

Atchafalaya Measurement, Inc.
416 East Main Street Artesia, NM 88210 575-746-3481

Inficon Micro GC Fusion F08904 R03RR2

Sample Information	
Sample Name	Limerock__Atoka SA Unit__GC2-111519-33
Station Number	75342-00
Lease Name	Atoka SA Unit
Analysis For	Limerock Resources
Producer	Limerock Resources
Field Name	East Artesia
County/State	Eddy, NM
Frequency/Spot Sample	Semi-Annual
Sampling Method	Fill Empty
Sample Deg F	50
Atmos Deg F	44
Flow Rate	179.9
Line PSIG	30
Date/Time Sampled	11-11-19
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Craig Sutherland
Analysis By	Pat Silvas
Verified/Calibration Date	11-11-19
Report Date	2019-11-15 14:59:34

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	23.220	26074.1	1.86167	18616.700	0.000
H2S	0.000	0.0	2.27121	22712.100	0.309
Methane	24.060	594659.2	55.43878	554387.800	0.000
Carbon Dioxide	27.980	36625.0	2.21355	22135.500	0.000
Ethane	36.600	300893.7	17.03431	170343.100	4.584
Propane	76.000	264032.2	11.35208	113520.800	3.147
i-butane	28.500	133110.6	1.66236	16623.600	0.547
n-Butane	29.900	352215.8	4.21149	42114.900	1.336
i-pentane	34.540	118184.7	1.18150	11815.000	0.435
n-Pentane	36.260	124979.2	1.20860	12086.000	0.441
Hexanes Plus	120.000	176394.0	1.56445	15644.500	0.683
Total:			100.00000	1000000.000	11.482

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	105.67042	
Pressure Base (psia)	14.730	
Temperature Base	60.00	
Gross Heating Value (BTU / Ideal cu.ft.)	1532.4	1505.8
Gross Heating Value (BTU / Real cu.ft.)	1542.4	1516.3
Relative Density (G), Ideal	0.9629	0.9569
Relative Density (G), Real	0.9687	0.9632
Compressibility (Z) Factor	0.9935	0.9930

ASAU CTB																				
Location		32.4505.04 -104.2028.90																		
Meter Type	Prod Date	Entry Date	Disposition	Product	UOM	Volume	Vol Rate	Energy Factor	Energy	Flow Temp	Gas Gravity	Base Temp	Base Press	Flow Press	Run Hours	Meter Begin	Meter End	Begin Date	End Date	Last Updated
FLARE	7/21/2021	7/22/2021	FLARE	GAS	MCF	65	65.35	1	65	75	0.6	60	14.73	0	24	0	65	7/21/2021 0:00	7/21/2021 0:00	TJRODRIGUEZ
FLARE	7/20/2021	7/21/2021	FLARE	GAS	MCF	48	48.26	1	48	75	0.6	60	14.73	0	24	0	48	7/20/2021 0:00	7/20/2021 0:00	TJRODRIGUEZ

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 38114

QUESTIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88211370	OGRID: 330211
	Action Number: 38114
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**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 or is this venting or flaring caused by an emergency or malfunction	No
Did or will this venting 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 notification of a major venting or flaring	Yes, minor venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.29.7 NMAC	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting 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

Unregistered Facility Site

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	ASAU CTB
Facility Type	Tank Battery - (TB)

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	55
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	2
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	07/20/2021
Time venting or flaring was discovered or commenced	05:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/22/2021
Time venting or flaring was terminated	11:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	42
Longest duration of cumulative hours within any 24-hour period 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	Not answered.
Other Released Details	Cause: Midstream Scheduled Maintenance Pipeline (Any) Natural Gas Flared Spilled: 113 Mcf Recovered: 0 Mcf Lost: 113 Mcf]
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only 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 or flaring a result of downstream activity	Not answered.
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting 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.	False
Please explain reason for why this event was beyond your operator's control	Not answered.
Steps taken to limit the duration and magnitude of venting or flaring	During flaring Redwood only flares newer/higher oil production wells and shut in all smaller/older production.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Flaring was caused from DCP needing Redwood to curtail production to repair and maintenance, unfortunately the only thing we can do is continue communication with the Midstream Operator

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CONDITIONS

Action 38114

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Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 882111370	OGRID: 330211
	Action Number: 38114
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/26/2021