



Certificate of Analysis

Number: 6030-21010256-002A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Cimarex Energy
Cimarex Energy
7023 Norris Rd.
Carlsbad, NM 88220

Feb. 01, 2021

Station Name: Red Hills 32-5 FC CDP Check
Station Number: NCP1471389
Station Location: Cimarex
Sample Point: Meter Run
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: SPL
C6+ Group Properties: 60/30/10% - C6/C7/C8Sampled By: Mike West
Sample Of: Gas Spot
Sample Date: 01/27/2021
Sample Conditions: 75 psig, @ 112 °F Ambient: 60 °F
Effective Date: 01/27/2021
Method: GPA-2261M
Cylinder No: 1111-003905
Instrument: 70104124 (Inficon GC-MicroFusion)
Last Inst. Cal.: 02/01/2021 0:00 AM
Analyzed: 02/01/2021 12:46:07 by PGS

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	8.265
Nitrogen	1.237	1.23130	1.436		GPM TOTAL C3+	4.534
Methane	69.584	69.28527	46.290		GPM TOTAL iC5+	1.016
Carbon Dioxide	0.945	0.94095	1.725			
Ethane	13.946	13.88660	17.389	3.731		
Propane	8.293	8.25774	15.164	2.285		
Iso-butane	1.082	1.07726	2.608	0.354		
n-Butane	2.786	2.77425	6.715	0.879		
Iso-pentane	0.639	0.63616	1.911	0.234		
n-Pentane	0.749	0.74539	2.240	0.271		
Hexanes Plus	1.170	1.16508	4.522	0.511		
	100.431	100.00000	100.000	8.265		



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Physical Properties	Total	C6+
Relative Density Real Gas	0.8328	3.2176
Calculated Molecular Weight	24.01	93.19
Compressibility Factor	0.9952	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1404	5141
Water Sat. Gas Base BTU	1380	5052
Ideal, Gross HV - Dry at 14.73 psia	1397.2	
Ideal, Gross HV - Wet	1372.8	
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1401	5129
Water Sat. Gas Base BTU	1377	5040
Ideal, Gross HV - Dry at 14.73 psia	1393.9	
Ideal, Gross HV - Wet	1369.6	

Comments: H2S Field Content 0 ppm
Mcf/day 11879

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

RED HILLS 32-5 FED COM CDP FLARE				
		11/28/2021	11/27/2021	
▶ Static	(PSI)	85	98	
Differential	(In H ₂ O)	0	0	
Gas Flowed	(MCF)	0.0	99.0	

1 hour

High line pressure

Gatherer had station compressor downtime that caused momentary flaring on 11/27

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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 66959

DEFINITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 66959
	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 66959

QUESTIONS

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	Action Number: 66959
	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	[fAPP2133337415] RED HILLS 32-5 FED COM

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 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	No
Is this considered a submission for a vent or flare 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 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	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	70
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	1
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.

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QUESTIONS, Page 2

Action 66959

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 66959
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/27/2021
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	1

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 Released: 99 Mcf Recovered: 0 Mcf Lost: 99 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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[320009] ENLINK MIDSTREAM OPERATING, LP
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	Gatherer Enlink had station compressor downtime that caused momentary flaring on 11/27.
Steps taken to limit the duration and magnitude of vent or flare	Cimarex's control room is trying to work with Enlink in order to be notified ahead of time of disruptions in it system.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Disruption was brief but as noted Cimarex's control room is trying to work Enlink to be alerted ahead of time.

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ACKNOWLEDGMENTS

Action 66959

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	Action Number: 66959
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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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	Action Number: 66959
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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.	12/14/2021