



LABORATORY SERVICES
Natural Gas Analysis

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575.397.3713 2609 W Marland Hobbs NM 88240

For: Cimarex Energy
Attention: Chris Prater
600 N. Mariefeld, 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 $\frac{(\text{Real})}{(\text{Ideal})} = \frac{0.786}{0.783}$

Remarks:

9121 COTTON DRAW 9L FED CDP FLARE									
Date ▼	Gas Flowed	Hours Flowed	Static Pressure	Differential Pressure	Line Pressure	Orifice Plate Diameter	Pipe Diameter	Pressure Base	
2/13/2022	0.00	0	13	0	0	2.25	3.069	14.73	
2/12/2022	168.00	0	13	0	0	2.25	3.069	14.73	
2/11/2022	2.00	0	13	0	0	2.25	3.069	14.73	
2/10/2022	183.00	0	13	0	0	2.25	3.069	14.73	
2/9/2022	1.00	0	13	0	0	2.25	3.069	14.73	
2/8/2022	128.00	0	13	0	0	2.25	3.069	14.73	
2/7/2022	6.00	0	13	0	0	2.25	3.069	14.73	
2/6/2022	0.00	0	13	0	0	2.25	3.069	14.73	
2/5/2022	0.00	0	13	0	0	2.25	3.069	14.73	
2/4/2022	4.00	0	13	0	0	2.25	3.069	14.73	
2/3/2022	205.00	0	13	0	0	2.25	3.069	14.73	

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 82434

DEFINITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 82434
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 82434

QUESTIONS

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	Action Number: 82434
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Not answered.
Incident Facility	[fAPP2129348306] COTTON DRAW 9L

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.
<i>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.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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 vent or flare 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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
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
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.

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QUESTIONS, Page 2

Action 82434

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/03/2022
Time vent or flare was discovered or commenced	07:15 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours during this event	21

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 Separator Natural Gas Flared Released: 684 Mcf Recovered: 0 Mcf Lost: 684 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 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 this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Compressor issues off and on during a four day span. Mechanic was called on the first day to fix than compressor was down to detonation and automation value not operating. Field team and mechanic has fixed. Flare intermittently from 2/3-2/12 for a total of 20 hours only one day 2/10 did the flare exceed over 8 hours.
Steps taken to limit the duration and magnitude of vent or flare	Mechanic was brought in to fix issue during this time span.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Compressor run time has been improved no further issues.

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ACKNOWLEDGMENTS

Action 82434

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ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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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.	2/17/2022