

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

Inficon Micro GC Fusion F08904 R03RR2

	Sample Information
Sample Name	Cimarex__Hallertau 5 Federal 4H Allocation__GC1-111618-05
Station Number	NCW9728005
Lease Name	Hallertau 5 Federal 4H Allocation
Analysis For	Cimarex Energy
Producer	Cimarex Energy
Field Name	N/A
County/State	N/A
Frequency/Spot Sample	Spot
Sampling Method	Fill Empty
Sample Deg F	77
Atmos Deg F	N/A
Flow Rate	N/A
Line PSIG	72
Date/Time Sampled	10-28-18
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Coty B
Analysis By	Pat Silvas
Verified/Calibration Date	11-12-18
Report Date	2018-11-16 07:43:15

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.260	9633.8	1.89820	18982.000	0.000
H2S	46.000	0.0	0.00000	0.000	0.000
Methane	23.080	300732.4	76.19254	761925.400	0.000
Carbon Dioxide	26.920	10785.5	1.78069	17806.900	0.000
Ethane	37.140	74773.0	11.32882	113288.200	3.040
Propane	79.200	48174.3	5.43744	54374.400	1.503
i-butane	28.780	49284.7	0.72318	7231.800	0.237
n-Butane	30.380	109021.0	1.54134	15413.400	0.488
i-pentane	35.460	28351.3	0.34004	3400.400	0.125
n-Pentane	37.540	30714.9	0.35858	3585.800	0.130
Hexanes Plus	120.000	34886.0	0.39917	3991.700	0.174
Total:			100.00000	1000000.000	5.697

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	99.89403	
Pressure Base (psia)	14.730	
Temperature Base	60.00	
Gross Heating Value (BTU / Ideal cu.ft.)	1231.9	1210.5
Gross Heating Value (BTU / Real cu.ft.)	1236.4	1215.4
Relative Density (G), Ideal	0.7435	0.7414
Relative Density (G), Real	0.7459	0.7441
Compressibility (Z) Factor	0.9964	0.9960

Date	Gas Flowed	Hours Flowed	Static Pressure	Differential Pressure	Line Pressure	Orifice Plate Diameter	Pipe Diameter	Pressure Base
3/20/2022	0.00	0	13	0	0	2.75	3.877	14.73
3/19/2022	4.00	0	13	0	0	2.75	3.877	14.73
3/18/2022	4.00	0	13	0	0	2.75	3.877	14.73
3/17/2022	6.00	0	13	0	0	2.75	3.877	14.73
3/16/2022	6.00	0	13	0	0	2.75	3.877	14.73
3/15/2022	43.00	0	13	0	0	2.75	3.877	14.73
3/14/2022	54.00	0	13	0	0	2.75	3.877	14.73
3/13/2022	32.00	0	17	0	4	2.75	3.877	14.73
3/12/2022	35.00	0	26	1	13	2.75	3.877	14.73
3/11/2022	32.00	0	13	0	0	2.75	3.877	14.73
3/10/2022	17.00	0	18	0	5	2.75	3.877	14.73
3/9/2022	53.00	0	18	1	5	2.75	3.877	14.73
3/8/2022	43.00	0	17	0	4	2.75	3.877	14.73
3/7/2022	23.00	0	20	0	7	2.75	3.877	14.73
3/6/2022	83.00	0	22	1	9	2.75	3.877	14.73
3/5/2022	142.00	0	21	1	8	2.75	3.877	14.73
3/4/2022	138.00	0	21	1	8	2.75	3.877	14.73
3/3/2022	103.00	0	20	1	7	2.75	3.877	14.73

Compressor down off and on due to several issues including cat panel and engine panel shut in, additionally as a result of compressor issues wells kept kicking in causing more intermittent flaring.

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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 91656

DEFINITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 91656
	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 91656

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 91656
	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	[fAPP2124554027] HALLERTAU 4 FEDERAL

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, major 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 withing 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	76
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	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.

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QUESTIONS, Page 2

Action 91656

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 91656
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/03/2022
Time vent or flare was discovered or commenced	07:15 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours 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	Cause: Equipment Failure Separator Natural Gas Flared Released: 818 Mcf Recovered: 0 Mcf Lost: 818 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	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	Compressor downtime causing intermittent flaring off and on for two weeks. Consequently wells kicking after shut in production also caused intermittent flaring.
Steps taken to limit the duration and magnitude of vent or flare	Field team improved compressor run time and monitored production once wells kicked in.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Both Compressor run time and production are not running normally.

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ACKNOWLEDGMENTS

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	Action Number: 91656
	Action Type: [C-129] Venting and/or Flaring (C-129)

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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	Action Number: 91656
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CONDITIONS

Created By	Condition	Condition Date
jacosta01	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.	3/21/2022