



Certificate of Analysis

Number: 6030-21060286-001A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Jarrett 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 EJRSampled 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	100.00000	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 ft³ @ 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.

Hendrix State Com 13CD Tank Battery Flare Calculations	
Date	Estimated Volume (mcf)
8/12/2021	1146
8/13/2021	1159
Total	2305

*Volumes are metered.

District I1625 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 41200

QUESTIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 41200
	Action Type: [C-129] Venting and/or Flaring (C-129)

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	[30-015-47481] HENDRIX STATE COM 13 CD #001H
Incident Facility	Not answered.

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 and/or flaring caused by an emergency or malfunction	Yes
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 notification of a major venting and/or flaring	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

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	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	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.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	08/11/2021
Time venting and/or flaring was discovered or commenced	08:15 AM
Time venting and/or flaring was terminated	08:15 AM
Cumulative hours during this event	48

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Midstream Emergency Maintenance Separator Natural Gas Flared Released: 2,305 Mcf Recovered: 0 Mcf Lost: 2,305 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
Date notified of downstream activity requiring this venting and/or flaring	08/11/2021
Time notified of downstream activity requiring this venting and/or flaring	08:15 AM

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 informed us that they couldn't accept our gas coming from the Hendrix battery.
Steps taken to limit the duration and magnitude of venting and/or flaring	N/A
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	N/A

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CONDITIONS

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	Action Number: 41200
	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.	8/16/2021