# Gas Composition and Properties

EOG Resources, Inc.

Effective May 1, 2019 00:00 - January 18, 2038 00:00

Source #: ART82029
Name: Pearman BKP #1 Flare

| Component | Mole % | Liquid Content | Mass % |
|---|---|---|---|
| Carbon Dioxide, CO2 | 8.6724 | | 19.8347 |
| Nitrogen, N2 | 0.7341 | | 1.0687 |
| Methane, C1 | 87.3730 | | 72.8430 |
| Ethane, C2 | 2.3235 | 0.6225 | 3.6308 |
| Propane, C3 | 0.4710 | 0.1300 | 1.0793 |
| iso-Butane, iC4 | 0.1164 | 0.0382 | 0.3516 |
| n-Butane, nC4 | 0.0971 | 0.0307 | 0.2933 |
| iso-Pentane, iC5 | 0.0488 | 0.0179 | 0.1830 |
| n-Pentane, nC5 | 0.0229 | 0.0083 | 0.0859 |
| Neo-Pentane, NeoC5 | | | |
| Hexanes Plus, C6+ | 0.1405 | 0.0606 | 0.6292 |
| Water, H2O | | | |
| Hydrogen Sulfide, H2S | 0.0003 | | 0.0005 |
| Oxygen, O2 | | | |
| Carbon Monoxide, CO | | | |
| Hydrogen, H2 | | | |
| Helium, He | | | |
| Argon, Ar | | | |
| Totals | 100.0000 | 0.9090 | 100.0000 |

| Property | Total Sample | C6 Plus Fraction |
|---|---|---|
| Pressure Base | 14.730 | |
| Temperature Base | 60.00 | |
| HCDP @ Sample Pressure | | |
| Cricondentherm | | |
| HV, Dry @ Base P, T | 956.89 | |
| HV, Sat @ Base P, T | 940.29 | |
| HV, Sat @ Sample P, T | 951.09 | |
| Relative Density | 0.6661 | |

C6+: 100

**Sample**

Date: 03/07/2019
Type: Spot
Tech: JT

Pressure: 37.0
Temperature: 63.0
H2O: lbs/mm
H2S: 0 ppm

Remarks: _

**Analysis**

Date: 04/15/2019
Tech: Allison Scott

Instrument:
Cylinder: SMS-S358

Remarks:

# Gas Composition and Properties

Effective May 1, 2019 00:00 - January 18, 2038 00:00

Source #: ART82029
Name: Pearman BKP #1 Flare

*** End of Report ***

# HOURLY GAS VOLUME STATEMENT

**EOG Resources, Inc.**

**September 8, 2021**

Meter #: ART82029
Name: PEARMAN BKP #1

| | | | |
|---|---|---|---|
| **Pressure Base:** | 14.730 psia | **Meter Status:** | Active |
| **Temperature Base:** | 60.00 °F | **Contract Hr.:** | Midnight |
| **Atmos Pressure:** | 14.730 psi | **Full Wellstream:** | |
| **Calc Method:** | AGA3-1992 | **WV Technique:** | |
| **Z Method:** | AGA-8 Gross 2 (1992) | **WV Method:** | |
| **Tube I.D.:** | 3.0680 in. | **HV Cond:** | Dry |
| **Tap Location:** | Upstream | **Meter Type:** | EFM |
| **Tap Type:** | Flange | **Interval:** | 1 Hour |

| CO2 | N2 | C1 | C2 | C3 | I-C4 | N-C4 | I-C5 |
|---|---|---|---|---|---|---|---|
| 8.672 | 0.734 | 87.373 | 2.324 | 0.471 | 0.116 | 0.097 | 0.049 |

| N-C5 | NeoC5 | C6 | C7 | C8 | C9 | C10 |
|---|---|---|---|---|---|---|
| 0.023 | | 0.141 | | | | |

| O2 | H2 | CO | He | Ar | H2S | H2S ppm | H2O |
|---|---|---|---|---|---|---|---|
| | | | | | 0.0003 | 0.000 | |

| Hour | Differential (In. H2O) | Pressure (psia) | Temp. (°F) | Flow Time (hrs) | Relative Density | Plate (inches) | Volume (Mcf) | Heating Value (Btu/scf) | Energy (MMBtu) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.6661 | 1.3750 | 0.00 | 956.89 | 0.00 |
| 10 | 0.00 | 13.21 | 95.28 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 11 | 0.00 | 13.22 | 105.85 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 12 | 0.00 | 13.20 | 109.63 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 13 | 0.00 | 13.18 | 111.25 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 14 | 0.00 | 13.17 | 114.60 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 15 | 0.00 | 13.16 | 110.31 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 16 | 0.00 | 13.16 | 101.06 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 17 | 0.00 | 13.16 | 98.70 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 18 | 0.00 | 13.17 | 86.83 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 19 | 0.00 | 13.17 | 79.36 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 20 | 0.00 | 13.18 | 76.72 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 21 | 0.00 | 13.19 | 73.91 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 22 | 0.00 | 13.19 | 70.62 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 23 | 0.00 | 13.19 | 70.50 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| **Total** | 0.00 | 8.24 | 58.53 | 0.00 | 0.6661 | | 0.00 | | 0.00 |

# HOURLY GAS VOLUME STATEMENT

**EOG Resources, Inc.**

**September 9, 2021**

Meter #: ART82029
Name: PEARMAN BKP #1

| | | | |
|---|---|---|---|
| **Pressure Base:** | 14.730 psia | **Meter Status:** | Active |
| **Temperature Base:** | 60.00 °F | **Contract Hr.:** | Midnight |
| **Atmos Pressure:** | 14.730 psi | **Full Wellstream:** | |
| **Calc Method:** | AGA3-1992 | **WV Technique:** | |
| **Z Method:** | AGA-8 Gross 2 (1992) | **WV Method:** | |
| **Tube I.D.:** | 3.0680 in. | **HV Cond:** | Dry |
| **Tap Location:** | Upstream | **Meter Type:** | EFM |
| **Tap Type:** | Flange | **Interval:** | 1 Hour |

| CO2 | N2 | C1 | C2 | C3 | I-C4 | N-C4 | I-C5 |
|---|---|---|---|---|---|---|---|
| 8.672 | 0.734 | 87.373 | 2.324 | 0.471 | 0.116 | 0.097 | 0.049 |

| N-C5 | NeoC5 | C6 | C7 | C8 | C9 | C10 |
|---|---|---|---|---|---|---|
| 0.023 | | 0.141 | | | | |

| O2 | H2 | CO | He | Ar | H2S | H2S ppm | H2O |
|---|---|---|---|---|---|---|---|
| | | | | | 0.0003 | 0.000 | |

| Hour | Differential (In. H2O) | Pressure (psia) | Temp. (°F) | Flow Time (hrs) | Relative Density | Plate (inches) | Volume (Mcf) | Heating Value (Btu/scf) | Energy (MMBtu) |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.00 | 13.20 | 69.12 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 2 | 0.00 | 13.19 | 67.76 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 3 | 0.00 | 13.18 | 66.27 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 4 | 0.00 | 13.19 | 63.63 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 5 | 0.00 | 13.19 | 61.76 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 6 | 0.00 | 13.18 | 60.93 | 0.00 | 0.6661 | 1.5000 | 0.00 | 956.89 | 0.00 |
| 7 | 44.56 | 30.84 | 68.84 | 0.04 | 0.6661 | 1.5000 | 0.72 | 956.89 | 0.69 |
| 8 | 63.17 | 57.94 | -26.40 | 0.72 | 0.6661 | 1.5000 | 27.90 | 956.89 | 26.69 |
| 9 | 71.14 | 66.55 | -36.07 | 1.00 | 0.6661 | 1.8750 | 72.14 | 956.89 | 69.03 |
| 10 | 79.21 | 70.09 | -3.98 | 1.00 | 0.6661 | 1.5000 | 45.74 | 956.89 | 43.76 |
| 11 | 79.85 | 66.00 | 44.41 | 1.00 | 0.6661 | 1.5000 | 42.31 | 956.89 | 40.48 |
| **Total** | 73.77 | 65.88 | -8.43 | 3.77 | 0.6661 | | 188.79 | | 180.65 |

**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 47501

## QUESTIONS

| | |
|---|---|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377 |
| | Action Number:<br>47501 |
| | 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 | **[30-015-20267] PEARMAN BKP #001** |
| Incident Facility | *Not answered.* |

| **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 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.** |
| *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 | 0 |
| Nitrogen (N2) percentage, if greater than one percent | 1 |
| Hydrogen Sulfide (H2S) PPM, rounded up | 0 |
| Carbon Dioxide (C02) percentage, if greater than one percent | 9 |
| 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.* |

| **Date(s) and Time(s)** | |
|---|---|
| Date venting and/or flaring was discovered or commenced | 09/09/2021 |
| Time venting and/or flaring was discovered or commenced | 07:00 AM |
| Time venting and/or flaring was terminated | 12:00 PM |
| Cumulative hours during this event | 5 |

| **Measured or Estimated Volume of Vented or Flared Natural Gas** | |
|---|---|
| Natural Gas Vented (Mcf) Details | *Not answered.* |

| | |
|---|---|
| Natural Gas Flared (Mcf) Details | Cause: Other \| Well \| Natural Gas Flared \| Released: 185 Mcf \| Recovered: 0 Mcf \| Lost: 185 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 | well is being prepared to be plugged and residual gas was flared |
| Steps taken to limit the duration and magnitude of venting and/or flaring | well is being plugged |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring | well will be P&A |

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# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505

CONDITIONS

Action 47501

## CONDITIONS

| Operator: | OGRID: |
|---|---|
| EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | 7377 |
| | Action Number:<br>47501 |
| | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| mmorales | 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. | 9/9/2021 |