

Atchafalaya Measurement, Inc.

416 East Main Street Artesia, NM 88210

575-746-3481

Inficon Micro GC Fusion F08904 R03RR2

Sample Information	
Sample Name	Limerock__Mann State__GC1-81919-15
Station Number	631100
Lease Name	Mann State
Analysis For	Limerock Resources
Producer	Limerock Resources
Field Name	N/A
County/State	N/A
Frequency/Spot Sample	Quarterly
Sampling Method	Fill Empty
Sample Deg F	92
Atmos Deg F	N/A
Flow Rate	13967
Line PSIG	39
Date/Time Sampled	8-13-19
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Javi Lazo
Analysis By	Pat Silvas
Verified/Calibration Date	8-19-19
Report Date	2019-08-19 14:12:44

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.740	10921.2	2.28940	22894.000	0.000
H2S	46.000	0.0	1.06504	10650.400	0.000
Methane	23.500	337287.5	90.91551	909155.100	0.000
Carbon Dioxide	27.740	2239.6	0.39339	3933.900	0.000
Ethane	37.560	27281.7	4.39761	43976.100	1.178
Propane	72.780	4241.2	0.50931	5093.100	0.141
i-butane	28.880	1402.5	0.02189	218.900	0.007
n-Butane	30.520	4664.6	0.07016	701.600	0.022
i-pentane	35.540	1757.5	0.02243	224.300	0.008
n-Pentane	37.620	2714.5	0.03372	337.200	0.012
Hexanes Plus	120.000	23128.0	0.28154	2815.400	0.122
Total:			100.00000	1000000.000	1.491

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	93.89318	
Pressure Base (psia)	14.730	
Temperature Base	60.00	
Gross Heating Value (BTU / Ideal cu.ft.)	1031.0	1013.0
Gross Heating Value (BTU / Real cu.ft.)	1033.2	1015.6
Relative Density (G), Ideal	0.5974	0.5978
Relative Density (G), Real	0.5985	0.5991
Compressibility (Z) Factor	0.9978	0.9974



Daily Gas Entry Detail Listing

Date	MCF	Calc MCF/Day	Energy	BTU Factor	Flow Press	Flow Temp	Base Press	Remarks
GasMtr	GM000075	Mann 3 Fed Flare Mtr						
11/17/2022	78.00	78.00	32.00	1.0000	80.000	60.00	15.025	
Report Totals:	78.00	78.00						

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District IV
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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 160323

DEFINITIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88210	OGRID: 330211
	Action Number: 160323
	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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QUESTIONS

Action 160323

QUESTIONS

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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	Unavailable.
Incident Facility	[fAPP232541794] Mann 3 Federal CTB

Determination of Reporting Requirements	
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 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 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

Equipment Involved	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	91
Nitrogen (N2) percentage, if greater than one percent	2
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 160323

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/17/2022
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	03:00 PM
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: Midstream Emergency Maintenance Pipeline (Any) Natural Gas Flared Released: 78 Mcf Recovered: 0 Mcf Lost: 78 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
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	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[221115] FRONTIER FIELD SERVICES, LLC
Date notified of downstream activity requiring this vent or flare	11/17/2022
Time notified of downstream activity requiring this vent or flare	07:00 AM

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	Downstream line leak and plant repairs
Steps taken to limit the duration and magnitude of vent or flare	Shut in
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Frontier Field Services LLC (Durango Midstream) was having pipeline problems. Redwood flared for 8hours and Frontier Field Services LLC was unable to fix the emergency situation within the 8 hour time frame, So Redwood shut-in and turned off producing wells.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	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.
☒	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

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CONDITIONS

Created By	Condition	Condition Date
dweaver	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.	11/21/2022