# Certificate of Analysis

Number: 6030-22080419-004A

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

Paul Martinez
Earthstone
801 Cherry St, Suite 1200
Fort Worth, TX 76102

Aug. 30, 2022

| | | | |
|---|---|---|---|
| Station Name: | Anaconda 11--14 3BS Fed Com 13 H | Sampled By: | Arnulfo Hererra |
| Station Number: | 89410032 | Sample Of: | Gas Spot |
| Station Location: | Chisholm | Sample Date: | 08/26/2022 |
| Sample Point: | Meter run | Sample Conditions: | 100.5 psig, @ 118 °F Ambient: 85 °F |
| Type of Sample: | Spot-Cylinder | Effective Date: | 08/26/2022 |
| Heat Trace Used: | N/A | Method: | GPA 2286 |
| Sampling Method: | Fill and Purge | Cylinder No: | 1111-007277 |
| Sampling Company: | SPL | Instrument: | 6030_GC2 (Agilent GC-7890B) |
| Analyzed: | 08/30/2022 15:14:54 by KNF | Last Inst. Cal.: | 08/29/2022 14:11 PM |

## Analytical Data

| Components | Un-normalized Mol % | Mol. % | Wt. % | GPM at 14.73 psia | | |
|---|---|---|---|---|---|---|
| Nitrogen | 3.050 | 3.02800 | 3.406 | | GPM TOTAL C2+ | 9.309 |
| Methane | 64.895 | 64.43200 | 41.504 | | GPM TOTAL C3+ | 5.071 |
| Carbon Dioxide | 0.140 | 0.13900 | 0.246 | | GPM TOTAL iC5+ | 0.993 |
| Ethane | 15.884 | 15.77100 | 19.041 | 4.238 | | |
| Propane | 9.981 | 9.91000 | 17.546 | 2.743 | | |
| Iso-butane | 1.043 | 1.03600 | 2.418 | 0.341 | | |
| n-Butane | 3.163 | 3.14000 | 7.328 | 0.994 | | |
| Iso-pentane | 0.682 | 0.67700 | 1.961 | 0.249 | | |
| n-Pentane | 0.771 | 0.76500 | 2.216 | 0.279 | | |
| Hexanes Plus | 1.110 | 1.10200 | 4.334 | 0.465 | | |
| | 100.719 | 100.00000 | 100.000 | 9.309 | | |

| Calculated Physical Properties | Total | C6+ |
|---|---|---|
| Relative Density Real Gas | 0.8637 | 3.3615 |
| Calculated Molecular Weight | 24.90 | 97.36 |
| Compressibility Factor | 0.9950 | |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.73 psia & 60°F** | | |
| Real Gas Dry BTU | 1441 | 5223 |
| Water Sat. Gas Base BTU | 1416 | 5132 |
| Ideal, Gross HV - Dry at 14.73 psia | 1433.8 | 5223.4 |
| Ideal, Gross HV - Wet | 1408.9 | 0.000 |

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

# Certificate of Analysis

Number: 6030-22080419-004A

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

Paul Martinez
Earthstone
801 Cherry St, Suite 1200
Fort Worth, TX 76102

Aug. 30, 2022

| | | | |
|---|---|---|---|
| Station Name: | Anaconda 11--14 3BS Fed Com 13 H | Sampled By: | Arnulfo Hererra |
| Station Number: | 89410032 | Sample Of: | Gas Spot |
| Station Location: | Chisholm | Sample Date: | 08/26/2022 |
| Sample Point: | Meter run | Sample Conditions: | 100.5 psig, @ 118 °F |
| Type of Sample: | Spot-Cylinder | Method: | GPA 2286 |
| Heat Trace Used: | N/A | Cylinder No: | 1111-007277 |
| Sampling Method: | Fill and Purge | Analyzed: | 08/30/2022 15:13:49 by KNF |
| Sampling Company: | SPL | | |

## Analytical Data

| Components | Mol. % | Wt. % | GPM at 14.73 psia |
|---|---|---|---|
| Hydrogen Sulfide | 0.000 | 0.000 | |
| Nitrogen | 3.028 | 3.406 | |
| Methane | 64.432 | 41.504 | |
| Carbon Dioxide | 0.139 | 0.246 | |
| Ethane | 15.771 | 19.041 | 4.238 |
| Propane | 9.910 | 17.546 | 2.743 |
| Iso-Butane | 1.036 | 2.418 | 0.341 |
| n-Butane | 3.140 | 7.328 | 0.994 |
| Iso-Pentane | 0.677 | 1.961 | 0.249 |
| n-Pentane | 0.765 | 2.216 | 0.279 |
| i-Hexanes | 0.200 | 0.674 | 0.079 |
| n-Hexane | 0.119 | 0.396 | 0.048 |
| Benzene | 0.052 | 0.161 | 0.015 |
| Cyclohexane | 0.084 | 0.286 | 0.029 |
| i-Heptanes | 0.224 | 0.829 | 0.090 |
| n-Heptane | 0.049 | 0.194 | 0.022 |
| Toluene | 0.039 | 0.143 | 0.013 |
| i-Octanes | 0.169 | 0.722 | 0.076 |
| n-Octane | 0.019 | 0.090 | 0.010 |
| Ethylbenzene | 0.010 | 0.041 | 0.004 |
| Xylenes | 0.018 | 0.087 | 0.008 |
| i-Nonanes | 0.052 | 0.256 | 0.027 |
| n-Nonane | 0.013 | 0.068 | 0.007 |
| Decanes Plus | 0.054 | 0.387 | 0.037 |
| | 100.000 | 100.000 | 9.309 |

# Certificate of Analysis

Number: 6030-22080419-004A

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

Paul Martinez
Earthstone
801 Cherry St, Suite 1200
Fort Worth, TX 76102

Aug. 30, 2022

| | | | |
|---|---|---|---|
| Station Name: | Anaconda 11--14 3BS Fed Com 13 H | Sampled By: | Arnulfo Hererra |
| Station Number: | 89410032 | Sample Of: | Gas Spot |
| Station Location: | Chisholm | Sample Date: | 08/26/2022 |
| Sample Point: | Meter run | Sample Conditions: | 100.5 psig, @ 118 °F |
| Type of Sample: | Spot-Cylinder | Method: | GPA 2286 |
| Heat Trace Used: | N/A | Cylinder No: | 1111-007277 |
| Sampling Method: | Fill and Purge | Analyzed: | 08/30/2022 15:13:49 by KNF |
| Sampling Company: | SPL | | |

| **Calculated Physical Properties** | **Total** | **C10+** |
|---|---|---|
| Calculated Molecular Weight | 24.90 | 161.06 |
| **GPA 2172 Calculation:** | | |
| **Calculated Gross BTU per ft³ @ 14.73 psia & 60°F** | | |
| Real Gas Dry BTU | 1441.1 | 8740.5 |
| Water Sat. Gas Base BTU | 1416.0 | 8545.2 |
| Relative Density Real Gas | 0.8637 | 5.5609 |
| Compressibility Factor | 0.9950 | |
| Ideal, Gross HV - Wet | 1408.9 | |
| Ideal, Gross HV - Dry at 14.73 psia | 1433.8 | |
| Net BTU Dry Gas - real gas | 1313 | |
| Net BTU Wet Gas - real gas | 1290 | |

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

***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.

**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

| | |
|---|---|
| Operator:<br>Earthstone Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>331165 |
| | Action Number:<br>328262 |
| | 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:

- 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.

**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 328262

## QUESTIONS

| | |
|---|---|
| Operator:<br>Earthstone Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>331165 |
| | Action Number:<br>328262 |
| | 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 | *Unavailable.* |
| Incident Facility | **[fAPP2231962334] ANACONDA 11-12 FED COM FACILITY** |

| **Determination of Reporting Requirements** | |
|---|---|
| *Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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 **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 withing 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** | |
|---|---|
| *Please provide the mole percent for the percentage questions in this group.* | |
| Methane (CH4) percentage | 64 |
| Nitrogen (N2) percentage, if greater than one percent | 3 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 0 |
| Carbon Dioxide (C02) percentage, if greater than one percent | 0 |
| Oxygen (02) 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 Sufide (H2S) PPM quality requirement | *Not answered.* |
| Carbon Dioxide (C02) percentage quality requirement | *Not answered.* |
| Oxygen (02) 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 (continued)

| | |
|---|---|
| Operator:<br>Earthstone Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>331165 |
| | Action Number:<br>328262 |
| | 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 | 03/25/2024 |
| 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 | 4 |

| **Measured or Estimated Volume of Vented or Flared Natural Gas** | |
|---|---|
| Natural Gas Vented (Mcf) Details | *Not answered.* |
| Natural Gas Flared (Mcf) Details | Cause: High Line Pressure \| Producing Well \| Natural Gas Flared \| Released: 54 Mcf \| Recovered: 0 Mcf \| Lost: 54 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 | [372603] DKL Field Services, LLC |
| Date notified of downstream activity requiring this vent or flare | 03/27/2024 |
| Time notified of downstream activity requiring this vent or flare | 05:02 PM |

| **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 | High line pressure due to compression issues at gas plant. |
| Steps taken to limit the duration and magnitude of vent or flare | Standard PM. Worked with midstream 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 maintenance / repairs to address unforeseen conditions. |

**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

| | |
|---|---|
| Operator:<br>Earthstone Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>331165 |
| | Action Number:<br>328262 |
| | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**ACKNOWLEDGMENTS**

| | |
|---|---|
| ☑ | I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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. |
| ☑ | 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. |
| ☑ | 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. |
| ☑ | 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. |
| ☑ | 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

| | |
|---|---|
| Operator:<br>Earthstone Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>331165 |
| | Action Number:<br>328262 |
| | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| llatham | 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. | 4/1/2024 |