



LABORATORY SERVICES
Natural Gas Analysis

www.permianls.com

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# NCW9775133
Identification: Hackberry 23 Fed. 1H
Company: Cimarex Energy
Lease:
Plant:

Sample Data: Sample Date: 4/27/2018
Analysis Date: 5/1/2018
Sample Temp: 90.5 F
Sample Press.: 55.7 PSIA

Sampled by: G. Hammonds
Analysis by: V. McDaniel
Atmos Temp: 64 F
Sample Time: 11:20 AM

H2S = 0.1 PPM

Press. Base: 14.73

Component Analysis

		Mol Percent	GPM Real	GPM Ideal
Hydrogen Sulfide	H2S			
Nitrogen	N2	3.053		
Methane	C1	74.731		
Carbon Dioxide	CO2	0.146		
Ethane	C2	11.214	2.998	2.991
Propane	C3	6.085	1.676	1.672
I-Butane	IC4	0.782	0.256	0.255
N-Butane	NC4	1.963	0.619	0.617
I-Pentane	IC5	0.498	0.180	0.182
N-Pentane	NC5	0.495	0.215	0.179
Hexanes Plus	C6+	<u>1.033</u>	<u>0.448</u>	<u>0.447</u>
		100.000	6.392	6.343

REAL BTU/CU.FT.

At 14.65 1289.0 Dry
1267.9 Wet

At 14.696 1293.1 Dry
1271.9 Wet

At 14.73 1296.1 Dry
1274.9 Wet

Specific Gravity:

Calculated $\frac{(\text{Real})}{(\text{Ideal})} = \frac{0.770}{0.767}$

Remarks:

HACKBERRY 23 FEDERAL 1H,2H,3H FLARE		Digital (gas)					9466
		10/24/2021	10/23/2021	10/22/2021	10/21/2021	10/20/2021	10/19/2021
▶ Static	(PSI)	42	60	50	50	56	148
Differential	(In H ₂ O)	0	0	0	0	0	0
Gas Flowed	(MCF)	0.0	0.0	0.0	0.0	0.0	51.0
Max Flow Rate							SUSTAINMENT

1 hour

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 59976

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 59976
	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	[fAPP2130752016] HACKBERRY 23 FEDERAL 1H,2H,3H

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	74
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	1
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	1

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: Equipment Failure Other (Specify) Natural Gas Flared Released: 51 Mcf Recovered: 0 Mcf Lost: 51 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	HiLo on the Separator shut in the gas line temporarily on the 18th, sending some gas to flare. The separator has been checked out and the issue remediated.
Steps taken to limit the duration and magnitude of venting and/or flaring	As noted separator has been fixed.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Separator has been checked out and gas line has been turned on, issue has been remediated.

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CONDITIONS

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	Action Number: 59976
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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