



Certificate of Analysis

Number: 6030-21020006-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Cimarex Energy
Cimarex Energy
7023 Norris Rd.
Carlsbad, NM 88220

Feb. 03, 2021

Station Name:	Vaca Draw 20-17 Fed 71H WH Allocation	Sampled By:	Victor Velazquez
Station Number:	NCW1471465	Sample Of:	Gas Spot
Station Location:	Cimarex	Sample Date:	01/29/2021 10:50
Sample Point:	Meter Run	Sample Conditions:	152 psig, @ 85 °F Ambient: 40 °F
Type of Sample:	Spot-Cylinder	Effective Date:	01/29/2021 10:50
Heat Trace Used:	N/A	Method:	GPA-2261M
Sampling Method:	Fill and Purge	Cylinder No:	5030-01135
Sampling Company:	SPL	Instrument:	6030_GC6 (Inficon GC-3000 Micro)
C6+ Group Properties:	60/30/10% - C6/C7/C8	Last Inst. Cal.:	02/01/2021 0:00 AM
		Analyzed:	02/03/2021 12:10:11 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	5.827
Nitrogen	2.457	2.43669	3.004		GPM TOTAL C3+	2.970
Methane	73.098	72.48778	51.176		GPM TOTAL iC5+	0.530
Carbon Dioxide	4.705	4.66563	9.036			
Ethane	10.733	10.64351	14.084	2.857		
Propane	5.820	5.77182	11.201	1.596		
Iso-butane	0.757	0.75019	1.919	0.246		
n-Butane	1.906	1.88969	4.834	0.598		
Iso-pentane	0.434	0.42988	1.365	0.158		
n-Pentane	0.449	0.44505	1.413	0.162		
Hexanes Plus	0.484	0.47976	1.968	0.210		
	100.843	100.00000	100.000	5.827		



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		Analyzed:	02/03/2021 12:10:11 by KNF

Physical Properties	Total	C6+
Relative Density Real Gas	0.7873	3.2176
Calculated Molecular Weight	22.72	93.19
Compressibility Factor	0.9962	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1219	5141
Water Sat. Gas Base BTU	1198	5052
Ideal, Gross HV - Dry at 14.73 psia	1214.2	
Ideal, Gross HV - Wet	1193.1	
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1216	5129
Water Sat. Gas Base BTU	1195	5040
Ideal, Gross HV - Dry at 14.73 psia	1211.4	
Ideal, Gross HV - Wet	1190.3	

Comments: H2S Field Content 0 ppm
Mcf/day 3412

Hydrocarbon Laboratory Manager

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

VACA DRAW 20-17 FED 5H-73H CDP FLARE 1		Digital (gas)						17092
		3/6/2022	3/5/2022	3/4/2022	3/3/2022	3/2/2022	3/1/2022	2/28/2022
▶ Static	(PSI)	111	122	122	113	118	141	103
Differential	(In H2O)	0	0	0	0	0	0	0
Gas Flowed	(MCF)	0.0	0.0	0.0	2.0	116.0	9.0	58.0

VACA DRAW 20-17 FED 5H-73H CDP FLARE 2		Digital (gas)						20226
		3/6/2022	3/5/2022	3/4/2022	3/3/2022	3/2/2022	3/1/2022	2/28/2022
Static	(PSI)	80	80	80	80	80	80	80
Differential	(In H2O)	0	0	0	0	0	0	0
Gas Flowed	(MCF)	0.0	0.0	0.0	2.0	117.0	79.0	29.0

Enlink control valves set to low

5 hours

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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

DEFINITIONS

Action 90739

DEFINITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 90739
	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: <ul style="list-style-type: none">• 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 90739

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 90739
	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	[fAPP2126033457] VACA DRAW 20-17 FED 5H-73H

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	73
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	5
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.

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QUESTIONS, Page 2

Action 90739

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 90739
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/27/2021
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	5

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 Separator Natural Gas Flared Released: 408 Mcf Recovered: 0 Mcf Lost: 408 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	Highline pressure attributed to Enlink system. Unexpected and field team and control room were not alerted.
Steps taken to limit the duration and magnitude of vent or flare	intermittent flaring lasted 3 days for a total of 5 hours. Field team was prepared to do what ever it took to limit flaring scope and duration.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Enlink system is back and running with no further disruptions.

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ACKNOWLEDGMENTS

Action 90739

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 90739
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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

Action 90739

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	Action Number: 90739
	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.	3/16/2022