

## Certificate of Analysis

Number: 6030-20120059-002A

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

Matt Erickson Marathon Oil Corporation 4111 S. Tidwell Carlsbad, NM 88220 Dec. 09, 2020

Station Name: Southern Comfort 4,7,8 Sales Check 2 Sampled By: Jonah Reza Station Number: 23282SC Sample Of: Gas Spot Station Location: Marathon Sample Date: 12/08/2020 01:54

Station Location: Marathon Sample Date: 12/08/2020 01:54
Sample Point: RGA Sample Conditions: 63.12 psig, @ 98.2 °F Ambient: 64 °F

Type of Sample: Spot-Cylinder Effective Date: 12/08/2020 01:54
Heat Trace Used: N/A Method: GPA-2261M
Sampling Method: Fill and Purge Cylinder No: 1111-002507

Sampling Company: SPL Instrument: 70104251 (Inficon GC-MicroFusion)

Analyzed: 12/09/2020 14:06:47 by KNF Last Inst. Cal.: 12/07/2020 0:00 AM

## **Analytical Data**

Components Un-r	normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.00025	0.000		GPM TOTAL C2+	5.804
Nitrogen	0.839	0.83905	1.101		GPM TOTAL C3+	2.860
Methane	78.808	78.82232	59.213		GPM TOTAL iC5+	0.742
Carbon Dioxide	0.124	0.12372	0.255			
Ethane	11.029	11.03120	15.532	2.944		
Propane	4.876	4.87669	10.070	1.341		
Iso-butane	0.770	0.76994	2.096	0.251		
n-Butane	1.672	1.67240	4.552	0.526		
Iso-pentane	0.464	0.46418	1.568	0.169		
n-Pentane	0.505	0.50469	1.705	0.183		
Hexanes Plus	0.895	0.89556	3.908	0.390		
	99.982	100.00000	100.000	5.804		
Calculated Physical Proper	rties	Total		C6+		
Relative Density Real Gas		0.7398		3.2176		
Calculated Molecular Weight	:	21.36		93.19		
Compressibility Factor		0.9963				
GPA 2172 Calculation:						
Calculated Gross BTU per	ft <sup>3</sup> @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU	•	1279		5113		
Water Sat. Gas Base BTU		1257		5024		
Ideal, Gross HV - Dry at 14.6	65 psia	1274.4		5113.2		
Ideal, Gross HV - Wet	•	1252.1		5023.7		

comments: H2S Field Content 2.5 ppm

Mcf/day 2545.309

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):	62.97
Flare or vent:	Flare
Date:	8/12/2021
Time discovered:	8:03 PM
Time terminated:	11:20 PM
Total Duration (hrs):	3:17

<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 44282

### **QUESTIONS**

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
5555 San Felipe St.	Action Number:
Houston, TX 77056	44282
	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 t	hese issues before continuing with the rest of the questions.	
Incident Well	[30-015-46202] SOUTHERN COMFORT 36 WD STATE #008H	
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 addional 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 notification of a major venting and/or flaring	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	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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes	
Did this venting and/or flaring result in the release of <b>ANY</b> 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	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 and/or flaring was discovered or commenced	08/12/2021	
Time venting and/or flaring was discovered or commenced	08:03 PM	
Time venting and/or flaring was terminated	11:20 PM	
Cumulative hours during this event	3	

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   Released: 63 Mcf   Recovered: 0 Mcf   Lost: 63 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.	
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	High Line Pressure - No Notification Received
Steps taken to limit the duration and magnitude of venting and/or flaring	no notification was provided as required per NMAC 19.15.28.8 (D). As soon as flaring was identified, immediate actions were taken to limit magnitude of flaring/venting.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Increased Back Pressure Relief Valve to limit potential flaring during downstream upsets but still maintain safety at the facility

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CONDITIONS

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### **CONDITIONS**

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5555 San Felipe St.	Action Number:
Houston, TX 77056	44282
	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.	8/24/2021