



Certificate of Analysis

Number: 6030-22080419-003A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

Paul Martinez
Earthstone
801 Cherry St, Suite 1200
Fort Worth, TX 76102

Aug. 30, 2022

Station Name: Anaconda 11-14 3BS Fed Com 7H
Station Number: 89410031
Station Location: Chisholm
Sample Point: Meter Run
Type of Sample: Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: SPL
Analyzed: 08/30/2022 14:50:36 by KNF

Sampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 08/26/2022
Sample Conditions: 97.5 psig, @ 114 °F Ambient: 85 °F
Effective Date: 08/26/2022
Method: GPA 2286
Cylinder No: 5030-01738
Instrument: 6030_GC2 (Agilent GC-7890B)
Last Inst. Cal.: 08/29/2022 14:11 PM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	3.012	3.03900	3.447		GPM TOTAL C2+	9.139
Methane	64.388	64.96900	42.202		GPM TOTAL C3+	4.869
Carbon Dioxide	0.136	0.13700	0.244		GPM TOTAL iC5+	1.010
Ethane	15.749	15.89100	19.347	4.270		
Propane	9.455	9.54000	17.033	2.641		
Iso-butane	0.942	0.95000	2.236	0.313		
n-Butane	2.831	2.85600	6.721	0.905		
Iso-pentane	0.594	0.59900	1.750	0.221		
n-Pentane	0.674	0.68000	1.986	0.248		
Hexanes Plus	1.327	1.33900	5.034	0.541		
	99.108	100.00000	100.000	9.139		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8566	3.1997
Calculated Molecular Weight	24.70	92.67
Compressibility Factor	0.9950	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1430	4974
Water Sat. Gas Base BTU	1405	4888
Ideal, Gross HV - Dry at 14.73 psia	1422.5	4974.3
Ideal, Gross HV - Wet	1397.7	0.000

Data reviewed by: Krystle Fitzwater, 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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Sample Of: Gas Spot
Sample Date: 08/26/2022
Sample Conditions: 97.5 psig, @ 114 °F
Method: GPA 2286
Cylinder No: 5030-01738
Analyzed: 08/30/2022 14:49:33 by KNF

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.000	0.000	
Nitrogen	3.039	3.447	
Methane	64.969	42.202	
Carbon Dioxide	0.137	0.244	
Ethane	15.891	19.347	4.270
Propane	9.540	17.033	2.641
Iso-Butane	0.950	2.236	0.313
n-Butane	2.856	6.721	0.905
Iso-Pentane	0.599	1.750	0.221
n-Pentane	0.680	1.986	0.248
i-Hexanes	0.304	1.029	0.120
n-Hexane	0.170	0.582	0.069
Benzene	0.073	0.231	0.021
Cyclohexane	0.116	0.393	0.039
i-Heptanes	0.292	1.095	0.116
n-Heptane	0.053	0.217	0.025
Toluene	0.045	0.166	0.015
i-Octanes	0.175	0.757	0.078
n-Octane	0.016	0.077	0.008
Ethylbenzene	0.009	0.037	0.003
Xylenes	0.017	0.072	0.007
i-Nonanes	0.041	0.206	0.021
n-Nonane	0.010	0.051	0.006
Decanes Plus	0.018	0.121	0.013
	100.000	100.000	9.139



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Sampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 08/26/2022
Sample Conditions: 97.5 psig, @ 114 °F
Method: GPA 2286
Cylinder No: 5030-01738
Analyzed: 08/30/2022 14:49:33 by KNF

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.70	145.80
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1429.6	7797.6
Water Sat. Gas Base BTU	1404.7	7623.8
Relative Density Real Gas	0.8566	5.0340
Compressibility Factor	0.9950	
Ideal, Gross HV - Wet	1397.7	
Ideal, Gross HV - Dry at 14.73 psia	1422.5	
Net BTU Dry Gas - real gas	1302	
Net BTU Wet Gas - real gas	1279	

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

Calculations for the total Mcf flared

End Meter Volume – the Begin Meter Volume.

***Composition for the gas has been entered into the question portion of the C-129.

If further back up is needed please let us know and will provide requested data.

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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 159173

DEFINITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 159173
	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 159173

QUESTIONS

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	Action Number: 159173
	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	[fAPP2231962334] Anaconda 11-14 Fed Com Facility

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	Gas Compressor Station
Additional details for Equipment Involved. Please specify	Gas purchaser shut in for maintenance

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	64
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
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 159173

QUESTIONS (continued)

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	Action Number: 159173
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/14/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Midstream Scheduled Maintenance Gas Compressor Station Natural Gas Flared Released: 771 Mcf Recovered: 0 Mcf Lost: 771 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	Yes
Was notification of downstream activity received by this operator	Yes
Downstream OGRID that should have notified this operator	[372603] 3BEAR FIELD SERVICES, LLC
Date notified of downstream activity requiring this vent or flare	11/01/2022
Time notified of downstream activity requiring this vent or flare	09:00 AM

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	Steps were not taken to shut-in wells prior to the event due to miscommunication.
Steps taken to limit the duration and magnitude of vent or flare	Management took immediate action and began shutting in the wells when issue was identified.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Wells were shut-in to prevent additional flaring. Management processes being reviewed and implemented to prevent in the future.

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ACKNOWLEDGMENTS

Action 159173

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	Action Number: 159173
	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 159173

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	Action Number: 159173
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
witone	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.	11/15/2022