

**Gas Composition and Properties**

Effective July 1, 2020 00:00 - January 18, 2038 21:14

Source #: ART82067

Name: Crossroads AFX Fed #1 Flare

| Component             | Mole %   | Liquid Content | Mass %   |
|-----------------------|----------|----------------|----------|
| Carbon Dioxide, CO2   | 0.1644   |                | 0.2715   |
| Nitrogen, N2          | 8.4722   |                | 8.9066   |
| Methane, C1           | 60.6606  |                | 36.5195  |
| Ethane, C2            | 9.9097   | 2.6578         | 11.1822  |
| Propane, C3           | 10.2156  | 2.8224         | 16.9047  |
| iso-Butane, iC4       | 1.9788   | 0.6494         | 4.3161   |
| n-Butane, nC4         | 4.4269   | 1.3996         | 9.6558   |
| iso-Pentane, iC5      | 1.1631   | 0.4266         | 3.1492   |
| n-Pentane, nC5        | 1.2074   | 0.4389         | 3.2691   |
| Neo-Pentane, NeoC5    |          |                |          |
| Hexanes Plus, C6+     | 1.8013   | 0.7428         | 5.8253   |
| Water, H2O            |          |                |          |
| Hydrogen Sulfide, H2S |          |                |          |
| Oxygen, O2            |          |                |          |
| Carbon Monoxide, CO   |          |                |          |
| Hydrogen, H2          |          |                |          |
| Helium, He            |          |                |          |
| Argon, Ar             |          |                |          |
| Totals                | 100.0000 | 9.1380         | 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    | 1452.00      |                  |
| HV, Sat @ Base P, T    | 1426.73      |                  |
| HV, Sat @ Sample P, T  |              |                  |
| Relative Density       | 0.9292       |                  |
| C6+: 100               |              |                  |

**Sample**

Date: Pressure:  
Type: Temperature:  
Tech: H2O: lbs/mm  
H2S: ppm

Remarks:

**Analysis**

Date: Instrument:  
Cylinder:

Tech:

Remarks:

\*\*\* End of Report \*\*\*

**GAS VOLUME STATEMENT**

EOG Resources, Inc.

July, 2021

Meter #: ART82067

Name: Crossroads AFX Fed #1 Flare

|                          |                     |                         |          |             |              |           |           |           |             |                |             |
|--------------------------|---------------------|-------------------------|----------|-------------|--------------|-----------|-----------|-----------|-------------|----------------|-------------|
| <b>Pressure Base:</b>    | 14.730 psia         | <b>Meter Status:</b>    | Active   | <b>CO2</b>  | <b>N2</b>    | <b>C1</b> | <b>C2</b> | <b>C3</b> | <b>I-C4</b> | <b>N-C4</b>    | <b>I-C5</b> |
| <b>Temperature Base:</b> | 60.00 °F            | <b>Contract Hr.:</b>    | Midnight | 0.164       | 8.472        | 60.661    | 9.910     | 10.216    | 1.979       | 4.427          | 1.163       |
| <b>Atmos Pressure:</b>   | 13.200 psi          | <b>Full Wellstream:</b> |          | <b>N-C5</b> | <b>NeoC5</b> | <b>C6</b> | <b>C7</b> | <b>C8</b> | <b>C9</b>   | <b>C10</b>     |             |
| <b>Calc Method:</b>      | AGA3-1992           | <b>WV Technique:</b>    |          | 1.207       |              | 1.801     |           |           |             |                |             |
| <b>Z Method:</b>         | AGA-8 Detail (1992) | <b>WV Method:</b>       |          |             |              |           |           |           |             |                |             |
| <b>Tube I.D.:</b>        | 3.0680 in.          | <b>HV Cond:</b>         | Dry      | <b>O2</b>   | <b>H2</b>    | <b>CO</b> | <b>He</b> | <b>Ar</b> | <b>H2S</b>  | <b>H2S ppm</b> | <b>H2O</b>  |
| <b>Tap Location:</b>     | Upstream            | <b>Meter Type:</b>      | EFM      |             |              |           |           |           |             |                |             |
| <b>Tap Type:</b>         | Flange              | <b>Interval:</b>        | 1 Hour   |             |              |           |           |           |             |                |             |

| Day          | Differential<br>(In. H2O) | Pressure<br>(psia) | Temp.<br>(°F) | Flow<br>Time<br>(hrs) | Relative<br>Density | Plate<br>(inches) | Volume<br>(Mcf) | Heating<br>Value<br>(Btu/scf) | Energy<br>(MMBtu) |
|--------------|---------------------------|--------------------|---------------|-----------------------|---------------------|-------------------|-----------------|-------------------------------|-------------------|
| 1            | 0.00                      | 0.00               | 0.00          | 0.00                  | 0.9292              | 0.5000            | 0.00            | 1452.00                       | 0.00              |
| 2            | 0.00                      | 0.00               | 0.00          | 0.00                  | 0.9292              | 0.5000            | 0.00            | 1452.00                       | 0.00              |
| 3            | 0.00                      | 0.00               | 0.00          | 0.00                  | 0.9292              | 0.5000            | 0.00            | 1452.00                       | 0.00              |
| 4            | 0.00                      | 0.00               | 0.00          | 0.00                  | 0.9292              | 0.5000            | 0.00            | 1452.00                       | 0.00              |
| 5            | 0.00                      | 0.00               | 0.00          | 0.00                  | 0.9292              | 0.5000            | 0.00            | 1452.00                       | 0.00              |
| 6            | 0.00                      | 0.00               | 0.00          | 0.00                  | 0.9292              | 0.5000            | 0.00            | 1452.00                       | 0.00              |
| 7            | 195.16                    | 38.64              | 80.64         | 9.11                  | 0.9292              | 0.5000            | 22.57           | 1452.00                       | 32.77             |
| 8            | 52.04                     | 38.82              | 77.05         | 7.30                  | 0.9292              | 0.5000            | 11.27           | 1452.00                       | 16.36             |
| 9            | 60.99                     | 29.51              | 82.63         | 23.57                 | 0.9292              | 0.5000            | 47.76           | 1452.00                       | 69.34             |
| 10           | 46.00                     | 25.47              | 74.47         | 20.61                 | 0.9292              | 0.5000            | 19.40           | 1452.00                       | 28.17             |
| 11           | 0.61                      | 23.23              | 69.94         | 3.63                  | 0.9292              | 0.5000            | 0.66            | 1452.00                       | 0.96              |
| 12           | 9.16                      | 23.10              | 73.95         | 0.00                  | 0.9292              | 0.5000            | 0.00            | 1452.00                       | 0.00              |
| 13           | 39.11                     | 26.23              | 83.97         | 17.40                 | 0.9292              | 0.5000            | 24.39           | 1452.00                       | 35.41             |
| 14           | 43.33                     | 30.12              | 78.61         | 23.93                 | 0.9292              | 0.5000            | 43.32           | 1452.00                       | 62.90             |
| 15           | 51.08                     | 31.90              | 83.91         | 24.00                 | 0.9292              | 0.5000            | 48.82           | 1452.00                       | 70.89             |
| 16           | 43.34                     | 31.40              | 75.86         | 23.36                 | 0.9292              | 0.5000            | 30.55           | 1452.00                       | 44.35             |
| 17           | 51.08                     | 31.75              | 82.88         | 24.00                 | 0.9292              | 0.5000            | 48.57           | 1452.00                       | 70.53             |
| 18           | 58.67                     | 32.02              | 80.23         | 24.00                 | 0.9292              | 0.5000            | 52.49           | 1452.00                       | 76.22             |
| 19           | 59.86                     | 32.05              | 80.18         | 24.00                 | 0.9292              | 0.5000            | 53.06           | 1452.00                       | 77.04             |
| 20           | 69.78                     | 32.40              | 78.71         | 24.00                 | 0.9292              | 0.5000            | 57.34           | 1452.00                       | 83.26             |
| 21           | 69.10                     | 32.27              | 76.34         | 23.91                 | 0.9292              | 0.5000            | 56.60           | 1452.00                       | 82.19             |
| 22           | 78.25                     | 32.55              | 76.45         | 24.00                 | 0.9292              | 0.5000            | 60.94           | 1452.00                       | 88.48             |
| 23           | 56.98                     | 31.65              | 76.78         | 24.00                 | 0.9292              | 0.5000            | 36.63           | 1452.00                       | 53.18             |
| 24           | 50.25                     | 31.27              | 85.91         | 23.40                 | 0.9292              | 0.5000            | 31.16           | 1452.00                       | 45.25             |
| 25           | 70.53                     | 32.05              | 82.27         | 24.00                 | 0.9292              | 0.5000            | 57.21           | 1452.00                       | 83.07             |
| 26           | 55.01                     | 31.37              | 71.15         | 23.88                 | 0.9292              | 0.5000            | 45.36           | 1452.00                       | 65.86             |
| 27           | 71.12                     | 32.09              | 83.52         | 24.00                 | 0.9292              | 0.5000            | 57.36           | 1452.00                       | 83.29             |
| 28           | 78.71                     | 32.31              | 79.94         | 24.00                 | 0.9292              | 0.5000            | 60.63           | 1452.00                       | 88.03             |
| 29           | 85.07                     | 32.61              | 80.77         | 24.00                 | 0.9292              | 0.5000            | 63.06           | 1452.00                       | 91.56             |
| 30           | 93.25                     | 32.79              | 81.12         | 23.95                 | 0.9292              | 0.5000            | 65.94           | 1452.00                       | 95.75             |
| 31           | 97.89                     | 32.92              | 80.65         | 24.00                 | 0.9292              | 0.5000            | 67.76           | 1452.00                       | 98.38             |
| <b>Total</b> | <b>69.67</b>              | <b>31.91</b>       | <b>79.92</b>  | <b>512.08</b>         | <b>0.9292</b>       |                   | <b>1,062.83</b> |                               | <b>1,543.24</b>   |

**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  
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**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 39197

**QUESTIONS**

|                                                                      |                                                                                                     |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377<br>Action Number:<br>39197<br>Action Type:<br>[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. |
| <b>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 19.13.297 NMAC.</b>                                                                                        |                                               |
| 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 | Not answered. |
| Facility Type         | Not answered. |

**Equipment Involved**

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Primary Equipment Involved                                | Well          |
| 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                                                                                                             | 61            |
| Nitrogen (N2) percentage, if greater than one percent                                                                                | 8             |
| 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             |
| <b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b> |               |
| 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                                 | 07/07/2021    |
| Time venting or flaring was discovered or commenced                                 | 11:00 AM      |
| Is the venting or flaring event complete                                            | No            |
| Date venting or flaring was terminated                                              | Not answered. |
| Time venting or flaring was terminated                                              | Not answered. |
| Total duration of venting or flaring in hours, if venting or flaring has terminated | Not answered. |
| Longest duration of cumulative hours within any 24-hour period during this event    | 24            |

**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   Well   Natural Gas Flared   Spilled: 1,042 Mcf   Recovered: 0 Mcf   Lost: 1,042 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**

|  |
|--|
|  |
|--|

|                                                                                                                                |                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 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                                                    | This well is included on EOGs ACO for no pipeline connection.          |
| Steps taken to limit the duration and magnitude of venting or flaring                                                          | steps are being taken to evaluate and secure pipeline takeaway options |
| Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring                                         | Steps are being taken to evaluate and secure pipeline takeaway options |

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CONDITIONS  
  
Action 39197

CONDITIONS

|                                                                      |                                                        |
|----------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377                                         |
|                                                                      | Action Number:<br>39197                                |
|                                                                      | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

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. | 8/3/2021       |