



# Certificate of Analysis

Number: 6030-23050173-001A

**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

May 15, 2023

Station Name: Dog Bar Battery	Sampled By: CW
Station Number: 1462131	Sample Of: Gas Spot
Station Location: Steward	Sample Date: 05/10/2023
Sample Point: Meter Run	Sample Conditions: 56.3 psig, @ 127.7 °F Ambient: 90.0 °F
Instrument: 6030_GC2 (Agilent GC-7890B)	Effective Date: 05/10/2023
Last Inst. Cal.: 03/03/2023 9:31 AM	Method: GPA 2286
Analyzed: 05/15/2023 10:37:10 by EBH	Cylinder No: 5030-01264

## Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.000	1.14800	1.586		GPM TOTAL C2+ 6.902
Nitrogen	4.586	4.51900	5.132		GPM TOTAL C3+ 3.558
Methane	65.970	65.00100	42.279		GPM TOTAL iC5+ 0.991
Carbon Dioxide	5.542	5.46100	9.744		
Ethane	12.638	12.45200	15.180	3.344	
Propane	6.190	6.09900	10.904	1.687	
Iso-butane	0.841	0.82900	1.953	0.273	
n-Butane	1.948	1.91900	4.522	0.607	
Iso-pentane	0.605	0.59600	1.743	0.219	
n-Pentane	0.605	0.59600	1.743	0.216	
Hexanes Plus	1.401	1.38000	5.214	0.556	
	<u>100.326</u>	<u>100.00000</u>	<u>100.000</u>	<u>6.902</u>	

<b>Calculated Physical Properties</b>	<b>Total</b>	<b>C6+</b>
Relative Density Real Gas	0.8551	3.2249
Calculated Molecular Weight	24.67	93.40
Compressibility Factor	0.9956	

**GPA 2172 Calculation:**

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

Real Gas Dry BTU	1252	4975
Water Sat. Gas Base BTU	1230	4888
Ideal, Gross HV - Dry at 14.73 psia	1246.3	4974.6
Ideal, Gross HV - Wet	1224.6	0.000

**Comments:** H2S Field Content 11484 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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May 15, 2023

Station Name: Dog Bar Battery  
 Station Number: 1462131  
 Station Location: Steward  
 Sample Point: Meter Run  
 Analyzed: 05/15/2023 10:34:57 by EBH

Sampled By: CW  
 Sample Of: Gas Spot  
 Sample Date: 05/10/2023  
 Sample Conditions: 56.3 psig, @ 127.7 °F  
 Method: GPA 2286  
 Cylinder No: 5030-01264

**Analytical Data**

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	1.148	1.586	
Nitrogen	4.519	5.132	
Methane	65.001	42.279	
Carbon Dioxide	5.461	9.744	
Ethane	12.452	15.180	3.344
Propane	6.099	10.904	1.687
Iso-Butane	0.829	1.953	0.273
n-Butane	1.919	4.522	0.607
Iso-Pentane	0.596	1.743	0.219
n-Pentane	0.596	1.743	0.216
i-Hexanes	0.306	1.044	0.122
n-Hexane	0.178	0.613	0.073
Benzene	0.162	0.514	0.045
Cyclohexane	0.076	0.260	0.026
i-Heptanes	0.227	0.852	0.092
n-Heptane	0.060	0.243	0.028
Toluene	0.081	0.301	0.027
i-Octanes	0.130	0.563	0.060
n-Octane	0.019	0.090	0.010
Ethylbenzene	0.027	0.118	0.010
Xylenes	0.017	0.082	0.007
i-Nonanes	0.040	0.185	0.019
n-Nonane	0.012	0.058	0.007
Decanes Plus	0.045	0.291	0.030
	<u>100.000</u>	<u>100.000</u>	<u>6.902</u>



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May 15, 2023

Station Name: Dog Bar Battery  
Station Number: 1462131  
Station Location: Steward  
Sample Point: Meter Run  
Analyzed: 05/15/2023 10:34:57 by EBH

Sampled By: CW  
Sample Of: Gas Spot  
Sample Date: 05/10/2023  
Sample Conditions: 56.3 psig, @ 127.7 °F  
Method: GPA 2286  
Cylinder No: 5030-01264

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.67	154.82
<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	1251.8	8369.4
Water Sat. Gas Base BTU	1230.0	8187.9
Relative Density Real Gas	0.8551	5.3454
Compressibility Factor	0.9956	
Ideal, Gross HV - Wet	1224.6	
Ideal, Gross HV - Dry at 14.73 psia	1246.3	
Net BTU Dry Gas - real gas	1139	
Net BTU Wet Gas - real gas	1119	

Comments: H2S Field Content 11484 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 546241

**DEFINITIONS**

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 546241
	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 546241

**QUESTIONS**

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 546241
	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	[fAPP2305745823] DOG BAR 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	65
Nitrogen (N2) percentage, if greater than one percent	5
Hydrogen Sulfide (H2S) PPM, rounded up	11,480
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 546241

**QUESTIONS (continued)**

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 546241
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/13/2025
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	4

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: 55 Mcf   Recovered: 0 Mcf   Lost: 55 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	[712133] STAKEHOLDER MIDSTREAM 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	Curtailed by gas purchaser
Steps taken to limit the duration and magnitude of vent or flare	No way to avoid periodic downtime for maintenance / repairs to address unforeseen conditions.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Standard PM. Worked with midstream to coordinate service time and minimize downtime.



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ACKNOWLEDGMENTS

Action 546241

**ACKNOWLEDGMENTS**

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	Action Number: 546241
	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

Action 546241

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	Action Number: 546241
	Action Type: [C-129] Venting and/or Flaring (C-129)

**CONDITIONS**

Created By	Condition	Condition Date
cforrest	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.	1/26/2026