



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

Station Number: 72290-000

Station Location: Mewbourne

Sample Point: Meter Run

Instrument: 6030_GC2 (Agilent GC-7890B)

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

Analyzed: 10/28/2021 10:08:59 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 Ambient: 85 °F

Effective Date: 10/19/2021 02:51

Method: GPA 2286

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	
	101.708	100.00000	100.000	7.938	

Calculated Physical Properties

Relative Density Real Gas

Total

0.8135

C6+

3.2265

Calculated Molecular Weight

23.46

93.45

Compressibility Factor

0.9954

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.696 psia & 60°F

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
	100.000	100.000	7.938



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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 KNFSampled 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
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
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)

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 509242

DEFINITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 509242
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none">• 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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ACKNOWLEDGMENTS

Action 509242

ACKNOWLEDGMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 509242
	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 complete 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 509242

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Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 509242
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
zlaccount	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.	9/25/2025