



# Certificate of Analysis

Number: 6030-21010069-002A

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

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

Jan. 12, 2021

Station Name:	Frizzle Fry 1,2,7 Facility Sales Check 1	Sampled By:	Jonah Reza
Station Number:	22820SC1	Sample Of:	Gas Spot
Station Location:	Marathon	Sample Date:	01/11/2021 10:34
Sample Point:	RGA	Sample Conditions:	85.97 psig, @ 56.82 °F Ambient: 43 °F
Type of Sample:	Spot-Cylinder	Effective Date:	01/11/2021 10:34
Heat Trace Used:	N/A	Method:	GPA-2261M
Sampling Method:	Fill and Purge	Cylinder No:	5030-03274
Sampling Company:	SPL	Instrument:	70104124 (Inficon GC-MicroFusion)
Analyzed:	01/12/2021 10:52:46 by PGS	Last Inst. Cal.:	01/11/2021 0:00 AM

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+ 7.044
Nitrogen	1.261	1.25792	1.597		GPM TOTAL C3+ 3.207
Methane	73.680	73.48842	53.419		GPM TOTAL iC5+ 0.467
Carbon Dioxide	0.149	0.14811	0.295		
Ethane	14.410	14.37203	19.581	3.837	
Propane	6.874	6.85623	13.699	1.886	
Iso-butane	0.757	0.75493	1.988	0.247	
n-Butane	1.934	1.92847	5.079	0.607	
Iso-pentane	0.351	0.34989	1.144	0.128	
n-Pentane	0.385	0.38380	1.255	0.139	
Hexanes Plus	0.461	0.46020	1.943	0.200	
	100.262	100.00000	100.000	7.044	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7648	3.2176
Calculated Molecular Weight	22.07	93.19
Compressibility Factor	0.9960	

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft³ @ 14.65 psia & 60°F**

Real Gas Dry BTU	1311	5113
Water Sat. Gas Base BTU	1288	5024
Ideal, Gross HV - Dry at 14.65 psia	1305.4	5113.2
Ideal, Gross HV - Wet	1282.6	5023.7

**Comments:** H2S Field Content 0 ppm  
 Mcf/day 1471.227

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):	60.78
Flare or vent:	Flare
Date:	8/7/2021
Time discovered:	1:23 AM
Time terminated:	5:50 PM
Total Duration (hrs):	16:27

**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 43195

**QUESTIONS**

Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 43195
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<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	[30-025-45890] FRIZZLE FRY 15 WA FEDERAL COM #002H
Incident Facility	Not answered.

<b>Determination of Reporting Requirements</b>	
<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	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.
<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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	74
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
<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.

<b>Date(s) and Time(s)</b>	
Date venting and/or flaring was discovered or commenced	08/07/2021
Time venting and/or flaring was discovered or commenced	01:23 AM
Time venting and/or flaring was terminated	05:50 PM
Cumulative hours during this event	16

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.

Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Producing Well   Natural Gas Flared   Released: 61 Mcf   Recovered: 0 Mcf   Lost: 61 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.

<b>Venting or Flaring Resulting from Downstream Activity</b>	
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.

<b>Steps and Actions to Prevent Waste</b>	
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 43195

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Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 43195
	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.	8/19/2021