

Analyzed:

Certificate of Analysis

Number: 6030-20060069-005A

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 19, 2020

Station Name:Black River 5H ProductionSampled By:Daniel HaleyStation Number:17549GPSample Of:GasSpotStation Location:MarathonSample Date:06/15/2020 11:17

Sample Point: Sample Probe Sample Conditions: 83.7 psig, @ 86 °F Ambient: 88 °F

Type of Sample: Spot-Cylinder Effective Date: 06/15/2020 11:17
Heat Trace Used: N/A Method: GPA-2261M
Sampling Method: Fill and Purge Cylinder No: 5030-01205

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

06/19/2020 08:05:00 by PS Last Inst. Cal.: 06/15/2020 0:00 AM

Analytical Data

Components Un-n	ormalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	1.135	1.14415	1.432		GPM TOTAL C2+	7.051
Methane	72.966	73.53428	52.720		GPM TOTAL C3+	3.513
Carbon Dioxide	0.388	0.39102	0.769		GPM TOTAL iC5+	0.567
Ethane	13.148	13.25014	17.805	3.538		
Propane	7.100	7.15522	14.100	1.968		
Iso-butane	0.897	0.90439	2.349	0.295		
n-Butane	2.152	2.16887	5.634	0.683		
Iso-pentane	0.447	0.45018	1.452	0.164		
n-Pentane	0.457	0.46026	1.484	0.167		
Hexanes Plus	0.537	0.54149	2.255	0.236		
	99.227	100.00000	100.000	7.051		
Calculated Physical Proper	ties	Total		C6+		
Relative Density Real Gas		0.7755		3.2176		
Calculated Molecular Weight		22.38	1	93.19		
Compressibility Factor		0.9959	1			
GPA 2172 Calculation:						
Calculated Gross BTU per f	t³ @ 14.65 p	sia & 60°F				
Real Gas Dry BTU		1323		5113		
Water Sat. Gas Base BTU		1300)	5024		
Ideal, Gross HV - Dry at 14.69	5 psia	1317.5		5113.2		
Ideal, Gross HV - Wet		1294.4		5023.7		

Comments: H2S Field Content 0 ppm

Mcf/day 1054.05

Caly Hatm

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):	501.32
Flare or vent:	Flare
Date discovered:	6/22/2021
Time discovered:	9:23 AM
Date terminated:	6/22/2021
Time terminated:	11:59 PM
Total Duration (hrs):	14

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe. NM 87505

		220 South St. Fra Santa Fe, NM 8	ıncis Dr.			
	Notificat	tion to Upstro Effective May 2	_	ators		
Notification must be provid of a natural gas gathering sy method of communication the	stem (NGGS) may affect	line pressure or ava				
I. NGGS Operator: 🥸	rdero Carlsbad	Midstream	Notic	e Date: 伖	123 / 202	
II. Upstream Operator: 🛔	Morathan Oil Ca	mpony				
III. Event Type: Scheduled Ma Brief description	intenance; Replacemen	t or Repair: Provid	de written notic	e no less th	an 14 days prior to	o date of activity,
than 12 hours a	Maintenance, Emergence fter discovery and follow on of activity:	-up written confirm	nation within 2	4 hours of d	liscovery,	A.
Written Confinence Person Contact Address:	ation: discharge from Con discharge from Con mign Control Cer discharge from Con mign Control Cer discharge from Con	ntral Contenter & mers	thonail.	om	75-323-0	7465
V. Affected Well or Facility API/Facility/Meter No	y: Well/Facility/	/Meter Name	Unit	Section	Township	Range
,	See Attached	Listing				
	occ maga	d				
List of additional wells a	nd facilities attached.					
VI. Anticipated Schedule:	Date and time of the exp	ected duration of N	GGS:			
Out of Service Start Date a	and Time: 06/22/2021 (mm/dd/yyyy - ht		to Service Da	te and Tim	e: 06/23/2021 (mm/dd/yyyy - h	<u>@ 1000</u> h:mm xm)
VII. Record Keeping: Ope available for inspection by the			notification for	no less that	n five years and m	ake such records
VIII. Notification complete	ed by:					
Printed Name: Julia	n Mortinez		Title: Open	ations	Foreman	
Signature:	5		Date: 623	1505		
Email: Smartines	@ sculeromilute	784 COM	Phone: 5	75-68	19-7249	

	Meter	Section	Township	Range
Black River	30-10020	15	24\$	27E
Cass	30-10003	16	235	27E
Fiddle Fee	30-10005	23	245	28E
Fiddle Fee 2	30-10029	23	245	28E
Red Light	30-10024	27	23\$	26E
So Com	30-10115	25	24\$	28E
Sterling	30-10026	20	23S	27E
Hermes	30-10045	30	23S	28E
Gravel Grinder	30-10055	18	23S	28E
Fiddle Fee 3	30-10061	23	24\$	28E
Sweet Tea	30-10047	31	245	29E
Trebuchet	30-10051	30	23S	28E
Mariner 11H	30-10049	20	23S	28E
Mariner 1H	30-10074	18	23S	28E
Sweet Tea Fed	30-10090	31	24\$	29E
Catapult	30-10096	26	22\$	26E
Airport	30-10097	26	22S	26E
So Com 36	30-10116	36	245	28E
Blue Steel Fed	30-10103	28	23\$	29E
Blue Steel Fee	30-10112	20	23\$	29E

<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 **Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 34654

QUESTIONS

State of New Mexico Energy, Minerals and Natural Resources

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	34654
	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	Yes			
Is this considered a submission for a notification of a major venting or flaring	Yes, major 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 Not answered.		
Facility Type	Not answered.	

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	73	
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	06/22/2021
Time venting or flaring was discovered or commenced	09:23 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/22/2021
Time venting or flaring was terminated	11:59 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	14
Longest duration of cumulative hours within any 24-hour period during this event	14

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: 501 Mcf Recovered: 0 Mcf Lost: 501 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	06/23/2021	
Time notified of downstream activity requiring this venting or flaring	08:30 AM	

Steps and Actions to Prevent Waste

•	9
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, notification was given a day after event
Steps taken to limit the duration and magnitude of venting or flaring	notification of event was provided a day after 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	Exploring different equipment to react immediately

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 34654

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	34654
	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.	7/1/2021