

Certificate of Analysis

Number: 6030-20060096-001A

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

Matt Erickson Marathon Oil Corporation 4111 S. Tidwell Carlsbad, NM 88220 June 24, 2020

Station Name: Whistle Pig 4,5,9 Facility Sales Check Station Number: 21049SC Station Location: Marathon

Sample Point: N/A

Type of Sample: Spot-Cylinder Heat Trace Used: N/A Sampling Method: Fill and Purge

Sampling Company: SPL

Analyzed: 06/24/2020 12:09:31 by User1

Sampled By: Daniel Haley
Sample Of: Gas Spot
Sample Date: 06/23/2020 01:11

Sample Conditions: 111 psig, @ 102 °F Ambient: 90 °F

Effective Date: 06/23/2020 01:11
Method: GPA-2261M
Cylinder No: 1111-001290

Instrument: 6030_GC2 (Agilent 7890B) Last Inst. Cal.: 05/05/2020 13:24 PM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	1.096	1.10225	1.404		GPM TOTAL C2+	6.577
Methane	75.317	75.74648	55.239		GPM TOTAL C3+	3.302
Carbon Dioxide	0.089	0.08951	0.179		GPM TOTAL iC5+	0.687
Ethane	12.196	12.26555	16.765	3.275		
Propane	6.169	6.20418	12.436	1.706		
lso-butane	0.819	0.82367	2.176	0.269		
n-Butane	2.021	2.03252	5.370	0.640		
Iso-pentane	0.452	0.45458	1.491	0.166		
n-Pentane	0.507	0.50989	1.672	0.185		
Hexanes Plus	0.767	0.77137	3.268	0.336		
	99.433	100.00000	100.000	6.577		
Calculated Physical Properties		Total		C6+		
Relative Density Real	Gas	0.7623		3.2176		
Calculated Molecular Weight		22.00		93.19		
Compressibility Factor		0.9960				
GPA 2172 Calculation	n:					
Calculated Gross B7	ΓU per ft³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		1311		5113		
Water Sat. Gas Base BTU		1288		5024		
Ideal, Gross HV - Dry at 14.65 psia		1305.4		5113.2		
Ideal, Gross HV - Wet		1282.5		5023.7		
Comments: H2S Fig	ald Content 0 nnm					

Comments: H2S Field Content 0 ppm

Mcf/day 1941.5

Caly Atm

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):	70.32
Flare or vent:	Flare
Date:	11/16/2021
Time discovered:	10:31 AM
Time terminated:	4:03 PM
Total Duration (hrs):	5:32

<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 64009

QI	UESTIONS	
Operator:		OGRID:
MARATHON OIL PERMIAN LLC 990 Town & Country Blvd.		372098 Action Number:
Houston, TX 77024		64009
		Action Type:
QUICATIONS		[C-129] Venting and/or Flaring (C-129)
QUESTIONS		
Prerequisites Any messages presented in this section, will prevent submission of this application. Please resolve t	these issues before continuing wit	th the rest of the questions.
Incident Well	Not answered.	
Incident Facility	[fAPP2125249714] WHISTL	_E PIG 1 FEE 459 FS
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers ar	nd may provide addional 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 v	enting 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		
Equipment Involved	I	
Primary Equipment Involved	Not answered.	
Additional details for Equipment Involved. Please specify	Not answered.	
G		
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.	T	
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 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.	
Date(s) and Time(s)	T	
Date venting and/or flaring was discovered or commenced	11/16/2021	
Time venting and/or flaring was discovered or commenced	10:31 AM	
Time venting and/or flaring was terminated	04:03 PM	
Cumulative hours during this event	6	
Measured or Estimated Volume of Vented or Flared Natural Gas		

Not answered.

Natural Gas Vented (Mcf) Details

Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Producing Well Natural Gas Flared Released: 70 Mcf Recovered: 0 Mcf Lost: 70 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	Not answered.		
Was notification of downstream activity received by you or your operator	Not answered.		
Downstream OGRID that should have notified you or your operator	Not answered.		
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 64009

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	64009
	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.	11/30/2021