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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

5517G	NCP1471303	Hallertau 5 Fed 8H CDP Check	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2020032300	1037	J Thorn - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
May 12, 2020 12:40	May 12, 2020 12:40	May 15, 2020 14:51	May 18, 2020
Date Sampled	Date Effective	Date Received	Date Reported
86.00	2,082.00	Torrance	671 @ 153
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Cimarex Energy	NG		
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	0.7730	0.773	
CO2 (CO2)	0.1070	0.107	
Methane (C1)	76.5250	76.526	
Ethane (C2)	11.6560	11.656	3.1160
Propane (C3)	5.9940	5.994	1.6510
I-Butane (IC4)	0.9270	0.927	0.3030
N-Butane (NC4)	2.1760	2.176	0.6860
I-Pentane (IC5)	0.5220	0.522	0.1910
N-Pentane (NC5)	0.5990	0.599	0.2170
Hexanes Plus (C6+)	0.7210	0.721	0.3130
TOTAL	100.0000	100.0010	6.4770

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	May 18, 2020

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 °F		14.73 PSI @ 60.00 °F	
Dry	Saturated	Dry	Saturated
1,317.6	1,296.1	1,320.6	1,299.1

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.7614	0.7587
Molecular Weight	
21.9723	

C6+ Group Properties		
Assumed Composition		
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%

Field H2S
0 PPM

PROTREND STATUS: Passed By Validator on May 19, 2020
DATA SOURCE: Imported

PASSED BY VALIDATOR REASON:
Close enough to be considered reasonable.

VALIDATOR:
Dustin Armstrong

VALIDATOR COMMENTS:
OK

Device Details Search Results - HALLERTAU 5 BATTERY FLARE

Tags Properties Alarms Alerting Trending History Notes

EFM History Command History

From: 06/01/2021 12:00 AM To: 06/30/2021 12:00 AM

Reset Dates Refresh Data

Daily Hourly Alarms Events

Row Count: 30

DateTimeStamp	Volume	Energy	StaticPress	DiffPress	Temp	Flow Time (mins)	Flow Up Time Pct	Flow Down Time Pct
2021-06-23								
2021-06-22								
2021-06-21								
2021-06-20								
2021-06-19								
2021-06-18								
2021-06-17								
2021-06-16								
2021-06-15								
2021-06-14								
2021-06-13								
2021-06-12								
2021-06-11								
2021-06-10								
2021-06-09								
2021-06-08	6.56	8.66	136.1	2.92	113	8.64	0.6	99.4
2021-06-07	339.56	448.44	136.22	3.42	109	420.83	29.22	70.78
2021-06-06	0	0	57.33	0	95	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 31137

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 31137
	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 19.13.29.7 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	HALLERTAU 5 FED BATTERY 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	77
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	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	06/08/2021
Time venting or flaring was discovered or commenced	07:30 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/08/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	7
Longest duration of cumulative hours within any 24-hour period during this event	7

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: 340 Mcf Recovered: 0 Mcf Lost: 340 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

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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 DCP went down on this facility; which forced us to go to high pressure flare. We have communicated the urgency to the DCP
Steps taken to limit the duration and magnitude of venting or flaring	Both Marketing and field team have communicated the urgency of the matter to DCP, the gas gatherer.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Better communication with DCP the Gas gatherer to plan for such events.

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CONDITIONS

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	Action Number: 31137
	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