



**LABORATORY SERVICES**  
Natural Gas Analysis

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575.397.3713 2609 W Marland Hobbs NM 88240

For: Cimarex Energy  
Attention: Chris Prater  
600 N. Marienfeld, Suite 600  
Midland, Texas 79701

Sample: Sta# NCP0023025  
Identification: Crescent Hale 12 Fed. 1H  
Company: Cimarex Energy  
Lease:  
Plant:

Sample Data: Sample Date: 5/18/2018  
Analysis Date: 5/23/2018  
Sample Temp: 109 F  
Sample Press.: 60.5 PSIA

Sampled by: G. Hammonds  
Analysis by: V. McDaniel  
Atmos Temp: 83 F  
Sample Time: 10:47 AM

H2S = 0.2 PPM

Press. Base: 14.73

#### Component Analysis

		Mol Percent	GPM Real	GPM Ideal
Hydrogen Sulfide	H2S			
Nitrogen	N2	2.672		
Methane	C1	74.455		
Carbon Dioxide	CO2	0.175		
Ethane	C2	11.595	3.100	3.093
Propane	C3	6.089	1.677	1.673
I-Butane	IC4	0.743	0.243	0.243
N-Butane	NC4	1.880	0.593	0.591
I-Pentane	IC5	0.538	0.195	0.196
N-Pentane	NC5	0.556	0.241	0.201
Hexanes Plus	C6+	<u>1.297</u>	<u>0.563</u>	<u>0.561</u>
		100.000	6.612	6.558

REAL BTU/CU.FT.

At 14.65 1306.7 Dry  
1285.3 Wet

At 14.696 1310.8 Dry  
1289.4 Wet

At 14.73 1313.9 Dry  
1292.3 Wet

Specific Gravity:

Calculated  $\frac{(\text{Real})}{(\text{Ideal})} = \frac{0.779}{0.776}$

Remarks:

CRESCENT HALE 12 FEDERAL CDP FLARE		Digital (gas)					8987
		6/16/2021	6/15/2021	6/14/2021	6/13/2021	6/12/2021	6/11/2021
► Static	(PSI)	46	46	47	54	63	5
Differential	(In H2O)		0	0	0	0	
Gas Flowed	(MCF)		0.0	0.0	61.0	93.0	0.
MeterFlareReason					CURTAILMENT - G	CURTAILMENT - G	
Comments (F5)					hi lo shut opened b	hi lo shut opened b	

**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 32229

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 32229
	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	Yes
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	CRESCENT HALE 12 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	3
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	06/16/2021
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	06/13/2021
Time venting or flaring was terminated	02:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	17
Longest duration of cumulative hours within any 24-hour period during this event	17

**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: 154 Mcf   Recovered: 0 Mcf   Lost: 154 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	We had the compressor go down on this facility; which forced us to go to high pressure flare. We have communicated the urgency to the compressor company 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 by shut opened back up.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Dialogue with compressor company to take measures to improve compressor performance.

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CONDITIONS  
  
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	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.	6/30/2021