



Certificate of Analysis

Number: 6030-20040126-003A

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. 20, 2020

Station Name:	Black River 374 3,8,10 Facility Gas Sales Allo	Sampled By:	Chris Myers
Station Number:	18355GSA	Sample Of:	Gas Spot
Sample Point:	Meter Run	Sample Date:	04/17/2020
Type of Sample:	Spot-Cylinder	Sample Conditions:	69.5 psig, @ 87.9 °F Ambient: 57 °F
Heat Trace Used:	N/A	Effective Date:	04/17/2020
Sampling Method:	Fill and Purge	Method:	GPA-2261M
Sampling Company:	SPL	Cylinder No:	5030-00480
Analyzed:	04/20/2020 11:23:02 by User1	Instrument:	6030_GC2 (Agilent 7890B)
		Last Inst. Cal.:	03/02/2020 9:09 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	1.141	1.14683	1.488		GPM TOTAL C2+	6.111
Methane	76.993	77.38611	57.498		GPM TOTAL C3+	3.020
Carbon Dioxide	0.071	0.07136	0.145		GPM TOTAL iC5+	0.693
Ethane	11.522	11.58083	16.127	3.091		
Propane	5.509	5.53713	11.308	1.523		
Iso-butane	0.712	0.71564	1.926	0.234		
n-Butane	1.803	1.81221	4.878	0.570		
Iso-pentane	0.432	0.43421	1.451	0.158		
n-Pentane	0.509	0.51160	1.709	0.185		
Hexanes Plus	0.800	0.80408	3.470	0.350		
	99.492	100.00000	100.000	6.111		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7481	3.2176
Calculated Molecular Weight	21.59	93.19
Compressibility Factor	0.9962	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.65 psia & 60°F

Real Gas Dry BTU	1288	5113
Water Sat. Gas Base BTU	1266	5024
Ideal, Gross HV - Dry at 14.65 psia	1283.4	5113.2
Ideal, Gross HV - Wet	1260.9	5023.7

Comments: H2S Field Content 0 ppm

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):	93.27
Flare or vent:	Flare
Date:	11/15/2021
Time discovered:	12:00 AM
Time terminated:	1:47 AM
Total Duration (hrs):	1:47

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 63850

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 63850
	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	Not answered.
Incident Facility	[fAPP2125238645] BLACK RIVER 374 STATE FS

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	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	77
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	11/15/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	01:47 AM
Cumulative hours during this event	2

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: 93 Mcf Recovered: 0 Mcf Lost: 93 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

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Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 63850
	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