |        |
|------------------|---------|---------|-----------------------|----------------|--------|
| Hydrogen Sulfide | 0.080   | 0.118   |                       | GPM TOTAL C2+  | 7.0130 |
| Nitrogen         | 1.373   | 1.671   |                       | GPM TOTAL C3+  | 3.7890 |
| Methane          | 73.118  | 50.963  |                       | GPM TOTAL IC5+ | 0.8910 |
| Carbon Dioxide   | 1.098   | 2.099   |                       |                |        |
| Ethane           | 12.034  | 15.721  | 3.224                 |                |        |
| Propane          | 6.808   | 13.043  | 1.879                 |                |        |
| Iso-Butane       | 0.867   | 2.189   | 0.284                 |                |        |
| n-Butane         | 2.328   | 5.879   | 0.735                 |                |        |
| Iso-Pentane      | 0.588   | 1.843   | 0.215                 |                |        |
| n-Pentane        | 0.626   | 1.962   | 0.227                 |                |        |
| Hexanes          | 0.312   | 1.145   | 0.126                 |                |        |
| Heptanes Plus    | 0.768   | 3.367   | 0.323                 |                |        |
|                  | 100.000 | 100.000 | 7.013                 |                |        |

| Calculated Physical Properties | Total  | C7+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.7977 | 3.4562 |
| Calculated Molecular Weight    | 23.02  | 100.10 |
| Compressibility Factor         | 0.9957 |        |

## GPA 2172 Calculation:

## Calculated Gross BTU per ft³ @ 14.696 psia &amp; 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1337.1 | 5307.9 |
| Water Sat. Gas Base BTU | 1313.8 | 5215.3 |

Comments: H2S Field Content 800 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-005A

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

Dec. 22, 2021

Station Name: KASTON 603H  
Method: GPA 2286  
Cylinder No: 5030-00999  
Analyzed: 12/17/2021 12:33:45 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 11:30  
Sample Conditions: 93 psig, @ 95 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                     |
|------------------|---------|---------|-----------------------|---------------------|
| Hydrogen Sulfide | 0.080   | 0.118   |                       | GPM TOTAL C2+ 7.013 |
| Nitrogen         | 1.373   | 1.671   |                       |                     |
| Carbon Dioxide   | 1.098   | 2.099   |                       |                     |
| Methane          | 73.118  | 50.963  |                       |                     |
| Ethane           | 12.034  | 15.721  | 3.224                 |                     |
| Propane          | 6.808   | 13.043  | 1.879                 |                     |
| Iso-Butane       | 0.867   | 2.189   | 0.284                 |                     |
| n-Butane         | 2.328   | 5.879   | 0.735                 |                     |
| Iso-Pentane      | 0.588   | 1.843   | 0.215                 |                     |
| n-Pentane        | 0.626   | 1.962   | 0.227                 |                     |
| i-Hexanes        | 0.195   | 0.708   | 0.078                 |                     |
| n-Hexane         | 0.117   | 0.437   | 0.048                 |                     |
| Benzene          | 0.044   | 0.148   | 0.012                 |                     |
| Cyclohexane      | 0.088   | 0.324   | 0.030                 |                     |
| i-Heptanes       | 0.208   | 0.849   | 0.086                 |                     |
| n-Heptane        | 0.062   | 0.272   | 0.029                 |                     |
| Toluene          | 0.028   | 0.110   | 0.009                 |                     |
| i-Octanes        | 0.214   | 0.993   | 0.096                 |                     |
| n-Octane         | 0.035   | 0.177   | 0.018                 |                     |
| Ethylbenzene     | 0.017   | 0.078   | 0.006                 |                     |
| Xylenes          | 0.011   | 0.055   | 0.004                 |                     |
| i-Nonanes        | 0.030   | 0.170   | 0.015                 |                     |
| n-Nonane         | 0.006   | 0.035   | 0.004                 |                     |
| Decane Plus      | 0.025   | 0.156   | 0.014                 |                     |
|                  | 100.000 | 100.000 | 7.013                 |                     |

## Calculated Physical Properties

|                             | Total  | C10+   |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 0.7977 | 4.7131 |
| Calculated Molecular Weight | 23.02  | 136.50 |
| Compressibility Factor      | 0.9957 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1337.1 | 7214.2 |
| Water Sat. Gas Base BTU | 1313.8 | 7058.1 |

Comments: H2S Field Content 800 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-006A

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

Dec. 22, 2021

Station Name: BUS DRIVER FED COM 602H  
Method: GPA 2286  
Cylinder No: 5030-03470  
Analyzed: 12/17/2021 13:32:39 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 12:30  
Sample Conditions: 76 psig, @ 76 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |       |
|------------------|---------|---------|-----------------------|----------------|-------|
| Hydrogen Sulfide | 0.030   | 0.044   |                       | GPM TOTAL C2+  | 7.193 |
| Nitrogen         | 1.382   | 1.681   |                       | GPM TOTAL C3+  | 3.849 |
| Carbon Dioxide   | 0.732   | 1.399   |                       | GPM TOTAL IC5+ | 0.888 |
| Methane          | 72.853  | 50.749  |                       |                |       |
| Ethane           | 12.481  | 16.295  | 3.344                 |                |       |
| Propane          | 7.002   | 13.406  | 1.932                 |                |       |
| Iso-butane       | 0.879   | 2.218   | 0.288                 |                |       |
| n-Butane         | 2.345   | 5.918   | 0.741                 |                |       |
| Iso-pentane      | 0.580   | 1.817   | 0.212                 |                |       |
| n-Pentane        | 0.613   | 1.920   | 0.223                 |                |       |
| Hexanes Plus     | 1.103   | 4.553   | 0.453                 |                |       |
|                  | 100.000 | 100.000 | 7.193                 |                |       |

|                                       |              |            |
|---------------------------------------|--------------|------------|
| <b>Calculated Physical Properties</b> | <b>Total</b> | <b>C6+</b> |
| Relative Density Real Gas             | 0.7982       | 3.2711     |
| Calculated Molecular Weight           | 23.03        | 94.74      |
| Compressibility Factor                | 0.9957       |            |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1348 | 5064 |
| Water Sat. Gas Base BTU | 1324 | 4975 |

Comments: H2S Field Content 300 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-006A

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

Dec. 22, 2021

Station Name: BUS DRIVER FED COM 602H  
Method: GPA 2286  
Cylinder No: 5030-03470  
Analyzed: 12/17/2021 13:32:39 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 12:30  
Sample Conditions: 76 psig, @ 76 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |
|------------------|---------|---------|-----------------------|----------------|
| Hydrogen Sulfide | 0.030   | 0.044   |                       | GPM TOTAL C2+  |
| Nitrogen         | 1.382   | 1.681   |                       | GPM TOTAL C3+  |
| Methane          | 72.853  | 50.749  |                       | GPM TOTAL IC5+ |
| Carbon Dioxide   | 0.732   | 1.399   |                       |                |
| Ethane           | 12.481  | 16.295  | 3.344                 |                |
| Propane          | 7.002   | 13.406  | 1.932                 |                |
| Iso-Butane       | 0.879   | 2.218   | 0.288                 |                |
| n-Butane         | 2.345   | 5.918   | 0.741                 |                |
| Iso-Pentane      | 0.580   | 1.817   | 0.212                 |                |
| n-Pentane        | 0.613   | 1.920   | 0.223                 |                |
| Hexanes          | 0.381   | 1.398   | 0.153                 |                |
| Heptanes Plus    | 0.722   | 3.155   | 0.300                 |                |
|                  | 100.000 | 100.000 | 7.193                 |                |

| Calculated Physical Properties | Total  | C7+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.7982 | 3.4424 |
| Calculated Molecular Weight    | 23.03  | 99.70  |
| Compressibility Factor         | 0.9957 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1347.6 | 5256.7 |
| Water Sat. Gas Base BTU | 1324.1 | 5165.0 |

Comments: H2S Field Content 300 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-006A

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

Dec. 22, 2021

Station Name: BUS DRIVER FED COM 602H  
Method: GPA 2286  
Cylinder No: 5030-03470  
Analyzed: 12/17/2021 13:32:39 by MGN

Sampled By: MICHAEL M  
Sample Of: Gas Spot  
Sample Date: 12/06/2021 12:30  
Sample Conditions: 76 psig, @ 76 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                     |
|------------------|---------|---------|-----------------------|---------------------|
| Hydrogen Sulfide | 0.030   | 0.044   |                       | GPM TOTAL C2+ 7.193 |
| Nitrogen         | 1.382   | 1.681   |                       |                     |
| Carbon Dioxide   | 0.732   | 1.399   |                       |                     |
| Methane          | 72.853  | 50.749  |                       |                     |
| Ethane           | 12.481  | 16.295  | 3.344                 |                     |
| Propane          | 7.002   | 13.406  | 1.932                 |                     |
| Iso-Butane       | 0.879   | 2.218   | 0.288                 |                     |
| n-Butane         | 2.345   | 5.918   | 0.741                 |                     |
| Iso-Pentane      | 0.580   | 1.817   | 0.212                 |                     |
| n-Pentane        | 0.613   | 1.920   | 0.223                 |                     |
| i-Hexanes        | 0.231   | 0.843   | 0.092                 |                     |
| n-Hexane         | 0.150   | 0.555   | 0.061                 |                     |
| Benzene          | 0.067   | 0.226   | 0.019                 |                     |
| Cyclohexane      | 0.107   | 0.393   | 0.036                 |                     |
| i-Heptanes       | 0.119   | 0.508   | 0.052                 |                     |
| n-Heptane        | 0.057   | 0.248   | 0.026                 |                     |
| Toluene          | 0.055   | 0.217   | 0.018                 |                     |
| i-Octanes        | 0.206   | 0.964   | 0.094                 |                     |
| n-Octane         | 0.034   | 0.168   | 0.017                 |                     |
| Ethylbenzene     | 0.015   | 0.066   | 0.006                 |                     |
| Xylenes          | 0.010   | 0.049   | 0.004                 |                     |
| i-Nonanes        | 0.026   | 0.148   | 0.013                 |                     |
| n-Nonane         | 0.007   | 0.039   | 0.004                 |                     |
| Decane Plus      | 0.019   | 0.129   | 0.011                 |                     |
|                  | 100.000 | 100.000 | 7.193                 |                     |

## Calculated Physical Properties

|                             | Total  | C10+   |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 0.7982 | 4.6316 |
| Calculated Molecular Weight | 23.03  | 134.14 |
| Compressibility Factor      | 0.9957 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1347.6 | 7090.2 |
| Water Sat. Gas Base BTU | 1324.1 | 6936.5 |

Comments: H2S Field Content 300 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-007A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB SALES LINE

Method: GPA 2286

Cylinder No: 5030-01835

Analyzed: 12/17/2021 13:03:33 by MGN

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021 14:38

Sample Conditions: 39 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |       |
|------------------|---------|---------|-----------------------|----------------|-------|
| Hydrogen Sulfide | 0.000   | 0.000   |                       | GPM TOTAL C2+  | 8.829 |
| Nitrogen         | 1.298   | 1.456   |                       | GPM TOTAL C3+  | 5.213 |
| Carbon Dioxide   | 0.558   | 0.984   |                       | GPM TOTAL IC5+ | 1.385 |
| Methane          | 67.876  | 43.611  |                       |                |       |
| Ethane           | 13.486  | 16.240  | 3.616                 |                |       |
| Propane          | 8.725   | 15.408  | 2.410                 |                |       |
| Iso-butane       | 1.163   | 2.707   | 0.382                 |                |       |
| n-Butane         | 3.277   | 7.628   | 1.036                 |                |       |
| Iso-pentane      | 0.832   | 2.404   | 0.305                 |                |       |
| n-Pentane        | 0.903   | 2.609   | 0.328                 |                |       |
| Hexanes Plus     | 1.882   | 6.953   | 0.752                 |                |       |
|                  | 100.000 | 100.000 | 8.829                 |                |       |

## Calculated Physical Properties

|                             |        |     |        |
|-----------------------------|--------|-----|--------|
| Relative Density Real Gas   | 0.8656 | C6+ | 3.1460 |
| Calculated Molecular Weight | 24.97  |     | 91.12  |
| Compressibility Factor      | 0.9948 |     |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1457 | 4877 |
| Water Sat. Gas Base BTU | 1432 | 4792 |

Comments: H2S Field Content 0 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-007A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB SALES LINE

Method: GPA 2286

Cylinder No: 5030-01835

Analyzed: 12/17/2021 13:03:33 by MGN

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021 14:38

Sample Conditions: 39 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                       |
|------------------|---------|---------|-----------------------|-----------------------|
| Hydrogen Sulfide | 0.000   | 0.000   |                       | GPM TOTAL C2+ 8.8290  |
| Nitrogen         | 1.298   | 1.456   |                       | GPM TOTAL C3+ 5.2130  |
| Methane          | 67.876  | 43.611  |                       | GPM TOTAL IC5+ 1.3850 |
| Carbon Dioxide   | 0.558   | 0.984   |                       |                       |
| Ethane           | 13.486  | 16.240  | 3.616                 |                       |
| Propane          | 8.725   | 15.408  | 2.410                 |                       |
| Iso-Butane       | 1.163   | 2.707   | 0.382                 |                       |
| n-Butane         | 3.277   | 7.628   | 1.036                 |                       |
| Iso-Pentane      | 0.832   | 2.404   | 0.305                 |                       |
| n-Pentane        | 0.903   | 2.609   | 0.328                 |                       |
| Hexanes          | 0.728   | 2.502   | 0.297                 |                       |
| Heptanes Plus    | 1.154   | 4.451   | 0.455                 |                       |
|                  | 100.000 | 100.000 | 8.829                 |                       |

## Calculated Physical Properties

|                             | Total  | C7+    |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 0.8656 | 3.2765 |
| Calculated Molecular Weight | 24.97  | 94.90  |
| Compressibility Factor      | 0.9948 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1457.3 | 4995.3 |
| Water Sat. Gas Base BTU | 1431.9 | 4908.2 |

Comments: H2S Field Content 0 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

Quality Assurance:

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



## Certificate of Analysis

Number: 5030-21120362-007A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB SALES LINE

Method: GPA 2286

Cylinder No: 5030-01835

Analyzed: 12/17/2021 13:03:33 by MGN

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021 14:38

Sample Conditions: 39 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                     |
|------------------|---------|---------|-----------------------|---------------------|
| Hydrogen Sulfide | 0.000   | 0.000   |                       | GPM TOTAL C2+ 8.829 |
| Nitrogen         | 1.298   | 1.456   |                       |                     |
| Carbon Dioxide   | 0.558   | 0.984   |                       |                     |
| Methane          | 67.876  | 43.611  |                       |                     |
| Ethane           | 13.486  | 16.240  | 3.616                 |                     |
| Propane          | 8.725   | 15.408  | 2.410                 |                     |
| Iso-Butane       | 1.163   | 2.707   | 0.382                 |                     |
| n-Butane         | 3.277   | 7.628   | 1.036                 |                     |
| Iso-Pentane      | 0.832   | 2.404   | 0.305                 |                     |
| n-Pentane        | 0.903   | 2.609   | 0.328                 |                     |
| i-Hexanes        | 0.449   | 1.535   | 0.181                 |                     |
| n-Hexane         | 0.279   | 0.967   | 0.116                 |                     |
| Benzene          | 0.114   | 0.358   | 0.032                 |                     |
| Cyclohexane      | 0.169   | 0.576   | 0.058                 |                     |
| i-Heptanes       | 0.351   | 1.319   | 0.143                 |                     |
| n-Heptane        | 0.096   | 0.388   | 0.045                 |                     |
| Toluene          | 0.105   | 0.388   | 0.036                 |                     |
| i-Octanes        | 0.231   | 0.966   | 0.100                 |                     |
| n-Octane         | 0.023   | 0.103   | 0.012                 |                     |
| Ethylbenzene     | 0.007   | 0.032   | 0.003                 |                     |
| Xylenes          | 0.014   | 0.066   | 0.005                 |                     |
| i-Nonanes        | 0.021   | 0.125   | 0.010                 |                     |
| n-Nonane         | 0.005   | 0.026   | 0.003                 |                     |
| Decane Plus      | 0.018   | 0.104   | 0.008                 |                     |
|                  | 100.000 | 100.000 | 8.829                 |                     |

## Calculated Physical Properties

|                             | Total  | C10+   |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 0.8656 | 4.4428 |
| Calculated Molecular Weight | 24.97  | 128.67 |
| Compressibility Factor      | 0.9948 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1457.3 | 6697.1 |
| Water Sat. Gas Base BTU | 1431.9 | 6546.0 |

Comments: H2S Field Content 0 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-008A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB VRU DISCHARGE

Method: GPA 2286

Cylinder No: 1111-002507

Analyzed: 12/17/2021 12:33:45 by MGN

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021 15:00

Sample Conditions: 70 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                      |
|------------------|---------|---------|-----------------------|----------------------|
| Hydrogen Sulfide | 0.020   | 0.017   |                       | GPM TOTAL C2+ 24.768 |
| Nitrogen         | 0.055   | 0.038   |                       | GPM TOTAL C3+ 17.750 |
| Carbon Dioxide   | 0.435   | 0.474   |                       | GPM TOTAL IC5+ 1.572 |
| Methane          | 14.297  | 5.684   |                       |                      |
| Ethane           | 25.918  | 19.312  | 7.018                 |                      |
| Propane          | 36.184  | 39.538  | 10.093                |                      |
| Iso-butane       | 5.166   | 7.441   | 1.712                 |                      |
| n-Butane         | 13.701  | 19.734  | 4.373                 |                      |
| Iso-pentane      | 2.002   | 3.579   | 0.741                 |                      |
| n-Pentane        | 1.657   | 2.963   | 0.608                 |                      |
| Hexanes Plus     | 0.565   | 1.220   | 0.223                 |                      |
|                  | 100.000 | 100.000 | 24.768                |                      |

## Calculated Physical Properties

|                             |        |            |
|-----------------------------|--------|------------|
| Relative Density Real Gas   | 1.4136 | C6+ 2.9783 |
| Calculated Molecular Weight | 40.35  | 86.26      |
| Compressibility Factor      | 0.9852 |            |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 2336 | 4658 |
| Water Sat. Gas Base BTU | 2295 | 4577 |

Comments: H2S Field Content 200 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-008A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB VRU DISCHARGE

Method: GPA 2286

Cylinder No: 1111-002507

Analyzed: 12/17/2021 12:33:45 by MGN

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021 15:00

Sample Conditions: 70 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |
|------------------|---------|---------|-----------------------|----------------|
| Hydrogen Sulfide | 0.020   | 0.017   |                       | GPM TOTAL C2+  |
| Nitrogen         | 0.055   | 0.038   |                       | GPM TOTAL C3+  |
| Methane          | 14.297  | 5.684   |                       | GPM TOTAL IC5+ |
| Carbon Dioxide   | 0.435   | 0.474   |                       |                |
| Ethane           | 25.918  | 19.312  | 7.018                 |                |
| Propane          | 36.184  | 39.538  | 10.093                |                |
| Iso-Butane       | 5.166   | 7.441   | 1.712                 |                |
| n-Butane         | 13.701  | 19.734  | 4.373                 |                |
| Iso-Pentane      | 2.002   | 3.579   | 0.741                 |                |
| n-Pentane        | 1.657   | 2.963   | 0.608                 |                |
| Hexanes          | 0.349   | 0.748   | 0.144                 |                |
| Heptanes Plus    | 0.216   | 0.472   | 0.079                 |                |
|                  | 100.000 | 100.000 | 24.768                |                |

## Calculated Physical Properties

|                             | Total  | C7+    |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 1.4136 | 3.0599 |
| Calculated Molecular Weight | 40.35  | 88.62  |
| Compressibility Factor      | 0.9852 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 2336.1 | 4641.0 |
| Water Sat. Gas Base BTU | 2295.3 | 4560.0 |

Comments: H2S Field Content 200 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-008A

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

Dec. 22, 2021

Station Name: PAUL FOSTER CTB VRU DISCHARGE

Method: GPA 2286

Cylinder No: 1111-002507

Analyzed: 12/17/2021 12:33:45 by MGN

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021 15:00

Sample Conditions: 70 psig

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                      |
|------------------|---------|---------|-----------------------|----------------------|
| Hydrogen Sulfide | 0.020   | 0.017   |                       |                      |
| Nitrogen         | 0.055   | 0.038   |                       |                      |
| Carbon Dioxide   | 0.435   | 0.474   |                       |                      |
| Methane          | 14.297  | 5.684   |                       |                      |
| Ethane           | 25.918  | 19.312  | 7.018                 |                      |
| Propane          | 36.184  | 39.538  | 10.093                |                      |
| Iso-Butane       | 5.166   | 7.441   | 1.712                 |                      |
| n-Butane         | 13.701  | 19.734  | 4.373                 |                      |
| Iso-Pentane      | 2.002   | 3.579   | 0.741                 |                      |
| n-Pentane        | 1.657   | 2.963   | 0.608                 |                      |
| i-Hexanes        | 0.240   | 0.510   | 0.098                 |                      |
| n-Hexane         | 0.109   | 0.238   | 0.046                 |                      |
| Benzene          | 0.040   | 0.080   | 0.012                 |                      |
| Cyclohexane      | 0.045   | 0.096   | 0.016                 |                      |
| i-Heptanes       | 0.084   | 0.192   | 0.034                 |                      |
| n-Heptane        | 0.010   | 0.025   | 0.005                 |                      |
| Toluene          | 0.009   | 0.020   | 0.003                 |                      |
| i-Octanes        | 0.022   | 0.050   | 0.008                 |                      |
| n-Octane         | 0.001   | 0.003   | 0.001                 |                      |
| Ethylbenzene     | 0.001   | 0.001   | 0.000                 |                      |
| Xylenes          | 0.002   | 0.003   | 0.000                 |                      |
| i-Nonanes        | 0.001   | 0.001   | 0.000                 |                      |
| n-Nonane         | 0.001   | 0.001   | 0.000                 |                      |
| Decane Plus      | 0.000   | 0.000   | 0.000                 |                      |
|                  | 100.000 | 100.000 | 24.768                |                      |
|                  |         |         |                       | GPM TOTAL C2+ 24.768 |

## Calculated Physical Properties

## Total

Relative Density Real Gas 1.4136

Calculated Molecular Weight 40.35

Compressibility Factor 0.9852

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

Real Gas Dry BTU 2336.1

Water Sat. Gas Base BTU 2295.3

Comments: H2S Field Content 200 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-009A

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

Dec. 22, 2021

Station Name: JUDGE BAYLOR FED COM 601H

Method: GPA 2286

Cylinder No: 5030-03650

Analyzed: 12/17/2021 17:07:46 by ARP

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021

Sample Conditions: 89 psig, @ 105 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |
|------------------|---------|---------|-----------------------|----------------|
| Hydrogen Sulfide | 0.030   | 0.044   |                       | GPM TOTAL C2+  |
| Nitrogen         | 1.932   | 2.324   |                       | GPM TOTAL C3+  |
| Carbon Dioxide   | 0.708   | 1.338   |                       | GPM TOTAL IC5+ |
| Methane          | 71.039  | 48.931  |                       |                |
| Ethane           | 13.192  | 17.031  | 3.534                 |                |
| Propane          | 7.507   | 14.213  | 2.072                 |                |
| Iso-butane       | 0.939   | 2.343   | 0.308                 |                |
| n-Butane         | 2.447   | 6.106   | 0.773                 |                |
| Iso-pentane      | 0.586   | 1.815   | 0.215                 |                |
| n-Pentane        | 0.613   | 1.899   | 0.223                 |                |
| Hexanes Plus     | 1.007   | 3.956   | 0.400                 |                |
|                  | 100.000 | 100.000 | 7.525                 |                |

## Calculated Physical Properties

|                             |        |        |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 0.8070 | 3.1189 |
| Calculated Molecular Weight | 23.29  | 90.33  |
| Compressibility Factor      | 0.9956 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1353 | 4838 |
| Water Sat. Gas Base BTU | 1329 | 4753 |

Comments: H2S Field Content 300 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-009A

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

Dec. 22, 2021

Station Name: JUDGE BAYLOR FED COM 601H

Method: GPA 2286

Cylinder No: 5030-03650

Analyzed: 12/17/2021 17:07:46 by ARP

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021

Sample Conditions: 89 psig, @ 105 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                |        |
|------------------|---------|---------|-----------------------|----------------|--------|
| Hydrogen Sulfide | 0.030   | 0.044   |                       | GPM TOTAL C2+  | 7.5250 |
| Nitrogen         | 1.932   | 2.324   |                       | GPM TOTAL C3+  | 3.9910 |
| Methane          | 71.039  | 48.931  |                       | GPM TOTAL IC5+ | 0.8380 |
| Carbon Dioxide   | 0.708   | 1.338   |                       |                |        |
| Ethane           | 13.192  | 17.031  | 3.534                 |                |        |
| Propane          | 7.507   | 14.213  | 2.072                 |                |        |
| Iso-Butane       | 0.939   | 2.343   | 0.308                 |                |        |
| n-Butane         | 2.447   | 6.106   | 0.773                 |                |        |
| Iso-Pentane      | 0.586   | 1.815   | 0.215                 |                |        |
| n-Pentane        | 0.613   | 1.899   | 0.223                 |                |        |
| Hexanes          | 0.411   | 1.515   | 0.168                 |                |        |
| Heptanes Plus    | 0.596   | 2.441   | 0.232                 |                |        |
|                  | 100.000 | 100.000 | 7.525                 |                |        |

## Calculated Physical Properties

|                             | Total  | C7+    |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | 0.8070 | 3.2426 |
| Calculated Molecular Weight | 23.29  | 93.91  |
| Compressibility Factor      | 0.9956 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |        |
|-------------------------|--------|--------|
| Real Gas Dry BTU        | 1353.0 | 4940.9 |
| Water Sat. Gas Base BTU | 1329.4 | 4854.7 |

Comments: H2S Field Content 300 ppm

Data reviewed by: Raymond Bradford, Laboratory Manager

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



## Certificate of Analysis

Number: 5030-21120362-009A

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

Dec. 22, 2021

Station Name: JUDGE BAYLOR FED COM 601H

Method: GPA 2286

Cylinder No: 5030-03650

Analyzed: 12/17/2021 17:07:46 by ARP

Sampled By: MICHAEL M

Sample Of: Gas Spot

Sample Date: 12/06/2021

Sample Conditions: 89 psig, @ 105 °F

## Analytical Data

| Components       | Mol. %  | Wt. %   | GPM at<br>14.696 psia |                     |
|------------------|---------|---------|-----------------------|---------------------|
| Hydrogen Sulfide | 0.030   | 0.044   |                       | GPM TOTAL C2+ 7.525 |
| Nitrogen         | 1.932   | 2.324   |                       |                     |
| Carbon Dioxide   | 0.708   | 1.338   |                       |                     |
| Methane          | 71.039  | 48.931  |                       |                     |
| Ethane           | 13.192  | 17.031  | 3.534                 |                     |
| Propane          | 7.507   | 14.213  | 2.072                 |                     |
| Iso-Butane       | 0.939   | 2.343   | 0.308                 |                     |
| n-Butane         | 2.447   | 6.106   | 0.773                 |                     |
| Iso-Pentane      | 0.586   | 1.815   | 0.215                 |                     |
| n-Pentane        | 0.613   | 1.899   | 0.223                 |                     |
| i-Hexanes        | 0.255   | 0.932   | 0.103                 |                     |
| n-Hexane         | 0.156   | 0.583   | 0.065                 |                     |
| Benzene          | 0.064   | 0.213   | 0.018                 |                     |
| Cyclohexane      | 0.099   | 0.359   | 0.034                 |                     |
| i-Heptanes       | 0.177   | 0.717   | 0.072                 |                     |
| n-Heptane        | 0.045   | 0.194   | 0.021                 |                     |
| Toluene          | 0.054   | 0.214   | 0.018                 |                     |
| i-Octanes        | 0.117   | 0.523   | 0.051                 |                     |
| n-Octane         | 0.013   | 0.064   | 0.007                 |                     |
| Ethylbenzene     | 0.004   | 0.017   | 0.001                 |                     |
| Xylenes          | 0.007   | 0.032   | 0.003                 |                     |
| i-Nonanes        | 0.014   | 0.078   | 0.006                 |                     |
| n-Nonane         | 0.002   | 0.009   | 0.001                 |                     |
| Decane Plus      | 0.000   | 0.021   | 0.000                 |                     |
|                  | 100.000 | 100.000 | 7.525                 |                     |

## Calculated Physical Properties

|                             |              |             |
|-----------------------------|--------------|-------------|
| Relative Density Real Gas   | Total 0.8070 | C10+ 0.0000 |
| Calculated Molecular Weight | 23.29        | 0.00        |
| Compressibility Factor      | 0.9956       |             |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

|                         |        |       |
|-------------------------|--------|-------|
| Real Gas Dry BTU        | 1353.0 | 0.000 |
| Water Sat. Gas Base BTU | 1329.4 | 0.000 |

Comments: H2S Field Content 300 ppm

Data reviewed by: Raymond Bradford, 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 | Paul Foster | 50 MCF | 12/12/2021 6:22  | 12/12/2021 6:38  | 0.27          | 112.3       |
| Franklin Mountain | Paul Foster | 50 MCF | 12/12/2021 11:31 | 12/12/2021 11:44 | 0.2           | 85.7        |

**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 68632

DEFINITIONS

|                                                                                     |                                                            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|
| Operator:<br><br>Franklin Mountain Energy LLC<br>44 Cook Street<br>Denver, CO 80206 | OGRID:<br><br>373910                                       |
|                                                                                     | Action Number:<br><br>68632                                |
|                                                                                     | Action Type:<br><br>[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: <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> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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**

QUESTIONS

Action 68632

**QUESTIONS**

|                                                                                 |                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Franklin Mountain Energy LLC<br>44 Cook Street<br>Denver, CO 80206 | OGRID:<br>373910                                       |
|                                                                                 | Action Number:<br>68632                                |
|                                                                                 | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**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 Well     | Not answered.                    |
| Incident Facility | [fAPP2125739207] Paul Foster CTB |

**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 | No                                                |
| Is this considered a submission for a vent or flare event                                                  | Yes, minor 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 <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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence                                                                                                             | No  |

**Equipment Involved**

|                                                           |                |
|-----------------------------------------------------------|----------------|
| Primary Equipment Involved                                | Treating Tower |
| 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                                     | 69 |
| 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  |

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. |

**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

QUESTIONS, Page 2

Action 68632

QUESTIONS (continued)

|                                                                                 |                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Franklin Mountain Energy LLC<br>44 Cook Street<br>Denver, CO 80206 | OGRID:<br>373910                                       |
|                                                                                 | Action Number:<br>68632                                |
|                                                                                 | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

QUESTIONS

| Date(s) and Time(s)                            |            |
|------------------------------------------------|------------|
| Date vent or flare was discovered or commenced | 12/12/2021 |
| Time vent or flare was discovered or commenced | 06:22 AM   |
| Time vent or flare was terminated              | 06:38 AM   |
| Cumulative hours during this event             | 0          |

| 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   Treating Tower   Natural Gas Flared   Released: 112 Mcf   Recovered: 0 Mcf   Lost: 112 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          | [371058] ETC FIELD SERVICES 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                                                      | H2S treatment tower ESD. Gas sent to flare.                               |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | H2S treatment personnel was on location and switch out of upset condition |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                                | Comms failure. Got cell booster out on location                           |

**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**

ACKNOWLEDGMENTS

Action 68632

**ACKNOWLEDGMENTS**

|                                                                                 |                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Franklin Mountain Energy LLC<br>44 Cook Street<br>Denver, CO 80206 | OGRID:<br>373910                                       |
|                                                                                 | Action Number:<br>68632                                |
|                                                                                 | Action Type:<br>[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.                                                                                                                          |

**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**

CONDITIONS

Action 68632

**CONDITIONS**

|                                                                                 |                                                        |
|---------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Franklin Mountain Energy LLC<br>44 Cook Street<br>Denver, CO 80206 | OGRID:<br>373910                                       |
|                                                                                 | Action Number:<br>68632                                |
|                                                                                 | Action Type:<br>[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. | 12/23/2021     |