

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

S

GADWALL 18 FED COM CDP FLARE											
Digital (gas)						14166					
	6/23/2021	6/27/2021	6/26/2021	6/25/2021	6/24/2021	6/23/2021	6/22/2021	6/21/2021	6/20/2021	6/19/2021	6/18/2021
Static (PSI)	68	65	64	70	66	65	63	62	65	64	63
Differential (In H2O)	0	0	0	0	0				0	0	0
Gas Flowed (MCF)	0.0	0.0	0.0	0.0	82.0	GADWALL 18 FED COM CDP FLARE					
MeterFlareReason					FACILITY ISSUES	Comments (F5) 6/24/2021					
▶ Comments (F5)					dump hung open l	dump hung open lost air comp					
GADWALL 18 FED COM CDP BUY (V)											
Digital (gas)						14165					

Meter Count, Flow Duration (Hours), FlowCal Vol (mcf), ProCount Vol (mcf) per Effective Date, FacilityID, Facility Name or MeterName						
(Column Names)						
Effective Date	FacilityID	Facility Name or MeterName	Meter Count	Flow Duration (Hours)	FlowCal Vol (mcf)	ProCount Vol (mcf)
6/23/2021	3124	GADWALL 18 FED COM 2H-5H	1	1.71	82.48	82

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 33606

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683 Action Number: 33606 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	79
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	06/24/2021
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	06/24/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	2
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: Equipment Failure Gas Compressor Station Natural Gas Flared Spilled: 82 Mcf Recovered: 0 Mcf Lost: 82 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

--

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	Dump hun open lost air compression is worded as pumpers comment.
Steps taken to limit the duration and magnitude of venting or flaring	Field team repaired compressor.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Issue with "dump hung" has been resolved and no issues have been reported.

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

CONDITIONS

Action 33606

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 33606
	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.	7/9/2021