



## Certificate of Analysis

Number: 6030-21060286-001A

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

June 28, 2021

Station Name: Hendricks SC 13 Cd CTB Scrubber  
Station Number: 3242002  
Station Location: Longfellow  
Sample Point: Meter run  
Instrument: 70104124 (Inficon GC-MicroFusion)  
Last Inst. Cal.: 06/28/2021 0:00 AM  
Analyzed: 06/28/2021 13:05:37 by EJR

Sampled By: Nathan Payne  
Sample Of: Gas Spot  
Sample Date: 06/26/2021 12:00  
Sample Conditions: 40 psig Ambient: 90 °F  
Effective Date: 06/26/2021 12:00  
Method: GPA-2261M  
Cylinder No: 5030-03535

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	0.10000	0.135		GPM TOTAL C2+ 7.704
Nitrogen	6.987	7.08941	7.875		GPM TOTAL C3+ 4.580
Methane	63.765	64.69902	41.158		GPM TOTAL iC5+ 1.576
Carbon Dioxide	2.241	2.27381	3.968		
Ethane	11.488	11.65652	13.898	3.124	
Propane	7.071	7.17464	12.545	1.981	
Iso-butane	0.916	0.92951	2.142	0.305	
n-Butane	2.239	2.27168	5.236	0.718	
Iso-pentane	0.601	0.61010	1.745	0.224	
n-Pentane	0.602	0.61061	1.747	0.222	
Hexanes Plus	2.547	2.58470	9.551	1.130	
	98.457	100.0000	100.000	7.704	

## Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8746	3.2176
Calculated Molecular Weight	25.22	93.19
Compressibility Factor	0.9952	

## GPA 2172 Calculation:

Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia & 60°F

Real Gas Dry BTU	1333	5129
Water Sat. Gas Base BTU	1310	5040
Ideal, Gross HV - Dry at 14.696 psia	1326.7	5129.2
Ideal, Gross HV - Wet	1303.5	5039.7

Comments: H2S Field Content 0.1 %

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

<b>Hendrix State Com 13CD Tank Battery Flare Calculations</b>	
<b>Date</b>	<b>Estimated Volume (mcf)</b>
9/17/2021	614
9/18/2021	1243
9/19/2021	1272
9/20/2021	1287
9/21/2021	1261
9/22/2021	1257
9/23/2021	183
Total	7117

\*Volumes are metered.

**District I**

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**District II**

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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 54909

**QUESTIONS**

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 54909
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
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	[30-015-47481] HENDRIX STATE COM 13 CD #001H
Incident Facility	Not answered.

<b>Determination of Reporting Requirements</b>	
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	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a venting and/or flaring event	Yes, major 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

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

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	65
Nitrogen (N2) percentage, if greater than one percent	7
Hydrogen Sulfide (H2S) PPM, rounded up	1,000
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.

<b>Date(s) and Time(s)</b>	
Date venting and/or flaring was discovered or commenced	09/16/2021
Time venting and/or flaring was discovered or commenced	12:00 PM
Time venting and/or flaring was terminated	12:00 PM
Cumulative hours during this event	144

<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   Production Tank   Natural Gas Flared   Released: 7,117 Mcf   Recovered: 0 Mcf   Lost: 7,117 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	Yes
Was notification of downstream activity received by you or your operator	Yes
Downstream OGRID that should have notified you or your operator	[36785] DCP OPERATING COMPANY, LP
Date notified of downstream activity requiring this venting and/or flaring	09/16/2021
Time notified of downstream activity requiring this venting and/or flaring	12:00 PM

**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	DCP Had a compressor down and told us we needed to flare.
Steps taken to limit the duration and magnitude of venting and/or flaring	Only flared while the compressor was down.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	N/A

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CONDITIONS  
  
Action 54909

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 54909
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
dcain	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.	10/8/2021