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

Inficon Micro GC Fusion F08904 R03RR2

	Sample Information
Sample Name	CimarexHallertau 5 Federal 4H AllocationGC1-111618-05
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

HALLERTAU 4 FEDER	RAL CDP	FLARE	_	Digital (gas)		8453	_	_	_
	1/2021	7/10/2021	7/9/2021	7/8/2021	7/7/2021	7/6/2021	7/5/2021	7/4/2021	7/3/2021
Static (PSI	13	13	13	19	19	21	20	13	13
Differential (In H20	0	0	0	1	1	1	1	0	0
Gas Flowed (MCF	0.0	13.0	90.0	194.0	158.0	257.0	129.0	2.0	136.0

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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

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 36619

QUESTIONS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	36619
	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 addional 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, major 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 vi	nting or flaring that is or may be a major or minor release under			
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 occuring at a facility that does not have an Facility ID (f#) yet.			
Facility or Site Name HALLERTAU 4 FEDERAL CDP FLARE			
Facility Type	Flare Stack - (FS)		

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	74			
Nitrogen (N2) percentage, if greater than one percent	3			
Hydrogen Sulfide (H2S) PPM, rounded up	0			
Carbon Dioxide (C02) percentage, if greater than one percent	6			
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 or flaring was discovered or commenced	07/03/2021
Time venting or flaring was discovered or commenced	07:15 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/10/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	79
Longest duration of cumulative hours within any 24-hour period during this event	23

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure Gas Compressor Station Natural Gas Flared Spilled: 841 Mcf Recovered: 0 Mcf Lost: 841 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 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	Yes	
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

•	8
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	flaring volumes were first caused by 3rd party high line pressure issues.
Steps taken to limit the duration and magnitude of venting or flaring	Constant communication with third party gas gatherer. The Hallertau 4 batteries experienced compressor issues that caused additional flaring trying to get them running.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	We will continue to address the controllable portion of our flaring at Hallertau.

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CONDITIONS

Action 36619

CONDITIONS

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	CIMAREX ENERGY CO. OF COLORADO	162683
	600 N. Marienfeld Street	Action Number:
	Midland, TX 79701	36619
		Action Type:
1		[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.	7/16/2021