



## Certificate of Analysis

Number: 6030-21100279-011A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Zach LaCount  
Mewbourne Oil Company  
4801 Business Park Blvd  
Hobbs, NM 88240

Nov. 01, 2021

Station Name: Hereford 29/28 Bipast State Com 1H VRU  
Station Number: N/A  
Station Location: Mewbourne  
Sample Point: Meter Run  
Instrument: 6030\_GC2 (Agilent GC-7890B)  
Last Inst. Cal.: 09/13/2021 14:54 PM  
Analyzed: 10/29/2021 07:23:04 by EJL

Sampled By: Michael Mirabal  
Sample Of: Gas Spot  
Sample Date: 10/25/2021 10:17  
Sample Conditions: 64 psig, @ 110 °F Ambient: 64 °F  
Effective Date: 10/25/2021 10:17  
Method: GPA 2286  
Cylinder No: 5030-00648

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	0.639	0.63000	0.413		GPM TOTAL C2+	24.007
Methane	20.084	19.79700	7.428		GPM TOTAL C3+	18.946
Carbon Dioxide	0.553	0.54500	0.561		GPM TOTAL iC5+	4.831
Ethane	18.925	18.65500	13.120	5.061		
Propane	28.813	28.40100	29.293	7.937		
Iso-butane	4.266	4.20500	5.717	1.396		
n-Butane	15.168	14.95200	20.327	4.782		
Iso-pentane	4.338	4.27600	7.216	1.586		
n-Pentane	4.291	4.23000	7.138	1.555		
Hexanes Plus	4.371	4.30900	8.787	1.690		
	101.448	100.0000	100.000	24.007		

## Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	1.5010	3.0142
Calculated Molecular Weight	42.75	87.30
Compressibility Factor	0.9832	

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

Real Gas Dry BTU	2453	4698
Water Sat. Gas Base BTU	2411	4616
Ideal, Gross HV - Dry at 14.696 psia	2412.3	4697.8
Ideal, Gross HV - Wet	2370.2	0.000

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.



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Station Name: Hereford 29/28 Bipast State Com 1H VRU  
Station Number: N/A  
Station Location: Mewbourne  
Sample Point: Meter Run  
Analyzed: 10/29/2021 07:29:27 by EJHSampled By: Michael Mirabal  
Sample Of: Gas Spot  
Sample Date: 10/25/2021 10:17  
Sample Conditions: 64 psig, @ 110 °F  
Method: GPA 2286  
Cylinder No: 5030-00648

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	0.630	0.413	
Methane	19.797	7.428	
Carbon Dioxide	0.545	0.561	
Ethane	18.655	13.120	5.061
Propane	28.401	29.293	7.937
Iso-Butane	4.205	5.717	1.396
n-Butane	14.952	20.327	4.782
Iso-Pentane	4.276	7.216	1.586
n-Pentane	4.230	7.138	1.555
i-Hexanes	1.492	2.934	0.598
n-Hexane	0.685	1.387	0.287
Benzene	0.293	0.533	0.083
Cyclohexane	0.372	0.730	0.128
i-Heptanes	0.996	2.102	0.392
n-Heptane	0.098	0.232	0.046
Toluene	0.083	0.176	0.028
i-Octanes	0.252	0.592	0.111
n-Octane	0.007	0.022	0.004
Ethylbenzene	0.004	0.011	0.001
Xylenes	0.008	0.013	0.003
i-Nonanes	0.019	0.047	0.009
n-Nonane	0.000	0.004	0.000
Decanes Plus	0.000	0.004	0.000
	100.000	100.000	24.007



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Nov. 01, 2021

Station Name: Hereford 29/28 Bipast State Com 1H VRU  
Station Number: N/A  
Station Location: Mewbourne  
Sample Point: Meter Run  
Analyzed: 10/29/2021 07:29:27 by EJR

Sampled By: Michael Mirabal  
Sample Of: Gas Spot  
Sample Date: 10/25/2021 10:17  
Sample Conditions: 64 psig, @ 110 °F  
Method: GPA 2286  
Cylinder No: 5030-00648

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	42.75	0.00
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia &amp; 60°F</b>		
Real Gas Dry BTU	2453.4	0.000
Water Sat. Gas Base BTU	2410.6	0.000
Relative Density Real Gas	1.5010	0.0000
Compressibility Factor	0.9832	
Ideal, Gross HV - Wet	2370.2	
Ideal, Gross HV - Dry at 14.696 psia	2412.3	
Net BTU Dry Gas - real gas	2257	
Net BTU Wet Gas - real gas	2218	

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.

## Mewbourne Oil Company

### Natural Gas Flared Calculation Methodology

Metering low-pressure gas diverted from the Vapor Recovery Unit (“VRU”) to backup flare is not technologically feasible. Gas volumes for VRU downtime events will be calculated using an average metered VRU gas to oil production ratio. This GOR is derived from available relevant data.

Average Metered VRU Gas to Oil Production GOR = 0.18 Mcf/BBL

Flared gas volume = GOR \* Oil Production Volume (BBL)

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 522782

DEFINITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 522782
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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**Santa Fe, NM 87505**

QUESTIONS

Action 522782

**QUESTIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 522782
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b> <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	[fAPP2516257701] GOAT ROPE 7/18 BATTERY #1

<b>Determination of Reporting Requirements</b> <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	Yes
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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	VRU

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	20
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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

Action 522782

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 522782
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/28/2025
Time vent or flare was discovered or commenced	08:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	20

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   Other (Specify)   Natural Gas Flared   Released: 158 Mcf   Recovered: 0 Mcf   Lost: 158 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Volume calculated
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	VRU malfunctioned
Steps taken to limit the duration and magnitude of vent or flare	Repaired VRU
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Continued routine preventive maintenance and daily operational inspections





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ACKNOWLEDGMENTS

Action 522782

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Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 522782
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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 <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 522782

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Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 522782
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
zlaccount	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