



## Certificate of Analysis

Number: 6030-20110198-002A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Matt Erickson  
Marathon Oil Corporation  
4111 S. Tidwell  
Carlsbad, NM 88220

Nov. 25, 2020

Station Name: El Presidente 3,4,5,6,10 Sales Check  
Station Number: 17289SC  
Station Location: Marathon  
Sample Point: RGA  
Type of Sample: Spot-Cylinder  
Heat Trace Used: N/A  
Sampling Method: Fill and Purge  
Sampling Company: SPL  
Analyzed: 11/25/2020 11:22:11 by KNF

Sampled By: Jonah Reza  
Sample Of: Gas Spot  
Sample Date: 11/24/2020 02:45  
Sample Conditions: 167.89 psig, @ 78.53 °F Ambient: 73 °F  
Effective Date: 11/24/2020 02:45  
Method: GPA-2261M  
Cylinder No: 5030-00854  
Instrument: 6030\_GC6 (Inficon GC-3000 Micro)  
Last Inst. Cal.: 11/16/2020 0:00 AM

## Analytical Data

| Components       | Un-normalized<br>Mol % | Mol. %    | Wt. %   | GPM at<br>14.65 psia |                |       |
|------------------|------------------------|-----------|---------|----------------------|----------------|-------|
| Hydrogen Sulfide | 0.000                  | 0.00000   | 0.000   |                      | GPM TOTAL C2+  | 5.602 |
| Nitrogen         | 1.141                  | 1.13437   | 1.521   |                      | GPM TOTAL C3+  | 2.546 |
| Methane          | 79.335                 | 78.87390  | 60.583  |                      | GPM TOTAL iC5+ | 0.434 |
| Carbon Dioxide   | 0.089                  | 0.08838   | 0.186   |                      |                |       |
| Ethane           | 11.517                 | 11.45016  | 16.484  | 3.056                |                |       |
| Propane          | 5.179                  | 5.14890   | 10.870  | 1.415                |                |       |
| Iso-butane       | 0.668                  | 0.66422   | 1.848   | 0.217                |                |       |
| n-Butane         | 1.536                  | 1.52727   | 4.250   | 0.480                |                |       |
| Iso-pentane      | 0.340                  | 0.33753   | 1.166   | 0.123                |                |       |
| n-Pentane        | 0.367                  | 0.36477   | 1.260   | 0.132                |                |       |
| Hexanes Plus     | 0.413                  | 0.41050   | 1.832   | 0.179                |                |       |
|                  | 100.585                | 100.00000 | 100.000 | 5.602                |                |       |

## Calculated Physical Properties

|                             |        |        |
|-----------------------------|--------|--------|
| Relative Density Real Gas   | Total  | C6+    |
|                             | 0.7234 | 3.2176 |
| Calculated Molecular Weight | 20.89  | 93.19  |
| Compressibility Factor      | 0.9965 |        |

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia & 60°F

|                                     |        |        |
|-------------------------------------|--------|--------|
| Real Gas Dry BTU                    | 1250   | 5113   |
| Water Sat. Gas Base BTU             | 1229   | 5024   |
| Ideal, Gross HV - Dry at 14.65 psia | 1245.5 | 5113.2 |
| Ideal, Gross HV - Wet               | 1223.7 | 5023.7 |

**Comments:** H2S Field Content 0 ppm  
Mcf/day 3226.845

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

|                                     |           |
|-------------------------------------|-----------|
| Flaring/Venting Event Volume (MCF): | 66.53     |
| Flare or vent:                      | Flare     |
| Date:                               | 8/10/2021 |
| Time discovered:                    | 12:00 AM  |
| Time terminated:                    | 11:59 PM  |
| Total Duration (hrs):               | 23:59     |

**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 44200

**QUESTIONS**

|                                                                                   |                                                        |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>5555 San Felipe St.<br>Houston, TX 77056 | OGRID:<br>372098                                       |
|                                                                                   | Action Number:<br>44200                                |
|                                                                                   | 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     | [30-015-44484] EL PRESIDENTE STATE 24 27 2 TB #006H |
| 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 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                                                                                                                                                                  | Yes                                               |
| Is this considered a submission for a notification of a major venting and/or flaring                                                                                                                                                                                                         | 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                                     | 79 |
| 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 | 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 | 08/10/2021 |
| Time venting and/or flaring was discovered or commenced | 12:00 AM   |
| Time venting and/or flaring was terminated              | 11:59 PM   |
| Cumulative hours 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: High Line Pressure   Producing Well   Natural Gas Flared   Released: 67 Mcf   Recovered: 0 Mcf   Lost: 67 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. |
| 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                                                    | High Line Pressure - No Notification Received                                                                                                                            |
| Steps taken to limit the duration and magnitude of venting and/or flaring                                                      | no notification was provided as required per NMAC 19.15.28.8 (D). As soon as flaring was identified, immediate actions were taken to limit magnitude of flaring/venting. |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring                                     | Increased Back Pressure Relief Valve to limit potential flaring during downstream upsets but still maintain safety at the facility                                       |

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CONDITIONS  
  
Action 44200

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|                                                                                   |                                                        |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br>MARATHON OIL PERMIAN LLC<br>5555 San Felipe St.<br>Houston, TX 77056 | OGRID:<br>372098                                       |
|                                                                                   | Action Number:<br>44200                                |
|                                                                                   | Action Type:<br>[C-129] Venting and/or Flaring (C-129) |

CONDITIONS

| Created By | Condition                                                                                                                                                                          | Condition Date |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| icastro    | 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. | 8/24/2021      |