

**TABLE 6-8  
GAS ANALYSIS  
LONGFELLOW ENERGY LP  
HENDRIX STATE COM 13 CD  
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 Hendrix State 13 CD and is considered to be a representative analysis.

FLARING SUMMARY

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

Sante Fe Main Office  
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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 588502

**DEFINITIONS**

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 588502
	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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ACKNOWLEDGMENTS

Action 588502

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	Action Number: 588502
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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</b> C-129 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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	Action Number: 588502
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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.	5/27/2026