

Atchafalaya Measurement, Inc.

416 East Main Street

Artesia, NM 88210 575-746-3481

Sample Information



| | Sample Information |
|----------------|--|
| Sample Name | Cimarex__James Federal 20H WH Allocation__GC2-12918-22 |
| Station Number | NCW1471154 |
| Lease Name | James Federal 20H WH Allocation |
| Analysis for | Cimarex Energy |
| Producer | Cimarex Energy |
| Field Name | Hobbs |
| County | Lea |
| State | NM |
| Frequency | Quarterly |
| Sample Deg F | 63.2 |
| Atmos Deg F | 64.0 |
| Flow Rate | 848.1282 |
| LinePSIG | 45.5 |
| Date Sampled | 1-26-18 |
| Sampled By | Derek Sauder |
| Analysis By | Pat Silvas |
| Report Date | 2018-01-29 15:21:09 |

Component Results

| Component Name | Ret. Time | Peak Area | Norm% | PPMV | GPM (Dry) (Gal. / 1000 cu.ft.) |
|----------------|-----------|-----------|-----------|-------------|-----------------------------------|
| Nitrogen | 22.580 | 30287.0 | 2.28518 | 22851.800 | 0.252 |
| H2S | 0.000 | 0.0 | 0.00013 | 1.300 | 0.000 |
| Methane | 23.380 | 732518.5 | 72.16636 | 721663.600 | 12.276 |
| Carbon Dioxide | 26.860 | 147794.7 | 9.43932 | 94393.200 | 1.616 |
| Ethane | 36.980 | 143437.1 | 8.58111 | 85811.100 | 2.303 |
| Propane | 77.900 | 92629.9 | 4.20863 | 42086.300 | 1.163 |
| i-Butane | 28.600 | 40744.6 | 0.53772 | 5377.200 | 0.177 |
| n-Butane | 30.120 | 102145.1 | 1.29067 | 12906.700 | 0.408 |
| i-Pentane | 34.700 | 34476.4 | 0.36422 | 3642.200 | 0.134 |
| n-Pentane | 36.460 | 37936.1 | 0.38768 | 3876.800 | 0.141 |
| Hexanes Plus | 120.000 | 78847.0 | 0.73898 | 7389.800 | 0.322 |
| Total: | | | 100.00000 | 1000000.000 | 18.792 |

Results Summary

| Result | Dry | Sat. (Base) |
|--|-------------|-------------|
| Total Raw Mole% (Dry) | 99.99601 | |
| Total Amount PPM (Mole/Vol.) | 1000000.000 | |
| Pressure Base (psia) | 14.730 | |
| Temperature Base | 60.0 | |
| Gross Heating Value (BTU / Ideal cu.ft.) | 1116.8 | 1097.4 |
| Gross Heating Value (BTU / Real cu.ft.) | 1120.9 | 1101.9 |
| Relative Density (G), Ideal | 0.7976 | 0.7946 |
| Relative Density (G), Real | 0.8002 | 0.7975 |
| Compressibility (Z) Factor | 0.9963 | 0.9959 |

|  JAMES FEDERAL 20H FLARE | | Digital (gas) | | | |
|---|-----------------------|---------------|------------|------------|------------|
| | | 10/22/2021 | 10/21/2021 | 10/20/2021 | 10/19/2021 |
|  Static | (PSI) | 59 | 69 | 70 | 68 |
| Differential | (In H ₂ O) | 0 | 0 | 0 | 0 |
| Gas Flowed | (MCF) | 0.0 | 0.0 | 0.0 | 58.0 |

2 Hours

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 60284

QUESTIONS

| | |
|--|--|
| Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701 | OGRID: 215099 |
| | Action Number: 60284 |
| | 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 | [fAPP2128646337] JAMES FEDERAL 20H & James 29 35H & 36H |

| | |
|--|---|
| 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 | 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. |
| <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 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 | |
| <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 | 2 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 1 |
| Carbon Dioxide (CO2) percentage, if greater than one percent | 9 |
| 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 | 10/19/2021 |
| 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 | Cause: Equipment Failure Gas Compressor Station Natural Gas Vented Released: 58 Mcf Recovered: 0 Mcf Lost: 58 Mcf |

| | |
|---|--|
| Natural Gas Flared (Mcf) Details | Not answered. |
| 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 briefly. |
| Steps taken to limit the duration and magnitude of venting and/or flaring | Event lasted about 1.90 hours. Cimarex field personnel were able to get compressor back and going. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring | Cimarex continues to have issues with compressor and is working to increase run time. Additionally Cimarex will shut in wells to limit flaring duration and flared volumes. |

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CONDITIONS

Action 60284

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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. | 11/4/2021 |