



## Certificate of Analysis

Number: 6030-21010256-002A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Cimarex 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/C8

Sampled 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	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
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	
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia &amp; 60°F</b>		
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 HP FLARE				Digital (gas)		20871			
		3/2022	1/17/2022	1/16/2022	1/15/2022	1/14/2022	1/13/2022	1/12/2022	1/11/2022
▶ Static	(PSI)	15	15	15	15	15	15	15	15
	Differential (In H2O)	0	0	0	0	0	0	0	0
	Gas Flowed (MCF)	0.0	8.0	0.0	4.0	1.0	0.0	36.0	51.0

6 hours

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**District IV**  
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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 75464

DEFINITIONS

Operator:  CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID:  215099
	Action Number:  75464
	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"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 75464

**QUESTIONS**

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 75464
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<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	[fAPP2133337415] RED HILLS 32-5 FED COM

<b>Determination of Reporting Requirements</b>	
<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	No
Is this considered a submission for a vent or flare event	Yes, minor 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 <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
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	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 75464

QUESTIONS (continued)

Operator:  CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID:  215099
	Action Number:  75464
	Action Type:  [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/11/2022
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	6

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   Released: 51 Mcf   Recovered: 0 Mcf   Lost: 51 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	VRU Malfunction caused small flaring event.
Steps taken to limit the duration and magnitude of vent or flare	Field Team repaired VRU and brought it back online.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	VRU back online and no further incidents have occurred concerning VRU

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ACKNOWLEDGMENTS

Action 75464

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Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 75464
	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 <b>complete</b> 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 75464

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	Action Number: 75464
	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.	1/26/2022