

Certificate of Analysis

Number: 6030-20040134-007A

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

Teresa Edwards Marathon Oil Corporation 4111 S. Tidwell Carlsbad, NM 88220 Apr. 21, 2020

Station Name:Black River 7H ProductionSampled By:Chris MyersStation Number:18042GPSample Of:GasSpotStation Location:MarathonSample Date:04/20/2020 10:30

Sample Point: Meter Run Sample Conditions: 103.8 psig, @ 96.58 °F Ambient: 74 °F

Type of Sample: Spot-Cylinder Effective Date: 04/20/2020 10:30
Heat Trace Used: N/A Method: GPA-2261M
Sampling Method: Fill and Purge Cylinder No: 5030-01024

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Sampling Company: SPL Instrument: 70104124 (Inficon Micro GC Fusion)

Analyzed: 04/21/2020 08:30:02 by PS Last Inst. Cal.: 04/20/2020 0:00 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	0.951	0.95270	1.270		GPM TOTAL C2+	5.634
Methane	78.972	79.09690	60.383		GPM TOTAL C3+	2.643
Carbon Dioxide	0.094	0.09455	0.198		GPM TOTAL iC5+	0.540
Ethane	11.188	11.20579	16.034	2.991		
Propane	4.896	4.90334	10.289	1.348		
lso-butane	0.758	0.75920	2.100	0.248		
n-Butane	1.608	1.61054	4.454	0.507		
Iso-pentane	0.409	0.40975	1.407	0.150		
n-Pentane	0.423	0.42407	1.456	0.153		
Hexanes Plus	0.542	0.54316	2.409	0.237		
	99.841	100.00000	100.000	5.634		
Calculated Physical	l Properties	Total		C6+		
Relative Density Rea		0.7279	1	3.2176		
Calculated Molecular		21.01		93.19		
Compressibility Factor	•	0.9964	<u> </u>			
GPA 2172 Calculation	on:					
Calculated Gross B	TU per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		1260)	5113		
Water Sat. Gas Base	BTU	1238	}	5024		
Ideal, Gross HV - Dry at 14.65 psia		1255.1		5113.2		
Ideal, Gross HV - We		1233.1		5023.7		
O						

Comments: H2S Field Content 0 ppm

Mcf/day 1570.14

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):	56.21
Flare or vent:	Flare
Date discovered:	7/24/2021
Time discovered:	2:30 PM
Date terminated:	7/24/2021
Time terminated:	4:17 PM
Total Duration (hrs):	2

<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 40410

QUESTIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	40410
	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	No		
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 Black River 7H		
Facility Type	Not answered.	

Equipment Involved		
Primary Equipment Involved	Producing Well	
Additional details for Equipment Involved. Please specify	high line pressure	

Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	79	
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 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	07/24/2021
Time venting or flaring was discovered or commenced	02:30 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/24/2021
Time venting or flaring was terminated	04:17 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	2
Longest duration of cumulative hours within any 24-hour period during this event	2

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: 56 Mcf Recovered: 0 Mcf Lost: 56 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	Back pressure valve has already been increased from previous flaring events to limit potential flaring during downstream upsets. In order to maintain safety at the facility, the back pressure valve cannot be increased further.

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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.	8/6/2021