

Certificate of Analysis

Number: 6030-22030530-002A

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

Matt Buckles Mack Energy 11344 Lovington Hwy Artesia, NM 88210

Nossler Battery

74649018 Mack Meter run

Sample Point: Meter run
Type of Sample: Spot-Cylinder

Heat Trace Used: N/A

Sampling Method: Fill and Purge Sampling Company: SPL

Analyzed:

Station Name:

Station Number:

Station Location:

03/31/2022 10:31:06 by ERG

Sampled By: Sample Of: Jason Bealer

Sample Of: Gas Spot Sample Date: 03/26/2022 10:24

Sample Conditions: 47 psig

Effective Date: Method:

03/26/2022 10:24 GPA-2261M

Mar. 31, 2022

Cylinder No: Instrument: 9999-002265

9:

6030\_GC6 (Inficon GC-3000 Micro)

Last Inst. Cal.:

03/28/2022 0:00 AM

## **Analytical Data**

Components Un-r	normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.00300	0.004		GPM TOTAL C2+	6.670
Nitrogen	3.902	3.93621	4.845		GPM TOTAL C3+	3.483
Methane	71.773	72,39796	51.038		GPM TOTAL iC5+	0.913
Carbon Dioxide	0.662	0,66747	1.291			
Ethane	11.768	11.87025	15.684	3.187		
Propane	5.929	5.98057	11,588	1.654		
Iso-butane	0.775	0.78135	1.996	0.257		
n-Butane	2.065	2.08259	5.319	0.659		
Iso-pentane	0.577	0.58213	1.846	0.214		
n-Pentane	0.607	0.61249	1.942	0.223		
Hexanes Plus	1.077	1.08598	4.447	0.476		
	99.135	100.00000	100.000	6.670		
Calculated Physical Proper	ties	Total		C6+		
Relative Density Real Gas		0.7886	}	3.2176		
Calculated Molecular Weight		22.76	<b>;</b>	93.19		
Compressibility Factor		0.9960	)			
GPA 2172 Calculation:						
Calculated Gross BTU per 1	ft³ @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU		1297	•	5141		
Water Sat. Gas Base BTU		1275	;	5052		
Ideal, Gross HV - Dry at 14.7	3 psia	1291.7	•	5141.1		
Ideal, Gross HV - Wet	•	1269.2		5051.6		
Comments: H2S Field Con	tent 30 ppm					

Matiday 20 40

Mcf/day 28.10

Caly Statement

Hydrocarbon Laboratory Manager

Quality Assurance:

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

cility ID: fAPF	2211035634											
Date	MCF	Calc	Calculated Vol 14.73/15.025	R/T Hrs	R/T Adj Hrs	Flow Temp	Base Temp	Static Press	Diff Press	Flow Press	Base Press	Gas Gravity
GasSIsMtr	Nosler12 Flare	Nosler 12 Flare Mtr										
09/01/2023	507.00	507.00	497.05	24	Yes	60.00	60.00	0.00	0.00	50.00	14.73	1
Report Totals:	507.00	507.00										

District I
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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** 

DEFINITIONS

Action 261678

#### **DEFINITIONS**

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	261678
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

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

QUESTIONS

Action 261678

Phone:(505) 476-3470 Fax:(505) 476-3462			
٥	UESTIONS		
Operator:  MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	920.10.10	OGRID:	
		[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 wi	ith the rest of the questions.	
Incident Well	Unavailable.		
Incident Facility	[fAPP2211035634] Nosler	12 Federal Battery	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at	nd mav provide addional quidance	3	
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, 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	renting and/or flaring that is or ma	v be a major or minor release under 19 15 29 7 NMAC	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	y be a major of minor foldade under 10.10.20.7 (Nin/10.	
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	1		
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	72		
Nitrogen (N2) percentage, if greater than one percent	4		
Hydrogen Sulfide (H2S) PPM, rounded up	30		
Carbon Dioxide (C02) percentage, if greater than one percent			
Oxygen (02) percentage, if greater than one percent	0		
If you are venting and/or flaring because of Pipeline Specification, please provide the required specification. Methane (CH4) percentage quality requirement	Not answered.		
Nitrogen (N2) percentage quality requirement			
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.		
Carbon Dioxide (C02) percentage quality requirement	Not answered.  Not answered.		
Januari Broking (OUZ) percentage quanty requirement	I TOL GIISWOIGU.		

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 261678

<b>QUESTIONS</b>	(continued)
QUESTIONS!	COHUHUCU <i>i</i>

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	261678
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	09/01/2023	
Time vent or flare was discovered or commenced	07:00 AM	
Time vent or flare was terminated	03:00 PM	
Cumulative hours during this event	8	

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Pipeline (Any)   Natural Gas Flared   Released: 497 Mcf   Recovered: 0 Mcf   Lost: 497 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 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	08/31/2023	
Time notified of downstream activity requiring this vent or flare	05:20 PM	

Steps 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 not able to repair the emergency/malfunction situation with the 8hr time frame. Mack Energy Corp shut –in 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

ACKNOWLEDGMENTS

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**State of New Mexico** 

### **ACKNOWLEDGMENTS**

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#### **ACKNOWLEDGMENTS**

V	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be <b>a complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
V	I hereby certify the statements in this 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.
V	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.
V	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

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## **CONDITIONS**

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#### CONDITIONS

Created By	Condition	Condition Date
dweaver	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.	9/5/2023