

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

Red Hills 32-5 FC CDP Check

NCP1471389 Cimarex Meter Run

Station Location: Sample Point: Type of Sample: Spot-Cylinder Heat Trace Used: N/A

Fill and Purge Sampling Method:

Station Name:

Station Number:

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

Feb. 01, 2021

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		



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 Sampled By: Mike West NCP1471389 Station Number: Sample Of: Gas Spot Station Location: Cimarex Sample Date: 01/27/2021

Sample Point: Meter Run Sample Conditions: 75 psig, @ 112 °F Ambient: 60 °F

Type of Sample: Spot-Cylinder Effective Date: 01/27/2021 Heat Trace Used: N/A Method: GPA-2261M Sampling Method: Fill and Purge Cylinder No: 1111-003905

Sampling Company: SPL Instrument: 70104124 (Inficon GC-MicroFusion)

C6+ Group Properties: 60/30/10% - C6/C7/C8 Last Inst. Cal.: 02/01/2021 0:00 AM

> Analyzed: 02/01/2021 12:46:07 by PGS

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 ft ³ @ 14.73 ps	ia & 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 ft ³ @ 14.696 p	sia & 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		

Comments: H2S Field Content 0 ppm

Mcf/day 11879

Hydrocarbon Laboratory Manager

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality **Quality Assurance:**

assurance, unless otherwise stated.

TRED HILLS 32-5 FED COM CDP FLARE		Digital (gas)		20895	_	_	_	_	_			
		6/9/2021	6/8/2021	6/7/2021	6/6/2021	6/5/2021	6/4/2021	6/3/2021	6/2/2021	6/1/2021	5/31/2021	5/30/20
atic	(PSI)		79	77	74	74	73	95	RE	D HILLS 32-5 FED (COM CDP FLARE	_ ^
fferential	(In H2O		0	0	0	0	0	0	Comments (F	5) 6/3/202	1	
as Flowed	(MCF)		0.0	0.0	0.0	0.0	0.0	95.0	enlink com	pressor down	^	
eterFlareReason								CURTAILMENT - G				OK
Comments (F5)								enlink compressor		IL		

<u>District I</u> 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 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 31083

QUESTIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	31083
	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 addional 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 vi	nting or flaring that is or may be a major or minor release under			
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 occuring at a facility that does not have an Facility ID (f#) yet.			
Facility or Site Name RED HILLS 32-5 COM 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	70			
Nitrogen (N2) percentage, if greater than one percent	1			
Hydrogen Sulfide (H2S) PPM, rounded up	0			
Carbon Dioxide (C02) percentage, if greater than one percent	1			
Oxygen (02) percentage, if greater than one percent	0			
If you are venting and/or flaring because of Pipeline Specification, please provide the required specification.	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 Sufide (H2S) PPM quality requirement	Not answered.			
Carbon Dioxide (C02) percentage quality requirement	Not answered.			
Oxygen (02) percentage quality requirement	Not answered.			

Date(s) and Time(s)		
Date venting or flaring was discovered or commenced	06/04/2021	
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	06/03/2021	
Time venting or flaring was terminated	12:00 PM	
Total duration of venting or flaring in hours, if venting or flaring has terminated	1	
Longest duration of cumulative hours within any 24-hour period 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 Spilled: 95 Mcf Recovered: 0 Mcf Lost: 95 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	Third party compressor Enlink went down on this facility; which forced us to go to high pressure flare. We have communicated the urgency to the Enlink and they are taking measures to improve compressor performance.
Steps taken to limit the duration and magnitude of venting or flaring	Field team responded to event as soon as they became aware.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Better communication with Enlink the Gas gatherer to plan for such events.

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

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**

CONDITIONS

Action 31083

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	31083
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

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.	6/9/2021