



# Certificate of Analysis

Number: 6030-23010218-001A

**Artesia Laboratory**  
 200 E Main St.  
 Artesia, NM 88210  
 Phone 575-746-3481

Jarrett Webb  
 Longfellow Energy  
 8115 Preston Rd  
 Suite 800  
 Dallas, TX 75225

Jan. 20, 2023

Station Name: Prince Fed 19A CTB Flare	Sampled By: Donavan
Station Number: 13243013	Sample Of: Gas Spot
Station Location: Longfellow	Sample Date: 01/18/2023
Sample Point: Meter Run	Sample Conditions: 12 psig, @ 56.8 °F Ambient: 32.1 °F
Instrument: 6030_GC6 (Inficon GC-3000 Micro)	Effective Date: 01/18/2023
Last Inst. Cal.: 01/17/2023 0:00 AM	Method: GPA-2261M
Analyzed: 01/19/2023 10:09:24 by EBH	Cylinder No: 5030-04730

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.04000	0.057		GPM TOTAL C2+ 8.008
Nitrogen	1.863	1.92486	2.266		GPM TOTAL C3+ 4.193
Methane	66.962	69.19235	46.648		GPM TOTAL iC5+ 0.981
Carbon Dioxide	1.028	1.06245	1.965		
Ethane	13.777	14.23638	17.989	3.815	
Propane	7.521	7.77197	14.402	2.146	
Iso-butane	0.940	0.97080	2.371	0.318	
n-Butane	2.292	2.36846	5.785	0.748	
Iso-pentane	0.551	0.56956	1.727	0.209	
n-Pentane	0.554	0.57235	1.735	0.208	
Hexanes Plus	1.249	1.29082	5.055	0.564	
	96.737	100.00000	100.000	8.008	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8251	3.2176
Calculated Molecular Weight	23.80	93.19
Compressibility Factor	0.9954	

**GPA 2172 Calculation:**

**Calculated Gross BTU per ft³ @ 14.696 psia & 60°F**

Real Gas Dry BTU	1374	5129
Water Sat. Gas Base BTU	1350	5040
Ideal, Gross HV - Dry at 14.696 psia	1367.4	5129.2
Ideal, Gross HV - Wet	1343.5	5039.7

**Comments:** H2S Field Content 400 ppm

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

59%	
Prince 1	
7/28/2023	48
7/27/2023	372
7/26/2023	372
7/25/2023	376
7/24/2023	367
7/23/2023	375
7/22/2023	376
7/21/2023	339
7/20/2023	395
7/19/2023	392
7/18/2023	416
7/17/2023	402
7/16/2023	403
7/15/2023	384
Total	5,017

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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 248887

**DEFINITIONS**

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 248887
	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 248887

**QUESTIONS**

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 248887
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	[30-015-48302] PRINCE FEDERAL 19B #001H
Incident Facility	Unavailable.

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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, major venting and/or flaring of natural gas.
<i>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.</i>	
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

<b>Equipment Involved</b>	
Primary Equipment Involved	Separator
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	69
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	400
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 248887

**QUESTIONS (continued)**

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	Action Number: 248887
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Date(s) and Time(s)</b>	
Date vent or flare was discovered or commenced	07/14/2023
Time vent or flare was discovered or commenced	08:00 AM
Time vent or flare was terminated	12:00 PM
Cumulative hours during this event	316

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance   Separator   Natural Gas Flared   Released: 5,017 Mcf   Recovered: 0 Mcf   Lost: 5,017 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.

<b>Venting or Flaring Resulting from Downstream Activity</b>	
Was this vent or flare a result of downstream activity	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[36785] DCP OPERATING COMPANY, LP
Date notified of downstream activity requiring this vent or flare	07/05/2023
Time notified of downstream activity requiring this vent or flare	08:00 AM

<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.	True
Please explain reason for why this event was beyond this operator's control	Downstream Activity
Steps taken to limit the duration and magnitude of vent or flare	None
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	None



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ACKNOWLEDGMENTS

Action 248887

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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</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

Action 248887

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	Action Number: 248887
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**CONDITIONS**

Created By	Condition	Condition Date
mmayo	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.	8/7/2023