

# Certificate of Analysis

Number: 6030-20080129-001A

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

Matt Erickson Marathon Oil Corporation 4111 S. Tidwell Carlsbad, NM 88220 Aug. 18, 2020

Station Name: Flowmaster 3,6,7 Sales Check Sampled By: Jonah Reza Station Number: 20294SC Sample Of: Gas Spot Station Location: Marathon Sample Date: 08/14/2020 11:18

Station Location: Marathon Sample Date: 08/14/2020 11:18
Sample Point: RGA Sample Conditions: 65.3 psig, @ 100.06 °F Ambient: 93 °F

Type of Sample: Spot-Cylinder Effective Date: 08/14/2020 11:18
Heat Trace Used: N/A Method: GPA-2261M
Sampling Method: Fill and Purge Cylinder No: 1111-003930

Sampling Company: SPL Instrument: 70104251 (Inficon GC-MicroFusion)

Analyzed: 08/18/2020 11:25:02 by KNF Last Inst. Cal.: 08/10/2020 0:00 AM

### **Analytical Data**

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.00050	0.001		GPM TOTAL C2+	5.950
Nitrogen	1.645	1.63134	2.147		GPM TOTAL C3+	2.751
Methane	77.719	77.06864	58.078		GPM TOTAL iC5+	0.461
Carbon Dioxide	0.177	0.17502	0.362			
Ethane	12.086	11.98499	16.929	3.199		
Propane	5.651	5.60393	11.608	1.541		
Iso-butane	0.684	0.67858	1.853	0.222		
n-Butane	1.689	1.67507	4.573	0.527		
Iso-pentane	0.351	0.34806	1.180	0.127		
n-Pentane	0.389	0.38535	1.306	0.139		
Hexanes Plus	0.452	0.44852	1.963	0.195		
	100.843	100.00000	100.000	5.950		
Calculated Physical Properties		Total		C6+		
Relative Density Real	l Gas	0.7374		3.2176		
Calculated Molecular Weight		21.29		93.19		
Compressibility Factor		0.9964				
<b>GPA 2172 Calculation</b>						
Calculated Gross B	TU per ft <sup>3</sup> @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		1261		5113		
Water Sat. Gas Base BTU		1240		5024		
Ideal, Gross HV - Dry at 14.65 psia		1256.6		5113.2		
Ideal, Gross HV - Wet		1234.6		5023.7		
Comments: H2S Fig	eld Content 5 ppm					

Comments: H2S Field Content 5 ppm

Mcf/day 386.9931

Caly Atom

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):	107.24
Flare or vent:	Flare
Date:	8/7/2021
Time discovered:	1:11 AM
Time terminated:	7:14 PM
Total Duration (hrs):	18:03

<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 43131

Q	UESTIONS	
Operator: MARATHON OIL PERMIAN LLC		OGRID: 372098
5555 San Felipe St.		Action Number:
Houston, TX 77056		43131
		Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS		
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve t	these issues before continuing wit	th the rest of the questions.
Incident Well	[30-025-44688] FLOWMAS	TER 15 WD FEE #003H
Incident Facility	Not answered.	
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	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 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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes	
Did this venting and/or flaring result in the release of <b>ANY</b> 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	78	
Nitrogen (N2) percentage, if greater than one percent	2	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent	0	
Oxygen (02) percentage, it greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	ifications 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	08/07/2021	
Time venting and/or flaring was discovered or commenced	01:11 AM	
Time venting and/or flaring was terminated	07:14 PM	
Cumulative hours during this event	18	

Not answered.

Natural Gas Vented (Mcf) Details

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Producing Well   Natural Gas Flared   Released: 107 Mcf   Recovered: 0 Mcf   Lost: 107 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 43131

#### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	43131
	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.	8/18/2021