



# Certificate of Analysis

Number: 6030-22100442-001A

**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

Nov. 01, 2022

Station Name: North Penn Inlet	Sampled By: C Fuentes
Station Number: 95998	Sample Of: Gas Spot
Station Location: Durango	Sample Date: 10/26/2022
Sample Point: North Penn Inlet	Sample Conditions: 30 psig, @ 55 °F
Type of Sample: Spot-Cylinder	Effective Date: 10/26/2022
Heat Trace Used: N/A	Method: GPA 2286
Sampling Method: Fill and Purge	Cylinder No: 1111-005821
Analyzed: 10/26/2022 14:12:20 by EBH	Instrument: 6030_GC2 (Agilent GC-7890B)
	Last Inst. Cal.: 09/12/2022 12:00 PM

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia	
Hydrogen Sulfide	0.000	1.50000	2.342		GPM TOTAL C2+ 5.274
Nitrogen	1.593	1.61100	2.067		GPM TOTAL C3+ 2.550
Methane	75.752	76.63000	56.312		GPM TOTAL iC5+ 0.664
Carbon Dioxide	2.020	2.04300	4.119		
Ethane	10.059	10.17500	14.015	2.724	
Propane	4.429	4.48000	9.049	1.236	
Iso-butane	0.647	0.65400	1.741	0.214	
n-Butane	1.365	1.38100	3.677	0.436	
Iso-pentane	0.389	0.39400	1.302	0.144	
n-Pentane	0.353	0.35700	1.180	0.130	
Hexanes Plus	0.766	0.77500	4.196	0.390	
	<u>97.373</u>	<u>100.00000</u>	<u>100.000</u>	<u>5.274</u>	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.7561	4.0743
Calculated Molecular Weight	21.83	118.00
Compressibility Factor	0.9964	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft³ @ 14.696 psia &amp; 60°F</b>		
Real Gas Dry BTU	1226	6328
Water Sat. Gas Base BTU	1205	6218
Ideal, Gross HV - Dry at 14.696 psia	1221.7	6328.1
Ideal, Gross HV - Wet	1200.4	0.000

**Comments:** H2S Field Content 1.5 %

Hydrocarbon Laboratory Manager

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



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 Station Location: Durango  
 Sample Point: North Penn Inlet  
 Type of Sample: Spot-Cylinder  
 Heat Trace Used: N/A  
 Sampling Method: Fill and Purge

Sampled By: C Fuentes  
 Sample Of: Gas Spot  
 Sample Date: 10/26/2022  
 Sample Conditions: 30 psig, @ 55 °F  
 Method: GPA 2286  
 Cylinder No: 1111-005821  
 Analyzed: 10/26/2022 14:10:57 by EBH

## Analytical Data

Components	Mol. %	Wt. %	GPM at 14.696 psia
Hydrogen Sulfide	1.500	2.342	
Nitrogen	1.611	2.067	
Methane	76.630	56.312	
Carbon Dioxide	2.043	4.119	
Ethane	10.175	14.015	2.724
Propane	4.480	9.049	1.236
Iso-Butane	0.654	1.741	0.214
n-Butane	1.381	3.677	0.436
Iso-Pentane	0.394	1.302	0.144
n-Pentane	0.357	1.180	0.130
i-Hexanes	0.126	0.487	0.050
n-Hexane	0.062	0.246	0.026
Benzene	0.050	0.181	0.014
Cyclohexane	0.058	0.222	0.020
i-Heptanes	0.096	0.394	0.039
n-Heptane	0.021	0.095	0.010
Toluene	0.030	0.128	0.010
i-Octanes	0.073	0.352	0.032
n-Octane	0.007	0.036	0.004
Ethylbenzene	0.005	0.026	0.002
Xylenes	0.010	0.048	0.004
i-Nonanes	0.017	0.101	0.008
n-Nonane	0.004	0.021	0.002
Decanes Plus	0.216	1.859	0.169
	<u>100.000</u>	<u>100.000</u>	<u>5.274</u>



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Station Name: North Penn Inlet  
 Station Number: 95998  
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 Sample Point: North Penn Inlet  
 Type of Sample: Spot-Cylinder  
 Heat Trace Used: N/A  
 Sampling Method: Fill and Purge

Sampled By: C Fuentes  
 Sample Of: Gas Spot  
 Sample Date: 10/26/2022  
 Sample Conditions: 30 psig, @ 55 °F  
 Method: GPA 2286  
 Cylinder No: 1111-005821  
 Analyzed: 10/26/2022 14:10:57 by EBH

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	21.83	185.90
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.696 psia &amp; 60°F</b>		
Real Gas Dry BTU	1226.1	10094.9
Water Sat. Gas Base BTU	1204.8	9883.3
Relative Density Real Gas	0.7561	6.4186
Compressibility Factor	0.9964	
Ideal, Gross HV - Wet	1200.4	
Ideal, Gross HV - Dry at 14.696 psia	1221.7	
Net BTU Dry Gas - real gas	1113	
Net BTU Wet Gas - real gas	1093	

**Comments:** H2S Field Content 1.5 %

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:	08/25/23
Time of Report:	11:50 PM
Durango Midstream Entity:	Frontier Field Services, LLC
Durango Midstream Facility:	ART-Vandiver 6" Steel Line
Gathering System ID:	ART: 73155

**Release Information**

Release Event Type:	Leak - Pipeline Release
If Release Type = Air Emission Event - Please Choose:	Emergency
Comments:	Liquids & Natural-H2S gas release.
NMOC Ticket:	

Media Impacted by Release:	Soil
Event Start Date:	08/25/23
Event Start Time:	7:30 PM
Event End Date:	08/25/23
Event End Time:	7:50 PM

<b>Material Released</b>				
<b>Gas</b>	<b>Field Gas - Sour</b>	<b>1,032.41</b>	<b>MSCF</b>	<b>Estimated Quantity</b>
<b>Liquid</b>	<b>Condensate</b>	<b>1</b>	<b>BBL</b>	<b>Estimated Quantity</b>
<b>If other - Specify</b>				

Where any Materials Released Off-site?	No
Latitude of Spill or Release: (Decimal)	N32.7427959°
Longitude of Spill or Release: (Decimal)	W104.4279400°
Name of Person Reporting Event:	John Lopez

Cause of the Event:	External & internal corrosion.
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 Phone:(575) 748-1283 Fax:(575) 748-9720

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 Phone:(505) 334-6178 Fax:(505) 334-6170

**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 258006

**DEFINITIONS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 258006
	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:

- 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 258006

**QUESTIONS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 258006
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<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	Unavailable.
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System

<b>Determination of Reporting Requirements</b>	
<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	Yes
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, major 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 within 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>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	76
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	2
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 (continued)**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 258006
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Date(s) and Time(s)</b>	
Date vent or flare was discovered or commenced	08/28/2023
Time vent or flare was discovered or commenced	07:30 PM
Time vent or flare was terminated	08:00 PM
Cumulative hours during this event	1

<b>Measured or Estimated Volume of Vented or Flared Natural Gas</b>	
Natural Gas Vented (Mcf) Details	Cause: Corrosion   Pipeline (Any)   Natural Gas Vented   Released: 1,032 Mcf   Recovered: 0 Mcf   Lost: 1,032 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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.

<b>Venting or Flaring Resulting from Downstream Activity</b>	
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.

<b>Steps and Actions to Prevent Waste</b>	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	when corrosion causes a pipeline leak is beyond control of operators
Steps taken to limit the duration and magnitude of vent or flare	LOTO, blowdown and clamp pipeline
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Pipeline repaired, however pipeline corrosion likely to recur over time.





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ACKNOWLEDGMENTS

Action 258006

**ACKNOWLEDGMENTS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 258006
	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 <b>complete</b> 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

Action 258006

**CONDITIONS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 258006
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
mtaylor	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.	8/28/2023