



Certificate of Analysis

Number: 6030-24080213-002A

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: Salamanca Battery

Station Number: 50521

Station Location: Steward Energy

Sample Point: Meter Run

H2S: H2S Determined by Tutwiler

Instrument: 6030_GC2 (Agilent GC-7890B)

Last Inst. Cal.: 08/13/2024 10:48 AM

Analyzed: 08/14/2024 07:37:19 by EBH

Sampled By: CW

Sample Of: Gas Spot

Sample Date: 08/08/2024

Sample Conditions: 25.2 psig, @ 118.9 °F Ambient: 97.0 °F

Effective Date: 08/08/2024

Flow Rate: 459.3 MSCFD

Method: GPA 2286

Cylinder No: 1111-007154

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.0000	0.8020	1.1220		GPM TOTAL C2+	6.480
Nitrogen	4.0090	4.0330	4.6370		GPM TOTAL C3+	3.458
Methane	66.7090	67.1160	44.1970		GPM TOTAL iC5+	1.020
Carbon Dioxide	5.7160	5.7510	10.3890			
Ethane	11.1860	11.2540	13.8900	3.022		
Propane	5.7200	5.7550	10.4160	1.592		
Iso-butane	0.7940	0.7990	1.9060	0.263		
n-Butane	1.8320	1.8430	4.3970	0.583		
Iso-pentane	0.6200	0.6240	1.8480	0.230		
n-Pentane	0.6330	0.6370	1.8860	0.232		
Hexanes Plus	1.3780	1.3860	5.3120	0.558		
	98.5970	100.0000	100.0000	6.480		

Calculated Physical Properties

Relative Density Real Gas 0.8443 3.2161

Calculated Molecular Weight 24.36 93.15

Compressibility Factor 0.9958

GPA 2172 Calculation:

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

Real Gas Dry BTU 1240 4960

Water Sat. Gas Base BTU 1219 4874

Ideal, Gross HV - Dry at 14.73 psia 1235.0 4959.8

Ideal, Gross HV - Wet 1213.5 0.000

Comments: H2S Field Content 8016 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: Salamanca Battery
Station Number: 50521
Station Location: Steward Energy
Sample Point: Meter Run
H₂S: H₂S Determined by Tutwiler
Analyzed: 08/14/2024 07:35:36 by EBHSampled By: CW
Sample Of: Gas Spot
Sample Date: 08/08/2024
Sample Conditions: 25.2 psig, @ 118.9 °F
Method: GPA 2286
Cylinder No: 1111-007154

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Hydrogen Sulfide	0.802	1.122	
Nitrogen	4.033	4.637	
Methane	67.116	44.197	
Carbon Dioxide	5.751	10.389	
Ethane	11.254	13.890	3.022
Propane	5.755	10.416	1.592
Iso-Butane	0.799	1.906	0.263
n-Butane	1.843	4.397	0.583
Iso-Pentane	0.624	1.848	0.230
n-Pentane	0.637	1.886	0.232
i-Hexanes	0.316	1.095	0.126
n-Hexane	0.178	0.640	0.075
Benzene	0.172	0.552	0.048
Cyclohexane	0.078	0.270	0.026
i-Heptanes	0.230	0.870	0.093
n-Heptane	0.060	0.245	0.028
Toluene	0.080	0.302	0.027
i-Octanes	0.122	0.543	0.056
n-Octane	0.003	0.013	0.001
Ethylbenzene	0.025	0.108	0.010
Xylenes	0.017	0.076	0.007
i-Nonanes	0.054	0.266	0.027
n-Nonane	0.010	0.052	0.006
Decanes Plus	0.041	0.280	0.028
	100.000	100.000	6.480



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Aug. 14, 2024

Station Name:	Salamanca Battery	Sampled By:	CW
Station Number:	50521	Sample Of:	Gas Spot
Station Location:	Steward Energy	Sample Date:	08/08/2024
Sample Point:	Meter Run	Sample Conditions:	25.2 psig, @ 118.9 °F
H2S:	H2S Determined by Tutwiler	Method:	GPA 2286
Analyzed:	08/14/2024 07:35:36 by EBH	Cylinder No:	1111-007154

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	24.36	160.56
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1240.3	8667.3
Water Sat. Gas Base BTU	1218.7	8480.2
Relative Density Real Gas	0.8443	5.5438
Compressibility Factor	0.9958	
Ideal, Gross HV - Wet	1213.5	
Ideal, Gross HV - Dry at 14.73 psia	1235.0	
Net BTU Dry Gas - real gas	1128	
Net BTU Wet Gas - real gas	1108	

Comments: H2S Field Content 8016 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 623524

DEFINITIONS

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 623524
	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 623524

QUESTIONS

Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 623524
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites <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	[fAPP2305750725] SALAMANCA TANK BATTERY

Determination of Reporting Requirements <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

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 <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	67
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	8,016
Carbon Dioxide (CO2) percentage, if greater than one percent	6
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 623524

QUESTIONS (continued)

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	Action Number: 623524
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/01/2026
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	10:00 AM
Cumulative hours during this event	3

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: 59 Mcf Recovered: 0 Mcf Lost: 59 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 623524

ACKNOWLEDGMENTS

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	Action Number: 623524
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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 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 623524

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Operator: BURK ROYALTY CO., LTD. P.O. Box 94903 Wichita Falls, TX 76308	OGRID: 3053
	Action Number: 623524
	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.	9/10/2026