

#### Volumetrics Inc.

3710 East Rio Grande St, Victoria, TX-77901

Phone: 361-827-4024

Company: MARATHON OIL COMPANY

Field/Location: PERMIAN

Station Name: GRAVEL GRINDER 3,5,6,10SC2

 Station Number :
 19364SC2

 Sample Date:
 9/19/23 9:09 AM

 Analysis Date:
 9/21/2023 7:32:50 AM

**Job ID:** 2309217001

Sampled by: SL

Sample Type : SPOT-CYLINDER

Sample Temperature (F): 89.49
Sample Pressure (PSIG): 115.72
Cylinder Number: 7001

### **NATURAL GAS ANALYSIS: GPA 2261M**

Components Hydrogen Sulfide	Normalized Mol% 0.0005	GPM 14.650	GPM 14.730	GPM 15.025
Nitrogen	1.0432			
Methane	77.9326			
Carbon Dioxide	0.0667			
Ethane	11.6545	3.111	3.128	3.190
Propane	5.5556	1.528	1.536	1.567
Isobutane	0.7183	0.235	0.236	0.241
N-butane	1.6609	0.523	0.525	0.536
Isopentane	0.3531	0.129	0.130	0.132
N-Pentane	0.3957	0.143	0.144	0.147
Hexanes Plus	0.6189	0.284	0.285	0.291

Total 100.0000

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	5.953	5.984	6.104
Total GPM Iso-Pentane+	0.556	0.559	0.570
Compressibility (Z)	0.9963	0.9963	0.9962
Specific Gravity ( Air=1) @ 60 °F	0.7385	0.7385	0.7385
Molecular Weight	21.317	21.317	21.317
Gross Heating Value	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft <sup>3</sup> )	1275.2	1282.2	1308.0
Wet, Real (BTU/Ft <sup>3</sup> )	1252.9	1259.8	1285.1
Dry, Ideal (BTU/Ft <sup>3</sup> )	1270.5	1277.4	1303.0
Wet, Ideal (BTU/Ft <sup>3</sup> )	1248.3	1255.1	1280.2

Temperature base 60 °F

**Comment:** FIELD H2S = 5 PPM

Verified by

Mostaq Ahammad

Petroleum Chemist

Approved by

Deann Friend

Deann Friend Laboratory Manager

Flaring/Venting Event Volume (MCF):	67.08
Flare or vent:	Vent
Date:	12/13/2025
Time discovered:	5:21:00 AM
Time terminated:	12:52:00 PM
Total Duration (hrs):	7.52

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

General Information Phone: (505) 629-6116

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

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

DEFINITIONS

Action 420683

### **DEFINITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	420683
	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.

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

Phone: (505) 629-6116

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

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

QUESTIONS

Action 420683

Q	UESTIONS	
Operator:		OGRID:
MARATHON OIL PERMIAN LLC 990 Town & Country Blvd.		372098 Action Number:
Houston, TX 77024		420683
		Action Type:  [C-129] Venting and/or Flaring (C-129)
QUESTIONS		<u> </u>
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve t	these issues before continuing wit	h the rest of the questions.
Incident Well	Unavailable.	·
Incident Facility	[fAPP2126038738] GRAVE	L GRINDER 35610 TB
·	,	
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers are	nd may provide addional quidance	
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 views there at least 50 MCF of natural gas vented and/or flared during this event	Yes	be a major or minor release under 19.15.29.7 NMAC.
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	165	
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		
	Duman Value	
Primary Equipment Involved	Dump Valve	
Additional details for Equipment Involved. Please specify	Dump valve hung open to t	anks resulting in tank venting during the malfunction.
Danues autotivo Comunacitional Anglucia of Vantod ou Flored Natural Con		
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 (C02) percentage, if greater than one percent	0	
Oxygen (02) percentage, if greater than one percent	0	
70 ( // 0 / 0 / ms persons	<u> </u>	
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.	

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

QUESTIONS, Page 2

Action 420683

QUESTI	ONS (continued)
Operator:	OGRID:
MARATHON OIL PERMIAN LLC 990 Town & Country Blvd.	372098 Action Number:
Houston, TX 77024	420683 Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/15/2024
Time vent or flare was discovered or commenced	05:21 AM
Time vent or flare was terminated	12:52 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: 67 Mcf   Recovered: 0 Mcf   Lost: 67 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	Ma
Was notification of downstream activity received by this operator	No 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.
Other and Astronomy Department	
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 operation.
Steps taken to limit the duration and magnitude of vent or flare	Dump valve was repaired once discovered by operations.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Dump valve was repaired and adjusted.

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

ACKNOWLEDGMENTS

Action 420683

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	420683
	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 <b>a complete</b> 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.

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 420683

### **CONDITIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	420683
	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