

Certificate of Analysis

Number: 6030-22080419-002A

Artesia Laboratory 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

Paul Martinez Aug. 30, 2022

Earthstone

801 Cherry St, Suite 1200 Fort Worth, TX 76102

Station Name: Ram 2-11 1BS Fed Com 10H Sampled By: Arnulfo Hererra Station Number: 89410039 Sample Of: Gas Spot Station Location: Chicholm Sample Date: 08/26/2022

Station Location: Chisholm Sample Date: 08/26/2022
Sample Point: Meter Run Sample Conditions: 114.5 psig, @ 115.4 °F Ambient: 80 °F

Type of Sample: Spot-Cylinder Effective Date: 08/26/2022
Heat Trace Used: N/A Method: GPA 2286
Sampling Method: Fill and Purge Cylinder No: 1111-007985

Sampling Company: SPL Instrument: 6030_GC2 (Agilent GC-7890B)

Analyzed: 08/30/2022 13:11:03 by KNF 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 Physica	I Properties	Total		C6+		
Relative Density Rea	al Gas	0.8605	;	3.1355		
Calculated Molecular	r Weight	24.81		90.81		
Compressibility Factor	Compressibility Factor		}			
GPA 2172 Calculation:						
Calculated Gross B	TU per ft ³ @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU		1348	}	4852		
Water Sat. Gas Base BTU		1324	ļ	4767		
Ideal, Gross HV - Dry at 14.73 psia		1341.2	!	4851.8		
Ideal, Gross HV - Wet		1317.9	1	0.000		
Comments: H2S F	ield Content .1 %					

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

Quality Assurance:



Certificate of Analysis

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Paul Martinez Aug. 30, 2022 Earthstone

801 Cherry St, Suite 1200 Fort Worth, TX 76102

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Type of Sample: Spot-Cylinder Method: GPA 2286

Heat Trace Used: N/A Cylinder No: 1111-007985
Sampling Method: Fill and Purge Analyzed: 08/30/2022 13:09:41 by KNF

Sampling Company: SPL

Analytical Data

Components Mol. % Wt. % GPM at 14.73 psia Hydrogen Sulfide Nitrogen 0.100 0.137 0.137 0.100 0.137 Nitrogen 2.712 3.062 0.002				7 (1141) (100	i Data	
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	Components	Mol. %	Wt. %			
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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 0.005 i-Nonanes 0.023 0.116 0.011	Nitrogen	2.712	3.062			
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 0.013 0.052 0.005 i-Nonanes 0.023 0.116 0.011 n-Nonane 0.004 0.002 0.002 Decanes Plus 0.005 0.036 0.003		65.278	42.207			
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 0.013 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	Carbon Dioxide	3.778	6.701			
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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 0.002 0.002 Decanes Plus 0.005 0.036 0.003	Propane	8.451	15.019	2.338		
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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	n-Hexane	0.142	0.490	0.058		
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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	Cyclohexane	0.111	0.376	0.038		
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	i-Heptanes	0.196	0.722			
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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	Toluene	0.076	0.281	0.026		
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	i-Octanes	0.123	0.520	0.054		
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	n-Octane	0.011	0.049	0.006		
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n-Nonane 0.004 0.022 0.002 Decanes Plus 0.005 0.036 0.003	Xylenes	0.013	0.052	0.005		
Decanes Plus 0.005 0.036 0.003	i-Nonanes	0.023	0.116	0.011		
	n-Nonane					
100.000 100.000 8.078	Decanes Plus	0.005	0.036	0.003		
		100.000	100.000	8.078		



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Earthstone

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Sample Point: Meter Run

Type of Sample: Spot-Cylinder

Heat Trace Used: N/A

Sampling Method: Fill and Purge

Sampling Company: SPL

Sampled By: Arnulfo Hererra Sample Of: Gas Spot

Sample Date: 08/26/2022

Sample Conditions: 114.5 psig, @ 115.4 °F

Method: GPA 2286 Cylinder No: 1111-007985

7549.9

4.9528

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 ft ³ @ 14.73 p	sia & 60°F	
Real Gas Dry BTU	1347.6	7720.2

Real Gas Dry BTU 1347.6
Water Sat. Gas Base BTU 1324.2
Relative Density Real Gas 0.8605
Compressibility Factor 0.9953
Ideal, Gross HV - Wet 1317.9

Ideal, Gross HV - Wet1317.9Ideal, Gross HV - Dry at 14.73 psia1341.2Net BTU Dry Gas - real gas1227Net BTU Wet Gas - real gas1205

Comments: H2S Field Content .1 %

Ky 3

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 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 174404

DEFINITIONS

Operator:	OGRID:
Earthstone Operating, LLC	331165
1400 Woodloch Forest; Ste 300	Action Number:
The Woodlands, TX 77380	174404
	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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District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 174404

Phone:(505) 476-3470 Fax:(505) 476-3462		
O	UESTIONS	
Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380		OGRID:
QUESTIONS		[0-123] Venting and/or Framing (0-123)
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve	these issues before continuing wi	ith the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2231962715] Ram 2-	-11 Fed Com Facility
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers at Was this vent or flare caused by an emergency or malfunction	No	3.
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.
An appropriate shall file a form C 144 instead of a form C 100 for a release that includes liquid during u	enting and/or floring that is as ma	u ha a majar ar minar ralagas undar 10.45.00.7 NIMAC
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during v Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	y be a major or minor release under 19.13.29.7 NMAC.
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	Delek out there working or	n meters and pumps. Bol
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group. Methane (CH4) percentage	65	
Nitrogen (N2) percentage Nitrogen (N2) percentage, if greater than one percent	3	
Hydrogen Sulfide (H2S) PPM, rounded up		
	1,000	
Carbon Dioxide (C02) percentage, if greater than one percent	4	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec		
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.	

Not answered.

Oxygen (02) percentage quality requirement

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 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**

QUESTIONS, Page 2

Action 174404

QUESTIONS (continued)

Operator:	OGRID:
Earthstone Operating, LLC	331165
1400 Woodloch Forest; Ste 300	Action Number:
The Woodlands, TX 77380	174404
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	01/05/2023	
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: Repair and Maintenance Producing Well Natural Gas Flared Released: 102 Mcf Recovered: 0 Mcf Lost: 102 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	Equipment downtime emissions controlled by flare.
Steps taken to limit the duration and magnitude of vent or flare	Standard emission control of equipment downtime. Working with vendor 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 repairs to address unforeseen condition. Process equipment emissions controlled by flare.

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ACKNOWLEDGMENTS

Action 174404

ACKNOWLEDGMENTS

Operator:	OGRID:
Earthstone Operating, LLC	331165
1400 Woodloch Forest; Ste 300	Action Number:
The Woodlands, TX 77380	174404
	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.
V	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.
V	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.
V	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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 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**

CONDITIONS

Action 174404

CONDITIONS

Operator:	OGRID:
Earthstone Operating, LLC	331165
1400 Woodloch Forest; Ste 300	Action Number:
The Woodlands, TX 77380	174404
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created	y Condition	Condition Date
gkirkla	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.	1/10/2023