



Certificate of Analysis

Number: 6030-22020181-005A

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

Ed McCasland
Durango Midstream
10077 Grogans Mill Rd Suite 300
The Woodlands, TX 77380

Feb. 14, 2022

Station Name: **Arrow Head Inlet**
Station Location: Durango
Sample Point: Inlet
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Last Inst. Cal.: 02/14/2022 0:00 AM
Analyzed: 02/14/2022 09:38:59 by ERG

Sampled By: Ben Fuentes
Sample Of: Gas Spot
Sample Date: 02/11/2022 11:30
Sample Conditions: 55 psig, @ 73 °F
Effective Date: 02/11/2022 11:30
Method: GPA-2261M
Cylinder No: 1111-005813
Instrument: 70142339 (Inficon GC-MicroFusion)

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia
Nitrogen	2.354	2.38389	3.148	
Carbon Dioxide	0.222	0.22503	0.467	
Methane	75.875	76.84162	58.114	
Ethane	11.808	11.95887	16.952	3.201
Propane	5.309	5.37635	11.176	1.483
Iso-Butane	0.638	0.64572	1.769	0.212
n-Butane	1.432	1.45045	3.974	0.458
Iso-Pentane	0.325	0.32934	1.120	0.121
n-Pentane	0.301	0.30514	1.038	0.111
Hexanes	0.188	0.19040	0.774	0.078
Heptanes	0.186	0.18878	0.892	0.087
Octanes	0.083	0.08446	0.455	0.043
Nonanes Plus	0.020	0.01995	0.121	0.011
	98.741	100.00000	100.000	5.805

Calculated Physical Properties

	Total	C9+
Calculated Molecular Weight	21.21	128.26
Compressibility Factor	0.9964	
Relative Density Real Gas	0.7347	4.4283

GPA 2172 Calculation:

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

Real Gas Dry BTU	1247.3	6996.3
Water Sat. Gas Base BTU	1226.0	6874.3
Ideal, Gross HV - Dry at 14.696 psia	1242.9	6996.3
Ideal, Gross HV - Wet	1221.2	6874.3

Hydrocarbon Laboratory Manager

Quality Assurance:

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

Date of Report:

Time of Report:

Durango Midstream Entity:

Durango Midstream Facility:

Gathering System ID:

02/24/22

7:00 PM

Frontier Field Services, LLC

Backbone HP 12" Line

Abo 71550 FF 303 B

Release Information

Release Event Type:

If Release Type = Air Emission Event - Please Choose:

Air - Emission Event

Maintenance

Comments:

Natural Gas Release per flare.

NMOC Ticket:

Media Impacted by Release:

Date of Release Discovery:

Time of Release Discovery:

Event Start Date:

Event Start Time:

Event End Date:

Event End Time:

Air

02/24/22

7:35 AM

02/24/22

11:00 AM

BLOWDOWN VOLUME CALCULATOR

Pipe Material	STEEL
Pipe OD	12"
Wall Thickness	0.25 inches
Pressure	480 psig
Pipe Length	19,483 ft

Pipe Volume 8139.3 ft^3

Blowdown Volume 273.911 MCF

Material Released:

If other - Specify

Natural Gas

Field Gas

Estimated Quantity of Material Released (Gas & Liquid):

Estimated Quantity of Material Recovered:

Were any Materials Released Off-site?

Is the Release Event Reportable?

Agency Name Release Reported to:

Does the Release Require Remediation?

Latitude of Spill or Release: (Decimal)

Longitude of Spill or Release: (Decimal)

Name of Person Reporting Event:

0	BBL	273.911	MSCF
0	BBL		MSCF

No

No

No

N32.799794°

W104.128490°

John Lopez

Cause of the Event:

Arrowhead 6" to Backbone 12" HP tie-in project.

Actions Taken to Correct Release Event:

Mainline 12" block valves closed per LOTO & blown down through flare.

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District III
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District IV
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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

DEFINITIONS

Action 84400

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 84400
	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 84400

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 84400
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<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	Not answered.
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

Determination of Reporting Requirements	
<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	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor 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 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	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	77
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
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 84400

QUESTIONS (continued)

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

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/24/2022
Time vent or flare was discovered or commenced	07:35 AM
Time vent or flare was terminated	11:00 AM
Cumulative hours during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Repair and Maintenance Pipeline (Any) Natural Gas Flared Released: 274 Mcf Recovered: 0 Mcf Lost: 274 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	Arrowhead 6" to backbone 12" HP tie-in project
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Mainline 12" block valves closed per LOTO & blown down through flare.

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ACKNOWLEDGMENTS

Action 84400

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	Action Number: 84400
	Action Type: [C-129] Venting and/or Flaring (C-129)

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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	Action Number: 84400
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CONDITIONS

Created By	Condition	Condition Date
aakhgar	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.	2/25/2022