



## C6+ Gas Analysis Report

5745G	NCP1471308	Mescalero 21 Fed 1H CDP CHK	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2020033422	1416	J McPherson - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Jul 14, 2020 10:00	Jul 14, 2020 10:00	Jul 17, 2020 11:16	Jul 17, 2020
Date Sampled	Date Effective	Date Received	Date Reported
95.00	Torrance	20 @ 108	
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)	4.4320	4.43169	
CO2 (CO2)	0.1170	0.11688	
Methane (C1)	61.5420	61.54228	
Ethane (C2)	16.2860	16.2861	4.3540
Propane (C3)	11.3300	11.33045	3.1210
I-Butane (IC4)	0.9890	0.98873	0.3240
N-Butane (NC4)	3.2070	3.20704	1.0110
I-Pentane (IC5)	0.6070	0.60665	0.2220
N-Pentane (NC5)	0.6150	0.61469	0.2230
Hexanes Plus (C6+)	0.8750	0.87548	0.3800
TOTAL	100.0000	100.0000	9.6350

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:	Jul 14, 2020

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 °F		14.73 PSI @ 60.00 °F	
Dry	Saturated	Dry	Saturated
1,430.5	1,407.0000	1,433.8	1,410.3

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.8741	0.8700
Molecular Weight	
25.1949	

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

Field H2S
0 PPM

## PROTREND STATUS:

Passed By Validator on Jul 17, 2020

## DATA SOURCE:

Imported

## PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

## VALIDATOR:

Torrance Galvan

## VALIDATOR COMMENTS:

OK

Device Details   Search Results - Mescalero Ridge 21 Federal 1H Flare							
<div>  EFM History            Command History         </div>							
From: 08/01/2021 12:00 AM  To: 08/31/2021 12:00 AM <div> </div>							
<div>  Daily            Hourly            Alarms            Events         </div>							
Row Count: 31							
DateTimeStamp	Volume	Energy	StaticPress	DiffPress	Temp	FI	
2021-08-31	0	0	82.21	0	85		
2021-08-30	0	0	90.93	0	84		
2021-08-29	0	0	86.11	0	83		
2021-08-28	0	0	82.43	0	84		
2021-08-27	0	0	96.72	0	84		
2021-08-26	0	0	96.9	0	83		
2021-08-25	0	0	96.84	0	85		
2021-08-24	0	0	96.45	0	85		
2021-08-23	75.02	111.74	100.9	3.16	72		
2021-08-22	197.37	293.96	100.83	3.25	85		
2021-08-21	206.38	307.38	100.82	3.54	81		
2021-08-20	222.37	331.2	100.93	4.31	89		
2021-08-19	103.86	154.69	101.01	6.9	93		
2021-08-18	115.76	172.41	100.87	2.69	81		

**District I**

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**District II**

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Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

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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 46264

**QUESTIONS**

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 46264
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	Not answered.
Incident Facility	[fAPP2124555308] MESCALERO RIDGE 21 FEDERAL 1H

<b>Determination of Reporting Requirements</b>	
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 and/or flaring caused by an emergency or malfunction	Yes
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a notification of a major venting and/or flaring	Yes, major venting and/or flaring of natural gas.
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.	
Was there or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/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
Was the venting and/or flaring 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>	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	62
Nitrogen (N2) percentage, if greater than one percent	4
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.

<b>Date(s) and Time(s)</b>	
Date venting and/or flaring was discovered or commenced	08/19/2021
Time venting and/or flaring was discovered or commenced	07:15 AM
Time venting and/or flaring was terminated	12:00 PM
Cumulative hours during this event	58

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.

Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Gas Compressor Station   Natural Gas Flared   Released: 920 Mcf   Recovered: 0 Mcf   Lost: 920 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.

<b>Venting or Flaring Resulting from Downstream Activity</b>	
Was or is this venting and/or flaring a result of downstream activity	Yes
Date notified of downstream activity requiring this venting and/or flaring	08/10/2021
Time notified of downstream activity requiring this venting and/or flaring	05:18 PM

<b>Steps and Actions to Prevent Waste</b>	
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	flaring due to 3rd party sales line was shut-in.
Steps taken to limit the duration and magnitude of venting and/or flaring	Cimarex responded to flaring event. Duration was long as Cimarex tried to control magnitude of flaring.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Cimarex is coordinating with third party gas gatherer on mitigating such events.

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CONDITIONS  
  
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Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 46264
	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.	9/2/2021