

Station Name:

Sample Point:

Analyzed:

Station Number:

Station Location:

Type of Sample:

Heat Trace Used:

Sampling Method:

Sampling Company: SPL

Certificate of Analysis

Number: 6030-20120199-001A

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

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

Cypress 1H

Spot-Cylinder

Fill and Purge

01/05/2021 10:02:36 by KNF

15747

N/A

N/A

Marathon

Sampled By: Derek Sauder Sample Of: Gas Spot

Sample Date: 12/30/2020

Sample Conditions: 72.5 psig, @ 82 °F Ambient: 55 °F

Jan. 05, 2021

Effective Date: 12/30/2020
Method: GPA-2261M
Cylinder No: 1111-001288

Instrument: 70104124 (Inficon GC-MicroFusion)

Last Inst. Cal.: 01/04/2021 0:00 AM

Analytical Data

Components L	Jn-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	1.175	1.17437	1.491		GPM TOTAL C2+	6.697
Methane	75.217	75.16407	54.632		GPM TOTAL C3+	3.360
Carbon Dioxide	0.096	0.09593	0.191		GPM TOTAL iC5+	0.638
Ethane	12.506	12.49711	17.026	3.337		
Propane	6.484	6.47974	12.946	1.782		
Iso-butane	0.859	0.85840	2.261	0.280		
n-Butane	2.099	2.09753	5.524	0.660		
Iso-pentane	0.482	0.48166	1.575	0.176		
n-Pentane	0.532	0.53183	1.739	0.192		
Hexanes Plus	0.620	0.61936	2.615	0.270		
	100.070	100.00000	100.000	6.697		
Calculated Physical Pro	operties	Tota		C6+		
Relative Density Real Ga	as	0.7648	3	3.2176		
Calculated Molecular We		22.07	7	93.19		
Compressibility Factor		0.9960)			
GPA 2172 Calculation:						
Calculated Gross BTU	per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		1313	3	5113		
Water Sat. Gas Base BT	U	1291		5024		
Ideal, Gross HV - Dry at	14.65 psia	1307.9)	5113.2		
Ideal, Gross HV - Wet	•	1285.1		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):	61.53
Flare or vent:	Flare
Date discovered:	6/22/2021
Time discovered:	10:00 AM
Date terminated:	6/22/2021
Time terminated:	2:23 PM
Total Duration (hrs):	4.5

<u>District I</u> 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**

QUESTIONS

Action 34623

QUESTIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	34623
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.			
Was or is this venting or flaring caused by an emergency or malfunction	Yes		
Did or will this venting 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 or flaring	Yes, minor venting or flaring of natural gas.		
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under			
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes		
Did this venting 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		

Unregistered Facility Site		
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.		
Facility or Site Name Not answered.		
Facility Type	Not answered.	

Equipment Involved		
Primary Equipment Involved	Producing Well	
Additional details for Equipment Involved. Please specify	flare	

Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	75	
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 specifications 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.	

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	06/22/2021
Time venting or flaring was discovered or commenced	10:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/22/2021
Time venting or flaring was terminated	02:23 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	4
Longest duration of cumulative hours within any 24-hour period during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas		
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Producing Well Natural Gas Flared Spilled: 62 Mcf Recovered: 0 Mcf Lost: 62 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 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 or flaring a result of downstream activity	Not answered.	
Date notified of downstream activity requiring this venting or flaring	Not answered.	
Time notified of downstream activity requiring this venting 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
Steps taken to limit the duration and magnitude of venting or flaring	No notification of event was provided, and therefore limiting the duration or magnitude of event was not feasible.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	We increased the back pressure relief valve in order to limit future high line pressure from causing a flare event.

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CONDITIONS

Action 34623

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	34623
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/1/2021