



Certificate of Analysis

Number: 6030-20120040-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Dec. 07, 2020

Station Name: Black River 15, 10 St 4H
Station Number: 15720
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: 12/07/2020 10:47:24 by PGS

Sampled By: Jonah Reza
Sample Of: Gas Spot
Sample Date: 12/04/2020 02:02
Sample Conditions: 74.16 psig, @ 102.05 °F Ambient: 54 °F
Effective Date: 12/04/2020 02:02
Method: GPA-2261M
Cylinder No: 1111-001271
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 12/07/2020 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+	5.973
Nitrogen	1.280	1.26835	1.651		GPM TOTAL C3+	2.970
Methane	78.471	77.73886	57.935		GPM TOTAL iC5+	0.712
Carbon Dioxide	0.119	0.11789	0.241			
Ethane	11.358	11.25168	15.717	3.003		
Propane	5.424	5.37317	11.007	1.477		
Iso-butane	0.696	0.68911	1.861	0.225		
n-Butane	1.782	1.76566	4.767	0.556		
Iso-pentane	0.445	0.44085	1.478	0.161		
n-Pentane	0.537	0.53238	1.784	0.193		
Hexanes Plus	0.830	0.82205	3.559	0.358		
	100.942	100.00000	100.000	5.973		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.7458	3.2176
Calculated Molecular Weight	21.53	93.19
Compressibility Factor	0.9962	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1281	5113
Water Sat. Gas Base BTU	1260	5024
Ideal, Gross HV - Dry at 14.65 psia	1276.6	5113.2
Ideal, Gross HV - Wet	1254.3	5023.7

Comments: H2S Field Content 0 ppm
Mcf/day 1740.2898

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):	152.84
Flare or vent:	Flare
Date:	8/15/2021
Time discovered:	9:00 PM
Time terminated:	11:09 PM
Total Duration (hrs):	2:09

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 44283

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 44283
	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 these issues before continuing with the rest of the questions.

Incident Well	[30-015-43959] BLACK RIVER 15 10 STATE COM X #004H
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	No
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	78
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	08/15/2021
Time venting and/or flaring was discovered or commenced	09:00 PM
Time venting and/or flaring was terminated	11:09 PM
Cumulative hours during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Producing Well Natural Gas Flared Released: 153 Mcf Recovered: 0 Mcf Lost: 153 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

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	Action Number: 44283
	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.	8/24/2021