



Certificate of Analysis

Number: 6030-22100203-001A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Ed McCasland
Durango Midstream
10077 Grogans Mill Rd Suite 300
The Woodlands, TX 77380

Oct. 17, 2022

Station Name: ArrowHead Inlet PSI
Station Number: 95997
Station Location: Durango
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Last Inst. Cal.: 09/12/2022 12:00 PM
Analyzed: 10/15/2022 10:40:23 by EBHSampled By: JQ
Sample Of: Gas Spot
Sample Date: 10/14/2022
Sample Conditions: 43 psig, @ 64 °F
Effective Date: 10/14/2022
Method: GPA 2286
Cylinder No: 164
Instrument: 6030_GC2 (Agilent GC-7890B)

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Nitrogen	4.867	4.94600	6.355		GPM TOTAL C2+	5.854
Methane	72.861	74.03800	54.475		GPM TOTAL C3+	2.790
Carbon Dioxide	0.313	0.31800	0.642		GPM TOTAL iC5+	0.544
Ethane	11.300	11.48300	15.836	3.064		
Propane	5.440	5.52800	11.180	1.519		
Iso-butane	0.711	0.72200	1.925	0.235		
n-Butane	1.540	1.56500	4.172	0.492		
Iso-pentane	0.377	0.38300	1.267	0.140		
n-Pentane	0.359	0.36500	1.208	0.132		
Hexanes Plus	0.642	0.65200	2.940	0.272		
	98.410	100.00000	100.000	5.854		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.7550	3.3683
Calculated Molecular Weight	21.80	97.56
Compressibility Factor	0.9965	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.65 psia & 60°F

Real Gas Dry BTU	1229	5167
Water Sat. Gas Base BTU	1207	5077
Ideal, Gross HV - Dry at 14.65 psia	1224.5	5167.4
Ideal, Gross HV - Wet	1203.1	0.000

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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Heat Trace Used: N/A
Sampling Method: Fill and PurgeSampled By: JQ
Sample Of: Gas Spot
Sample Date: 10/14/2022
Sample Conditions: 43 psig, @ 64 °F
Method: GPA 2286
Cylinder No: 164
Analyzed: 10/15/2022 10:39:28 by EBH

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	4.946	6.355	
Methane	74.038	54.475	
Carbon Dioxide	0.318	0.642	
Ethane	11.483	15.836	3.064
Propane	5.528	11.180	1.519
Iso-Butane	0.722	1.925	0.235
n-Butane	1.565	4.172	0.492
Iso-Pentane	0.383	1.267	0.140
n-Pentane	0.365	1.208	0.132
i-Hexanes	0.129	0.498	0.051
n-Hexane	0.062	0.243	0.025
Benzene	0.073	0.270	0.021
Cyclohexane	0.075	0.288	0.026
i-Heptanes	0.089	0.367	0.035
n-Heptane	0.017	0.075	0.008
Toluene	0.044	0.187	0.015
i-Octanes	0.069	0.334	0.031
n-Octane	0.004	0.025	0.002
Ethylbenzene	0.004	0.022	0.002
Xylenes	0.007	0.033	0.003
i-Nonanes	0.012	0.070	0.006
n-Nonane	0.002	0.013	0.001
Decanes Plus	0.065	0.515	0.046
	100.000	100.000	5.854



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 Sample Of: Gas Spot
 Sample Date: 10/14/2022
 Sample Conditions: 43 psig, @ 64 °F
 Method: GPA 2286
 Cylinder No: 164
 Analyzed: 10/15/2022 10:39:28 by EBH

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	21.80	170.76
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1228.8	9261.9
Water Sat. Gas Base BTU	1207.3	9067.9
Relative Density Real Gas	0.7550	5.8959
Compressibility Factor	0.9965	
Ideal, Gross HV - Wet	1203.1	
Ideal, Gross HV - Dry at 14.65 psia	1224.5	
Net BTU Dry Gas - real gas	1116	
Net BTU Wet Gas - real gas	1096	

Hydrocarbon Laboratory Manager

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

Substituted Flare Volumes**Data Entry - New Mexico Flaring - Flare I**

Report Run Date:

Date	EDDY, NM > Arrowhead CS > n. FL-1 > Total Gas to Flare Substituted (mscf)
08/13/2023 12:00 AM	86.53
08/13/2023 1:00 AM	63.92
08/13/2023 2:00 AM	63.96
08/13/2023 3:00 AM	89.74
08/13/2023 4:00 AM	99.19
08/13/2023 5:00 AM	80.12
08/13/2023 6:00 AM	65.84
08/13/2023 7:00 AM	65.79
08/13/2023 8:00 AM	75.14
08/13/2023 9:00 AM	72.77
08/13/2023 10:00 AM	81.48
08/13/2023 11:00 AM	41.49
08/13/2023 12:00 PM	0
08/13/2023 1:00 PM	0
08/13/2023 2:00 PM	19.09
08/13/2023 3:00 PM	56.11
08/13/2023 4:00 PM	61.06
08/13/2023 5:00 PM	99.4
08/13/2023 6:00 PM	50.48
08/13/2023 7:00 PM	0
08/13/2023 8:00 PM	0
08/13/2023 9:00 PM	0
08/13/2023 10:00 PM	0
08/13/2023 11:00 PM	0

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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 251921

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 251921
	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 251921

QUESTIONS

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	Action Number: 251921
	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	Unavailable.
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	Yes
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

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	73
Nitrogen (N2) percentage, if greater than one percent	5
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 251921

QUESTIONS (continued)

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	Action Number: 251921
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/14/2023
Time vent or flare was discovered or commenced	08:00 AM
Time vent or flare was terminated	07:00 PM
Cumulative hours during this event	17

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 Gas Compressor Station Natural Gas Flared Released: 1,172 Mcf Recovered: 0 Mcf Lost: 1,172 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	Various unscheduled maintenance/ startup activities.
Steps taken to limit the duration and magnitude of vent or flare	Addressed issues and made appropriate corrections.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Equipment shutdowns occur to prevent further damage to equipment. Corrective measures are to address repairs, if needed, and restart the equipment.

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ACKNOWLEDGMENTS

Action 251921

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	Action Number: 251921
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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 251921

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	Action Number: 251921
	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.	8/14/2023