



Certificate of Analysis

Number: 6030-20120086-012A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Jan. 07, 2021

Station Name: White City 8-3 Alloc
Station Number: NCW0001012
Station Location: Cimarex
Sample Point: Meter Run
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: Cimarex
C6+ Group Properties: 60/30/10% - C6/C7/C8

Sampled By: James Hill
Sample Of: Gas Spot
Sample Date: 12/10/2020 09:37
Sample Conditions: 58.6 psig, @ 66.1 °F Ambient: 54 °F
Effective Date: 12/10/2020 09:37
Method: GPA-2261M
Cylinder No: 1111-001231
Instrument: 70104124 (Inficon GC-MicroFusion)
Last Inst. Cal.: 12/07/2020 0:00 AM
Analyzed: 12/11/2020 12:57:52 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+	5.800
Nitrogen	1.646	1.67747	2.236		GPM TOTAL C3+	2.511
Methane	76.010	77.45816	59.120		GPM TOTAL iC5+	0.379
Carbon Dioxide	0.255	0.26006	0.545			
Ethane	12.030	12.25926	17.539	3.289		
Propane	5.178	5.27698	11.071	1.459		
Iso-butane	0.609	0.62030	1.715	0.204		
n-Butane	1.456	1.48395	4.104	0.469		
Iso-pentane	0.280	0.28513	0.979	0.105		
n-Pentane	0.313	0.31856	1.094	0.116		
Hexanes Plus	0.353	0.36013	1.597	0.158		
	98.130	100.00000	100.000	5.800		



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Physical Properties	Total	C6+
Relative Density Real Gas	0.7280	3.2176
Calculated Molecular Weight	21.02	93.19
Compressibility Factor	0.9965	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1251	5141
Water Sat. Gas Base BTU	1229	5052
Ideal, Gross HV - Dry at 14.73 psia	1246.2	
Ideal, Gross HV - Wet	1224.5	
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1248	5129
Water Sat. Gas Base BTU	1226	5040
Ideal, Gross HV - Dry at 14.73 psia	1243.3	
Ideal, Gross HV - Wet	1221.6	

Comments: H2S Field Content 0 ppm
Mcf/day 653.0

Hydrocarbon Laboratory Manager

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

Device Details Search Results - WHITE CITY 6-24 PCARE

Tags Properties Alarms Alerting Trending History Notes

EFM History Command History

From: 05/01/2021 12:00 AM To: 05/31/2021 12:00 AM

Reset Dates Refresh Data

Daily Hourly Alarms Events

Row Count: 31

DateTimeStamp	Volume	Energy	StaticPress	DiffPress	Temp	Flow Time (mins)	Flow Up Time Pct	Flow Down Time Pct
121-05-31								
121-05-30								
121-05-29								
121-05-28								
121-05-27								
121-05-26	0	0	61.97	0	90	0	0	100
121-05-25	87.97	109.81	138.29	43.89	100	135.53	9.41	90.59
121-05-24	0	0	70.95	0	87	0	0	100
121-05-23	0	0	60.13	0	87	0	0	100
121-05-22	0	0	68.52	0	83	0	0	100
121-05-21	0	0	68.96	0	88	0	0	100
121-05-20	0	0	59.33	0	88	0	0	100
121-05-19	0	0	59.4	0	85	0	0	100
121-05-18	0	0	59.18	0	82	0	0	100
121-05-17	0	0	60.56	0	84	0	0	100
121-05-16	0	0	62.01	0	86	0	0	100
121-05-15	0	0	59.37	0	80	0	0	100

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

District IV

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 29753

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 29753
	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 additional 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 19.13.297 NMAC	
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 occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	WHITE CITY 8 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	76
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	0
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.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	05/25/2021
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	05/26/2021
Time venting or flaring was terminated	02:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	2
Longest duration of cumulative hours within any 24-hour period during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Gas Compressor Station Natural Gas Flared Spilled: 88 Mcf Recovered: 0 Mcf Lost: 88 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 went down.
Steps taken to limit the duration and magnitude of venting or flaring	Coordinate to repair midstream compressor and bring it back online ASAP.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Coordinate with midstream provider to investigate cause of compressor malfunction and ensure it does not go down again.

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CONDITIONS

Action 29753

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Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 29753
	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.	5/30/2021