



LABORATORY SERVICES
Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For: Cimarex Energy
Attention: Chris Prater
600 N. Marientfeld, Suite 600
Midland, Texas 79701

Sample: Sta# NCW1471301
Identification: Cotton Draw 9L Fed. 4H Alloc
Company: Cimarex Energy
Lease:
Plant:

Sample Data: Sample Date: 7/13/2018
Analysis Date: 7/20/2018
Sample Temp: 109.7 F
Sample Press.: 170.4 PSIA

Sampled by: T. Thomas
Analysis by: V. McDaniel
Atmos Temp: 85 F
Sample Time: 3:30 PM

H2S = 0.2 PPM

Press. Base: 14.73

Component Analysis

		Mol Percent	GPM Real	GPM Ideal
Hydrogen Sulfide	H2S			
Nitrogen	N2	1.350		
Methane	C1	72.358		
Carbon Dioxide	CO2	0.636		
Ethane	C2	13.829	3.697	3.689
Propane	C3	7.220	1.989	1.984
I-Butane	IC4	0.872	0.285	0.285
N-Butane	NC4	2.053	0.647	0.646
I-Pentane	IC5	0.553	0.200	0.202
N-Pentane	NC5	0.503	0.218	0.182
Hexanes Plus	C6+	<u>0.626</u>	<u>0.272</u>	<u>0.271</u>
		100.000	7.308	7.259

REAL BTU/CU.FT.

At 14.65	1327.4 Dry
	1305.7 Wet
At 14.696	1331.6 Dry
	1309.8 Wet
At 14.73	1334.7 Dry
	1312.8 Wet

Specific Gravity:

Calculated	(Real)	0.786
	(Ideal)	0.783

Remarks:

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)
6/14/2021	3029	COTTON DRAW 9L FED	1	4.56	100.70	56
6/15/2021	3029	COTTON DRAW 9L FED	1	3.67	82.66	242

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 32798

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 32798
	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 19.13.297 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	COTTON DRAW 9L FED 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	72
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	1
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	06/15/2021
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	06/17/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	8
Longest duration of cumulative hours within any 24-hour period during this event	5

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: 298 Mcf Recovered: 0 Mcf Lost: 298 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	Sales compressor had an issue and went down causing the wells to flare before shutting in. Compressor is repaired and back online. Compressor is back on, wells lined out, and flaring stopped.
Steps taken to limit the duration and magnitude of venting or flaring	Field team responded to event and repaired compressor ASAP
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Cimarex is currently trying to improving runtime of compressors via new protocol.

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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.	6/30/2021