



Certificate of Analysis

Number: 6030-22080419-002A

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: Ram 2-11 1BS Fed Com 10H
Station Number: 89410039
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 13:11:03 by KNF

Sampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 08/26/2022
Sample Conditions: 114.5 psig, @ 115.4 °F Ambient: 80 °F
Effective Date: 08/26/2022
Method: GPA 2286
Cylinder No: 1111-007985
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		
Hydrogen Sulfide	0.000	0.10000	0.137		GPM TOTAL C2+	8.078
Nitrogen	2.719	2.71200	3.062		GPM TOTAL C3+	4.413
Methane	65.437	65.27800	42.207		GPM TOTAL iC5+	0.919
Carbon Dioxide	3.787	3.77800	6.701			
Ethane	13.676	13.64300	16.534	3.665		
Propane	8.472	8.45100	15.019	2.338		
Iso-butane	0.998	0.99600	2.333	0.328		
n-Butane	2.620	2.61400	6.123	0.828		
Iso-pentane	0.649	0.64700	1.881	0.238		
n-Pentane	0.679	0.67700	1.969	0.247		
Hexanes Plus	1.107	1.10400	4.034	0.434		
	100.144	100.00000	100.000	8.078		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8605	3.1355
Calculated Molecular Weight	24.81	90.81
Compressibility Factor	0.9953	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1348	4852
Water Sat. Gas Base BTU	1324	4767
Ideal, Gross HV - Dry at 14.73 psia	1341.2	4851.8
Ideal, Gross HV - Wet	1317.9	0.000

Comments: H2S Field Content .1 %

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 Date: 08/26/2022
Sample Conditions: 114.5 psig, @ 115.4 °F
Method: GPA 2286
Cylinder No: 1111-007985
Analyzed: 08/30/2022 13:09:41 by KNF

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.100	0.137	
Nitrogen	2.712	3.062	
Methane	65.278	42.207	
Carbon Dioxide	3.778	6.701	
Ethane	13.643	16.534	3.665
Propane	8.451	15.019	2.338
Iso-Butane	0.996	2.333	0.328
n-Butane	2.614	6.123	0.828
Iso-Pentane	0.647	1.881	0.238
n-Pentane	0.677	1.969	0.247
i-Hexanes	0.266	0.897	0.106
n-Hexane	0.142	0.490	0.058
Benzene	0.082	0.259	0.023
Cyclohexane	0.111	0.376	0.038
i-Heptanes	0.196	0.722	0.079
n-Heptane	0.042	0.169	0.019
Toluene	0.076	0.281	0.026
i-Octanes	0.123	0.520	0.054
n-Octane	0.011	0.049	0.006
Ethylbenzene	0.010	0.045	0.004
Xylenes	0.013	0.052	0.005
i-Nonanes	0.023	0.116	0.011
n-Nonane	0.004	0.022	0.002
Decanes Plus	0.005	0.036	0.003
	100.000	100.000	8.078



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Heat Trace Used: N/A
Sampling Method: Fill and Purge
Sampling Company: SPLSampled By: Arnulfo Herrera
Sample Of: Gas Spot
Sample Date: 08/26/2022
Sample Conditions: 114.5 psig, @ 115.4 °F
Method: GPA 2286
Cylinder No: 1111-007985
Analyzed: 08/30/2022 13:09:41 by KNF

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.81	143.45
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1347.6	7720.2
Water Sat. Gas Base BTU	1324.2	7549.9
Relative Density Real Gas	0.8605	4.9528
Compressibility Factor	0.9953	
Ideal, Gross HV - Wet	1317.9	
Ideal, Gross HV - Dry at 14.73 psia	1341.2	
Net BTU Dry Gas - real gas	1227	
Net BTU Wet Gas - real gas	1205	
Comments: H2S Field Content .1 %		

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 287761

DEFINITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 287761
	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 287761

QUESTIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 287761
	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	[fAPP2231962715] Ram 2-11 Fed Com Facility

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, minor 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	65
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	1,000
Carbon Dioxide (CO2) percentage, if greater than one percent	4
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 287761

QUESTIONS (continued)

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	Action Number: 287761
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/18/2023
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: High Line Pressure Gas Compressor Station Natural Gas Flared Released: 494 Mcf Recovered: 0 Mcf Lost: 494 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	No
Downstream OGRID that should have notified this operator	[372603] DKL Field Services, LLC
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	High line pressure due to compression issues at gas plant.
Steps taken to limit the duration and magnitude of vent or flare	Standard PM. Worked with midstream to coordinate service time and minimize downtime.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	No way to avoid periodic downtime for maintenance / repairs to address unforeseen conditions.

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ACKNOWLEDGMENTS

Action 287761

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	Action Number: 287761
	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 287761

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	Action Number: 287761
	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.	11/21/2023