

# 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

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

June 28, 2021

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

Effective Date: 06/26/2021 12
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 Physica	I Properties	Total		C6+		
Relative Density Rea	al Gas	0.8746	;	3.2176		
Calculated Molecular	r Weight	25.22		93.19		
Compressibility Factor	or	0.9952				
GPA 2172 Calculati	on:					
Calculated Gross B	TU per ft <sup>3</sup> @ 14.696 p	osia & 60°F				
Real Gas Dry BTU		1333	}	5129		
Water Sat. Gas Base	e BTU	1310	)	5040		
Ideal, Gross HV - Dry	y at 14.696 psia	1326.7	•	5129.2		
Ideal, Gross HV - We	et .	1303.5	i	5039.7		
Comments: H2S F	ield Content 0.1 %					

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

Quality Assurance:

Hendrix State Com 13CD Tank		
<b>Battery Flare Calculations</b>		
Date	Estimated Volume (mcf)	
6/5/2021	25	
6/6/2021	25	
6/7/2021	700	
6/8/2021	700	
6/9/2021	700	
6/10/2021	700	
6/11/2021	700	
6/12/2021	700	
6/13/2021	700	
6/14/2021	700	
6/15/2021	700	
6/16/2021	700	
6/17/2021	700	
Total	7750	

<u>District I</u> 1625 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

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 29636

#### **QUESTIONS**

Operator:	OGRID:
LONGFELLOW ENERGY, LP	372210
8115 Preston Road	Action Number:
Dallas, TX 75225	29636
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### QUESTIONS

Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.			
Was or is this venting or flaring caused by an emergency or malfunction No			
Did or will this venting 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 or flaring	Yes, major venting or flaring of natural gas.		
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under			
Was there or will there be <b>at least 50 MCF</b> of natural gas vented or flared during this event	Yes		
Did this venting or flaring result in the release of <b>ANY</b> 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		

Unregistered Facility Site		
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.		
Facility or Site Name Hendrix State Com 13CD Tank Battery		
Facility Type	Tank Battery - (TB)	

Equipment Involved		
Primary Equipment Involved	Separator	
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 (C02) percentage, if greater than one percent	2	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required specification.	cations for each gas.	
Methane (CH4) percentage quality requirement	Not answered.	
Nitrogen (N2) percentage quality requirement	Not answered.	
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.	
Carbon Dioxide (C02) percentage quality requirement	Not answered.	
Oxygen (02) percentage quality requirement	Not answered.	

Date(s) and Time(s)		
Date venting or flaring was discovered or commenced	06/04/2021	
Time venting or flaring was discovered or commenced	07:30 PM	
Is the venting or flaring event complete	Yes	
Date venting or flaring was terminated	06/17/2021	
Time venting or flaring was terminated	05:00 PM	
Total duration of venting or flaring in hours, if venting or flaring has terminated	406	
Longest duration of cumulative hours within any 24-hour period during this event	24	

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Initial Flowback   Separator   Natural Gas Flared   Spilled: 7,750 Mcf   Recovered: 0 Mcf   Lost: 7,750 Mcf ]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	We consider the flared volume of 7,750 mcf to be the maximum possible flared volume. Our flare meters were not working properly during our flaring and the actual volume could be closer to 4,000 mcf. Our flaring started as initial flowback flaring, but then there was downstream compressor issues with the DCP North Jackson booster that required more flaring than we anticipated.
Is this a gas only submission (i.e. only 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 or flaring a result of downstream activity	Not answered.	
Date notified of downstream activity requiring this venting or flaring	Not answered.	
Time notified of downstream activity requiring this venting or flaring  Not answered.		

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.	False
Please explain reason for why this event was beyond your operator's control	Not answered.
Steps taken to limit the duration and magnitude of venting or flaring	We built a pipeline to our gas tie-in location. Limiting the flaring to only our initial flowback.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Not applicable. During the initial flowback, we need to flare until the gas cleans up.

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CONDITIONS

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8115 Preston Road	Action Number:
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	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/1/2021