



Certificate of Analysis

Number: 6030-21060172-003A

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

June 17, 2021

Station Name: Cosmo 213H Check
Station Number: 7060074
Sample Point: Meter Run
Formation: Quarterly
County: Lea
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: SPL

Sampled By: James Hill
Sample Of: Gas Spot
Sample Date: 06/16/2021 10:38
Sample Conditions: 89.7 psig, @ 84.8 °F Ambient: 84 °F
Effective Date: 06/16/2021 10:38
Method: GPA-2261M
Cylinder No: 5030-03742
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 06/07/2021 0:00 AM
Analyzed: 06/17/2021 14:25:21 by KNF

Analytical Data

| Components | Un-normalized Mol % | Mol. % | Wt. % | GPM at 14.73 psia | | |
|------------------|------------------------|----------------|----------------|----------------------|----------------|-------|
| Hydrogen Sulfide | 0.000 | 0.010 | 0.015 | | GPM TOTAL C2+ | 6.572 |
| Nitrogen | 1.426 | 1.418 | 1.744 | | GPM TOTAL C3+ | 3.226 |
| Methane | 72.339 | 71.940 | 50.654 | | GPM TOTAL iC5+ | 0.516 |
| Carbon Dioxide | 3.495 | 3.476 | 6.715 | | | |
| Ethane | 12.535 | 12.466 | 16.453 | 3.346 | | |
| Propane | 6.749 | 6.712 | 12.991 | 1.856 | | |
| Iso-butane | 0.798 | 0.794 | 2.026 | 0.261 | | |
| n-Butane | 1.883 | 1.873 | 4.778 | 0.593 | | |
| Iso-pentane | 0.414 | 0.412 | 1.305 | 0.151 | | |
| n-Pentane | 0.390 | 0.388 | 1.229 | 0.141 | | |
| Hexanes Plus | 0.514 | 0.511 | 2.090 | 0.224 | | |
| | <u>100.543</u> | <u>100.000</u> | <u>100.000</u> | <u>6.572</u> | | |

Calculated Physical Properties

| | Total | C6+ |
|-----------------------------|--------|--------|
| Relative Density Real Gas | 0.7895 | 3.2176 |
| Calculated Molecular Weight | 22.78 | 93.19 |
| Compressibility Factor | 0.9960 | |

GPA 2172 Calculation:

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

| | | |
|-------------------------------------|--------|--------|
| Real Gas Dry BTU | 1269 | 5141 |
| Water Sat. Gas Base BTU | 1248 | 5052 |
| Ideal, Gross HV - Dry at 14.73 psia | 1264.2 | 5141.1 |
| Ideal, Gross HV - Wet | 1242.2 | 5051.6 |
| Net BTU Wet Gas - real gas | 1133 | |

Comments: H2S Field Content 100 ppm
Mcf/day 849.8

Data reviewed by: Eric Ramirez, Analyst

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

Flaring Summary

date » (Column Names)

Data table:
flare_report_data (2)

Colors:
All values

| battery | |
|-----------------|------------|
| | 11/14/2021 |
| Cosmo K Battery | 95.70 |
| Grand total | 95.70 |

Sum(TOTAL FLARE (HP + LP))

battery

District I1625 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 63094

QUESTIONS

| | |
|--|--|
| Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401 | OGRID: 372043 |
| | Action Number: 63094 |
| | 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 | Not answered. |
| Incident Facility | [fAPP2126030570] Cosmo 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 or is this venting and/or flaring caused by an emergency or malfunction | No |
| Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event | No |
| Is this considered a submission for a venting and/or flaring 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event | Yes |
| Did this venting and/or flaring 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 venting and/or flaring 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 | 72 |
| 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 | 3 |
| 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. |

| | |
|---|------------|
| Date(s) and Time(s) | |
| Date venting and/or flaring was discovered or commenced | 11/14/2021 |
| Time venting and/or flaring was discovered or commenced | 06:00 AM |
| Time venting and/or flaring was terminated | 06:00 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 Tank (Any) Natural Gas Flared Released: 96 Mcf Recovered: 0 Mcf Lost: 96 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 or is this venting and/or flaring a result of downstream activity | Not answered. |
| Was notification of downstream activity received by you or your operator | Not answered. |
| Downstream OGRID that should have notified you or your operator | Not answered. |
| Date notified of downstream activity requiring this venting and/or flaring | Not answered. |
| Time notified of downstream activity requiring this venting and/or flaring | Not answered. |

| | |
|--|--|
| Steps and Actions to Prevent Waste | |
| For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control. | False |
| Please explain reason for why this event was beyond your operator's control | Not answered. |
| Steps taken to limit the duration and magnitude of venting and/or flaring | The Low pressure flare was above regulated flare volumes due to flash gas coming off of the tanks. Tap Rock is analyzing how to capture this gas more effectively to stay under regulated volumes. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring | The Low pressure flare was above regulated flare volumes due to flash gas coming off of the tanks. Tap Rock is analyzing how to capture this gas more effectively to stay under regulated volumes. |

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CONDITIONS
 Action 63094

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| | Action Number: 63094 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| bramsey | 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. | 11/23/2021 |