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

Certificate of Analysis

Number: 6030-21100211-006A

Oct. 28, 2021

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

Station Name:	Air Boss 13/14 Fed Com 1H	Sampled By:	James Hill
Station Number:	72290-000	Sample Of:	Gas Spot
Station Location:	Mewbourne	Sample Date:	10/19/2021 02:51
Sample Point:	Meter Run	Sample Conditions:	73.9 psig, @ 124.2 °F Ambient: 85 °F
Instrument:	6030_GC2 (Agilent GC-7890B)	Effective Date:	10/19/2021 02:51
Last Inst. Cal.:	09/13/2021 14:54 PM	Method:	GPA 2286
Analyzed:	10/28/2021 10:08:59 by KNF	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	Total	C6+
Relative Density Real Gas	0.8135	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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Station Number:	72290-000	Sample Of:	Gas Spot
Station Location:	Mewbourne	Sample Date:	10/19/2021 02:51
Sample Point:	Meter Run	Sample Conditions:	73.9 psig, @ 124.2 °F
Analyzed:	10/28/2021 11:02:06 by KNF	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)

808.002.00072551

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
District IV
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

QUESTIONS

Action 63219

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 63219
	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 with the rest of the questions.	
Incident Well	*Not answered.*
Incident Facility	**[fAPP2126050094] WINGMAN 12/11 W0PM STATE COM 1H BATTERY**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
Was or is this venting and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring 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 or will there be **at least 50 MCF** of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the venting and/or flaring 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	71
Nitrogen (N2) percentage, if greater than one percent	1
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 specifications 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.*

Date(s) and Time(s)	
Date venting and/or flaring was discovered or commenced	11/12/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	08:30 AM
Cumulative hours during this event	8

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: 54 Mcf | Recovered: 0 Mcf | Lost: 54 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 or is this venting and/or flaring a result of downstream activity	*Not answered.*
Was notification of downstream activity received by you or your operator	*Not answered.*
Downstream OGRID that should have notified you or your operator	*Not answered.*
Date notified of downstream activity requiring this venting and/or flaring	*Not answered.*
Time notified of downstream activity requiring this venting and/or flaring	*Not answered.*

Steps and Actions to Prevent Waste	
For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	VRU malfunctioned
Steps taken to limit the duration and magnitude of venting and/or flaring	Repaired VRU
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Continued routine preventive maintenance and daily operational inspections

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CONDITIONS

Action 63219

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 63219
	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.	11/23/2021