



**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. Mariefeld, Suite 600  
Midland, Texas 79701

Sample: Sta# NCW9775259  
Identification: Laguna Grande 7H Alloc  
Company: Cimarex Energy  
Lease:  
Plant:

Sample Data: Sample Date: 7/27/2018  
Analysis Date: 8/7/2018  
Sample Temp: 90 F  
Sample Press.: 100 PSIA

Sampled by: S. Galloway  
Analysis by: V. McDaniel  
Atmos Temp: 80 F  
Sample Time:

H2S =

Press. Base: 14.73

#### Component Analysis

		Mol Percent	GPM Real	GPM Ideal
Hydrogen Sulfide	H2S			
Nitrogen	N2	1.502		
Methane	C1	70.672		
Carbon Dioxide	CO2	0.128		
Ethane	C2	13.858	3.705	3.697
Propane	C3	7.714	2.125	2.120
I-Butane	IC4	1.010	0.330	0.330
N-Butane	NC4	2.563	0.808	0.806
I-Pentane	IC5	0.593	0.215	0.216
N-Pentane	NC5	0.680	0.295	0.246
Hexanes Plus	C6+	<u>1.280</u>	<u>0.555</u>	<u>0.554</u>
		100.000	8.033	7.969


REAL BTU/CU.FT.

At 14.65	1386.7 Dry
	1364.0 Wet
At 14.696	1391.1 Dry
	1368.3 Wet
At 14.73	1394.3 Dry
	1371.4 Wet

Specific Gravity:

Calculated	(Real)	0.817
	(Ideal)	0.813

Remarks:

 LAGUNA GRANDE UNIT 7H FLARE		Digital (gas)				
		3/2021	10/22/2021	10/21/2021	10/20/2021	10/19/2021
Static	(PSI)	129	125	125	100	122
Differential	(In H2O)	0	0	0	0	0
Gas Flowed	(MCF)	0.0	0.0	1.0	32.0	72.0

3 Hours

**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 59931

**QUESTIONS**

Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 59931
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS****Prerequisites**

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	[fAPP2130652784] LAGUNA GRANDE UNIT 7H

**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 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	No
Is this considered a submission for a venting and/or flaring event	Yes, minor 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

**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	71
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 and/or flaring was discovered or commenced	10/19/2021
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	3

**Measured or Estimated Volume of Vented or Flared Natural Gas**

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Liquids Unloading   Well   Natural Gas Flared   Released: 105 Mcf   Recovered: 0 Mcf   Lost: 105 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.

**Venting or Flaring Resulting from Downstream Activity**

Was or is this venting and/or flaring a result of downstream activity	Not answered.
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/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	The well has been loaded up for 4 days and will not kick off. We tried to kick it off to flare without success. Issue has been resolved now.
Steps taken to limit the duration and magnitude of venting and/or flaring	Cimarex rigged up and pull the well.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Wells unloading is out of Cimarex control but field team did what it could to mitigate flaring event.

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CONDITIONS  
  
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Operator: CIMAREX ENERGY CO. OF COLORADO 600 N. Marienfeld Street Midland, TX 79701	OGRID: 162683
	Action Number: 59931
	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.	11/3/2021