

Certificate of Analysis

Number: 6030-20040205-002A

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

Teresa Edwards Marathon Oil Corporation 4111 S. Tidwell Carlsbad, NM 88220

Apr. 29, 2020

Station Name: Catapult 3-5-10 Sales Check Sampled By: Jonah Reza Station Number: 22637SC1 Sample Of: Gas Spot Station Location: Marathon Sample Date: 04/28/2020 10:05

Sample Point: Meter Run Sample Conditions: 62 psig, @ 100.2 °F Ambient: 82 °F

04/28/2020 10:05 Type of Sample: Spot-Cylinder Effective Date: GPA-2261M Heat Trace Used: N/A Method: Sampling Method: Fill and Purge Cylinder No: 1111-002477

Sampling Company: SPL Instrument: 6030_GC2 (Agilent 7890B)

Analyzed: 04/29/2020 11:32:44 by User1 Last Inst. Cal.: 03/02/2020 9:09 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	1.115	1.11280	1.384		GPM TOTAL C2+	7.108
Methane	74.099	73.95257	52.670		GPM TOTAL C3+	3.646
Carbon Dioxide	0.063	0.06288	0.123		GPM TOTAL iC5+	0.776
Ethane	12.990	12.96433	17.307	3.462		
Propane	6.860	6.84644	13.403	1.883		
Iso-butane	0.897	0.89523	2.310	0.293		
n-Butane	2.209	2.20463	5.689	0.694		
Iso-pentane	0.506	0.50500	1.618	0.184		
n-Pentane	0.566	0.56488	1.809	0.204		
Hexanes Plus	0.893	0.89124	3.687	0.388		
	100.198	100.00000	100.000	7.108		
Calculated Physical P	roperties	Tota		C6+		
Relative Density Real G	Gas	0.7807	•	3.2176		
Calculated Molecular W	/eight	22.52	<u>)</u>	93.19		
Compressibility Factor		0.9958	3			
GPA 2172 Calculation	:					
Calculated Gross BTU	J per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		1340)	5113		
Water Sat. Gas Base B	TU	1317	•	5024		
Ideal, Gross HV - Dry a	t 14.65 psia	1334.0)	5113.2		
Ideal, Gross HV - Wet	-	1310.7	•	5023.7		

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):	263
Flare or vent:	Vent
Date:	2/5/2023
Time discovered:	10:26 AM
Time terminated:	6:35 PM
Total Duration (hrs):	8:09

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

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**

DEFINITIONS

Action 206910

DEFINITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	206910
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 206910

Prione: (505) 476-3470 Fax: (505) 476-3462	IESTIONS
Operator:	JESTIONS OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd. Houston, TX 77024	Action Number: 206910
	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 ti	hese issues before continuing with the rest of the questions.
Incident Well	Unavailable.
Incident Facility	[fAPP2126037113] CATAPULT FEE 510 TB
Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an	d may provide addional 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	Yes
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 ve	enting 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.
Description Comments of Manual Application of Manual Comments of Manua	
Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group. Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required speci	fications 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.

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

QUESTIONS, Page 2

Action 206910

	QUESTIONS ((continued)
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Operator: MARATHON OIL PERMIAN LLC	OGRID: 372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	206910 Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/05/2023
Time vent or flare was discovered or commenced	10:26 AM
Time vent or flare was terminated	06:35 PM
Cumulative hours during this event	8
Measured or Estimated Volume of Vented or Flared Natural Gas	
Measured of Estimated volume of vented of Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Dump Valve Natural Gas Vented Released: 263 Mcf Recovered: 0 Mcf Lost: 263 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	Equipment Malfunction

practicable.

As soon as flaring due to an equipment failure was identified, repairs were made as soon as

As soon as the equipment failure was found, repairs were made.

Steps taken to limit the duration and magnitude of vent or flare

Corrective actions taken to eliminate the cause and reoccurrence of vent or flare

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

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

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
V	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.
V	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	Condition	Condition
Ву		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.	4/13/2023