



Certificate of Analysis

Number: 6030-22020386-001A

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

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

Mar. 01, 2022

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

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

Analytical Data

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

Calculated Physical Properties

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

GPA 2172 Calculation:

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

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

Comments: H2S Field Content 0.8 %
 Mcf/day 4818.8

Hydrocarbon Laboratory Manager

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



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Mar. 01, 2022

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

Analytical Data

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



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

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

Comments: H2S Field Content 0.8 %
 Mcf/day 4818.8

Hydrocarbon Laboratory Manager

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

FLARING SUMMARY

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

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 1625 N. French Dr., Hobbs, NM 88240
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District II
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 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
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 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 323838

DEFINITIONS

| | |
|--|--|
| Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202 | OGRID: 332195 |
| | Action Number: 323838 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 323838

QUESTIONS

| | |
|--|--|
| Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202 | OGRID: 332195 |
| | Action Number: 323838 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

QUESTIONS

| | |
|---|-----------------------------------|
| Prerequisites | |
| <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i> | |
| Incident Well | Unavailable. |
| Incident Facility | [fAPP2126030240] BLACK MARLIN CTB |

| | |
|---|---|
| Determination of Reporting Requirements | |
| <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i> | |
| Was this vent or flare caused by an emergency or malfunction | Yes |
| Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event | No |
| Is this considered a submission for a vent or flare event | Yes, minor venting and/or flaring of natural gas. |
| <i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i> | |
| Was there at least 50 MCF of natural gas vented and/or flared during this event | Yes |
| Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water | No |
| Was the vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence | No |

| | |
|---|---------------|
| Equipment Involved | |
| Primary Equipment Involved | Not answered. |
| Additional details for Equipment Involved. Please specify | Not answered. |

| | |
|--|---------------|
| Representative Compositional Analysis of Vented or Flared Natural Gas | |
| <i>Please provide the mole percent for the percentage questions in this group.</i> | |
| Methane (CH4) percentage | 73 |
| Nitrogen (N2) percentage, if greater than one percent | 1 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 8,000 |
| Carbon Dioxide (CO2) percentage, if greater than one percent | 2 |
| Oxygen (O2) percentage, if greater than one percent | 0 |
| <i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i> | |
| Methane (CH4) percentage quality requirement | Not answered. |
| Nitrogen (N2) percentage quality requirement | Not answered. |
| Hydrogen Sulfide (H2S) PPM quality requirement | Not answered. |
| Carbon Dioxide (CO2) percentage quality requirement | Not answered. |
| Oxygen (O2) percentage quality requirement | Not answered. |

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QUESTIONS, Page 2

Action 323838

QUESTIONS (continued)

| | |
|--|--|
| Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202 | OGRID: 332195 |
| | Action Number: 323838 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

QUESTIONS

| Date(s) and Time(s) | |
|--|------------|
| Date vent or flare was discovered or commenced | 03/05/2024 |
| Time vent or flare was discovered or commenced | 12:01 AM |
| Time vent or flare was terminated | 11:59 PM |
| Cumulative hours during this event | 1 |

| Measured or Estimated Volume of Vented or Flared Natural Gas | |
|---|---|
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Cause: High Line Pressure Pipeline (Any) Natural Gas Flared Released: 69 Mcf Recovered: 0 Mcf Lost: 69 Mcf. |
| Additional details for Measured or Estimated Volume(s). Please specify | Not answered. |
| Is this a gas only submission (i.e. only significant Mcf values reported) | Yes, according to supplied volumes this appears to be a "gas only" report. |

| Venting or Flaring Resulting from Downstream Activity | |
|---|-------------------------------------|
| Was this vent or flare a result of downstream activity | Yes |
| Was notification of downstream activity received by this operator | No |
| Downstream OGRID that should have notified this operator | [371960] LUCID ENERGY DELAWARE, LLC |
| Date notified of downstream activity requiring this vent or flare | Not answered. |
| Time notified of downstream activity requiring this vent or flare | Not answered. |

| Steps and Actions to Prevent Waste | |
|--|--|
| For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control. | True |
| Please explain reason for why this event was beyond this operator's control | The location experienced a malfunction that was not anticipated and the flaring can be attributed to high line pressure from our midstream provider. Due to this the inability for midstream to take gas, flaring was required |
| Steps taken to limit the duration and magnitude of vent or flare | Standard PM. Worked with vendor to coordinate service time and minimize downtime. |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare | Standard PM. No way to avoid periodic downtime for maintenance/repairs to address unforeseen issues. |

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ACKNOWLEDGMENTS

Action 323838

ACKNOWLEDGMENTS

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| | Action Number: 323838 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

ACKNOWLEDGMENTS

| | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC. |
| <input checked="" type="checkbox"/> | I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively. |
| <input checked="" type="checkbox"/> | I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act. |
| <input checked="" type="checkbox"/> | I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment. |
| <input checked="" type="checkbox"/> | I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations. |

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CONDITIONS
 Action 323838

CONDITIONS

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|--|--|
| Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202 | OGRID: 332195 |
| | Action Number: 323838 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| mlaruecdh | If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event. | 3/16/2024 |