



## Certificate of Analysis

Number: 6030-21020072-004A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Feb. 10, 2021

Station Name: Kyle 34 Fed 3H Production  
Station Number: 17627GP  
Station Location: Marathon  
Sample Point: RGA  
Type of Sample: Spot-Cylinder  
Heat Trace Used: N/A  
Sampling Method: Fill and Purge  
Sampling Company: SPL  
Analyzed: 02/10/2021 15:30:28 by ADH

Sampled By: Jonah Reza  
Sample Of: Gas Spot  
Sample Date: 02/08/2021 10:18  
Sample Conditions: 146.16 psig, @ 86.83 °F Ambient: 71 °F  
Effective Date: 02/08/2021 10:18  
Method: GPA-2261M  
Cylinder No: 1111-002372  
Instrument: 6030\_GC2 (Agilent GC-7890B)  
Last Inst. Cal.: 12/21/2020 14:30 PM

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.00025	0.000		GPM TOTAL C2+	6.558
Nitrogen	0.999	1.01835	1.314		GPM TOTAL C3+	3.099
Methane	74.201	75.63794	55.892		GPM TOTAL iC5+	0.480
Carbon Dioxide	0.050	0.05097	0.103			
Ethane	12.712	12.95817	17.947	3.459		
Propane	6.345	6.46787	13.137	1.779		
Iso-butane	0.767	0.78185	2.093	0.255		
n-Butane	1.823	1.85830	4.975	0.585		
Iso-pentane	0.350	0.35678	1.186	0.130		
n-Pentane	0.383	0.39042	1.297	0.141		
Hexanes Plus	0.470	0.47910	2.056	0.209		
	98.100	100.00000	100.000	6.558		

## Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.7522	3.2176
Calculated Molecular Weight	21.71	93.19
Compressibility Factor	0.9961	

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.65 psia & 60°F

Real Gas Dry BTU	1298	5113
Water Sat. Gas Base BTU	1275	5024
Ideal, Gross HV - Dry at 14.65 psia	1292.5	5113.2
Ideal, Gross HV - Wet	1269.9	5023.7

**Comments:** H2S Field Content 2.5 ppm  
Mcf/day 841.3174

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):	194.01
Flare or vent:	Flare
Date:	7/7/2021
Time discovered:	12:00 AM
Time terminated:	2:00 AM
Total Duration (hrs):	2:00

**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

**District IV**

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 56365

**QUESTIONS**

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 56365
	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 these issues before continuing with the rest of the questions.

Incident Well	[30-015-43405] KYLE 34 FEDERAL COM #003H
Incident Facility	Not answered.

**Determination of Reporting Requirements**

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was or is this venting and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/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 venting and/or flaring 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 venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/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
Was the venting and/or flaring 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	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	74
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
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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

**Date(s) and Time(s)**

Date venting and/or flaring was discovered or commenced	07/07/2021
Time venting and/or flaring was discovered or commenced	07:56 AM
Time venting and/or flaring was terminated	11:51 AM
Cumulative hours during this event	4

**Measured or Estimated Volume of Vented or Flared Natural Gas**

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Equipment Failure   Producing Well   Natural Gas Flared   Released: 194 Mcf   Recovered: 0 Mcf   Lost: 194 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 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 or is this venting and/or flaring a result of downstream activity	Yes
Was notification of downstream activity received by you or your operator	No
Downstream OGRID that should have notified you or your operator	[330564] Crestwood New Mexico Pipeline LLC
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/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	Equipment malfunction
Steps taken to limit the duration and magnitude of venting and/or flaring	As soon as flaring due to an equipment failure was identified, repairs were made as soon as practicable.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	As soon as the equipment failure was found, repairs were made

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CONDITIONS  
  
Action 56365

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 56365
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition 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.	10/15/2021