

Certificate of Analysis

Number: 6030-22030530-001A

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

Matt Buckles Mack Energy 11344 Lovington Hwy Artesia, NM 88210

Mar. 31, 2022

White Rock Fed CTB Station Name: Station Number: 1325019

Station Location: Mack Sample Point: Meter run Spot-Cylinder Type of Sample:

Heat Trace Used: N/A Sampling Method: Fill and Purge

Sampling Company: SPL

Analyzed: 03/31/2022 10:23:49 by ERG Sampled By: Nathan Payne Sample Of: Gas Spot Sample Date: 03/28/2022

Sample Conditions:48 psig, @ 80 °F Ambient: 61 °F

Effective Date: 03/28/2022 Method: GPA-2261M Cylinder No: 5030-00515

Instrument: 6030_GC6 (Inficon GC-3000 Micro)

Last Inst. Cal.: 03/28/2022 0:00 AM

Analytical Data

Components Ur	n-normalized Mo! %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.60000	0.780		GPM TOTAL C2+	9.424
Nitrogen	5.356	5.31967	5.684		GPM TOTAL C3+	5,413
Methane	60.460	60.05005	36,748	1	GPM TOTAL iC5+	1.498
Carbon Dioxide	1.849	1.83646	3.083			
Ethane	15.025	14.92308	17.117	4.011		
Propane	9.298	9.23453	15.533	2.557		
Iso-butane	1.150	- 1.14210	2.532	0.376		
n-Butane	3.121	3.09963	6.872	0.982		
Iso-pentane	1,124	1.11657	3.073	0.410		
n-Pentane	1.180	1.17160	3.224	0.427		
Hexanes Plus	1.517	1.50631	5.354	0.661		
	100.080	100.00000	100.000	9.424		
Calculated Physical Pro	perties	Total		C6+		
Relative Density Real Gas	.	0.9097		3.2176		
Calculated Molecular Weig	ght	26.22		93.19		
Compressibility Factor		0.9946				
GPA 2172 Calculation:						
Calculated Gross BTU pe	er ft³ @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU		1425		5141		
Water Sat. Gas Base BTU		1401		5052		
Ideal, Gross HV - Dry at 14	4.73 psia	1417.2		5141. 1		
Ideal, Gross HV - Wet	•	1392.5		5051.6		
Comments: H2S Field C	ontent 0.6 %					

Hydrocarbon Laboratory Manager

Quality Assurance:

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

Mcf/day 226

White Rock CTB

Facility ID: fAPP2211040809

Location 32.9937934 -104.040189 140 FNL & 555 FWL Sec. 28-T15S-R29E D

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 Hours Meter Begin Meter End Begin Date 8/29/2022 FLARE GAS MCF 560 60 14.73 0 24 560 8/28/2022 0:00 8/28/2022 0:00 IVANGUTIERREZ 8/28/2022 549 0.6

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 139078

DEFINITIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	139078
	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 139078

Phone:(505) 476-3470 Fax:(505) 476-3462		
Ο	UESTIONS	
Operator:	0_01.01.0	OGRID:
MACK ENERGY CORP		13837
P.O. Box 960 Artesia, NM 882110960		Action Number: 139078
,		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 wit	th the rest of the questions.
Incident Well	Not answered.	
Incident Facility	[fAPP2211040809] White I	Rock CTB
Determination of Departies Departments		
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at		
Was this vent or flare caused by an emergency or malfunction Did this vent or flare last eight hours or more cumulatively within any 24-hour	Yes	
period from a single event		
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	enting and/or flaring that is or may	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	
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 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	T	
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	60	
Nitrogen (N2) percentage, if greater than one percent	5	
Hydrogen Sulfide (H2S) PPM, rounded up	1	
Carbon Dioxide (CO2) percentage, if greater than one percent	2	
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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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 139078

QUESTIONS (co	ntinued)
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Operator: MACK ENERGY CORP	OGRID: 13837
P.O. Box 960 Artesia, NM 882110960	Action Number: 139078
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/28/2022
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: 549 Mcf Recovered: 0 Mcf Lost: 549 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 139078

ACKNOWLEDGMENTS

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MACK ENERGY CORP	13837
P.O. Box 960 Artesia, NM 882110960	Action Number: 139078
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

✓	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.
<	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.
✓	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.
\	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

Cre	eated By		Condition Date
ď	weaver	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