

Certificate of Analysis

Number: 6030-21100279-013A

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

Station Name: Bilbrey 34/27 Battery Station Number: N/A

Station Location: Mewbourne
Sample Point: Meter Run VI

Sample Point: Meter Run VRU

Instrument: 6030_GC2 (Agilent GC-7890B) Last Inst. Cal.: 09/13/2021 15:05 PM Analyzed: 10/29/2021 08:21:09 by EJR Sampled By: Chad Whitt Sample Of: Gas Spot

Sample Date: 10/26/2021

Sample Conditions: 37 psig, @ 96.7 °F Ambient: 80 °F

Nov. 01, 2021

Effective Date: 10/26/2021 Method: GPA 2286 Cylinder No: 5030-00487

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	26.614
Nitrogen	0.165	0.16500	0.102		GPM TOTAL C3+	21.204
Methane	12.272	12.23600	4.315		GPM TOTAL iC5+	4.902
Carbon Dioxide	0.222	0.22100	0.214			
Ethane	19.950	19.89200	13.149	5.410		
Propane	31.840	31.74800	30.776	8.895		
Iso-butane	5.578	5.56200	7.107	1.851		
n-Butane	17.379	17.32800	22.141	5.556		
Iso-pentane	3.777	3.76600	5.973	1.401		
n-Pentane	4.358	4.34500	6.892	1.602		
Hexanes Plus	4.751	4.73700	9.331	1.899		
	100.292	100.00000	100.000	26.614		
Calculated Physical Properties		Total		C6+		
Relative Density Rea	al Gas	1.5999	l	3.0753		
Calculated Molecula	r Weight	45.49	l	89.07		
Compressibility Fact	tor	0.9807	•			
GPA 2172 Calculat						
Calculated Gross E	osia & 60°F					
Real Gas Dry BTU		2623		4799		
Water Sat. Gas Bas	e BTU	2578	1	4715		
Ideal, Gross HV - Dry at 14.696 psia		2572.7	•	4798.5		
Ideal, Gross HV - W	et	2527.9	1	0.000		
Comments: H2S F	Field Content 2.5 ppm					

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

Quality Assurance:



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

Station Name: Bilbrey 34/27 Battery

Station Number: N/A

Station Location: Mewbourne Sample Point: Meter Run VRU

Analyzed: 11/01/2021 04:58:24 by EJR

Sampled By: Sample Of:

Chad Whitt Gas Spot

Nov. 01, 2021

Sample Date: 10/26/2021 Sample Conditions: 37 psig, @ 96.7 °F

Method: GPA 2286 Cylinder No: 5030-00487

Analytical Data

			,
Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	0.165	0.102	
Methane	12.236	4.315	
Carbon Dioxide	0.221	0.214	
Ethane	19.892	13.149	5.410
Propane	31.748	30.776	8.895
Iso-Butane	5.562	7.107	1.851
n-Butane	17.328	22.141	5.556
Iso-Pentane	3.766	5.973	1.401
n-Pentane	4.345	6.892	1.602
i-Hexanes	1.362	2.531	0.552
n-Hexane	0.818	1.544	0.341
Benzene	0.225	0.384	0.064
Cyclohexane	0.561	1.032	0.194
i-Heptanes	0.925	1.882	0.374
n-Heptane	0.174	0.388	0.082
Toluene	0.102	0.208	0.035
i-Octanes	0.483	1.099	0.213
n-Octane	0.021	0.056	0.011
Ethylbenzene	0.004	0.012	0.002
Xylenes	0.012	0.038	0.005
i-Nonanes	0.046	0.120	0.024
n-Nonane	0.004	0.015	0.002
Decanes Plus	0.000	0.022	0.000
	100.000	100.000	26.614



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

Station Name: Bilbrey 34/27 Battery

Station Number: N/A

Station Location: Mewbourne Sample Point: Meter Run VRU

Analyzed:

11/01/2021 04:58:24 by EJR

Sampled By: Sample Of:

Chad Whitt

Sample Date:

Gas Spot

Nov. 01, 2021

10/26/2021

Sample Conditions: 37 psig, @ 96.7 °F **GPA 2286**

Method: 5030-00487 Cylinder No:

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	45.49	0.00
GPA 2172 Calculation:		
Calculated Gross BTU per ft ³ @ 14.696	psia & 60°F	
Real Gas Dry BTU	2623.3	0.000
Water Sat. Gas Base BTU	2577.5	0.000
Relative Density Real Gas	1.5999	0.0000
Compressibility Factor	0.9807	
Ideal, Gross HV - Wet	2527.9	
Ideal, Gross HV - Dry at 14.696 psia	2572.7	
Net BTU Dry Gas - real gas	2415	
Net BTU Wet Gas - real gas	2373	

Comments: H2S Field Content 2.5 ppm

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 520431

DEFINITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	520431
	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 520431

QI	UESTIONS		
Operator:		OGRID:	
MEWBOURNE OIL CO P.O. Box 5270		14744 Action Number:	
Hobbs, NM 88241		520431	
		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 t	hese issues before continuing wit	h the rest of the questions.	
Incident Well	Unavailable.		
Incident Facility	[fAPP2125633206] BILBRE	[fAPP2125633206] BILBREY 34/27 BATTERY	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an	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 very was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	be a major or minor release under 19.15.29.7 NMAC.	
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	163		
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		
Province and law of the			
Equipment Involved	T		
Primary Equipment Involved	Other (Specify)		
Additional details for Equipment Involved. Please specify	VRU		
Representative Compositional Analysis of Vented or Flared Natural Gas			
Please provide the mole percent for the percentage questions in this group.			
Methane (CH4) percentage	12		
Nitrogen (N2) percentage, if greater than one percent	0		
Hydrogen Sulfide (H2S) PPM, rounded up	0		
Carbon Dioxide (C02) percentage, if greater than one percent	0		
Oxygen (02) percentage, if greater than one percent	0		
If you are venting and/or flaring because of Pipeline Specification, please provide the required speci			
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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QUESTIONS, Page 2

Action 520431

OUESTI	ONS (continued)
Operator:	OGRID:
MEWBOURNE OIL CO P.O. Box 5270	14744 Action Number:
Hobbs, NM 88241	520431
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	[O 120] VOIMING WINDS FINANTING (O 120)
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	40//0/000
Time vent or flare was discovered or commenced	10/19/2025
Time vent or flare was discovered or commenced Time vent or flare was terminated	12:00 AM
Cumulative hours during this event	03:00 PM
Cumulative nours during this event	15
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Other (Specify) Natural Gas Flared Released: 182 Mcf Recovered: 0 Mcf Lost: 182 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	Sales line pressure exceeded VRU maximum discharge pressure capabilities.
Steps taken to limit the duration and magnitude of vent or flare	Monitored line pressure until it dropped back to acceptable levels and started 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 520431

ACKNOWLEDGMENTS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	520431
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

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 520431

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Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	520431
	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	10/28/2025
	number from this event.	