

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

7947		HALLERTAU 5 FEDERAL 4H FLARE							
Date	Gas Flowed	Hours Flowed	Static Pressure	Differential Pressure	Line Pressure	Orifice Plate Diameter	Pipe Diameter	Pressure Base	
2/9/2022	0.00	0	13	0	0	1.875	3.068	14.73	
2/8/2022	11.00	0	13	0	0	1.875	3.068	14.73	
2/7/2022	15.00	0	13	0	0	1.875	3.068	14.73	
2/6/2022	84.00	0	14	0	0	1.875	3.068	14.73	

3 hours

DEFINITIONS

Action 84232

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

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

DEFINITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 84232
	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 84232

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 84232
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Not answered.
Incident Facility	[fAPP2200544515] HALLERTAU 5 FEDERAL 1H, 3H, & 4H

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>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.</i>	
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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
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
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 84232
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/06/2022
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	3

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: 110 Mcf Recovered: 0 Mcf Lost: 110 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 led to flaring
Steps taken to limit the duration and magnitude of vent or flare	Field team and mechanic fix compressor unit.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Compressor unit back online and no further downtime has been observed.

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ACKNOWLEDGMENTS

Action 84232

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	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 84232

CONDITIONS

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	Action Number: 84232
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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.	2/25/2022