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		
	97.373	100.00000	100.000	5.274		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7561	4.0743
Calculated Molecular Weight	21.83	118.00
Compressibility Factor	0.9964	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
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 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	Method:	GPA 2286
Heat Trace Used:	N/A	Cylinder No:	1111-005821
Sampling Method:	Fill and Purge	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
	100.000	100.000	5.274

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Nov. 01, 2022

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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	Method:	GPA 2286
Heat Trace Used:	N/A	Cylinder No:	1111-005821
Sampling Method:	Fill and Purge	Analyzed:	10/26/2022 14:10:57 by EBH

Calculated Physical Properties	**Total**	**C10+**
Calculated Molecular Weight	21.83	185.90
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
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.

Indicate Event Type Flare Event Type (

Data Entry - New Mexico Flaring - Flare Event Ind

Report Run Date:

Date	N Pen MSCF
04/02/2023 12:00 AM	0.000
04/02/2023 1:00 AM	0.000
04/02/2023 2:00 AM	0.000
04/02/2023 3:00 AM	0.000
04/02/2023 4:00 AM	0.000
04/02/2023 5:00 AM	0.000
04/02/2023 6:00 AM	0.000
04/02/2023 7:00 AM	0.000
04/02/2023 8:00 AM	0.000
04/02/2023 9:00 AM	0.000
04/02/2023 10:00 AM	0.000
04/02/2023 11:00 AM	0.000
04/02/2023 12:00 PM	0.000
04/02/2023 1:00 PM	0.000
04/02/2023 2:00 PM	0.000
04/02/2023 3:00 PM	0.000
04/02/2023 4:00 PM	2.040
04/02/2023 5:00 PM	3.950
04/02/2023 6:00 PM	43.480
04/02/2023 7:00 PM	69.270
04/02/2023 8:00 PM	72.830
04/02/2023 9:00 PM	72.580
04/02/2023 10:00 PM	75.530
04/02/2023 11:00 PM	0.000
04/03/2023 12:00 AM	0.000
04/03/2023 1:00 AM	0.000
04/03/2023 2:00 AM	1.980

Indicate Event Type Flare Event Type (

Data Entry - New Mexico Flaring - Flare Event Ind

Report Run Date:

Date	N Pen MSCF
04/03/2023 3:00 AM	53.730
04/03/2023 4:00 AM	92.150
04/03/2023 5:00 AM	112.960
04/03/2023 6:00 AM	119.490
04/03/2023 7:00 AM	133.160
04/03/2023 8:00 AM	146.840
04/03/2023 9:00 AM	159.940
04/03/2023 10:00 AM	169.720
04/03/2023 11:00 AM	171.820
04/03/2023 12:00 PM	171.050
04/03/2023 1:00 PM	168.880
04/03/2023 2:00 PM	168.930
04/03/2023 3:00 PM	169.270
04/03/2023 4:00 PM	168.960
04/03/2023 5:00 PM	176.770
04/03/2023 6:00 PM	185.630
04/03/2023 7:00 PM	185.250
04/03/2023 8:00 PM	184.870
04/03/2023 9:00 PM	185.390
04/03/2023 10:00 PM	186.120
04/03/2023 11:00 PM	185.060

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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

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204012
	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 204012

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204012
	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	*Unavailable.*
Incident Facility	**[fAPP2223550440] North Pen Compressor Station**

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 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	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	*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	76
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	2
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 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 (02) 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: 204012
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/04/2023
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	29

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure | Gas Plant | Natural Gas Flared | Released: 3,638 Mcf | Recovered: 0 Mcf | Lost: 3,638 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.	True
Please explain reason for why this event was beyond this operator's control	The Dagger Draw Gas Plant Amine System appears to be getting oxygen in the system causing them to back gas out of the inlet while investigating and repairing issue.
Steps taken to limit the duration and magnitude of vent or flare	Back gas out of plant inlet while investigating issue. Once identified corrections will be made and gas will be brought back in to plant.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Cause still being investigated before corrective actions can be identified.

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ACKNOWLEDGMENTS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204012
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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.
☑	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.
☑	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.
☑	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.
☑	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 204012

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 204012
	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.	4/4/2023