

Certificate of Analysis Number: 6030-21070121-001A

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

**Matt Buckles Mack Energy** 11344 Lovington Hwy Artesia, NM 88210

July 16, 2021

Station Name:

Partition CTB Sample

Station Number:

N/A

Station Location:

Mack Energy Meter run

Sample Point: Type of Sample:

Spot-Cylinder

Heat Trace Used:

N/A

Sampling Method: Fill and Purge

Analyzed:

Sampling Company: SPL 07/16/2021 15:38:22 by EJR Sampled By:

**Chad Whitt** 

Sample Of:

Gas Spot

Sample Date:

07/14/2021

Sample Conditions: 30.7 psig, @ 109.3 °F Ambient: 90 °F

Effective Date:

07/14/2021 GPA-2261M

Method: Cylinder No:

5030-03908

Instrument:

70104124 (Inficon GC-MicroFusion)

Last Inst. Cal.:

07/12/2021 0:00 AM

Analytical Data

Components Un-no	ormalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		· 
Hydrogen Sulfide	0.000	0.50000	0.730		GPM TOTAL C2+	6.813
Nitrogen	2.949	3.00957	3.612		GPM TOTAL C3+	3.568
Methane	69.733	71.17430	48.923		GPM TOTAL iC5+	1.104
Carbon Dioxide	1.963	2.00369	3.778			
Ethane	11.840	12.08511	15.570	3,245		
Propane	5.955	6.07802	11.484	1.681		
lso-butane	0.659	0.67242	1.675	0.221		
n-Butane	1.740	1.77638	4.424	0.562		
Iso-pentane	0.509	0.51922	1.605	0.191		
n-Pentane	0.556	0.56699	1.753	0.206		
Hexanes Plus	1.582	1.61430	6.446	0.707		
	97.486	100.00000	100.000	6.813		
Calculated Physical Propert	ies	Total		C6+		
Relative Density Real Gas		0.8090		3.2176		
Calculated Molecular Weight		23.34		93.19		
Compressibility Factor		0.9957				
GPA 2172 Calculation:						
Calculated Gross BTU per ft	<sup>3</sup> @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU		1304		5141		
Water Sat. Gas Base BTU		1281		5052		
ldeal, Gross HV - Dry at 14.73	psia	1298.0		5141.1		
ldeal, Gross HV - Wet	•	1275.3		5051.6	•	

Mcf/day 1927.8

CC: MAIK Brewer David Tena

Data reviewed by: Eric Ramirez, Analyst

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Partition Federal Battery

Facility ID: fAPP2211036296

Location 32.8235 -103.823 1395 FNL 2552 FEL Sec 24-T17S-R31E G

							Calculated	Energy	Flow	Gas	Base		Flow							
Reference ID	Prod Date	Entry Date	Disposition	Product	UOM	Volume	Vol*14.73/15.025	Factor	Temp	Gravit	/ Temp	В	Base Press Press	F	Run Hours Meter Begir	n M	1eter End	Begin Date	End Date	Last Updated
	8/23/2	023 8/24/2	023 FLARE	GAS	MCF	1237	1213		1	60	0.6	60	14.73	13	24 27	7478	28715	8/23/2023 0:00	8/23/2023	0:00 JustusWilson

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

DEFINITIONS

Action 257736

### **DEFINITIONS**

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	257736
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### **DEFINITIONS**

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- · venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 

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

QUESTIONS

Action 257736

O	UESTIONS				
Operator:	OGRID:				
MACK ENERGY CORP	13837				
P.O. Box 960 Artesia, NM 882110960	Action Number: 257736				
7.1.03.4, 1.111 002.170000	Action Type:				
	[C-129] Amend Venting and/or Flaring (C-129A)				
QUESTIONS					
Prerequisites					
Any messages presented in this section, will prevent submission of this application. Please resolve					
Incident Operator	[13837] MACK ENERGY CORP				
Incident Type	Flare				
Incident Status	Closure Not Approved				
Incident Well	Unavailable.				
Incident Facility	[fAPP2211036296] Partition Federal Battery				
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details secti	on) that are assigned to your current operator can be amended with this C-129A application.				
Determination of Reporting Requirements					
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	nd may provide addional quidance.				
Was this vent or flare caused by an emergency or malfunction	Yes				
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes				
Is this considered a submission for a vent or flare event	Yes, major 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 10.15.20.7 NMAC				
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes				
Did this vent or flare 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 vent or flare 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	71				
Nitrogen (N2) percentage, if greater than one percent	3				
Hydrogen Sulfide (H2S) PPM, rounded up					
Carbon Dioxide (C02) percentage, if greater than one percent	5,000				
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	T				
Methane (CH4) percentage quality requirement	Not answered.				
Nitrogen (N2) percentage quality requirement	Not answered.				
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.				
Carbon Diovide (CO2) percentage quality requirement	Not answored				

Not answered.

Oxygen (02) percentage quality requirement

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

QUESTIONS, Page 2

Action 257736

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Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	257736
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

#### QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/23/2023
Time vent or flare was discovered or commenced	10:00 AM
Time vent or flare was terminated	06:00 PM
Cumulative hours during this event	8

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Pipeline (Any)   Natural Gas Flared   Released 1,213 Mof   Recovered: 0 Mof   Lost: 1,213 Mof.
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 this vent or flare a result of downstream activity	Yes			
Was notification of downstream activity received by this operator	Yes			
Downstream OGRID that should have notified this operator	[221115] FRONTIER FIELD SERVICES, LLC			
Date notified of downstream activity requiring this vent or flare	08/22/2023			
Time notified of downstream activity requiring this vent or flare	02:35 PM			

teps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control	True
Please explain reason for why this event was beyond this operator's control	Durango Midstream gave us an emergency/malfunction notification. Mack Energy Corp. flared for 8 hours, Durango Midstream was able to repair the emergency/malfunction situation with the 8hr time frame. Mack Energy Corp returned to production
Steps taken to limit the duration and magnitude of vent or flare	Stay in communication with Durango Midstream
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	beyond our control

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ACKNOWLEDGMENTS

Action 257736

# **ACKNOWLEDGMENTS**

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
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	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

# **ACKNOWLEDGMENTS**

$\overline{\lor}$	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
~	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<b>~</b>	I hereby certify the statements in this amending report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
✓	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
✓	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 257736

# **CONDITIONS**

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# CONDITIONS

Created By		Condition Date
dweaver	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	8/25/2023