



# Certificate of Analysis

Number: 6030-24080213-001A

**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

Aug. 14, 2024

Station Name: Heisenberg Battery	Sampled By: CW
Station Number: 50518	Sample Of: Gas Spot
Station Location: Steward Energy	Sample Date: 08/08/2024
Sample Point: Meter Run	Sample Conditions: 29.5 psig, @ 119.2 °F
H2S: H2S Determined by Tutwiler	Effective Date: 08/08/2024
Instrument: 6030_GC2 (Agilent GC-7890B)	Flow Rate: 1542.9 MSCFD
Last Inst. Cal.: 08/13/2024 10:48 AM	Method: GPA 2286
Analyzed: 08/14/2024 08:05:39 by EBH	Cylinder No: 5030-03015

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0000	1.1830	1.6960		GPM TOTAL C2+ 5.947
Nitrogen	3.8850	3.9090	4.6070		GPM TOTAL C3+ 3.019
Methane	68.6470	69.0720	46.6180		GPM TOTAL iC5+ 0.954
Carbon Dioxide	5.3300	5.3630	9.9300		
Ethane	10.8400	10.9070	13.7980	2.928	
Propane	4.8340	4.8640	9.0240	1.345	
Iso-butane	0.6780	0.6820	1.6680	0.225	
n-Butane	1.5550	1.5650	3.8270	0.495	
Iso-pentane	0.5200	0.5230	1.5880	0.192	
n-Pentane	0.5260	0.5290	1.6060	0.192	
Hexanes Plus	1.3940	1.4030	5.6380	0.570	
	98.2090	100.0000	100.0000	5.947	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8234	3.2803
Calculated Molecular Weight	23.77	95.01
Compressibility Factor	0.9960	
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft³ @ 14.73 psia &amp; 60°F</b>		
Real Gas Dry BTU	1214	5046
Water Sat. Gas Base BTU	1193	4958
Ideal, Gross HV - Dry at 14.73 psia	1209.4	5046.1
Ideal, Gross HV - Wet	1188.3	0.000

**Comments:** H2S Field Content 11826 ppm

Hydrocarbon 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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Aug. 14, 2024

Station Name: Heisenberg Battery  
 Station Number: 50518  
 Station Location: Steward Energy  
 Sample Point: Meter Run  
 H2S: H2S Determined by Tutwiler  
 Analyzed: 08/14/2024 08:03:34 by EBH

Sampled By: CW  
 Sample Of: Gas Spot  
 Sample Date: 08/08/2024  
 Sample Conditions: 29.5 psig, @ 119.2 °F  
 Method: GPA 2286  
 Cylinder No: 5030-03015

**Analytical Data**

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	1.183	1.696	
Nitrogen	3.909	4.607	
Methane	69.072	46.618	
Carbon Dioxide	5.363	9.930	
Ethane	10.907	13.798	2.928
Propane	4.864	9.024	1.345
Iso-Butane	0.682	1.668	0.225
n-Butane	1.565	3.827	0.495
Iso-Pentane	0.523	1.588	0.192
n-Pentane	0.529	1.606	0.192
i-Hexanes	0.280	0.994	0.112
n-Hexane	0.164	0.589	0.067
Benzene	0.182	0.586	0.050
Cyclohexane	0.075	0.266	0.026
i-Heptanes	0.215	0.855	0.088
n-Heptane	0.060	0.253	0.028
Toluene	0.091	0.356	0.031
i-Octanes	0.132	0.600	0.061
n-Octane	0.003	0.015	0.001
Ethylbenzene	0.036	0.161	0.014
Xylenes	0.023	0.111	0.009
i-Nonanes	0.069	0.352	0.035
n-Nonane	0.016	0.084	0.009
Decanes Plus	0.057	0.416	0.039
	<u>100.000</u>	<u>100.000</u>	<u>5.947</u>



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Aug. 14, 2024

Station Name: Heisenberg Battery  
Station Number: 50518  
Station Location: Steward Energy  
Sample Point: Meter Run  
H2S: H2S Determined by Tutwiler  
Analyzed: 08/14/2024 08:03:34 by EBH

Sampled By: CW  
Sample Of: Gas Spot  
Sample Date: 08/08/2024  
Sample Conditions: 29.5 psig, @ 119.2 °F  
Method: GPA 2286  
Cylinder No: 5030-03015

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	23.77	160.53
<b>GPA 2172 Calculation:</b>		
<b>Calculated Gross BTU per ft<sup>3</sup> @ 14.73 psia &amp; 60°F</b>		
Real Gas Dry BTU	1214.3	8668.2
Water Sat. Gas Base BTU	1193.1	8483.0
Relative Density Real Gas	0.8234	5.5427
Compressibility Factor	0.9960	
Ideal, Gross HV - Wet	1188.3	
Ideal, Gross HV - Dry at 14.73 psia	1209.4	
Net BTU Dry Gas - real gas	1104	
Net BTU Wet Gas - real gas	1085	

**Comments:** H2S Field Content 11826 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.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

DEFINITIONS

Action 589552

**DEFINITIONS**

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 589552
	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 589552

**QUESTIONS**

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 589552
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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	No
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

<b>Equipment Involved</b>	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

<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	11,826
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 589552

**QUESTIONS (continued)**

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 589552
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/21/2026
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	08:00 AM
Cumulative hours during this event	1

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   Producing Well   Natural Gas Flared   Released: 81 Mcf   Recovered: 0 Mcf   Lost: 81 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	[334178] Targa San Andres Gas Utility 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 from Plant
Steps taken to limit the duration and magnitude of vent or flare	Worked to get all gas back into plant as soon as possible.
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 589552

**ACKNOWLEDGMENTS**

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 589552
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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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	Action Number: 589552
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
nwhite01	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.	5/28/2026