ARMSTRONG GAS LABS, INC.
P.O. Box 988
Monahans, Texas 79756
(432) 943-8844 (FAX) 943-8855

GAS ANALYSIS REPORT

Hagberry 9 Battery 1

Analysis No.: 312289
Customer: Centennial

Component	Mol. %	(Ideal) BTU	(Ideal) SG	(Real) GPM
Nitrogen	1.2724	0.000	0.012	
Methane	72.2841	727.784	0.400	
CO2	5.5249	0.000	0.084	
Ethane	10.5324	185.808	0.109	2.812
H2S	0.0020	0.000	0.000	
Propane	5.9620	149.540	0.091	1.640
Iso-Butane	0.9181	29.762	0.018	0.300
Butane	1.9257	62.625	0.039	0.606
Iso-Pentane	0.4204	16.767	0.010	0.154
Pentane	0.3372	13.475	0.008	0.122
Hexanes C6+	0.8208	41.969	0.026	0.358
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1227.732	0.799	5.992

Producer: Centennial
Well / Sta. Name: Hagberry 9 State Com 501H
Sta. No.: 9596
Formation:
Field: New Mexico
County:
API Number: 3002546136

Spot / Composite: SP
Date / Time On:
Date / Time Off: 08/09/21
Date to Lab: 08/09/21
Date Analyzed: 08/11/21
Effective Date:

Sample Press. (PSIG): 104
Line Press. (PSIG): 104
Sample Temp. (F): 75
Fl. Gas Temp. (F): 75
Amb. Temp. (F): 72

Del. To:
Sampled By: JL
Cylinder No.: 761

Field H2O (#/mm):
Field H2S (PPM): 20.0
Field H2S (Grains): 1.26

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9959824
Z Factor (Act.): 0.9959824

Dry BTU w/ H2S: 1232.70
Sat BTU w/ H2S: 1211.61
As Del. BTU w/ H2S: 1232.70

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1232.68
Sat. BTU W/O H2S (Real): 1211.60
H2O (# / mmcf): 0.0
AS DEL. BTU W/O H2S (Real): 1232.68
BTU Calc: Dry
Sp. Gravity (Real): 0.8020
Field Gravity:
Lab Gravitometer:

GPM Ethane+ (Real): 5.992
GPM Propane+ (Real): 3.180
GPM IC5+ (Real): 0.634

Fld. Remarks:
Lab Remarks:

Preliminary Production Data

Well Name	Production Date	Gas Flare
Hagberry 9 Battery 1	10/19/2022	1514 mcf

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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

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 223183
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 223183

QUESTIONS

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	Action Number: 223183
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Prerequisites	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Operator	**[372165] Permian Resources Operating, LLC**
Incident Type	**Flare**
Incident Status	**Closure Not Approved**
Incident Well	*Unavailable.*
Incident Facility	**[fAPP2220947787] Hagberry 9 Battery 1**
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
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.**
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.	
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 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.	
Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	6
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications 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.*
Oxygen (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/19/2022
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	24

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 | Treating Tower | Natural Gas Flared | Released: 1,514 Mcf | Recovered: 0 Mcf | Lost: 1,514 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	[24650] TARGA MIDSTREAM SERVICES LLC
Date notified of downstream activity requiring this vent or flare	10/03/2022
Time notified of downstream activity requiring this vent or flare	09:39 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	Highline pressure & Valkyrie unit can't keep up. Lucid had compressor DT
Steps taken to limit the duration and magnitude of vent or flare	Open valves to divert gas to a second midstream company to relive pressure off the line.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Clear consistent communication with midstream provider.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☑	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
☑	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
☑	I hereby certify the statements in this amending 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 223183

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CONDITIONS

Created By	Condition	Condition Date
cbauer	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	6/2/2023