



| | | | |
|---------------------|------------------------|--------------------------|--|
| 7235G | NCW9728005 | Hallertau 5 Fed 4H Alloc | |
| Sample Point Code | Sample Point Name | Sample Point Location | |
| Laboratory Services | 2020037412 | 2319 | J Mcpherson - Spot |
| Source Laboratory | Lab File No | Container Identity | Sampler |
| USA | USA | USA | New Mexico |
| District | Area Name | Field Name | Facility Name |
| Dec 9, 2020 10:30 | Dec 9, 2020 10:30 | Dec 14, 2020 13:50 | Dec 15, 2020 |
| Date Sampled | Date Effective | Date Received | Date Reported |
| 52.00 | Torrance | 120 @ 78 | |
| Ambient Temp (°F) | Flow Rate (Mcf) | Analyst | Press PSI @ Temp °F Source Conditions |
| Cimarex Energy | NG | | |
| Operator | Lab Source Description | | |

| Component | Normalized Mol % | Un-Normalized Mol % | GPM |
|--------------------|------------------|---------------------|--------|
| H2S (H2S) | 0.0000 | 0 | |
| Nitrogen (N2) | 1.0370 | 1.03658 | |
| CO2 (CO2) | 3.2910 | 3.29074 | |
| Methane (C1) | 75.6380 | 75.63923 | |
| Ethane (C2) | 11.0930 | 11.0926 | 2.9660 |
| Propane (C3) | 5.4180 | 5.41778 | 1.4920 |
| I-Butane (IC4) | 0.7190 | 0.7186 | 0.2350 |
| N-Butane (NC4) | 1.6200 | 1.61953 | 0.5110 |
| I-Pentane (IC5) | 0.3640 | 0.36426 | 0.1330 |
| N-Pentane (NC5) | 0.3820 | 0.38241 | 0.1380 |
| Hexanes Plus (C6+) | 0.4380 | 0.43826 | 0.1900 |
| TOTAL | 100.0000 | 100.0000 | 5.6650 |

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

| Analyzer Information | | | |
|----------------------|-------------------|----------------|--------------|
| Device Type: | Gas Chromatograph | Device Make: | Shimadzu |
| Device Model: | GC-2014 | Last Cal Date: | Dec 15, 2020 |

| Gross Heating Values (Real, BTU/ft³) | | | |
|---|--------------|------------------------|-----------|
| 14.696 PSI @ 60.00 °F | | 14.73 PSI @ 60.00 °F | |
| Dry | Saturated | Dry | Saturated |
| 1,229.5 | 1,209.4 | 1,232.3 | 1,212.2 |
| Calculated Total Sample Properties | | | |
| GPA2145-16 *Calculated at Contract Conditions | | | |
| Relative Density Real | | Relative Density Ideal | |
| 0.7588 | | 0.7563 | |
| Molecular Weight | | | |
| 21.9036 | | | |
| C6+ Group Properties | | | |
| Assumed Composition | | | |
| C6 - 60.000% | C7 - 30.000% | C8 - 10.000% | |
| Field H2S | | | |
| .2 PPM | | | |

PROTREND STATUS: Passed By Validator on Dec 16, 2020
DATA SOURCE: Imported

PASSED BY VALIDATOR REASON:
 Close enough to be considered reasonable.

VALIDATOR:
 Dustin Armstrong

VALIDATOR COMMENTS:
 OK

| HALLERTAU 5 FEDERAL 4H FLARE | | | | Digital (gas) | | 7947 | |
|------------------------------|----------|--------|-----------|---------------|----------|----------|----------|
| | | 1/2021 | 7/10/2021 | 7/9/2021 | 7/8/2021 | 7/7/2021 | 7/6/2021 |
| ➤ Static | (PSI) | 13 | 13 | 13 | 16 | 15 | 14 |
| Differential | (In H2O) | 0 | 0 | 0 | 21 | 12 | 6 |
| Gas Flowed | (MCF) | 0.0 | 0.0 | 86.0 | 305.0 | 231.0 | 172.0 |

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 37448

QUESTIONS

| | |
|--|--|
| Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701 | OGRID: 162683 |
| | Action Number: 37448 |
| | Action Type: [C-129] Venting and/or Flaring (C-129) |

QUESTIONS**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 or is this venting or flaring caused by an emergency or malfunction | No |
| Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event | Yes |
| Is this considered a submission for a notification of a major venting or flaring | Yes, major venting or flaring of natural gas. |
| The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.29.7 NMAC | |
| Was there or will there be at least 50 MCF of natural gas vented or flared during this event | Yes |
| Did this venting 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 |

Unregistered Facility Site

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

| | |
|-----------------------|------------------------------|
| Facility or Site Name | HALLERTAU 5 FEDERAL 4H FLARE |
| Facility Type | Flare Stack - (FS) |

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 | 76 |
| 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 |
| 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. |

Date(s) and Time(s)

| | |
|---|------------|
| Date venting or flaring was discovered or commenced | 07/06/2021 |
| Time venting or flaring was discovered or commenced | 07:15 AM |
| Is the venting or flaring event complete | Yes |
| Date venting or flaring was terminated | 07/09/2021 |
| Time venting or flaring was terminated | 01:00 AM |
| Total duration of venting or flaring in hours, if venting or flaring has terminated | 40 |
| Longest duration of cumulative hours within any 24-hour period during this event | 21 |

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 Gas Compressor Station Natural Gas Flared Spilled: 794 Mcf Recovered: 0 Mcf Lost: 794 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 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 or flaring a result of downstream activity | Not answered. |
| Date notified of downstream activity requiring this venting or flaring | Not answered. |
| Time notified of downstream activity requiring this venting or flaring | Not answered. |

Steps and Actions to Prevent Waste

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|--|--|
| For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control. | True |
| Please explain reason for why this event was beyond your operator's control | High line pressure attributed to third party gas gatherer. This also contributed to mechanical issues at the BPV Separator. |
| Steps taken to limit the duration and magnitude of venting or flaring | BPV was repaired, and Cimarex was in constant communication with third party gas gatherer. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring | Cimarex will continue to take proactive measures in regards to its communication and relationship with DCP in regards to its gathering system disruptions. |

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CONDITIONS

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CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| system | If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event. | 7/22/2021 |