

Certificate of Analysis

Number: 6030-20100083-002A

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

Matt Erickson Marathon Oil Corporation 4111 S. Tidwell Carlsbad, NM 88220 Oct. 14, 2020

Station Name:Colibri 20H Sales CheckSampled By:Jonah RezaStation Number:19782SCSample Of:GasSpotStation Location:MarathonSample Date:10/12/2020 12:32

Station Location: Marathon Sample Date: 10/12/2020 12:32
Sample Point: RGA Sample Conditions: 73.88 psig, @ 92.65 °F Ambient: 89 °F

Type of Sample: Spot-Cylinder Effective Date: 10/12/2020 12:32
Heat Trace Used: N/A Method: GPA-2261M
Sampling Method: Fill and Purge Cylinder No: 1111-001252

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Sampling Company: SPL Instrument: 70104251 (Inficon GC-MicroFusion)

Analyzed: 10/14/2020 15:03:07 by KNF Last Inst. Cal.: 10/12/2020 0:00 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	2.258	2.26108	2.781		GPM TOTAL C2+	5.418
Methane	72.786	72.88554	51.329		GPM TOTAL C3+	2.754
Carbon Dioxide	5.883	5.89073	11.380		GPM TOTAL iC5+	0.614
Ethane	9.967	9.98090	13.174	2.664		
Propane	5.153	5.15953	9.987	1.419		
Iso-butane	0.634	0.63527	1.621	0.207		
n-Butane	1.632	1.63403	4.169	0.514		
Iso-pentane	0.406	0.40645	1.287	0.148		
n-Pentane	0.452	0.45242	1.433	0.164		
Hexanes Plus	0.693	0.69405	2.839	0.302		
	99.864	100.00000	100.000	5.418		
Calculated Physical	Properties	Tota		C6+		
Relative Density Real	Gas	0.7892	<u> </u>	3.2176		
Calculated Molecular	Weight	22.78	3	93.19		
Compressibility Factor		0.9962	<u>)</u>			
GPA 2172 Calculation:						
Calculated Gross BT	U per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		1187	7	5113		
Water Sat. Gas Base	BTU	1167	7	5024		
Ideal, Gross HV - Dry	at 14.65 psia	1182.8	3	5113.2		
Ideal, Gross HV - Wet		1162.1		5023.7		

Comments: H2S Field Content 0 ppm

Mcf/day 721.3151

Caly Atom

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):	435.44
Flare or vent:	Flare
Date discovered:	7/17/2021
Time discovered:	12:00 AM
Date terminated:	7/17/2021
Time terminated:	11:44 PM
Total Duration (hrs):	17

<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 37908

QUESTIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	37908
	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	Yes		
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	Colibri 20H	
Facility Type	Not answered.	

Equipment Involved		
Primary Equipment Involved	Producing Well	
Additional details for Equipment Involved. Please specify	High Pressure 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	73	
Nitrogen (N2) percentage, if greater than one percent	2	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	6	
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	07/17/2021
Time venting or flaring was discovered or commenced	12:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/17/2021
Time venting or flaring was terminated	11:44 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	17
Longest duration of cumulative hours within any 24-hour period during this event	17

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: 435 Mcf Recovered: 0 Mcf Lost: 435 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	Yes	
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 was given prior to event
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	Increased back pressure relief valve to flare to limit potential flaring during downstream upsets, but still maintain safety at the facility.

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CONDITIONS

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	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.	7/28/2021