



## Certificate of Analysis

Number: 6030-22030518-001A

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

Mar. 31, 2022

Station Name: Perazzi 9-10 B2LI Fed Com #1H Battery  
Station Location: Mewbourne  
Sample Point: Meter Run VRU  
Instrument: 6030\_GC2 (Agilent GC-7890B)  
Last Inst. Cal.: 03/07/2022 16:14 PM  
Analyzed: 03/31/2022 06:26:00 by KNF

Sampled By: Gerardo Rodriguez  
Sample Of: Gas Spot  
Sample Date: 03/28/2022 03:00  
Sample Conditions: 102.5 psig, @ 114.8 °F Ambient: 87 °F  
Effective Date: 03/28/2022 03:00  
Method: GPA 2286  
Cylinder No: 1111-007633

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+ 22.616
Nitrogen	0.171	0.17600	0.127		GPM TOTAL C3+ 15.608
Methane	22.445	23.11900	9.556		GPM TOTAL iC5+ 2.726
Carbon Dioxide	0.124	0.12800	0.145		
Ethane	25.172	25.92800	20.088	7.008	
Propane	28.790	29.65700	33.695	8.258	
Iso-butane	4.005	4.12500	6.178	1.364	
n-Butane	9.934	10.23200	15.323	3.260	
Iso-pentane	1.744	1.79600	3.339	0.664	
n-Pentane	1.842	1.89700	3.527	0.695	
Hexanes Plus	2.856	2.94200	8.022	1.367	
	97.083	100.00000	100.000	22.616	

## Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	1.3577	3.6645
Calculated Molecular Weight	38.81	106.13
Compressibility Factor	0.9869	

## GPA 2172 Calculation:

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

Real Gas Dry BTU	2252	5717
Water Sat. Gas Base BTU	2213	5617
Ideal, Gross HV - Dry at 14.696 psia	2222.6	5716.8
Ideal, Gross HV - Wet	2183.8	0.000

Comments: H2S Field Content 0 ppm  
Mcf/day 725.4

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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Mar. 31, 2022

Station Name: Perazzi 9-10 B2LI Fed Com #1H Battery  
Station Location: Mewbourne  
Sample Point: Meter Run VRU  
Cylinder No: 1111-007633  
Analyzed: 03/31/2022 08:32:24 by KNF

Sampled By: Gerardo Rodriguez  
Sample Of: Gas Spot  
Sample Date: 03/28/2022 03:00  
Sample Conditions: 102.5 psig, @ 114.8 °F  
Method: GPA 2286

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	0.176	0.127	
Methane	23.119	9.556	
Carbon Dioxide	0.128	0.145	
Ethane	25.928	20.088	7.008
Propane	29.657	33.695	8.258
Iso-Butane	4.125	6.178	1.364
n-Butane	10.232	15.323	3.260
Iso-Pentane	1.796	3.339	0.664
n-Pentane	1.897	3.527	0.695
i-Hexanes	0.770	1.666	0.309
n-Hexane	0.384	0.854	0.159
Benzene	0.159	0.321	0.045
Cyclohexane	0.265	0.574	0.091
i-Heptanes	0.413	0.964	0.165
n-Heptane	0.065	0.171	0.030
Toluene	0.056	0.133	0.019
i-Octanes	0.191	0.519	0.085
n-Octane	0.012	0.033	0.006
Ethylbenzene	0.006	0.013	0.002
Xylenes	0.015	0.037	0.006
i-Nonanes	0.040	0.114	0.021
n-Nonane	0.006	0.023	0.004
Decanes Plus	0.560	2.600	0.425
	100.000	100.000	22.616



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Mar. 31, 2022

Station Name: Perazzi 9-10 B2LI Fed Com #1H Battery  
Station Location: Mewbourne  
Sample Point: Meter Run VRU  
Cylinder No: 1111-007633  
Analyzed: 03/31/2022 08:32:24 by KNFSampled By: Gerardo Rodriguez  
Sample Of: Gas Spot  
Sample Date: 03/28/2022 03:00  
Sample Conditions: 102.5 psig, @ 114.8 °F  
Method: GPA 2286

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Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	38.81	181.16
<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	2252.1	9929.4
Water Sat. Gas Base BTU	2212.9	9628.1
Relative Density Real Gas	1.3577	6.2549
Compressibility Factor	0.9869	
Ideal, Gross HV - Wet	2183.8	
Ideal, Gross HV - Dry at 14.696 psia	2222.6	
Net BTU Dry Gas - real gas	2069	
Net BTU Wet Gas - real gas	2033	

**Comments:** H2S Field Content 0 ppm  
Mcf/day 725.4

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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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 270686

DEFINITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 270686
	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: <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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QUESTIONS

Action 270686

**QUESTIONS**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 270686
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	Unavailable.
Incident Facility	[fAPP2203855703] PERAZZI 9-10 B2IL FED COM #1H BATTERY

<b>Determination of Reporting Requirements</b>	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.	
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 venting and/or flaring that is or may 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 <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>	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	23
Nitrogen (N2) percentage, if greater than one percent	0
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
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
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 270686

**QUESTIONS (continued)**

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 270686
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/25/2023
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: High Line Pressure   Other (Specify)   Natural Gas Flared   Released: 51 Mcf   Recovered: 0 Mcf   Lost: 51 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 270686

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Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 270686
	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 270686

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 270686
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
zlaount	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.	10/5/2023