



Certificate of Analysis

Number: 6030-25091470-002A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Matt Buckles
Mack Energy
11344 Lovington Hwy
Artesia, NM 88210Station Name: WINKLER FED 1H -- Meter Run
Station Number: 1325043
Station Location: Mack
Sample Point: Meter Run
Heating Method: N/A
Method: GPA-2261M
Cylinder No: 1111-007068
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 09/22/2025 08:02:30
Analyzed: 09/24/2025 15:24:52 by CDWReport Date: 09/29/2025
Sampled By: GP
Sample Of: Gas
Sample Type: Spot
Sample Conditions: 58.2 psig, @ 94.8 °F Ambient: 79 °F
Sample Date: 09/23/2025 11:15
Received Date: 09/24/2025
Login Date: 09/24/2025
Effective Date: 09/01/2025
Flow Rate: N/A
Sampling Method: Purge/Fill

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.500	0.656		GPM TOTAL C2+	8.513
Nitrogen	6.872	6.703	7.232		GPM TOTAL C3+	4.649
Methane	59.127	57.671	35.635		GPM TOTAL iC5+	0.715
Carbon Dioxide	5.455	5.321	9.019			
Ethane	14.746	14.383	16.657	3.864		
Propane	9.909	9.665	16.415	2.675		
Iso-butane	1.212	1.182	2.646	0.389		
n-Butane	2.817	2.748	6.152	0.870		
Iso-pentane	0.652	0.636	1.767	0.234		
n-Pentane	0.573	0.559	1.553	0.204		
Hexanes Plus	0.648	0.632	2.268	0.277		
	102.011	100.000	100.000	8.513		

Calculated Physical Properties

Relative Density Real Gas	0.9004	3.2176
Calculated Molecular Weight	25.96	93.19
Compressibility Factor	0.9952	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1301	5141
Water Sat. Gas Base BTU	1279	5052

Comments: Insufficient Sample for Rerun
H2S Field Content: 0.5 %

Petroleum Chemist

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

Meter	Meter Name	Entry Date	MCF	Runtime Hours	MMBTU	Calc @
Winkler	Federal Flare	11/04/2025	59.0000	24.00	59.0000	15.025 57.84

**Per David Tena was due to back pressure valve. It flared for 6 hours last night.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

DEFINITIONS

Action 523410

DEFINITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 523410
	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 523410

QUESTIONS

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QUESTIONS

Prerequisites <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2530942973] Winkler Federal CTB

Determination of Reporting Requirements <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>	
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 within 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 <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	58
Nitrogen (N2) percentage, if greater than one percent	7
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	5
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/04/2025
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	06:00 AM
Cumulative hours during this event	6

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Valve Natural Gas Flared Released: 58 Mcf Recovered: 0 Mcf Lost: 58 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	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

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	Due to high line pressure
Steps taken to limit the duration and magnitude of vent or flare	on arrival shut in well
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Serviced valve

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ACKNOWLEDGMENTS

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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.
☒	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

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.	11/5/2025