

Certificate of Analysis

Number: 6030-22080294-005A

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

Matt Buckles Mack Energy 11344 Lovington Hwy Artesia, NM 88210

Aug. 23, 2022

Station Name: Prince Rupert TB Production Station Number: 1525030

Station Location: Mack

Sample Point: Meter Run

70104251 (Inficon GC-MicroFusion) Instrument:

Last Inst. Cal.: 08/22/2022 0:00 AM

Analyzed: 08/23/2022 08:12:11 by KNF

Donavan Sampled By: Sample Of: Gas Spot

Sample Date: 08/19/2022

Sample Conditions: 104 psig, @ 83.7 °F Ambient: 70 °F

08/19/2022 Effective Date: Method: GPA-2261M Cylinder No: 5030-01746

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.05000	0.070		GPM TOTAL C2+	7.121
Nitrogen	5.683	5.63551	6.521		GPM TOTAL C3+	3.310
Methane	64.015	63.48108	42.070		GPM TOTAL iC5+	0.523
Carbon Dioxide	5.670	5.62252	10.222			
Ethane	14.316	14.19632	17.633	3.811		
Propane	7.326	7.26441	13.232	2.009		
Iso-butane	0.739	0.73244	1.759	0.241		
n-Butane	1.712	1.69812	4.077	0.537		
Iso-pentane	0.396	0.39260	1.170	0.144		
n-Pentane	0.374	0.37088	1.105	0.135		
Hexanes Plus	0.561	0.55612	2.141	0.244		
	100.792	100.00000	100.000	7.121		
Calculated Physical I	Properties	Total		C6+		
Relative Density Real	0.8390		3.2176			
Calculated Molecular V	24.21		93.19			
Compressibility Factor	0.9959					
GPA 2172 Calculation	n:					
Calculated Gross BT	U per ft ³ @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU	1222		5141			
Water Sat. Gas Base I	1201		5052			
Ideal, Gross HV - Dry	1216.6		5141.1			
Ideal, Gross HV - Wet	1195.4		5051.6			
Comments: H2S Fie	ld Content .05 %					

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

Prince Rupert Chilliwack Battery

Facility ID:

fAPP2211036913 Location 32.9987124 -104.0581481 1900 FSL & 330 FWL Sec. 20-T15S-R29E L

							Calculated	Energy	Flow	Gas	Base		Flow							
Reference ID	Prod Date	Entry Date	Disposition	Product	UOM	Volume	Vol*14.73/15.025	Factor	Temp	Gravity	Temp)	Base Press Press	Run H	ours Meter Begin	Meter En	d E	Begin Date	End Date	Last Updated
	8/27/20	22 8/28/2	022 FLARE	GAS	MCF	330	324		1	75	0.6	60	14.73	0	24	0	330	8/27/2022 0:00	8/27/2022	0:00 IVANGUTIERREZ

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 138863

DEFINITIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	138863
	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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QUESTIONS

Action 138863

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

State of New Mexico

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		138863			
		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	[fAPP2211036913] Prince	Rupert Federal Battery			
Determination of Reporting Requirements					
Answer all questions that apply. The Reason(s) statements are calculated based on your answers ar	nd mav 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	continue and/or flaving that is as may	who a major as miner release under 40.45.20.7 NMAC			
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	y be a major or minor release under 19.13.29.7 NWAG.			
Did this vent or flare 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	No				
watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water					
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	63				
Nitrogen (N2) percentage, if greater than one percent	6				
Hydrogen Sulfide (H2S) PPM, rounded up	0				
Carbon Dioxide (C02) percentage, if greater than one percent	6				
Oxygen (02) percentage, if greater than one percent	0				
CAYSON (VL) percentage, it greates than one percent	_ ·				
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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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 138863

QUESTIONS	(continued)	
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Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	138863
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)					
Date vent or flare was discovered or commenced	08/27/2022				
Time vent or flare was discovered or commenced	09:00 AM				
Time vent or flare was terminated	11:59 PM				
Cumulative hours during this event	15				

leasured 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 324 Mcf Recovered: 0 Mcf Lost: 324 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 138863

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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 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.
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

Action 138863

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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