

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

Inficon Micro GC Fusion F08904 R03RR2

	Sample Information
Sample Name	Cimarex__Gadwall 18 Federal 4H Allocation__GC2-13119-02
Station Number	NLW0001035
Lease Name	Gadwall 18 Federal 4H Allocation
Analysis For	Cimarex Energy
Producer	Cimarex Energy
Field Name	Carlsbad
County/State	Eddy,NM
Frequency/Spot Sample	Quarterly
Sampling Method	Fill Empty
Sample Deg F	66
Atmos Deg F	60
Flow Rate	700
Line PSIG	100
Date/Time Sampled	1-28-19
Cylinder Number	N/A
Cylinder Clean Date	N/A
Sampled By	Mike West
Analysis By	Pat Silvas
Verified/Calibration Date	1-28-19
Report Date	2019-01-31 12:08:24

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.900	19566.0	1.46974	14697.400	0.000
H2S	0.000	0.0	0.00000	0.000	0.000
Methane	23.660	801973.3	78.65923	786592.300	0.000
Carbon Dioxide	27.600	7200.2	0.45782	4578.200	0.000
Ethane	37.120	185398.0	11.04233	110423.300	2.963
Propane	77.860	108900.5	4.92598	49259.800	1.362
i-butane	28.660	47529.3	0.62448	6244.800	0.205
n-Butane	30.160	121549.2	1.52906	15290.600	0.484
i-pentane	34.720	33445.6	0.35177	3517.700	0.129
n-Pentane	36.440	36893.1	0.37535	3753.500	0.137
Hexanes Plus	120.000	60470.0	0.56424	5642.400	0.246
Total:			100.00000	1000000.000	5.524

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	100.44055	
Pressure Base (psia)	14.730	
Temperature Base	60.00	
Gross Heating Value (BTU / Ideal cu.ft.)	1244.9	1223.3
Gross Heating Value (BTU / Real cu.ft.)	1249.4	1228.1
Relative Density (G), Ideal	0.7260	0.7242
Relative Density (G), Real	0.7283	0.7267
Compressibility (Z) Factor	0.9964	0.9960

From: 06/01/2021 12:00 AM

To: 06/30/2021 12:00 AM

Reset Dates

Refresh Data

Daily

Hourly

Alarms

Events

Row Count: 30

DateTimeStamp	Volume	Energy	StaticPress	DiffPress	Temp	Flow Time (mins)	Flow Up Time Pct	Flow Down Time Pct
2021-06-27								
2021-06-26								
2021-06-25								
2021-06-24								
2021-06-23								
2021-06-22								
2021-06-21								
2021-06-20								
2021-06-19								
2021-06-18								
2021-06-17								
2021-06-16								
2021-06-15								
2021-06-14								
2021-06-13								
2021-06-12								
2021-06-11								
2021-06-10	0	0	65.01	0	98	0	0	100
2021-06-09	6.36	7.84	152.82	1.1	75	38.53	2.68	97.32
2021-06-08	37.24	45.91	152.03	1.4	77	202.43	14.06	85.94
2021-06-07	1.38	1.7	93.18	2.12	105	7.92	0.55	99.45
2021-06-06	64.67	79.71	125.15	22.95	104	99.25	6.89	93.11
2021-06-05	0	0	64.91	0	88	0	0	100

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 31167

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 31167
	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	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
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	GADWALL 18 FED COM 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	78
Nitrogen (N2) percentage, if greater than one percent	1
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.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	06/09/2021
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	06/10/2021
Time venting or flaring was terminated	02:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	6
Longest duration of cumulative hours within any 24-hour period during this event	2

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: 109 Mcf Recovered: 0 Mcf Lost: 109 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

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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	Midstream compressor issues due to overheating due to summer heat, they were uncontrolled and unpredictable.
Steps taken to limit the duration and magnitude of venting or flaring	there's nothing really that production can do on our end to improve our midstream group's compressor runtime, But monitor.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	We are trying to do what we can with our alarming system, etc to try and shut the wells in if midstream makes us flare for too long.

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CONDITIONS

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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.	6/11/2021