

Certificate of Analysis

Number: 6030-20050109-002A

Artesia Laboratory 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

Teresa Edwards Marathon Oil Corporation 4111 S. Tidwell Carlsbad, NM 88220

Station Name: Black River 374 8H Production Station Number: 18353GP Station Location: Marathon Sample Point: Meter Run

Type of Sample: Spot-Cylinder

Heat Trace Used: N/A

Sampling Method: Fill and Purge

Sampling Company: SPL

Analyzed: 05/20/2020 12:04:56 by User1

Daniel Haley Sampled By: Sample Of: Gas Spot Sample Date: 05/19/2020 10:46

Sample Conditions: 71.05 psig, @ 100 °F Ambient: 91 °F

May 20, 2020

05/19/2020 10:46 Effective Date: Method: GPA-2261M Cylinder No: 1111-002366

Instrument: 6030_GC2 (Agilent 7890B) Last Inst. Cal.: 05/05/2020 13:27 PM

Analytical Data

| Components | Un-normalized Mol % | Mol. % | Wt. % | GPM at 14.65 psia | | |
|----------------------|------------------------------------|------------|---------|----------------------|----------------|-------|
| Nitrogen | 1.114 | 1.12855 | 1.458 | | GPM TOTAL C2+ | 6.164 |
| Methane | 76.291 | 77.28722 | 57.161 | | GPM TOTAL C3+ | 3.087 |
| Carbon Dioxide | 0.069 | 0.06990 | 0.142 | | GPM TOTAL iC5+ | 0.747 |
| Ethane | 11.379 | 11.52759 | 15.980 | 3.077 | | |
| Propane | 5.456 | 5.52725 | 11.236 | 1.520 | | |
| Iso-butane | 0.723 | 0.73244 | 1.963 | 0.239 | | |
| n-Butane | 1.823 | 1.84681 | 4.949 | 0.581 | | |
| Iso-pentane | 0.452 | 0.45790 | 1.523 | 0.167 | | |
| n-Pentane | 0.532 | 0.53895 | 1.793 | 0.195 | | |
| Hexanes Plus | 0.872 | 0.88339 | 3.795 | 0.385 | | |
| | 98.711 | 100.00000 | 100.000 | 6.164 | | |
| Calculated Physica | Calculated Physical Properties | | l | C6+ | | |
| Relative Density Rea | al Gas | 0.7515 | 5 | 3.2176 | | |
| Calculated Molecula | | 21.69 |) | 93.19 | | |
| Compressibility Fact | Compressibility Factor | | | | | |
| GPA 2172 Calculati | on: | | | | | |
| Calculated Gross B | STU per ft ³ @ 14.65 ps | sia & 60°F | | | | |
| Real Gas Dry BTU | • | 1294 | ļ | 5113 | | |
| Water Sat. Gas Base | e BTU | 1272 | 2 | 5024 | | |
| Ideal, Gross HV - Dr | y at 14.65 psia | 1288.9 |) | 5113.2 | | |
| Ideal, Gross HV - We | | 1266.4 | ļ | 5023.7 | | |
| Comments: H2S F | ield Content 0 ppm | | | | | |

Hydrocarbon Laboratory Manager

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality

assurance, unless otherwise stated.

Quality Assurance:

| Flaring/Venting Event Volume (MCF): | 212.47 |
|-------------------------------------|------------|
| Flare or vent: | Flare |
| Date: | 10/26/2021 |
| Time discovered: | 8:31 AM |
| Time terminated: | 1:23 PM |
| Total Duration (hrs): | 4:52 |

<u>District I</u> 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 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 61607

| Q | UESTIONS | | |
|---|---------------------------------------|--|--|
| Operator: MARATHON OIL PERMIAN LLC | | OGRID: 372098 | |
| 990 Town & Country Blvd. Houston, TX 77024 | | Action Number: 61607 | |
| nodoli, 7777021 | | Action Type: [C-129] Venting and/or Flaring (C-129) | |
| QUESTIONS | | [O-125] Vehicing and/or Harring (O-125) | |
| Prerequisites | | | |
| Any messages presented in this section, will prevent submission of this application. Please resolve t | these issues before continuing wi | th the rest of the questions. | |
| Incident Well | Not answered. | | |
| Incident Facility | [fAPP2125238645] BLACK | RIVER 374 STATE FS | |
| | | | |
| Determination of Reporting Requirements | | | |
| Answer all questions that apply. The Reason(s) statements are calculated based on your answers ar | nd may provide addional guidance T | | |
| 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 v | enting 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 | | | |
| | 1 | | |
| 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 | 76 | | |
| 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 | 0 | | |
| Oxygen (02) percentage, if greater than one percent | 0 | | |
| If you are venting and/or flaring because of Pipeline Specification, please provide the required spec | | | |
| 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. | | |
| - 10 1 7 1 | ! | | |
| Date(s) and Time(s) | | | |
| Date venting and/or flaring was discovered or commenced | 10/26/2021 | | |
| Time venting and/or flaring was discovered or commenced | 08:31 AM | | |
| Time venting and/or flaring was terminated | 01:23 PM | | |
| Cumulative hours during this event | 5 | | |
| Managed on Entimated Valuma of Vanted on Flaved Natural Con | | | |

Not answered.

Natural Gas Vented (Mcf) Details

| Natural Gas Flared (Mcf) Details | Cause: Equipment Failure Producing Well Natural Gas Flared Released: 212 Mcf Recovered: 0 Mcf Lost: 212 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 | Equipment Malfunction | |
| Steps taken to limit the duration and magnitude of venting and/or flaring | As soon as flaring due to an equipment failure was identified, repairs were made as soon as practicable. | |
| Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring | As soon as the equipment failure was found, repairs were made. | |

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CONDITIONS

Action 61607

CONDITIONS

| Operator: | OGRID: |
|--------------------------|--|
| MARATHON OIL PERMIAN LLC | 372098 |
| 990 Town & Country Blvd. | Action Number: |
| Houston, TX 77024 | 61607 |
| | Action Type: |
| | [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. | 11/12/2021 |