



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

Station Number: 13243013

Station Location: Longfellow

Sample Point: Meter Run

Instrument: 6030_GC6 (Inficon GC-3000 Micro)

Last Inst. Cal.: 01/17/2023 0:00 AM

Analyzed: 01/19/2023 10:09:24 by EBH

Sampled By: Donovan

Sample Of: Gas Spot

Sample Date: 01/18/2023

Sample Conditions: 12 psig, @ 56.8 °F Ambient: 32.1 °F

Effective Date: 01/18/2023

Method: GPA-2261M

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	100.0000	100.000	8.008	

Calculated Physical Properties

	Total	C6+
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.

Prince 1 January	
1/8/2023	104
1/9/2023	274
1/10/2023	204
1/11/2023	228
1/12/2023	247
1/13/2023	235
1/14/2023	248
1/15/2023	241
1/16/2023	261
1/17/2023	249
1/18/2023	225
1/19/2023	198
1/20/2023	178
1/21/2023	189
1/22/2023	186
1/23/2023	174
1/24/2023	177
1/25/2023	205
1/26/2023	209
1/27/2023	212
1/28/2023	216
1/29/2023	345
1/30/2023	395
1/31/2023	376

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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DEFINITIONS

Action 188085

DEFINITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 188085
	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: <ul style="list-style-type: none">• 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 188085

QUESTIONS

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	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	[30-015-48302] PRINCE FEDERAL 19B #001H
Incident Facility	Unavailable.

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 this vent or flare caused by an emergency or malfunction	No
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.
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 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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

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	69
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	400
Carbon Dioxide (C02) percentage, if greater than one percent	1
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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 188085

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/08/2023
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	08:00 PM
Cumulative hours during this event	572

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 Released: 5,576 Mcf Recovered: 0 Mcf Lost: 5,576 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 this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	False
Please explain reason for why this event was beyond this operator's control	Not answered.
Steps taken to limit the duration and magnitude of vent or flare	Worked with BLM to approve gas flowline ROW
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Apply for BLM ROW at least 120 days prior to flowback.

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ACKNOWLEDGMENTS

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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 complete 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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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.	2/24/2023