

**Atchafalaya Measurement, Inc.**  
 416 East Main Street Artesia, NM 88210 575-746-3481

**Inficon Micro GC Fusion F08904 R03RR2**

|                           | Sample Information                                      |
|---------------------------|---------------------------------------------------------|
| Sample Name               | Cimarex__Hallertau 4 Federal 4 CDP Check__GC1-111618-09 |
| Station Number            | NCP9728009                                              |
| Lease Name                | Hallertau 4 Federal 4 CDP Check                         |
| Analysis For              | Cimarex Energy                                          |
| Producer                  | Cimarex Energy                                          |
| Field Name                | N/A                                                     |
| County/State              | N/A                                                     |
| Frequency/Spot Sample     | Spot                                                    |
| Sampling Method           | Fill Empty                                              |
| Sample Deg F              | 88                                                      |
| Atmos Deg F               | N/A                                                     |
| Flow Rate                 | N/A                                                     |
| Line PSIG                 | 585                                                     |
| Date/Time Sampled         | 10-28-18                                                |
| Cylinder Number           | N/A                                                     |
| Cylinder Clean Date       | N/A                                                     |
| Sampled By                | Coty B                                                  |
| Analysis By               | Pat Silvas                                              |
| Verified/Calibration Date | 11-12-18                                                |
| Report Date               | 2018-11-16 08:38:15                                     |

**Component Results**

| Component Name | Ret. Time | Peak Area | Norm%     | PPMV        | GPM (Dry)<br>(Gal. / 1000 cu.ft.) |
|----------------|-----------|-----------|-----------|-------------|-----------------------------------|
| Nitrogen       | 22.260    | 12703.3   | 2.54301   | 25430.100   | 0.000                             |
| H2S            | 46.680    | 54.9      | 0.00000   | 0.000       | 0.000                             |
| Methane        | 23.100    | 285808.6  | 73.56905  | 735690.500  | 0.000                             |
| Carbon Dioxide | 26.800    | 35533.1   | 5.96032   | 59603.200   | 0.000                             |
| Ethane         | 37.200    | 64565.1   | 9.93860   | 99386.000   | 2.667                             |
| Propane        | 79.240    | 41679.1   | 4.77953   | 47795.300   | 1.321                             |
| i-butane       | 28.780    | 43795.0   | 0.65290   | 6529.000    | 0.214                             |
| n-Butane       | 30.380    | 98706.1   | 1.41781   | 14178.100   | 0.448                             |
| i-pentane      | 35.460    | 28009.9   | 0.34132   | 3413.200    | 0.125                             |
| n-Pentane      | 37.540    | 30635.7   | 0.36337   | 3633.700    | 0.132                             |
| Hexanes Plus   | 120.000   | 37341.0   | 0.43409   | 4340.900    | 0.189                             |
| Total:         |           |           | 100.00000 | 1000000.000 | 5.097                             |

**Results Summary**

| Result                                   | Dry      | Sat. (Base) |
|------------------------------------------|----------|-------------|
| Total Raw Mole% (Dry)                    | 98.32228 |             |
| Pressure Base (psia)                     | 14.730   |             |
| Temperature Base                         | 60.00    |             |
| Gross Heating Value (BTU / Ideal cu.ft.) | 1159.8   | 1139.6      |
| Gross Heating Value (BTU / Real cu.ft.)  | 1164.0   | 1144.2      |
| Relative Density (G), Ideal              | 0.7717   | 0.7691      |
| Relative Density (G), Real               | 0.7741   | 0.7718      |
| Compressibility (Z) Factor               | 0.9964   | 0.9960      |

|  HALLERTAU 4 FEDERAL CDP FLARE |         | Digital (gas |           |           |           |
|-----------------------------------------------------------------------------------------------------------------|---------|--------------|-----------|-----------|-----------|
|                                                                                                                 |         | 0/2021       | 10/9/2021 | 10/8/2021 | 10/7/2021 |
| Static                                                                                                          | (PSI)   | 13           | 13        | 13        | 13        |
| Differential                                                                                                    | (In H2O | 0            | 0         | 0         | 0         |
| Gas Flowed                                                                                                      | (MCF)   | 0.0          | 0.0       | 0.0       | 155.0     |

**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 59379

**QUESTIONS**

|                                                                                              |                                                        |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>CIMAREX ENERGY CO. OF COLORADO<br>600 N. Marienfeld Street<br>Midland, TX 79701 | OGRID:<br>162683                                       |
|                                                                                              | Action Number:<br>59379                                |
|                                                                                              | 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     | Not answered.                        |
| Incident Facility | [fAPP2124554027] HALLERTAU 4 FEDERAL |

**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 and/or flaring caused by an emergency or malfunction                                                                                                                                                                                                                  | Yes                                               |
| 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. |
| 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 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 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                                     | 74 |
| Nitrogen (N2) percentage, if greater than one percent        | 3  |
| Hydrogen Sulfide (H2S) PPM, rounded up                       | 0  |
| Carbon Dioxide (CO2) percentage, if greater than one percent | 0  |
| 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 and/or flaring was discovered or commenced | 10/07/2021 |
| Time venting and/or flaring was discovered or commenced | 07:15 AM   |
| Time venting and/or flaring was terminated              | 12:00 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: Equipment Failure   Gas Compressor Station   Natural Gas Flared   Released: 155 Mcf   Recovered: 0 Mcf   Lost: 155 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. | True                                                                                                                                          |
| Please explain reason for why this event was beyond your operator's control                                                    | Compressor went down unexpectedly resulting in a 2 hour flare. Reporting of this flare event was discovered during an audit of this facility. |
| Steps taken to limit the duration and magnitude of venting and/or flaring                                                      | Compressor was fixed and wells were shut in to prevent further flaring.                                                                       |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | As noted wells were shut in to mitigate flaring event. Additionally compressor was fixed.                                                     |

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CONDITIONS

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## CONDITIONS

|                                                                                              |                                                        |
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|                                                                                              | Action Number:<br>59379                                |
|                                                                                              | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

## CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| jacosta01  | 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. | 11/2/2021      |