



Certificate of Analysis

Number: 6030-24010010-018A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Michael Gordon
Marathon Oil Corporation
4111 S. Tidwell
Carlsbad, NM 88220

Jan. 08, 2024

Station Name: HONEY MUSTARD 22 FED COM CTB GSC
Station Number: 31666GSC
Cylinder No: 5030-04106
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 01/02/2024 0:00 AM
Analyzed: 01/08/2024 10:34:28 by EBH

Sampled By: S.L.
Sample Of: Gas Spot
Sample Date: 12/28/2023 02:30
Sample Conditions: 112 psig, @ 94 °F Ambient: 55 °F
Effective Date: 12/28/2023 02:30
Flow Rate: 2363 MSCFD
Method: GPA-2261M

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.0000	0.0005	0.0008		GPM TOTAL C2+ 6.632
Nitrogen	1.0837	1.0749	1.3675		GPM TOTAL C3+ 3.339
Methane	76.1613	75.5457	55.0399		GPM TOTAL iC5+ 0.655
Carbon Dioxide	0.0741	0.0735	0.1469		
Ethane	12.4330	12.3325	16.8409	3.293	
Propane	6.3972	6.3455	12.7074	1.745	
Iso-butane	0.8563	0.8494	2.2421	0.277	
n-Butane	2.1212	2.1041	5.5540	0.662	
Iso-pentane	0.4789	0.4750	1.5564	0.173	
n-Pentane	0.5590	0.5545	1.8169	0.201	
Hexanes Plus	0.6497	0.6444	2.7272	0.281	
	100.8144	100.0000	100.0000	6.632	

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.7630	3.2176
Calculated Molecular Weight	22.02	93.19
Compressibility Factor	0.9960	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1313	5113
Water Sat. Gas Base BTU	1290	5024
Ideal, Gross HV - Dry at 14.65 psia	1307.4	5113.2
Ideal, Gross HV - Wet	1284.5	5023.7

Comments: H2S Field Content 5 ppm

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):	58.33
Flare or vent:	Vent
Date:	12/13/2024
Time discovered:	7:37:00 PM
Time terminated:	3:21:00 AM
Total Duration (hrs):	7.73

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 420687

DEFINITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 420687
	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 420687

QUESTIONS

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	Action Number: 420687
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QUESTIONS

Prerequisites <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	Unavailable.
Incident Facility	[fAPP2233335049] HONEY MUSTARD 22 FED COM TB

Determination of Reporting Requirements <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	Yes
Is this considered a submission for a vent or flare event	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 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Dump Valve
Additional details for Equipment Involved. Please specify	Dump valve hung open resulting in high tank pressures and tank venting.

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

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QUESTIONS, Page 2

Action 420687

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/13/2024
Time vent or flare was discovered or commenced	04:37 PM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	8

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Dump Valve Natural Gas Vented Released: 58 Mcf Recovered: 0 Mcf Lost: 58 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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	Dump valve unexpectedly malfunctioned during normal operations.
Steps taken to limit the duration and magnitude of vent or flare	Dump vale was repaired by third party vendor.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Dump valve was repaired.

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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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	Action Number: 420687
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cswansonsteege	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.	1/14/2025