

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 Point: Sample Point: Sample Date: Chris Myers Sample Of: Gas Spot 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/AEffective Date:04/17/2020Sampling Method:Fill and PurgeMethod:GPA-2261MSampling Company: SPLCylinder 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 Physica	Calculated Physical Properties			C6+		
Relative Density Rea	Relative Density Real Gas			3.2176		
Calculated Molecula	Calculated Molecular Weight)	93.19		
Compressibility Fact	Compressibility Factor		<u> </u>			
GPA 2172 Calculati	on:					
Calculated Gross B	TU per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		1288	3	5113		
Water Sat. Gas Base	e BTU	1266	6	5024		
Ideal, Gross HV - Dr	y at 14.65 psia	1283.4	ļ	5113.2		
Ideal, Gross HV - We	et	1260.9)	5023.7		
Comments: H2S F	ield Content 0 ppm					

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):	53.16
Flare or vent:	Flare
Date:	10/18/2021
Time discovered:	1:02 AM
Time terminated:	2:20 AM
Total Duration (hrs):	1:18

<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 58029

QI	UESTIONS	
Operator:		OGRID:
MARATHON OIL PERMIAN LLC 990 Town & Country Blvd.		372098 Action Number:
Houston, TX 77024		58029
		Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS		[o :20] terming analysis having (o :20)
Prerequisites		-
Any messages presented in this section, will prevent submission of this application. Please resolve t	hese issues before continuina wi	th 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 ar	nd may provide addional guidance I	<u>.</u>
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	y 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	T	
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 (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		
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.	
70 \ / / 0 7		
Date(s) and Time(s)		
Date venting and/or flaring was discovered or commenced	10/18/2021	
Time venting and/or flaring was discovered or commenced	01:02 AM	
Time venting and/or flaring was terminated	02:20 AM	
Cumulative hours during this event	1	
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: 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.	
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.	

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 58029

CONDITIONS

Operator:		OGRID:
MARATHO	ON OIL PERMIAN LLC	372098
990 Town	& Country Blvd.	Action Number:
Houston, 7	TX 77024	58029
		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.	10/26/2021