

Station Name:

Station Number: N/A

### Certificate of Analysis

Number: 6030-21100279-017A

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

Nov. 01, 2021

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

Black Sheep 4/33 Sheep Sampled By: Chad Whitt N/A Sample Of: Gas Spot

Station Location: Mewbourne Sample Date: 10/26/2021
Sample Point: Meter Run VRU Sample Conditions: 81.3 psig, @ 113.4 °F Ambient: 90 °F

 Instrument:
 6030\_GC2 (Agilent GC-7890B)
 Effective Date:
 10/26/2021

 Last Inst. Cal.:
 09/13/2021 14:54 PM
 Method:
 GPA 2286

 Analyzed:
 10/29/2021 07:38:31 by EJR
 Cylinder No:
 5030-03110

### **Analytical Data**

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	6.783
Nitrogen	1.448	1.43200	1.779		GPM TOTAL C3+	3.663
Methane	75.706	74.87800	53.259		GPM TOTAL iC5+	0.898
Carbon Dioxide	0.163	0.16100	0.314			
Ethane	11.778	11.64900	15.530	3.120		
Propane	6.305	6.23600	12.192	1.721		
Iso-butane	0.994	0.98300	2.533	0.322		
n-Butane	2.311	2.28600	5.891	0.722		
Iso-pentane	0.707	0.69900	2.236	0.256		
n-Pentane	0.629	0.62200	1.990	0.226		
Hexanes Plus	1.066	1.05400	4.276	0.416		
	101.107	100.00000	100.000	6.783		
Calculated Physical	I Properties	Total		C6+		
Relative Density Rea	al Gas	0.7815	;	3.1395		
Calculated Molecular	r Weight	22.55	5	90.93		
Compressibility Factor	or	0.9958	3			
GPA 2172 Calculation	on:					
Calculated Gross B	TU per ft³ @ 14.696 ¡	osia & 60°F				
Real Gas Dry BTU		1336	6	4855		
Water Sat. Gas Base	e BTU	1312	<u>}</u>	4771		
Ideal, Gross HV - Dry	y at 14.696 psia	1329.9	)	4855.4		
Ideal, Gross HV - We	et	1306.7	•	0.000		
Comments: H2S Fi	ield Content 0 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: Black Sheep 4/33 Sheep

Station Number: N/A

Station Location: Mewbourne Sample Point: Meter Run VRU

11/01/2021 07:11:54 by EJR Analyzed:

Sampled By: Sample Of:

**Chad Whitt** Gas Spot

Nov. 01, 2021

Sample Date: 10/26/2021 Sample Conditions: 81.3 psig, @ 113.4 °F

Method: GPA 2286

Cylinder No: 5030-03110

### **Analytical Data**

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	1.432	1.779	
Methane	74.878	53.259	
Carbon Dioxide	0.161	0.314	
Ethane	11.649	15.530	3.120
Propane	6.236	12.192	1.721
Iso-Butane	0.983	2.533	0.322
n-Butane	2.286	5.891	0.722
Iso-Pentane	0.699	2.236	0.256
n-Pentane	0.622	1.990	0.226
i-Hexanes	0.245	0.921	0.098
n-Hexane	0.143	0.559	0.060
Benzene	0.078	0.270	0.022
Cyclohexane	0.126	0.473	0.043
i-Heptanes	0.169	0.696	0.068
n-Heptane	0.043	0.194	0.020
Toluene	0.063	0.255	0.021
i-Octanes	0.126	0.577	0.055
n-Octane	0.011	0.052	0.005
Ethylbenzene	0.005	0.022	0.002
Xylenes	0.013	0.064	0.005
i-Nonanes	0.021	0.103	0.010
n-Nonane	0.004	0.024	0.002
Decanes Plus	0.007	0.066	0.005
	100.000	100.000	6.783



## Certificate of Analysis

Number: 6030-21100279-017A

**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: Black Sheep 4/33 Sheep

Station Number: N/A

Station Location: Mewbourne Sample Point: Meter Run VRU

Analyzed:

11/01/2021 07:11:54 by EJR

Sampled By: Sample Of:

**Chad Whitt** 

Gas Spot

Nov. 01, 2021

Sample Date: 10/26/2021 Sample Conditions: 81.3 psig, @ 113.4 °F

Method:

GPA 2286

Cylinder No: 5030-03110

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	22.55	158.33
GPA 2172 Calculation:		
Calculated Gross BTU per ft <sup>3</sup> @ 14.696 ps	sia & 60°F	
Real Gas Dry BTU	1335.5	8632.6
Water Sat. Gas Base BTU	1312.2	8446.7
Relative Density Real Gas	0.7815	5.4667
Compressibility Factor	0.9958	
Ideal, Gross HV - Wet	1306.7	
Ideal, Gross HV - Dry at 14.696 psia	1329.9	
Net BTU Dry Gas - real gas	1214	
Net BTU Wet Gas - real gas	1193	
Comments: H2S Field Content 0 ppm		

Data reviewed by: Krystle Fitzwater, Laboratory Manager The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality

Quality Assurance:

Released to Imaging: 10/14/2025 3:42:49 PM

### 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)

General Information Phone: (505) 629-6116

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

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

DEFINITIONS

Action 515134

#### **DEFINITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	515134
	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.

General Information
Phone: (505) 629-6116
Online Phone Directory
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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 515134

Ql	UESTIONS			
Operator:		OGRID:		
MEWBOURNE OIL CO P.O. Box 5270		14744 Action Number:		
Hobbs, NM 88241		515134		
		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	[fAPP2202538642] RAM 3 I	[fAPP2202538642] RAM 3 BATTERY		
Determination of Denouting Deguiyaments				
Determination of Reporting Requirements  Answer all questions that apply. The Reason(s) statements are calculated based on your answers an	nd may 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 appealant shall file a form C 444 instead of a form C 420 for a release that includes limited during the				
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 <b>ANY</b> 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			
Equipment Involved				
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	75			
Nitrogen (N2) percentage  Nitrogen (N2) percentage, if greater than one percent	1			
Hydrogen Sulfide (H2S) PPM, rounded up				
Carbon Dioxide (CO2) percentage, if greater than one percent	0			
Oxygen (02) percentage, if greater than one percent	0			
Oxygen (02) percentage, it greater than one percent	0			
If you are venting and/or flaring because of Pipeline Specification, please provide the required speci	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.			

Not answered.

Oxygen (02) percentage quality requirement

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

QUESTIONS, Page 2

Action 515134

QUESTI	ONS (continued)		
Operator:	OGRID:		
MEWBOURNE OIL CO P.O. Box 5270	14744 Action Number:		
Hobbs, NM 88241	515134		
	Action Type:  [C-129] Venting and/or Flaring (C-129)		
QUESTIONS			
Date(s) and Time(s)			
Date vent or flare was discovered or commenced	10/10/2025		
Time vent or flare was discovered or commenced	01:00 AM		
Time vent or flare was terminated	10:00 PM		
Cumulative hours during this event	21		
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: 105 Mcf   Recovered: 0 Mcf   Lost: 105 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.		
Martin and Clarica Boulding from Dougatoon Addition			
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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 515134

#### **ACKNOWLEDGMENTS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	515134
	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 <b>a complete</b> 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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 515134

#### **CONDITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	515134
	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.	10/14/2025