



C6+ Gas Analysis Report

9943G	NCW0001156	Liverboat 12-1 WOMD FC 1H WH Allo	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2021041321	0461	J Thorn - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Apr 22, 2021 10:50	Apr 22, 2021 10:50	May 5, 2021 11:11	May 6, 2021
Date Sampled	Date Effective	Date Received	Date Reported
57.00	2,322.52	Torrance	96 @ 96
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)	1.0570	1.05739	
CO2 (CO2)	0.0690	0.06907	
Methane (C1)	77.4000	77.39957	
Ethane (C2)	11.2140	11.21445	2.9980
Propane (C3)	5.7010	5.70076	1.5700
I-Butane (IC4)	0.8420	0.84187	0.2750
N-Butane (NC4)	2.0190	2.01877	0.6360
I-Pentane (IC5)	0.4110	0.41093	0.1500
N-Pentane (NC5)	0.4820	0.48245	0.1750
Hexanes Plus (C6+)	0.8050	0.80474	0.3490
TOTAL	100.0000	100.0000	6.1530

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:	May 3, 2021

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,298.4	1,277.3	1,301.4	1,280.3

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.7512	0.7486
Molecular Weight	
21.6865	

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

Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on May 7, 2021

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

Previous sample was suspect

VALIDATOR:

Dustin Armstrong

VALIDATOR COMMENTS:

OK

RIVERBOAT 12-1 FED COM CDP FLARE			Digital (gas)			
			6/25/2021	6/24/2021	6/23/2021	6/22/2021
▶ Static	(PSI)	2	98	89	61	70
Differential	(In H2O)	0	0	0	0	0
Gas Flowed	(MCF)	0	0.0	1.0	70.0	0.0
MeterFlareReason					CURTAILMENT - G	
Comments (F5)					sendero shut down	

Effective Date	FacilityID	Facility Name or MeterName	Meter Count	Flow Duration (Hours)	FlowCal Vol (mcf)	ProCount Vol (mcf)
6/22/2021	4300	RIVERBOAT 12-1 W0PA & WOMD FED COM 1	1	1.34	70.19	70

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 33603

QUESTIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 33603
	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	RIVERBOAT 12-1 FED COM 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	77
Nitrogen (N2) percentage, if greater than one percent	1
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	06/23/2021
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	06/23/2021
Time venting or flaring was terminated	01:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	1
Longest duration of cumulative hours within any 24-hour period during this event	1

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 Pipeline (Any) Natural Gas Flared Spilled: 70 Mcf Recovered: 0 Mcf Lost: 70 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	third party sendero system went down.
Steps taken to limit the duration and magnitude of venting or flaring	Shut in wells as they fix sendero gathering system.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Cimarex will continue to ask Sendero for appropriate notification of gathering system maintenance.

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CONDITIONS

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	Action Number: 33603
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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.	7/8/2021