

Station Name:

# Certificate of Analysis

Number: 6030-22030490-001A

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

Mar. 30, 2022

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

Buffalo 12-1 Fed Com 2BS 4H Sampled By: John Whitt 29410220 Sample Of: Gas

Station Number: Spot Station Location: Chisholm Sample Date: 03/25/2022 11:09 Sample Point: Meter run Sample Conditions: 27 psig, @ 94.5 °F 03/25/2022 11:09 Type of Sample: Spot-Cylinder Effective Date: GPA-2261M Heat Trace Used: N/A Method:

Sampling Method: Fill and Purge Cylinder No: 5030-01326
Sampling Company: SPL Instrument: 70142339 (Inficon GC-MicroFusion)

Analyzed: 03/29/2022 08:08:37 by ERG Last Inst. Cal.: 03/28/2022 0:00 AM

**Analytical Data** 

Components Ur	n-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.00000	0.000		GPM TOTAL C2+	6.427
Nitrogen	4.704	4.74498	5.854		GPM TOTAL C3+	3.419
Methane	71.673	72.29937	51.084		GPM TOTAL iC5+	0.876
Carbon Dioxide	0.793	0.80003	1.551			
Ethane	11.109	11.20622	14.841	3.008		
Propane	6.025	6.07762	11.803	1.681		
Iso-butane	0.743	0.74909	1.918	0.246		
n-Butane	1.931	1.94827	4.987	0.616		
Iso-pentane	0.514	0.51859	1.648	0.190		
n-Pentane	0.516	0.52030	1.653	0.189		
Hexanes Plus	1.126	1.13553	4.661	0.497		
	99.134	100.00000	100.000	6.427		
Calculated Physical Prop	perties	Total		C6+		
Relative Density Real Gas	;	0.7868	3	3.2176		
Calculated Molecular Weig	ght	22.71		93.19		
Compressibility Factor		0.9961				
GPA 2172 Calculation:						
Calculated Gross BTU pe	er ft³ @ 14.73 ps	sia & 60°F				
Real Gas Dry BTU	-	1277	•	5141		
Water Sat. Gas Base BTU		1256	5	5052		
Ideal, Gross HV - Dry at 14	4.73 psia	1272.2	<u>)</u>	5141.1		
Ideal, Gross HV - Wet	·	1250.0	)	5051.6		

Caly Haten

Hydrocarbon Laboratory Manager

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

Quality Assurance:

Comments: H2S Field Content 0 ppm

\*\*\*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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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 189045

#### **DEFINITIONS**

Operato	n	OGRID:
	Earthstone Operating, LLC	331165
	1400 Woodloch Forest; Ste 300	Action Number:
	The Woodlands, TX 77380	189045
		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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### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 189045

Prione: (505) 476-3470 Fax: (505) 476-3462		
Q	UESTIONS	
Operator: Earthstone Operating, LLC		OGRID: 331165
1400 Woodloch Forest; Ste 300		Action Number:
The Woodlands, TX 77380		189045
		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 wit	th the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2123755150] BUFFAL	O 12-1 FED COM EAST BATTERY
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers are	nd may provide addional quidance	
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	No	
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 v		
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	De a major of millor releade under 10.10.20.1 Numbe.
Did this vent or flare result in the release of <b>ANY</b> 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.	
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.	T	
Methane (CH4) percentage	72	
Nitrogen (N2) percentage, if greater than one percent	5	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	1	
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	ifications for each gas.	
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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## **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 189045

QUESTIONS	(continued)
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Operator:	OGRID:
Earthstone Operating, LLC	331165
1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	Action Number: 189045
	Action Type: [C-129] Venting and/or Flaring (C-129)

#### QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/23/2022
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	2

Measured or Estimated Volume of Vented or Flared Natural Gas		
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure   Producing Well   Natural Gas Flared   Released: 99 Mcf   Recovered: 0 Mcf   Lost: 99 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 189045

### **ACKNOWLEDGMENTS**

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The Woodlands, TX 77380	189045
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

### **ACKNOWLEDGMENTS**

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.
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 189045

### **CONDITIONS**

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### CONDITIONS

Created By	Condition	Condition 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.	2/22/2023