



# Certificate of Analysis

Number: 6030-23020104-001A

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

Lee Weatherford  
 Steward Energy  
 2600 Dallas Pkwy Suite 400  
 Frisco, TX 75034

Feb. 14, 2023

Station Name: Heisenberg Sales Check	Sampled By: Hill
Station Number: 50518	Sample Of: Gas Spot
Station Location: Steward Energy	Sample Date: 02/11/2023
Sample Point: Meter Run	Sample Conditions: 57.6 psig, @ 85.1 °F Ambient: 53 °F
Instrument: 70104251 (Inficon GC-MicroFusion)	Effective Date: 02/11/2023
Last Inst. Cal.: 12/19/2022 0:00 AM	Method: GPA-2261M
Analyzed: 02/13/2023 13:12:26 by EBH	Cylinder No: 1111-007463

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	NIL	0.78180	1.140	
Nitrogen	3.565	3.57383	4.284	
Carbon Dioxide	5.116	5.12979	9.659	
Methane	69.308	69.48971	47.698	
Ethane	11.271	11.30009	14.538	3.033
Propane	5.477	5.49163	10.361	1.519
Iso-Butane	0.766	0.76841	1.911	0.252
n-Butane	1.717	1.72159	4.281	0.545
Iso-Pentane	0.511	0.51224	1.581	0.188
n-Pentane	0.487	0.48797	1.506	0.178
Hexanes	0.363	0.36375	1.341	0.150
Heptanes	0.277	0.27752	1.190	0.129
Octanes	0.080	0.08001	0.391	0.041
Nonanes Plus	0.022	0.02166	0.119	0.012
	<u>98.960</u>	<u>100.00000</u>	<u>100.000</u>	<u>6.047</u>

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C9+</b>
Calculated Molecular Weight	23.37	128.26
Compressibility Factor	0.9960	
Relative Density Real Gas	0.8099	4.4283

**GPA 2172 Calculation:**

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

Real Gas Dry BTU	1212.9	7012.5
Water Sat. Gas Base BTU	1192.2	6890.4
Ideal, Gross HV - Dry at 14.73 psia	1208.1	7012.5
Ideal, Gross HV - Wet	1187.0	6890.4

**Comments:** note nitrogen  
 insufficient sample for rerun  
 H2S Field Content 7818 ppm

Hydrocarbon 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 302165

**DEFINITIONS**

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 302165
	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 302165

**QUESTIONS**

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	Action Number: 302165
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**QUESTIONS**

<b>Prerequisites</b>	
<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	[fAPP2305749306] Heisenberg Tank Battery

<b>Determination of Reporting Requirements</b>	
<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, major 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Gas Plant
Additional details for Equipment Involved. Please specify	Campo Viejo Train I complete needed tie ins to Campo Train II, completion on the Estacado AGI well, KM meter upgrade, LCEC substation upgrade, and other maintenance items on Campo Viejo Train I.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	69
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	7,818
Carbon Dioxide (CO2) percentage, if greater than one percent	5
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 302165

**QUESTIONS (continued)**

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	Action Number: 302165
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/09/2024
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	09:22 PM
Cumulative hours during this event	31

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 Plant   Natural Gas Flared   Released: 1,326 Mcf   Recovered: 0 Mcf   Lost: 1,326 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	[371874] STAKEHOLDER GAS SERVICES, LLC
Date notified of downstream activity requiring this vent or flare	12/15/2023
Time notified of downstream activity requiring this vent or flare	10:00 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.	True
Please explain reason for why this event was beyond this operator's control	All gas is connected to Stakeholder Midstream Gas Pipeline. Any flaring is due to an upset at their plant or within their gathering system.
Steps taken to limit the duration and magnitude of vent or flare	All gas is connected to Stakeholder Midstream Gas Pipeline. Any flaring is due to an upset at their plant or within their gathering system.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Stakeholder is proceeding with the addition of a second gas processing train for capacity expansion of the Campo Viejo Gas Processing Plant. The work will be completed as quickly as possible to bring the plant back online.



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ACKNOWLEDGMENTS

Action 302165

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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 <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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

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**CONDITIONS**

Created By	Condition	Condition Date
jquine	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.	1/10/2024