



# Certificate of Analysis

Number: 6030-21100211-006A

**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

Oct. 28, 2021

Station Name: Air Boss 13/14 Fed Com 1H	Sampled By: James Hill
Station Number: 72290-000	Sample Of: Gas Spot
Station Location: Mewbourne	Sample Date: 10/19/2021 02:51
Sample Point: Meter Run	Sample Conditions: 73.9 psig, @ 124.2 °F Ambient: 85 °F
Instrument: 6030_GC2 (Agilent GC-7890B)	Effective Date: 10/19/2021 02:51
Last Inst. Cal.: 09/13/2021 14:54 PM	Method: GPA 2286
Analyzed: 10/28/2021 10:08:59 by KNF	Cylinder No: 5030-03416

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+ 7.938
Nitrogen	1.068	1.05000	1.254		GPM TOTAL C3+ 4.194
Methane	72.509	71.29200	48.750		GPM TOTAL iC5+ 1.038
Carbon Dioxide	0.121	0.11900	0.223		
Ethane	14.210	13.97100	17.906	3.744	
Propane	7.488	7.36200	13.837	2.032	
Iso-butane	1.074	1.05600	2.616	0.346	
n-Butane	2.506	2.46400	6.104	0.778	
Iso-pentane	0.757	0.74400	2.288	0.273	
n-Pentane	0.799	0.78600	2.417	0.285	
Hexanes Plus	1.176	1.15600	4.605	0.480	
	<u>101.708</u>	<u>100.00000</u>	<u>100.000</u>	<u>7.938</u>	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8135	3.2265
Calculated Molecular Weight	23.46	93.45
Compressibility Factor	0.9954	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft³ @ 14.696 psia &amp; 60°F</b>		
Real Gas Dry BTU	1393	5047
Water Sat. Gas Base BTU	1369	4959
Ideal, Gross HV - Dry at 14.696 psia	1386.9	5047.0
Ideal, Gross HV - Wet	1362.7	0.000

**Comments:** H2S Field Content 0 ppm  
 Mcf/day 2377.7

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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Oct. 28, 2021

Station Name: Air Boss 13/14 Fed Com 1H  
 Station Number: 72290-000  
 Station Location: Mewbourne  
 Sample Point: Meter Run  
 Analyzed: 10/28/2021 11:02:06 by KNF

Sampled By: James Hill  
 Sample Of: Gas Spot  
 Sample Date: 10/19/2021 02:51  
 Sample Conditions: 73.9 psig, @ 124.2 °F  
 Method: GPA 2286  
 Cylinder No: 5030-03416

**Analytical Data**

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	1.050	1.254	
Methane	71.292	48.750	
Carbon Dioxide	0.119	0.223	
Ethane	13.971	17.906	3.744
Propane	7.362	13.837	2.032
Iso-Butane	1.056	2.616	0.346
n-Butane	2.464	6.104	0.778
Iso-Pentane	0.744	2.288	0.273
n-Pentane	0.786	2.417	0.285
i-Hexanes	0.281	1.007	0.112
n-Hexane	0.190	0.682	0.077
Benzene	0.014	0.046	0.004
Cyclohexane	0.104	0.369	0.035
i-Heptanes	0.225	0.896	0.092
n-Heptane	0.063	0.269	0.029
Toluene	0.019	0.076	0.007
i-Octanes	0.172	0.771	0.077
n-Octane	0.017	0.083	0.009
Ethylbenzene	0.001	0.004	0.000
Xylenes	0.013	0.065	0.005
i-Nonanes	0.033	0.177	0.018
n-Nonane	0.009	0.047	0.005
Decanes Plus	0.015	0.113	0.010
	<u>100.000</u>	<u>100.000</u>	<u>7.938</u>



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Oct. 28, 2021

Station Name: Air Boss 13/14 Fed Com 1H  
Station Number: 72290-000  
Station Location: Mewbourne  
Sample Point: Meter Run  
Analyzed: 10/28/2021 11:02:06 by KNF

Sampled By: James Hill  
Sample Of: Gas Spot  
Sample Date: 10/19/2021 02:51  
Sample Conditions: 73.9 psig, @ 124.2 °F  
Method: GPA 2286  
Cylinder No: 5030-03416

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	23.46	148.45
<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	1393.3	7993.0
Water Sat. Gas Base BTU	1369.0	7817.6
Relative Density Real Gas	0.8135	5.1255
Compressibility Factor	0.9954	
Ideal, Gross HV - Wet	1362.7	
Ideal, Gross HV - Dry at 14.696 psia	1386.9	
Net BTU Dry Gas - real gas	1267	
Net BTU Wet Gas - real gas	1245	

**Comments:** H2S Field Content 0 ppm  
Mcf/day 2377.7

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)

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**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 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 386435

**DEFINITIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 386435
	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 386435

**QUESTIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744 Action Number: 386435 Action Type: [C-129] Venting and/or Flaring (C-129)
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**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	[fAPP2334654231] VIPER 32-33 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 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

<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	71
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	0
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 386435

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 386435
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/16/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours during this event	12

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: 114 Mcf   Recovered: 0 Mcf   Lost: 114 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 386435

**ACKNOWLEDGMENTS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 386435
	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 386435

**CONDITIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 386435
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
zlacount	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.	9/25/2024