



Certificate of Analysis

Number: 6030-20030046-001A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Teresa Edwards
Marathon Oil Corporation
4111 S. Tidwell
Carlsbad, NM 88220

Mar. 12, 2020

Station Name: Black River 3, 7 Facility Gas Sales 2
Station Number: 18045GSA2
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: 03/11/2020 14:46:19 by AHSampled By: Jonah Reza
Sample Of: Gas Spot
Sample Date: 03/04/2020 02:01
Sample Conditions: 75.32 psig, @ 73 °F Ambient: 48 °F
Effective Date: 03/04/2020 02:01
Method: GPA-2261M
Cylinder No: 1111-002599
Instrument: defaultStringValue
Last Inst. Cal.: 03/09/2020 0:00 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	1.222	1.232	1.592		GPM TOTAL C2+	6.227
Methane	76.199	76.809	56.853		GPM TOTAL C3+	3.047
Carbon Dioxide	0.116	0.117	0.238		GPM TOTAL iC5+	0.662
Ethane	11.819	11.914	16.529	3.180		
Propane	5.561	5.606	11.406	1.542		
Iso-butane	0.804	0.810	2.172	0.265		
n-Butane	1.821	1.836	4.924	0.578		
Iso-pentane	0.454	0.458	1.525	0.167		
n-Pentane	0.487	0.491	1.635	0.178		
Hexanes Plus	0.721	0.727	3.126	0.317		
	99.204	100.000	100.000	6.227		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.7509	3.2176
Calculated Molecular Weight	21.67	93.19
Compressibility Factor	0.9962	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1290	5113
Water Sat. Gas Base BTU	1268	5024
Ideal, Gross HV - Dry at 14.65 psia	1285.2	5113.2
Ideal, Gross HV - Wet	1262.7	

Comments: H2S Field Content 0 ppm
Mcf/day 1865.81

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):	215.07
Flare or vent:	Flare
Date:	11/23/2021
Time discovered:	1:35 AM
Time terminated:	4:52 AM
Total Duration (hrs):	3:17

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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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

DEFINITIONS

Action 64204

DEFINITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 64204
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 64204

QUESTIONS

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	Action Number: 64204
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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	Not answered.
Incident Facility	[fAPP2125247203] BLACK RIVER 15 10 STATE 3H7H TB

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 this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare 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 venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.

Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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 vent or flare 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	76
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.

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QUESTIONS, Page 2

Action 64204

QUESTIONS (continued)

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	Action Number: 64204
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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/23/2021
Time vent or flare was discovered or commenced	01:35 AM
Time vent or flare was terminated	04:52 AM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Producing Well Natural Gas Flared Released: 215 Mcf Recovered: 0 Mcf Lost: 215 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 this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Equipment malfunction
Steps taken to limit the duration and magnitude of vent or flare	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 vent or flare	As soon as the equipment failure was found, repairs were made.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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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.	12/7/2021