



## Certificate of Analysis

Number: 5030-22100031-001A

Midland Laboratory

2200 East I-20

Midland, TX 79706

Phone 432-689-7252

Joey Cowley  
Ram Energy  
1103 N. Eva Avenue  
Monahans, TX 79756

Oct. 03, 2022

Station Name: CATTLEMAN 4 114H  
Method: GPA-2261  
Cylinder No: 1111-007891  
Analyzed: 10/03/2022 13:52:03 by MGN

Sampled By: DERRICK BARRIENTES  
Sample Of: Gas Spot  
Sample Date: 09/25/2022 15:00  
Sample Conditions: 226.5 psig, @ 118.1 °F

## Analytical Data

| Components       | Mol. %   | Wt. %    | GPM at<br>14.65 psia |                |       |
|------------------|----------|----------|----------------------|----------------|-------|
| Hydrogen Sulfide | 0.0000   | 0.0000   |                      | GPM TOTAL C2+  | 4.487 |
| Nitrogen         | 1.1539   | 1.3076   |                      | GPM TOTAL C3+  | 2.411 |
| Carbon Dioxide   | 15.5785  | 27.7332  |                      | GPM TOTAL iC5+ | 0.672 |
| Methane          | 67.8068  | 44.0020  |                      |                |       |
| Ethane           | 7.7782   | 9.4608   | 2.0765               |                |       |
| Propane          | 3.7569   | 6.7012   | 1.0332               |                |       |
| Iso-butane       | 0.7583   | 1.7828   | 0.2477               |                |       |
| n-Butane         | 1.4559   | 3.4230   | 0.4582               |                |       |
| Iso-pentane      | 0.5557   | 1.6218   | 0.2029               |                |       |
| n-Pentane        | 0.4573   | 1.3346   | 0.1655               |                |       |
| Hexanes Plus     | 0.6985   | 2.6330   | 0.3042               |                |       |
|                  | 100.0000 | 100.0000 | 4.4882               |                |       |

| Calculated Physical Properties | Total  | C6+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.8566 | 3.2176 |
| Calculated Molecular Weight    | 24.72  | 93.19  |
| Compressibility Factor         | 0.9961 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1066 | 5113 |
| Water Sat. Gas Base BTU | 1048 | 5024 |

Comments: H2S Field Content 0 ppm

Data reviewed by: Marco Barrientos

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



## Certificate of Analysis

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Joey Cowley  
Ram Energy  
1103 N. Eva Avenue  
Monahans, TX 79756

Oct. 03, 2022

Station Name: NORTH 17 SALES  
Method: GPA-2261  
Cylinder No: 1111-008598  
Analyzed: 10/03/2022 13:52:03 by MGN

Sampled By: DERRICK BARRIENTES  
Sample Of: Gas Spot  
Sample Date: 09/30/2022 13:30  
Sample Conditions: 177.5 psig, @ 98 °F

## Analytical Data

| Components       | Mol. %   | Wt. %    | GPM at<br>14.65 psia |                |       |
|------------------|----------|----------|----------------------|----------------|-------|
| Hydrogen Sulfide | 0.0000   | 0.0000   |                      | GPM TOTAL C2+  | 7.558 |
| Nitrogen         | 1.3036   | 1.4838   |                      | GPM TOTAL C3+  | 4.328 |
| Carbon Dioxide   | 4.4637   | 7.9821   |                      | GPM TOTAL iC5+ | 1.075 |
| Methane          | 68.2254  | 44.4730  |                      |                |       |
| Ethane           | 12.0884  | 14.7695  | 3.2298               |                |       |
| Propane          | 7.3383   | 13.1483  | 2.0198               |                |       |
| Iso-butane       | 1.0979   | 2.5929   | 0.3589               |                |       |
| n-Butane         | 2.7738   | 6.5508   | 0.8736               |                |       |
| Iso-pentane      | 0.7236   | 2.1213   | 0.2644               |                |       |
| n-Pentane        | 0.7476   | 2.1917   | 0.2707               |                |       |
| Hexanes Plus     | 1.2377   | 4.6866   | 0.5395               |                |       |
|                  | 100.0000 | 100.0000 | 7.5567               |                |       |

|                                                             |              |            |
|-------------------------------------------------------------|--------------|------------|
| <b>Calculated Physical Properties</b>                       | <b>Total</b> | <b>C6+</b> |
| Relative Density Real Gas                                   | 0.8535       | 3.2176     |
| Calculated Molecular Weight                                 | 24.61        | 93.19      |
| Compressibility Factor                                      | 0.9953       |            |
| <b>GPA 2172 Calculation:</b>                                |              |            |
| <b>Calculated Gross BTU per ft³ @ 14.65 psia &amp; 60°F</b> |              |            |
| Real Gas Dry BTU                                            | 1338         | 5113       |
| Water Sat. Gas Base BTU                                     | 1316         | 5024       |

**Comments:** H2S Field Content 0 ppm

Data reviewed by: Marco Barrientos

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



## Certificate of Analysis

Number: 5030-22100031-003A

Midland Laboratory

2200 East I-20

Midland, TX 79706

Phone 432-689-7252

Joey Cowley  
Ram Energy  
1103 N. Eva Avenue  
Monahans, TX 79756

Oct. 03, 2022

Station Name: CATTLEMAN 4 204H  
Method: GPA-2261  
Cylinder No: 5030-00208  
Analyzed: 10/03/2022 13:52:13 by MGN

Sampled By: DERRICK BARRIENTES  
Sample Of: Gas Spot  
Sample Date: 09/29/2022 15:00  
Sample Conditions: 231.5 psig, @ 120.2 °F

## Analytical Data

| Components       | Mol. %   | Wt. %    | GPM at<br>14.65 psia |                |       |
|------------------|----------|----------|----------------------|----------------|-------|
| Hydrogen Sulfide | 0.0000   | 0.0000   |                      | GPM TOTAL C2+  | 4.276 |
| Nitrogen         | 1.6156   | 1.9318   |                      | GPM TOTAL C3+  | 2.337 |
| Carbon Dioxide   | 11.1165  | 20.8821  |                      | GPM TOTAL iC5+ | 0.734 |
| Methane          | 72.6827  | 49.7696  |                      |                |       |
| Ethane           | 7.2648   | 9.3240   | 1.9390               |                |       |
| Propane          | 3.1484   | 5.9258   | 0.8656               |                |       |
| Iso-butane       | 0.8942   | 2.2184   | 0.2920               |                |       |
| n-Butane         | 1.4136   | 3.5069   | 0.4448               |                |       |
| Iso-pentane      | 0.6406   | 1.9728   | 0.2338               |                |       |
| n-Pentane        | 0.4436   | 1.3661   | 0.1605               |                |       |
| Hexanes Plus     | 0.7800   | 3.1025   | 0.3397               |                |       |
|                  | 100.0000 | 100.0000 | 4.2754               |                |       |

| Calculated Physical Properties | Total  | C6+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.8116 | 3.2176 |
| Calculated Molecular Weight    | 23.43  | 93.19  |
| Compressibility Factor         | 0.9963 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1101 | 5113 |
| Water Sat. Gas Base BTU | 1082 | 5024 |

Comments: H2S Field Content 0 ppm

Data reviewed by: Marco Barrientos

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



## Certificate of Analysis

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Midland, TX 79706

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Joey Cowley  
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1103 N. Eva Avenue  
Monahans, TX 79756

Oct. 03, 2022

Station Name: LD2 SOUTH BLOCK 212H  
Method: GPA-2261  
Analyzed: 10/03/2022 13:52:13 by MGN

Sampled By: DERRICK BARRIENTES  
Sample Of: Gas Spot  
Sample Date: 09/30/2022 15:00  
Sample Conditions: 292.4 psig, @ 108.5 °F

## Analytical Data

| Components       | Mol. %   | Wt. %    | GPM at<br>14.65 psia |                |       |
|------------------|----------|----------|----------------------|----------------|-------|
| Hydrogen Sulfide | 0.0000   | 0.0000   |                      | GPM TOTAL C2+  | 4.236 |
| Nitrogen         | 1.2322   | 1.5301   |                      | GPM TOTAL C3+  | 2.203 |
| Carbon Dioxide   | 8.6756   | 16.9243  |                      | GPM TOTAL iC5+ | 0.676 |
| Methane          | 75.5545  | 53.7276  |                      |                |       |
| Ethane           | 7.6168   | 10.1521  | 2.0327               |                |       |
| Propane          | 3.2033   | 6.2612   | 0.8806               |                |       |
| Iso-butane       | 0.7740   | 1.9941   | 0.2527               |                |       |
| n-Butane         | 1.2492   | 3.2184   | 0.3930               |                |       |
| Iso-pentane      | 0.5063   | 1.6192   | 0.1848               |                |       |
| n-Pentane        | 0.3589   | 1.1478   | 0.1298               |                |       |
| Hexanes Plus     | 0.8292   | 3.4252   | 0.3610               |                |       |
|                  | 100.0000 | 100.0000 | 4.2346               |                |       |

| Calculated Physical Properties | Total  | C6+    |
|--------------------------------|--------|--------|
| Relative Density Real Gas      | 0.7814 | 3.2176 |
| Calculated Molecular Weight    | 22.56  | 93.19  |
| Compressibility Factor         | 0.9964 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia & 60°F

|                         |      |      |
|-------------------------|------|------|
| Real Gas Dry BTU        | 1122 | 5113 |
| Water Sat. Gas Base BTU | 1103 | 5024 |

Comments: H2S Field Content 0 ppm

Data reviewed by: Marco Barrientos

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

\*\*\*Calculations for the total Mcf flared\*\*\*

End Meter Volume – the Begin Meter Volume.

\*\*\*Composition for the gas has been entered into the question portion of the C-129.

If further back up is needed please let us know and will provide requested data.

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**District IV**  
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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 278430

DEFINITIONS

|                                                                                                    |                                                        |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Earthstone Operating, LLC<br>1400 Woodloch Forest; Ste 300<br>The Woodlands, TX 77380 | OGRID:<br>331165                                       |
|                                                                                                    | Action Number:<br>278430                               |
|                                                                                                    | Action Type:<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> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 278430

**QUESTIONS**

|                                                                                                    |                                                        |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Earthstone Operating, LLC<br>1400 Woodloch Forest; Ste 300<br>The Woodlands, TX 77380 | OGRID:<br>331165                                       |
|                                                                                                    | Action Number:<br>278430                               |
|                                                                                                    | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**QUESTIONS**

|                                                                                                                                                                           |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Prerequisites</b>                                                                                                                                                      |                                     |
| <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i> |                                     |
| Incident Well                                                                                                                                                             | Unavailable.                        |
| Incident Facility                                                                                                                                                         | [fAPP2123840782] EL CAMPEON CTB 17N |

|                                                                                                                                                                                                                                                                                            |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Determination of Reporting Requirements</b>                                                                                                                                                                                                                                             |                                                   |
| <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>                                                                                                                                                 |                                                   |
| Was this vent or flare caused by an emergency or malfunction                                                                                                                                                                                                                               | No                                                |
| 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, major 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 <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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence                                                                                                              | No                                                |

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

|                                                                                                                                      |               |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>                                                         |               |
| <i>Please provide the mole percent for the percentage questions in this group.</i>                                                   |               |
| Methane (CH4) percentage                                                                                                             | 68            |
| 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                                                                         | 16            |
| 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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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 278430

**QUESTIONS (continued)**

|                                                                                                    |                                                        |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Earthstone Operating, LLC<br>1400 Woodloch Forest; Ste 300<br>The Woodlands, TX 77380 | OGRID:<br>331165                                       |
|                                                                                                    | Action Number:<br>278430                               |
|                                                                                                    | 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 | 07/02/2023 |
| Time vent or flare was discovered or commenced | 12:00 AM   |
| Time vent or flare was terminated              | 11:59 PM   |
| Cumulative hours during this event             | 2          |

| Measured or Estimated Volume of Vented or Flared Natural Gas              |                                                                                                                            |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Natural Gas Vented (Mcf) Details                                          | Not answered.                                                                                                              |
| Natural Gas Flared (Mcf) Details                                          | Cause: Normal Operations   Producing Well   Natural Gas Flared   Released: 1,536 Mcf   Recovered: 0 Mcf   Lost: 1,536 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            | No            |
| Was notification of downstream activity received by this operator | Not answered. |
| Downstream OGRID that should have notified this operator          | Not answered. |
| 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                                                      | Equipment downtime emissions controlled by flare.                                                                               |
| Steps taken to limit the duration and magnitude of vent or flare                                                                 | Standard emission control of equipment downtime. Working with vendor to coordinate service time and minimize downtime.          |
| Corrective actions taken to eliminate the cause and reoccurrence of vent or flare                                                | No way to avoid periodic downtime for repairs to address unforeseen condition. Process equipment emissions controlled by flare. |



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ACKNOWLEDGMENTS

Action 278430

**ACKNOWLEDGMENTS**

|                                                                                                    |                                                        |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Earthstone Operating, LLC<br>1400 Woodloch Forest; Ste 300<br>The Woodlands, TX 77380 | OGRID:<br>331165                                       |
|                                                                                                    | Action Number:<br>278430                               |
|                                                                                                    | 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.                                                                                                                          |

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CONDITIONS  
  
Action 278430

CONDITIONS

|                                                                                                    |                                                        |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>Earthstone Operating, LLC<br>1400 Woodloch Forest; Ste 300<br>The Woodlands, TX 77380 | OGRID:<br>331165                                       |
|                                                                                                    | Action Number:<br>278430                               |
|                                                                                                    | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| cblack     | 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. | 10/23/2023     |