



Certificate of Analysis

Number: 6030-24060239-001A

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

June 13, 2024

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.: 06/06/2024 14:17 PM
Analyzed: 06/13/2024 12:43:49 by EBH

Sampled By: JQ
Sample Of: Gas Spot
Sample Date: 06/13/2024
Sample Conditions: 36 psig, @ 86 °F
Effective Date: 06/13/2024
Flow Rate:
Method: GPA 2286
Instrument: 6030_GC2 (Agilent GC-7890B)

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.0000	0.0000	0.0000		GPM TOTAL C2+	6.045
Nitrogen	2.1790	2.1970	2.8490		GPM TOTAL C3+	2.821
Methane	75.4630	76.0853	56.5010		GPM TOTAL iC5+	0.583
Carbon Dioxide	0.2940	0.2964	0.6040			
Ethane	11.9800	12.0788	16.8120	3.224		
Propane	5.4720	5.5171	11.2610	1.517		
Iso-butane	0.6850	0.6907	1.8580	0.225		
n-Butane	1.5640	1.5769	4.2420	0.496		
Iso-pentane	0.4010	0.4043	1.3500	0.148		
n-Pentane	0.3740	0.3771	1.2590	0.137		
Hexanes Plus	0.7700	0.7764	3.2640	0.298		
	99.1820	100.0000	100.0000	6.045		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
Calculated Molecular Weight	0.7484	3.1358
Compressibility Factor	21.60	90.82
	0.9963	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1264	4788
Water Sat. Gas Base BTU	1242	4704
Ideal, Gross HV - Dry at 14.65 psia	1259.6	4788.0
Ideal, Gross HV - Wet	1237.5	0.000

Comments: H2S Field Content 0 ppm

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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Sampling Method: Fill and Purge

Sampled By: JQ
Sample Of: Gas Spot
Sample Date: 06/13/2024
Sample Conditions: 36 psig, @ 86 °F
Method: GPA 2286
Analyzed: 06/13/2024 12:42:07 by EBH

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	0.00000	0.000	
Nitrogen	2.19697	2.849	
Methane	76.08539	56.501	
Carbon Dioxide	0.29642	0.604	
Ethane	12.07880	16.812	3.224
Propane	5.51713	11.261	1.517
Iso-Butane	0.69065	1.858	0.225
n-Butane	1.57690	4.242	0.496
Iso-Pentane	0.40431	1.350	0.148
n-Pentane	0.37708	1.259	0.137
i-Hexanes	0.16156	0.629	0.064
n-Hexane	0.07853	0.313	0.032
Benzene	0.10513	0.380	0.029
Cyclohexane	0.10186	0.394	0.035
i-Heptanes	0.11373	0.482	0.045
n-Heptane	0.02092	0.097	0.010
Toluene	0.05449	0.232	0.018
i-Octanes	0.08225	0.396	0.036
n-Octane	0.00570	0.030	0.003
Ethylbenzene	0.00606	0.030	0.002
Xylenes	0.01093	0.055	0.004
i-Nonanes	0.01629	0.090	0.008
n-Nonane	0.00348	0.021	0.002
Decanes Plus	0.01542	0.115	0.010
	100.00000	100.000	6.045



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

Sampled By: JQ
Sample Of: Gas Spot
Sample Date: 06/13/2024
Sample Conditions: 36 psig, @ 86 °F
Method: GPA 2286
Analyzed: 06/13/2024 12:42:07 by EBH

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	21.60	160.68
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1264.2	8666.1
Water Sat. Gas Base BTU	1242.1	8483.0
Relative Density Real Gas	0.7484	5.5478
Compressibility Factor	0.9963	
Ideal, Gross HV - Wet	1237.5	
Ideal, Gross HV - Dry at 14.65 psia	1259.6	
Net BTU Dry Gas - real gas	1148	
Net BTU Wet Gas - real gas	1128	

Comments: H2S Field Content 0 ppm

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 Event Indicators

Report Run Date:

Date	EDDY, NM > Arrowhead CS > n. FL-1 > Total Gas to Flare Substituted (mscf)
11/17/2024 12:00 AM	384.047
11/17/2024 1:00 AM	355.517
11/17/2024 2:00 AM	122.132
11/17/2024 3:00 AM	113.02
11/17/2024 4:00 AM	105.543
11/17/2024 5:00 AM	100.345
11/17/2024 6:00 AM	93.693
11/17/2024 7:00 AM	88.712
11/17/2024 8:00 AM	82.83
11/17/2024 9:00 AM	97.259
11/17/2024 10:00 AM	110.755
11/17/2024 11:00 AM	43.679
11/17/2024 12:00 PM	1.228
11/17/2024 1:00 PM	0.568
11/17/2024 2:00 PM	1.041
11/17/2024 3:00 PM	1.028
11/17/2024 4:00 PM	0.472
11/17/2024 5:00 PM	0
11/17/2024 6:00 PM	22.182
11/17/2024 7:00 PM	5.322
11/17/2024 8:00 PM	0
11/17/2024 9:00 PM	0
11/17/2024 10:00 PM	0
11/17/2024 11:00 PM	0

Total 1701.869

Sante Fe Main Office
Phone: (505) 476-3441

General Information
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Online Phone Directory
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 404182

DEFINITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 404182
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 404182

QUESTIONS

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	Action Number: 404182
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2123229442] Frontier Field Services Gathering System
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

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 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	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	75
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
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 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 404182

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 404182
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/17/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	04:00 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	Not answered.
Other Released Details	Cause: High Line Pressure Pipeline (Any) Natural Gas Flared Released: 1,702 Mcf Recovered: 0 Mcf Lost: 1,702 Mcf.
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	
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	High inlet pressure forcing station to flare for safety reasons.
Steps taken to limit the duration and magnitude of vent or flare	Resumed normal operations once pressures were safe to do so.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Resumed normal operations once pressures were safe to do so. high pressures result in flaring for safety reasons. Recurrence likely when pressures are high.

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ACKNOWLEDGMENTS

Action 404182

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	Action Number: 404182
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

☒	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☒	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☒	I hereby certify the statements in this amending 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 404182

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	Action Number: 404182
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
sorozco	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	11/18/2024