

Atchafalaya Measurement, Inc.

416 East Main Street

Artesia, NM 88210 575-746-3481

Sample Information

	Sample Information
Sample Name	Cimarex__Forty Niner Ridge 23 Federal 2H CDP__GC1-42318-04
Station Number	NCP9775123
Lease Name	Forty Niner Ridge 23 Federal 2H CDP
Analysis for	Cimarex Energy
Producer	Cimarex Energy
Field Name	Carlsbad
County	Lea
State	NM
Frequency	Quarterly
Sample Deg F	72.9
Atmos Deg F	68
Flow Rate	1582.6
LinePSIG	516.9
Date Sampled	4-19-18
Sampled By	Travis Williams
Analysis By	Pat Silvas
Report Date	2018-04-23 07:45:59

Component Results

Component Name	Ret. Time	Peak Area	Norm%	PPMV	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	22.100	10603.9	2.04203	20420.300	0.225
H2S	46.000	0.0	0.00000	0.000	0.000
Methane	22.940	307683.6	76.18829	761882.900	12.958
Carbon Dioxide	26.700	1097.0	0.17702	1770.200	0.030
Ethane	36.940	88450.3	13.09758	130975.800	3.514
Propane	79.160	55848.2	6.16085	61608.500	1.703
i-Butane	28.780	42495.4	0.60944	6094.400	0.200
n-Butane	30.400	94248.2	1.30230	13023.000	0.412
i-Pentane	35.520	13604.3	0.15947	1594.700	0.059
n-Pentane	37.620	11987.6	0.13678	1367.800	0.050
Hexanes Plus	120.000	11289.0	0.12624	1262.400	0.055
Total:			100.00000	1000000.000	19.206

Results Summary

Result	Dry	Sat. (Base)
Total Raw Mole% (Dry)	102.20871	
Total Amount PPM (Mole/Vol.)	1000000.000	
Pressure Base (psia)	14.730	
Temperature Base	60.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1239.8	1218.2
Gross Heating Value (BTU / Real cu.ft.)	1244.1	1223.0
Relative Density (G), Ideal	0.7240	0.7223
Relative Density (G), Real	0.7263	0.7248
Compressibility (Z) Factor	0.9965	0.9961

FORTY NINER RIDGE 23 FED 1H FLARE		Digit		
		10/8/2021	10/7/2021	10/6/2021
Static	(PSI)	54	48	216
Differential	(In H ₂ O)	0	0	0
Gas Flowed	(MCF)	2.0	58.0	73.0

5 Hours

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 55117

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 55117
	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	[fAPP2127738844] FORTY NINER RIDGE 23 FED 1H

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 and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/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 venting and/or flaring event	Yes, minor 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/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
Was the venting and/or flaring 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	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 and/or flaring was discovered or commenced	10/06/2021
Time venting and/or flaring was discovered or commenced	07:15 AM
Time venting and/or flaring was terminated	12:00 PM
Cumulative hours during this event	5

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Gas Compressor Station Natural Gas Vented Released: 131 Mcf Recovered: 0 Mcf Lost: 131 Mcf]
----------------------------------	---

Natural Gas Flared (Mcf) Details	Not answered.
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 or is this venting and/or flaring a result of downstream activity	Not answered.
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/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	Compressor having additional issues and as noted in past C-129 the issue is cumbersome as this is a 7 well compressor.
Steps taken to limit the duration and magnitude of venting and/or flaring	Cimarex is trying to resolve the matter and looking at options to alleviate the 7 well compressor issue
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Cimarex does have a protocol that will prevent the flare from exceeding 500 mcf or long duration by shutting in if necessary.

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 55117

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 55117
	Action Type: [C-129] Venting and/or Flaring (C-129)

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.	10/21/2021