

Certificate of Analysis Number: 6030-21120268-001A

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

Matt Buckles Mack Energy 11344 Lovington Hwy Artesia, NM 88210

Dec. 28, 2021

Station Name: Station Location:

Saskatoon Fed CTB Mack Energy

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

Heat Trace Used: N/A

Sampling Method: Fill and Purge

Sampling Company: SPL Analyzed:

12/28/2021 09:53:05 by ERG

Sampled By: Sample Of:

Donavan Miller Gas

Sample Date:

Spot 12/23/2021 10:42

Sample Conditions: 27.1 psig, @ 80.1 °F Ambient: 64 °F

Effective Date: Method:

12/23/2021 10:42

GPA-2261M

Cylinder No: Instrument:

5030-02191

Last Inst. Cal.:

6030_GC6 (Inficon GC-3000 Micro)

12/27/2021 0:00 AM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.60000	0,829		GPM TOTAL C2+	7,589
Nitrogen	5.107	5.07773	5.767		GPM TOTAL C3+	3.651
Methane	62.621	62.26615	40.497		GPM TOTAL IC5+	0.627
Carbon Dioxide	5.349	5.31866	9.490			
Ethane	14.748	14.66463	17.877	3.938		
Propane	7.738	7.69410	13.755	2.128		
Iso-butane	0.847	0.84170	1.983	0.277		
n-Butane	1.966	1.95515	4.607	0.619		
Iso-pentane	0.473	0.47042	1.376	0.173		
n-Pentane	0.449	0.44606	1,305	0.162		
Hexanes Plus	0.669	0.66540	2,514	0.292		
	99.967	100.00000	100.000	7.589		
Calculated Physical F	Properties	Total		C6+		
Relative Density Real (Gas	0.8550		3.2176		
Calculated Molecular V	Neight	24.67		93.19		
Compressibility Factor	•	0.9956				
GPA 2172 Calculation	n:					
Calculated Gross BTI	U per ft³ @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU		1256		5141		
Water Sat. Gas Base E	BTU	1235		5052		
Ideal, Gross HV - Dry at 14.73 psia		1250.7		5141.1		
Ideal, Gross HV - Wet	•	1228.9		5051.6		
Comments: H2S Field	ld Content .6 %					

CC: MARK Brown David Trua

Hydrocarbon Laboratory Manager

Quality Assurance:

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

Saskatoon Federal Com Battery
Facility ID: fAPP2211038673

Location 33.011277 -104.0646602 960 FSL & 1675 FEL Sec. 18-T15S-R29E O

								Calculated	Energy	Flow	Gas	Base	2	Flow							
Reference ID	Prod Date	Er	ntry Date	Disposition	Product	UOM	Volume	Vol*14.73/15.025	Factor	Temp	Gravit	y Tem	р	Base Press Press	Run	Hours Meter Begin	Meter E	nd	Begin Date	End Date	Last Updated
	8	8/28/2022	8/29/202	2 FLARE	GAS	MCF	110	108		1	75	0.6	60	14.73	0	24	0	110	8/28/2022 0:00	8/28/202	2 0:00 IVANGUTIERREZ

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**

DEFINITIONS

Action 139061

DEFINITIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	139061
	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 139061

Phone: (505) 476-3470 Fax: (505) 476-3462		
Q	UESTIONS	
Operator:		OGRID:
MACK ENERGY CORP P.O. Box 960		13837 Action Number:
Artesia, NM 882110960		139061
		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 wi	th the rest of the questions.
Incident Well	Not answered.	
Incident Facility	[fAPP2211038673] Saskat	oon Federal Com Battery
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers ar	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, 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 Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	r be a major or minor release under 19.15.29.7 NMAC.
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	Tes	
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.	
<u> </u>		
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group. Methane (CH4) percentage	00	
	62	
Nitrogen (N2) percentage, if greater than one percent	5	
Hydrogen Sulfide (H2S) PPM, rounded up	1	
Carbon Dioxide (C02) percentage, if greater than one percent	5	
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	ifications 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.	

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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QUESTIONS, Page 2

Action 139061

QUESTIONS (co	ntinued)
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Operator:	OGRID:
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P.O. Box 960	Action Number:
Artesia, NM 882110960	139061
	Action Type:
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QUESTIONS

Date(s) and Time(s)					
Date vent or flare was discovered or commenced	08/28/2022				
Time vent or flare was discovered or commenced	12:00 AM				
Time vent or flare was terminated	11:59 PM				
Cumulative hours during this event	24				

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: 108 Mcf Recovered: 0 Mcf Lost: 108 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	08/27/2022				
Time notified of downstream activity requiring this vent or flare	08:15 AM				

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	Downstream Failure
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 139061

ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a Venting and/or Flaring (C-129) report on behalf of this operator and understand that this report can be a complete 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.
✓	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

Create		Condition Date
dwe	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.	8/29/2022