

Certificate of Analysis

Number: 6030-20100055-004A

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

Matt Erickson Marathon Oil Corporation 4111 S. Tidwell Carlsbad, NM 88220 Oct. 09, 2020

Station Name: Colibri 24H Sales Check Sampled By: Jonah Reza
Station Number: 19781SC Sample Of: Gas Spot
Station Location: Marathon Sample Date: 10/08/2020 01:13

Station Location: Marathon Sample Date: 10/08/2020 01:13
Sample Point: RGA Sample Conditions: 67.93 psig, @ 93.13 °F Ambient: 83 °F

Type of Sample: Spot-Cylinder Effective Date: 10/08/2020 01:13
Heat Trace Used: N/A Method: GPA-2261M
Sampling Method: Fill and Purge Cylinder No: 5030-03413

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Sampling Company: SPL Instrument: 70104124 (Inficon GC-MicroFusion)

Analyzed: 10/09/2020 10:54:31 by KNF Last Inst. Cal.: 10/05/2020 0:00 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	2.524	2.55387	3.132		GPM TOTAL C2+	4.747
Methane	71.632	72.47117	50.893		GPM TOTAL C3+	2.360
Carbon Dioxide	8.217	8.31295	16.015		GPM TOTAL iC5+	0.510
Ethane	8.840	8.94375	11.772	2.387		
Propane	4.419	4.47096	8.630	1.229		
Iso-butane	0.549	0.55492	1.412	0.181		
n-Butane	1.382	1.39849	3.558	0.440		
Iso-pentane	0.360	0.36422	1.150	0.133		
n-Pentane	0.380	0.38415	1.213	0.139		
Hexanes Plus	0.539	0.54552	2.225	0.238		
	98.842	100.00000	100.000	4.747		
Calculated Physical Properties		Total		C6+		
Relative Density Real G	as	0.7913	3	3.2176		
Calculated Molecular Weight		22.84	ļ	93.19		
Compressibility Factor		0.9964	ļ			
GPA 2172 Calculation:	•					
Calculated Gross BTU	per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		1125	j	5113		
Water Sat. Gas Base B	TU	1106	6	5024		
Ideal, Gross HV - Dry at 14.65 psia		1120.8	3	5113.2		
Ideal, Gross HV - Wet	•	1101.2	2	5023.7		

Comments: H2S Field Content 0 ppm

Mcf/day 695.8326



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):	53.24
Flare or vent:	Flare
Date:	8/10/2021
Time discovered:	9:22 AM
Time terminated:	11:32 AM
Total Duration (hrs):	2:10

<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 43116

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Time venting and/or flaring was discovered or commenced 09:22 AM	.,,	08/10/2021	
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Not answered.

Measured or Estimated Volume of Vented or Flared Natural Gas

Cumulative hours during this event

Natural Gas Vented (Mcf) Details

Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Producing Well Natural Gas Flared Released: 53 Mcf Recovered: 0 Mcf Lost: 53 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.	
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	High Line Pressure - No Notification Received		
Steps taken to limit the duration and magnitude of venting and/or flaring	no notification was provided as required per NMAC 19.15.28.8 (D). As soon as flaring was identified, immediate actions were taken to limit magnitude of flaring/venting.		
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Increased Back Pressure Relief Valve to limit potential flaring during downstream upsets but still maintain safety at the facility		

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

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**

CONDITIONS

Action 43116

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	43116
	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.	8/18/2021