

Longfellow Energy LP

Elvis State 29A

September 2021 Revision #0

**TABLE 6-6**  
**GAS ANALYSIS**  
**LONGFELLOW ENERGY LP**  
**ELVIS STATE 29A**  
**EDDY COUNTY, NEW MEXICO**

Component	Mole %	Molecular Weight	lb/100 mole	Wt % Total	Wt % Hydrocarbon	Wt % VOC
H <sub>2</sub> S	0.6000	34.08	20.45	0.864	--	--
N <sub>2</sub>	1.1360	28.01	31.82	1.344	--	--
CO <sub>2</sub>	1.9390	44.01	85.34	3.605	--	--
Methane	68.3140	16.04	1095.76	46.297	46.297	--
Ethane	15.7410	30.07	473.33	19.999	19.999	--
Propane	7.3620	44.10	324.66	13.717	13.717	13.72%
Isobutane	0.8620	58.12	50.10	2.117	2.117	2.12%
n-Butane	2.1490	58.12	124.90	5.277	5.277	5.28%
Isopentane	0.4930	72.15	35.57	1.503	1.503	1.50%
n-Pentane	0.5570	72.15	40.19	1.698	1.698	1.70%
Benzene	0.0000	78.11	0.00	0.000	0.000	0.00%
Toluene	0.0000	92.14	0.00	0.000	0.000	0.00%
E-Benzene	0.0000	106.17	0.00	0.000	0.000	0.000%
Xylenes	0.0000	106.17	0.00	0.000	0.000	0.00%
N-Hexane	0.0000	86.18	0.00	0.000	0.000	0.00%
Hexanes+	0.8470	100.00	84.70	3.579	3.579	3.58%
Total	100.00	--	2366.81	100.00	94.19	27.89%

## Notes:

1. Gas analysis from Laboratory Services, 1/31/2020. This sample was pulled from the same reservoir as Elvis State 29A and is considered to be a representative analysis.

FLARING SUMMARY

Battery	Date	Total Flare Vol (mcf)	Hrs Flared	Start	End

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

DEFINITIONS

Action 536640

**DEFINITIONS**

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 536640
	Action Type: [C-129] Venting and/or Flaring (C-129)

**DEFINITIONS**

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 536640

**QUESTIONS**

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**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	[30-015-48184] ELVIS STATE COM 29A #003H
Incident Facility	Unavailable.

**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 this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare 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 at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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 vent or flare within an incorporated municipal boundary or within 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	68
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	1
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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.

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QUESTIONS, Page 2

Action 536640

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Date(s) and Time(s)</b>	
Date vent or flare was discovered or commenced	12/15/2025
Time vent or flare was discovered or commenced	12:01 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Cause: Midstream Emergency Maintenance   Separator   Natural Gas Flared   Released: 396 Mcf   Recovered: 0 Mcf   Lost: 396 Mcf.</i>
Other Released Details	<i>Not answered.</i>
Additional details for Measured or Estimated Volume(s). Please specify	<i>Not answered.</i>
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>Yes, according to supplied volumes this appears to be a "gas only" report.</b>

<b>Venting or Flaring Resulting from Downstream Activity</b>	
Was this vent or flare a result of downstream activity	<b>No</b>
Was notification of downstream activity received by this operator	<i>Not answered.</i>
Downstream OGRID that should have notified this operator	<i>Not answered.</i>
Date notified of downstream activity requiring this vent or flare	<i>Not answered.</i>
Time notified of downstream activity requiring this vent or flare	<i>Not answered.</i>

<b>Steps and Actions to Prevent Waste</b>	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	<b>True</b>
Please explain reason for why this event was beyond this operator's control	<i>No way to avoid periodic downtime for maintenance or repairs to address unforeseen issues</i>
Steps taken to limit the duration and magnitude of vent or flare	<i>Worked with vendor to coordinate service time and minimize downtime</i>
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	<i>No way to avoid periodic downtime for maintenance or repairs to address unforeseen issues</i>



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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete C-129</b> submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
<input checked="" type="checkbox"/>	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
<input checked="" type="checkbox"/>	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
<input checked="" type="checkbox"/>	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

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**CONDITIONS**

Created By	Condition	Condition Date
jlogan	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.	12/22/2025