



## Certificate of Analysis

Number: 6030-20110198-002A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Nov. 25, 2020

Station Name: EI Presidente 3,4,5,6,10 Sales Check  
Station Number: 17289SC  
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: 11/25/2020 11:22:11 by KNF

Sampled By: Jonah Reza  
Sample Of: Gas Spot  
Sample Date: 11/24/2020 02:45  
Sample Conditions: 167.89 psig, @ 78.53 °F Ambient: 73 °F  
Effective Date: 11/24/2020 02:45  
Method: GPA-2261M  
Cylinder No: 5030-00854  
Instrument: 6030\_GC6 (Inficon GC-3000 Micro)  
Last Inst. Cal.: 11/16/2020 0:00 AM

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	5.602
Nitrogen	1.141	1.13437	1.521		GPM TOTAL C3+	2.546
Methane	79.335	78.87390	60.583		GPM TOTAL iC5+	0.434
Carbon Dioxide	0.089	0.08838	0.186			
Ethane	11.517	11.45016	16.484	3.056		
Propane	5.179	5.14890	10.870	1.415		
Iso-butane	0.668	0.66422	1.848	0.217		
n-Butane	1.536	1.52727	4.250	0.480		
Iso-pentane	0.340	0.33753	1.166	0.123		
n-Pentane	0.367	0.36477	1.260	0.132		
Hexanes Plus	0.413	0.41050	1.832	0.179		
	100.585	100.00000	100.000	5.602		

## Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.7234	3.2176
Calculated Molecular Weight	20.89	93.19
Compressibility Factor	0.9965	

## GPA 2172 Calculation:

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

Real Gas Dry BTU	1250	5113
Water Sat. Gas Base BTU	1229	5024
Ideal, Gross HV - Dry at 14.65 psia	1245.5	5113.2
Ideal, Gross HV - Wet	1223.7	5023.7

**Comments:** H2S Field Content 0 ppm  
Mcf/day 3226.845

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

	El Pres CTB											
	3H GP	4H GP	4H GL	4H Net	5H GP	5H GL	5H Net	6H GP	10H GP	TProdVol		Hours
7/7/2021	141.24	358.53	322.43	36.1	170.61	251.25	-80.64	60.69	69.79	307.82	12.82583	12.00702
	103.57								51.17	154.74		
	mcf								mcf	total mcf		
										flared		

**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 36337

**QUESTIONS**

Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 36337
	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 additional 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 19.13.29.7 NMAC	
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 occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	El Presidente CTB
Facility Type	Tank Battery - (TB)

**Equipment Involved**

Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

**Representative Compositional Analysis of Vented or Flared Natural Gas**

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	60
Nitrogen (N2) percentage, if greater than one percent	2
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 or flaring was discovered or commenced	07/07/2021
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	07/07/2021
Time venting or flaring was terminated	12:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	12
Longest duration of cumulative hours within any 24-hour period during this event	12

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

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Pipeline (Any)   Natural Gas Flared   Spilled: 154 Mcf   Recovered: 0 Mcf   Lost: 154 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	no notification from 3rd party that they had emergency maintenance on the natural gas gathering system.
Steps taken to limit the duration and magnitude of venting or flaring	3rd party malfunction. Once discovered well was SI.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	N/A

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CONDITIONS  
  
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	Action Number: 36337
	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.	7/14/2021