

Certificate of Analysis

Number: 6030-22080419-004A

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: Anaconda 11--14 3BS Fed Com 13 H Sampled By: Arnulfo Hererra Station Number: 89410032 Sample Of: Gas Spot Station Location: Chisholm Sample Date: 08/26/2022

Sample Point: Meter run Sample Conditions: 100.5 psig, @ 118 °F Ambient: 85 °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: 1111-007277

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

Analyzed: 08/30/2022 15:14:54 by KNF Last Inst. Cal.: 08/29/2022 14:11 PM

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	3.050	3.02800	3.406		GPM TOTAL C2+	9.309
Methane	64.895	64.43200	41.504		GPM TOTAL C3+	5.071
Carbon Dioxide	0.140	0.13900	0.246		GPM TOTAL iC5+	0.993
Ethane	15.884	15.77100	19.041	4.238		
Propane	9.981	9.91000	17.546	2.743		
Iso-butane	1.043	1.03600	2.418	0.341		
n-Butane	3.163	3.14000	7.328	0.994		
Iso-pentane	0.682	0.67700	1.961	0.249		
n-Pentane	0.771	0.76500	2.216	0.279		
Hexanes Plus	1.110	1.10200	4.334	0.465		
	100.719	100.00000	100.000	9.309		
Calculated Physical Properties		Tota		C6+		
Relative Density Rea	l Gas	0.8637	•	3.3615		
Calculated Molecular	Weight	24.90)	97.36		
Compressibility Factor		0.9950)			
GPA 2172 Calculation	on:					
Calculated Gross B	TU per ft ³ @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU	•	1441		5223		
Water Sat. Gas Base	BTU	1416	;	5132		
Ideal, Gross HV - Dry	at 14.73 psia	1433.8	}	5223.4		
Ideal, Gross HV - We		1408.9	1	0.000		

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:



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Station Location: Chisholm Sample Date: 08/26/2022 Sample Point: Meter run Sample Conditions: 100.5 psig, @ 118 °F

Type of Sample: Spot-Cylinder Method: GPA 2286
Heat Trace Used: N/A Cylinder No: 1111-007277

Sampling Method: Fill and Purge Analyzed: 08/30/2022 15:13:49 by KNF

Sampling Company: SPL

Analytical Data

			Analyti	Cai Data
Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.000	0.000		
Nitrogen	3.028	3.406		
Methane	64.432	41.504		
Carbon Dioxide	0.139	0.246		
Ethane	15.771	19.041	4.238	
Propane	9.910	17.546	2.743	
Iso-Butane	1.036	2.418	0.341	
n-Butane	3.140	7.328	0.994	
Iso-Pentane	0.677	1.961	0.249	
n-Pentane	0.765	2.216	0.279	
i-Hexanes	0.200	0.674	0.079	
n-Hexane	0.119	0.396	0.048	
Benzene	0.052	0.161	0.015	
Cyclohexane	0.084	0.286	0.029	
i-Heptanes	0.224	0.829	0.090	
n-Heptane	0.049	0.194	0.022	
Toluene	0.039	0.143	0.013	
i-Octanes	0.169	0.722	0.076	
n-Octane	0.019	0.090	0.010	
Ethylbenzene	0.010	0.041	0.004	
Xylenes	0.018	0.087	0.008	
i-Nonanes	0.052	0.256	0.027	
n-Nonane	0.013	0.068	0.007	
Decanes Plus	0.054	0.387	0.037	
	100.000	100.000	9.309	



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Station Name: Anaconda 11--14 3BS Fed Com 13 H

Station Number: 89410032 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

Sample Of: Arnulfo Hererra
Sample Of: Gas Spot

Sample Date: 08/26/2022

Sample Conditions:100.5 psig, @ 118 °F Method: GPA 2286 Cylinder No: 1111-007277

Analyzed: 08/30/2022 15:13:49 by KNF

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.90	161.06
GPA 2172 Calculation:		
Calculated Gross BTU per ft ³ @ 14.73 p	osia & 60°F	
Real Gas Dry BTU	1441.1	8740.5
Water Sat. Gas Base BTU	1416.0	8545.2
Relative Density Real Gas	0.8637	5.5609
Compressibility Factor	0.9950	
Ideal, Gross HV - Wet	1408.9	
Ideal, Gross HV - Dry at 14.73 psia	1433.8	
Net BTU Dry Gas - real gas	1313	
Net BTU Wet Gas - real gas	1290	

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 189837

DEFINITIONS

(Operator:	OGRID:
	Earthstone Operating, LLC	331165
	1400 Woodloch Forest; Ste 300	Action Number:
	The Woodlands, TX 77380	189837
		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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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 189837

Phone:(505) 476-3470 Fax:(505) 476-3462				
Q	UESTIONS			
Operator: Earthstone Operating, LLC		OGRID: 331165		
1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380		Action Number: 189837		
The Medianae, 1777 dec		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 wi	th the rest of the questions.		
Incident Well	Unavailable.	Unavailable.		
Incident Facility	[fAPP2231962334] Anaco	nda 11-14 Fed Com Facility		
Determination of Reporting Requirements				
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	nd may provide addional quidance	<u>.</u>		
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.		
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 ma	v be a maior 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 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	Not answered.			
Description Comments of Assets of Standard Comments				
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 Nitrogen (N2) percentage, if greater than one percent	3			
Hydrogen Sulfide (H2S) PPM, rounded up	0			
Carbon Dioxide (C02) percentage, if greater than one percent	0			
Oxygen (02) percentage, if greater than one percent	0			
	I			
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	1			
Methane (CH4) percentage quality requirement	Not answered.			
Nitrogen (N2) percentage quality requirement	Not answered.			
Hydrogen Sufide (H2S) PPM quality requirement Carbon Dioxide (C02) percentage quality requirement	Not answered			

Not answered.

Oxygen (02) percentage quality requirement

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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**

QUESTIONS, Page 2

Action 189837

QUESTIONS (CONTINUED)	QUESTIONS ((continued)	١
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Operator:	OGRID:
Earthstone Operating, LLC	331165
	Action Number:
The Woodlands, TX 77380	189837
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	10/05/2022	
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	13	

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Producing Well Natural Gas Flared Released: 447 Mcf Recovered: 0 Mcf Lost: 447 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
ls 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 189837

ACKNOWLEDGMENTS

Operator:	OGRID:
Earthstone Operating, LLC	331165
1400 Woodloch Forest; Ste 300	Action Number:
The Woodlands, TX 77380	189837
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a Venting and/or Flaring (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.
V	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.
✓	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 189837

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Operator:	OGRID:
Earthstone Operating, LLC	331165
1400 Woodloch Forest; Ste 300	Action Number:
The Woodlands, TX 77380	189837
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created		Condition
Ву		Date
jstarts	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.	2/23/2023