

Certificate of Analysis

Number: 6030-21050044-002A

Artesia Laboratory 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

Chris Prater Cimarex Energy Co. 7101 Norris Road Carlsbad, NM 88220

Station Name:

Black River 25 Fed Com 1H-2H CDP Check Sampled By: J.Thon

Station Number: NCP0001126 Sample Of: Gas Spot Station Location: Cimarex Sample Date: 05/06/2021 01:45

Sample Point: Meter Run Sample Conditions: 66.08 psig, @ 205.66 °F Ambient: 74 °F

Type of Sample: Spot-Cylinder Effective Date: 05/06/2021 01:45 Heat Trace Used: N/A Method: GPA-2261M

Sampling Method: Fill and Purge Cylinder No: 510

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

C6+ Group Properties: 60/30/10% - C6/C7/C8 Last Inst. Cal.: 05/03/2021 0:00 AM

Analyzed: 05/07/2021 07:57:17 by EJR

May 07, 2021

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	7.036
Nitrogen	1.086	1.09166	1.343		GPM TOTAL C3+	3.872
Methane	74.328	74.68785	52.628		GPM TOTAL iC5+	1.058
Carbon Dioxide	0.121	0.12179	0.235			
Ethane	11.725	11.78146	15.560	3.164		
Propane	6.624	6.65627	12.892	1.841		
Iso-butane	0.850	0.85391	2.180	0.281		
n-Butane	2.176	2.18684	5.583	0.692		
Iso-pentane	0.565	0.56743	1.798	0.208		
n-Pentane	0.669	0.67234	2.131	0.245		
Hexanes Plus	_1.374	1.38045	5.650	0.605		
	99.518	100.00000	100.000	7.036		



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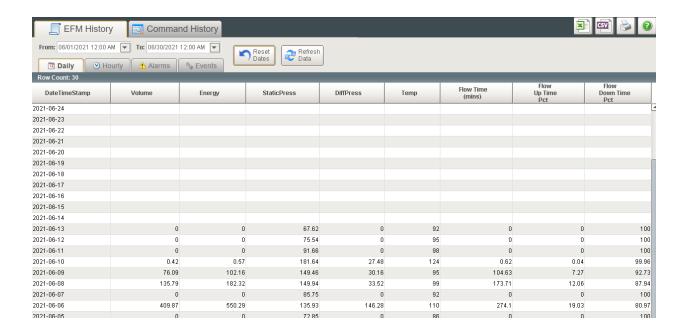
Analyzed: 05/07/2021 07:57:17 by EJR

Physical Properties	Total	C6+
Relative Density Real Gas	0.7892	3.2176
Calculated Molecular Weight	22.77	93.19
Compressibility Factor	0.9957	
GPA 2172 Calculation:		
Calculated Gross BTU per ft ³ @ 14.73	psia & 60°F	
Real Gas Dry BTU	1359	5141
Water Sat. Gas Base BTU	1336	5052
Ideal, Gross HV - Dry at 14.73 psia	1353.0	
Ideal, Gross HV - Wet	1329.5	
Calculated Gross BTU per ft ³ @ 14.69	6 psia & 60°F	
Real Gas Dry BTU	1356	5129
Water Sat. Gas Base BTU	1333	5040
Ideal, Gross HV - Dry at 14.73 psia	1349.9	
Ideal, Gross HV - Wet	1326.3	

Comments: H2S Field Content 0 ppm

Report generated by: Eric Ramirez

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



<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 31832

QUESTIONS

Operator:	OGRID:
CIMAREX ENERGY CO.	215099
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	31832
	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 venting 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 BLACK RIVER 25 FEDERAL 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	74	
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	0	
Oxygen (02) 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 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	06/09/2021
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	06/10/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	5
Longest duration of cumulative hours within any 24-hour period during this event	3

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: 212 Mcf Recovered: 0 Mcf Lost: 212 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	Midstream compressor issues due to overheating due to summer heat, they were uncontrolled and unpredictable.
Steps taken to limit the duration and magnitude of venting or flaring	There's nothing really that production can do on our end to improve our midstream group's compressor runtime, but we are trying to do what we can with our alarming system, etc to try and shut the wells in if midstream makes us flare for too long.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	hot weather has given us more issues with our compression. We are actively working the get it fixed, but we still have the occasional upset. Most of this flaring is immediately when the compressor shuts down or right after kicking the wells off. We hope to get these compression issues resolved soon.

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Midland, TX 79701	31832
	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.	6/14/2021