



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# NCP1471289
Identification: West Grama Ridge 8-5 CDP
Company: Cimarex Energy
Lease:
Plant:

Sample Data: Sample Date: 1/11/2018
Analysis Date: 1/12/2018
Sample Temp: 76 F
Sample Press.: 72 PSIA

Sampled by: B. Eicher
Analysis by: V. McDaniel
Atmos Temp: 42 F
Sample Time: 9:00 AM

H2S = 0.2 PPM

Press. Base: 14.73

Component Analysis

		Mol Percent	GPM Real	GPM Ideal
Hydrogen Sulfide	H2S			
Nitrogen	N2	1.754		
Methane	C1	62.336		
Carbon Dioxide	CO2	0.373		
Ethane	C2	14.511	3.880	3.871
Propane	C3	8.990	2.476	2.470
I-Butane	IC4	1.277	0.418	0.417
N-Butane	NC4	3.574	1.126	1.124
I-Pentane	IC5	1.123	0.407	0.410
N-Pentane	NC5	1.380	0.599	0.499
Hexanes Plus	C6+	<u>4.682</u>	<u>2.031</u>	<u>2.026</u>
		100.000	10.937	10.817

REAL BTU/CU.FT.

At 14.65 1611.7 Dry
1585.1 Wet

At 14.696 1616.8 Dry
1590.1 Wet

At 14.73 1620.5 Dry
1593.8 Wet

Specific Gravity:

Calculated $\frac{(\text{Real})}{(\text{Ideal})} = \frac{0.973}{0.967}$

Remarks:

WEST GRAMA RIDGE 8-5 FED CDP FLARE		Digital (gas)				
		6/11/2021	6/10/2021	6/9/2021	6/8/2021	6/7/2021
▶ Static	(PSI)	83	84	83	86	
Differential	(In H2O)	0	0	0	0	
Gas Flowed	(MCF)	0.0	128.0	225.0	0.0	
MeterFlareReason			CURTAILMENT - G	CURTAILMENT - G		
Comments (F5)			high line pressure	high line pressure		

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
6/1-06-24								
6/1-06-23								
6/1-06-22								
6/1-06-21								
6/1-06-20								
6/1-06-19								
6/1-06-18								
6/1-06-17								
6/1-06-16								
6/1-06-15								
6/1-06-14								
6/1-06-13								
6/1-06-12								
6/1-06-11								
6/1-06-10	0	0	79.73	0	95	0	0	100
6/1-06-09	127.74	176	103.69	33.23	110	116.88	8.12	91.88
6/1-06-08	225.4	310.55	104.74	31.39	93	208.82	14.5	85.5
6/1-06-07	0	0	79.02	0	90	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 31520

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 31520
	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	WEST GRAMA RIDGE 8-5 FED CDP
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	62
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	06/09/2021
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	06/10/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	6
Longest duration of cumulative hours within any 24-hour period during this event	3

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: 353 Mcf Recovered: 0 Mcf Lost: 353 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 issues due to overheating due to summer heat, they were uncontrolled and unpredictable.
Steps taken to limit the duration and magnitude of venting or flaring	hot weather has given us more issues with our compression. We are actively working the get it fixed, but we still have the occasional upset. Most of this flaring is immediately when the compressor shuts down or right after kicking the wells off. We hope to get these compression issues resolved soon.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	we are trying to do what we can with our alarming system, etc to try and shut the wells in if midstream makes us flare for too long.

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CONDITIONS

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	Action Number: 31520
	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.	6/11/2021