

## Certificate of Analysis

Number: 6030-21100297-014A

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: Chicago 9/8 W0HE Fee Com 1H Battery VRT

Station Number: N/A
Station Location: Mewbourne
Sample Point: VRT

Instrument: 6030\_GC2 (Agilent GC-7890B)

Last Inst. Cal.: 09/13/2021 15:05 PM Analyzed: 11/02/2021 09:18:30 by EJR Sampled By: Michael Mirabal
Sample Of: Gas Spot
Sample Date: 10/28/2021 08:41
Sample Conditions: 37 psig Ambient: 46 °F

Nov. 04, 2021

Effective Date: 10/28/2021 08:41 Method: GPA 2286 Cylinder No: 5030-04733

### **Analytical Data**

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	20.707
Nitrogen	11.446	11.28000	8.216		GPM TOTAL C3+	14.694
Methane	18.696	18.42400	7.685		GPM TOTAL iC5+	2.646
Carbon Dioxide	0.097	0.09600	0.110			
Ethane	22.604	22.27500	17.415	6.013		
Propane	26.068	25.68900	29.453	7.144		
Iso-butane	4.237	4.17500	6.310	1.379		
n-Butane	11.239	11.07600	16.739	3.525		
Iso-pentane	2.286	2.25300	4.227	0.832		
n-Pentane	2.628	2.59000	4.859	0.948		
Hexanes Plus	2.174	2.14200	4.986	0.866		
	101.475	100.00000	100.000	20.707		
Calculated Physical P	Properties	Tota		C6+		
Relative Density Real Gas		1.3430	)	3.0734		
Calculated Molecular V	Veight	38.46	6	89.01		
Compressibility Factor		0.9881				
<b>GPA 2172 Calculation</b>	ո։					
Calculated Gross BTU	ا 14.696 per ft³ @ 14.696	osia & 60°F				
Real Gas Dry BTU		2045	5	4826		
Water Sat. Gas Base B	BTU	2010	)	4742		
Ideal, Gross HV - Dry at 14.696 psia		2021.1		4825.8		
Ideal, Gross HV - Wet		1985.8	3	0.000		
Comments: H2S Field	d Content 0 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.



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Station Name: Chicago 9/8 W0HE Fee Com 1H Battery VRT

Station Number: N/A

Station Location: Mewbourne

Sample Point: VRT

Analyzed: 11/03/2021 08:09:05 by EJR

Sample Of: Michael Mirabal
Sample Of: Gas Spot
Sample Date: 10/28/2021 08:41

Nov. 04, 2021

Sample Conditions: 37 psig Method: GPA 2286 Cylinder No: 5030-04733

### **Analytical Data**

			7 111011 9 1100	
Components	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.000		
Nitrogen	11.280	8.216		
Methane	18.424	7.685		
Carbon Dioxide	0.096	0.110		
Ethane	22.275	17.415	6.013	
Propane	25.689	29.453	7.144	
Iso-Butane	4.175	6.310	1.379	
n-Butane	11.076	16.739	3.525	
Iso-Pentane	2.253	4.227	0.832	
n-Pentane	2.590	4.859	0.948	
i-Hexanes	0.736	1.616	0.298	
n-Hexane	0.428	0.968	0.179	
Benzene	0.036	0.075	0.010	
Cyclohexane	0.201	0.439	0.069	
i-Heptanes	0.401	0.969	0.161	
n-Heptane	0.081	0.207	0.038	
Toluene	0.029	0.068	0.010	
i-Octanes	0.190	0.513	0.082	
n-Octane	0.010	0.030	0.005	
Ethylbenzene	0.002	0.006	0.001	
Xylenes	0.006	0.020	0.002	
i-Nonanes	0.020	0.059	0.010	
n-Nonane	0.002	0.006	0.001	
Decanes Plus	0.000	0.010	0.000	
	100.000	100.000	20.707	



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Station Name: Chicago 9/8 W0HE Fee Com 1H Battery VRT

Station Number: N/A Station Location: Mewbourne

Sample Point: VRT

Analyzed: 11/03/2021 08:09:05 by EJR

Sampled By: Michael Mirabal Sample Of: Gas Spot Sample Date: 10/28/2021 08:41 Sample Conditions: 37 psig

Nov. 04, 2021

Method: GPA 2286 Cylinder No: 5030-04733

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	38.46	0.00
GPA 2172 Calculation:		
Calculated Gross BTU per ft <sup>3</sup> @ 14.696	psia & 60°F	
Real Gas Dry BTU	2045.3	0.000
Water Sat. Gas Base BTU	2009.7	0.000
Relative Density Real Gas	1.3430	0.0000
Compressibility Factor	0.9881	
Ideal, Gross HV - Wet	1985.8	
Ideal, Gross HV - Dry at 14.696 psia	2021.1	
Net BTU Dry Gas - real gas	1879	
Net BTU Wet Gas - real gas	1847	

Comments: H2S Field Content 0 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)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

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

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 129004

#### **DEFINITIONS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	129004
	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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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS

Action 129004

Phone:(505) 476-3470 Fax:(505) 476-3462				
٥	UESTIONS			
Operator:	323113113	OGRID:		
MEWBOURNE OIL CO		14744		
P.O. Box 5270 Hobbs, NM 88241		Action Number: 129004		
		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	these issues before continuing w	ith the rest of the questions.		
Incident Well	Not answered.			
Incident Facility	[fAPP2220057303] JOURN	JOURNEY 11-12 FED BATTERY		
Determination of Reporting Requirements				
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at		9.		
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	r 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 v	renting and/or flaring that is or ma	y be a major or minor release under 19.15.29.7 NMAC.		
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	No			
watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water				
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	No			
existence				
Equipment Involved				
Primary Equipment Involved	Other (Specify)			
i ilinary Equipment involved	Other (Specify)			
Additional details for Equipment Involved. Please specify	VDU			
Additional details for Equipment involved. Flease specify	VRU			
	<u> </u>			
Representative Compositional Analysis of Vented or Flared Natural Gas				
Please provide the mole percent for the percentage questions in this group.				
Methane (CH4) percentage	18			
Nitrogen (N2) percentage, if greater than one percent	11			
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 spec	cifications 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.			
Oxygen (02) percentage quality requirement	Not answered.			
1 20 ( 7)	1			

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QUESTIONS, Page 2

Action 129004

QUESTIC	ONS (continued)
Operator:  MEWBOURNE OIL CO	OGRID: 14744
P.O. Box 5270 Hobbs, NM 88241	Action Number: 129004
	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	[0-125] Volume and of Flating (0-125)
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/19/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24
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: 277 Mcf   Recovered: 0 Mcf   Lost: 277 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 129004

#### **ACKNOWLEDGMENTS**

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	129004
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### **ACKNOWLEDGMENTS**

I acknowledge that I am authorized to submit a Venting and/or Flaring (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

Action 129004

#### **CONDITIONS**

Operator:	OGRID:
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P.O. Box 5270	Action Number:
Hobbs, NM 88241	129004
	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.	7/27/2022