

**Atchafalaya Measurement, Inc.**  
 416 East Main Street Artesia, NM 88210 575-746-3481

**Inficon Micro GC Fusion F08904 R03RR2**

	Sample Information
Sample Name	Marathon__Red Light 27-34 State Com 2H__GC2-102218-13
Station Number	2840011
Lease Name	Red Light 27-34 State Com 2H
Analysis For	Marathon Oil
Producer	Marathon Oil
Field Name	Carlsbad
County/State	Eddy,NM
Frequency/Spot Sample	Quarterly
Sampling Method	Fill Empty
Sample Deg F	63.9
Atmos Deg F	60
Flow Rate	220.29
Line PSIG	696.00
Date/Time Sampled	10-23-18
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Turner Carlyle
Analysis By	Pat Silvas
Verified/Calibration Date	10-22-18
Report Date	2018-10-25 14:16:42

**Component Results**

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.800	16370.5	1.22797	12279.700	0.000
H2S	0.000	0.0	0.00025	2.500	0.000
Methane	23.580	795648.3	77.92927	779292.700	0.000
Carbon Dioxide	27.500	1521.4	0.09660	966.000	0.000
Ethane	37.080	197963.7	11.77419	117741.900	3.159
Propane	77.840	119520.7	5.39878	53987.800	1.492
i-butane	28.640	56694.6	0.74385	7438.500	0.244
n-Butane	30.140	140239.9	1.76170	17617.000	0.557
i-pentane	34.740	35619.6	0.37411	3741.100	0.137
n-Pentane	36.480	40066.8	0.40707	4070.700	0.148
Hexanes Plus	120.000	30717.0	0.28621	2862.100	0.125
Total:			100.00000	1000000.000	5.863

**Results Summary**

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	100.58181	
Pressure Base (psia)	14.730	
Temperature Base	60.00	
Gross Heating Value (BTU / Ideal cu.ft.)	1261.8	1239.9
Gross Heating Value (BTU / Real cu.ft.)	1266.4	1244.9
Relative Density (G), Ideal	0.7284	0.7265
Relative Density (G), Real	0.7307	0.7292
Compressibility (Z) Factor	0.9964	0.9960

Flaring/Venting Event Volume (MCF):	92.89
Flare or vent:	Flare
Date:	10/2/2021
Time discovered:	12:01 AM
Time terminated:	7:48 AM
Total Duration (hrs):	7:47

**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 53861

**QUESTIONS**

Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 53861
	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	[30-015-43917] RED LIGHT 27 34 STATE COM #002H
Incident Facility	Not answered.

**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	No
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	78
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	3
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	10/02/2021
Time venting and/or flaring was discovered or commenced	12:01 AM
Time venting and/or flaring was terminated	07:48 AM
Cumulative hours during this event	7

**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: Liquids Unloading   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.	False
Please explain reason for why this event was beyond your operator's control	Not answered.
Steps taken to limit the duration and magnitude of venting and/or flaring	Monitor conditions in real time and utilize chokes to control flow and pressures to prevent flaring until well is stabilized
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Review operating procedures with operator

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CONDITIONS  
  
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Operator: MARATHON OIL PERMIAN LLC 5555 San Felipe St. Houston, TX 77056	OGRID: 372098
	Action Number: 53861
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
msanjari	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.	10/4/2021