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

GAS ANALYSIS REPORT

Chimichangas 12 CTB 2

Analysis No.: 321085
Customer: Centennial

Component	Mol. %	(Ideal) BTU	(Ideal) SG	(Real) GPM
Nitrogen	1.6249	0.000	0.016	
Methane	72.8084	733.063	0.403	
CO2	2.0583	0.000	0.031	
Ethane	12.2322	215.796	0.127	3.266
H2S	0.0005	0.000	0.000	
Propane	6.6881	167.753	0.102	1.840
Iso-Butane	0.8622	27.950	0.017	0.282
Butane	1.9908	64.743	0.040	0.627
Iso-Pentane	0.4846	19.328	0.012	0.177
Pentane	0.4627	18.490	0.012	0.167
Hexanes C6+	0.7873	40.256	0.025	0.343
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1287.378	0.785	6.702

Producer: Centennial
Well / Sta. Name: Chimichangas 12 State 501H
Sta. No.: 50908
Formation:
Field: New Mexico
County:
API Number: 3002549580

Spot / Composite: SP
Date / Time On:
Date / Time Off: 04/05/22
Date to Lab: 04/08/22
Date Analyzed: 04/08/22
Effective Date:

Sample Press. (PSIG): 181
Line Press. (PSIG): 181
Sample Temp. (F): 107
Fl. Gas Temp. (F): 107
Amb. Temp. (F): 73

Del. To:
Sampled By: JL
Cylinder No.: AGL-857

Field H2O (#/mm):
Field H2S (PPM): 5.0
Field H2S (Grains): 0.31

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9959109
Z Factor (Act.): 0.9959109

Dry BTU w/ H2S: 1292.67
Sat BTU w/ H2S: 1270.56
As Del. BTU w/ H2S: 1292.67

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1292.66
Sat. BTU W/O H2S (Real): 1270.55
H2O (# / mmcf): 0.0
AS DEL. BTU W/O H2S (Real): 1292.66
BTU Calc: Dry
Sp. Gravity (Real): 0.7882
Field Gravity:
Lab Gravitometer:

GPM Ethane+ (Real): 6.702
GPM Propane+ (Real): 3.436
GPM IC5+ (Real): 0.687

Fld. Remarks: FLOW RATE 2200 / FIRST SAMPLE TO LAB
Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 321086
Customer: Centennial

Component	Mol. %	(Ideal) BTU	(Ideal) SG	(Real) GPM
Nitrogen	1.6714	0.000	0.016	
Methane	73.7543	742.587	0.409	
CO2	2.3060	0.000	0.035	
Ethane	11.5518	203.792	0.120	3.084
H2S	0.0010	0.000	0.000	
Propane	6.2149	155.884	0.095	1.709
Iso-Butane	0.8176	26.504	0.016	0.267
Butane	1.9181	62.378	0.038	0.604
Iso-Pentane	0.4914	19.599	0.012	0.179
Pentane	0.4698	18.774	0.012	0.170
Hexanes C6+	0.8037	41.095	0.026	0.350
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1270.613	0.779	6.363

Producer: Centennial
Well / Sta. Name: Chimichangas 12 State 502H
Sta. No.: 50909
Formation:
Field: New Mexico
County:
API Number: 3002549581

Spot / Composite: SP
Date / Time On:
Date / Time Off: 04/05/22
Date to Lab: 04/08/22
Date Analyzed: 04/08/22
Effective Date:

Sample Press. (PSIG): 195
Line Press. (PSIG): 195
Sample Temp. (F): 119
Fl. Gas Temp. (F): 119
Amb. Temp. (F): 73

Del. To:
Sampled By: JL
Cylinder No.: AGL-852

Field H2O (#/mm):
Field H2S (PPM): 10.0
Field H2S (Grains): 0.63

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9960070
Z Factor (Act.): 0.9960070

Dry BTU w/ H2S: 1275.71
Sat BTU w/ H2S: 1253.89
As Del. BTU w/ H2S: 1275.71

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1275.71
Sat. BTU W/O H2S (Real): 1253.88
H2O (# / mmcf): 0.0
AS DEL. BTU W/O H2S (Real): 1275.71
BTU Calc: Dry
Sp. Gravity (Real): 0.7818
Field Gravity:
Lab Gravitometer:

GPM Ethane+ (Real): 6.363
GPM Propane+ (Real): 3.279
GPM IC5+ (Real): 0.699

Fld. Remarks: FLOW RATE 2700 / FIRST SAMPLE TO LAB
Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 321087
Customer: Centennial

Component	Mol. %	(Ideal) BTU	(Ideal) SG	(Real) GPM
Nitrogen	1.7108	0.000	0.017	
Methane	74.2127	747.202	0.411	
CO2	2.5778	0.000	0.039	
Ethane	11.2780	198.962	0.117	3.011
H2S	0.0015	0.000	0.000	
Propane	5.9878	150.187	0.091	1.647
Iso-Butane	0.7813	25.328	0.016	0.255
Butane	1.8210	59.221	0.037	0.573
Iso-Pentane	0.4668	18.618	0.012	0.170
Pentane	0.4426	17.687	0.011	0.160
Hexanes C6+	0.7197	36.799	0.023	0.314
Hydrogen	N/A			
Helium	N/A			
Oxygen	N/A			
CO	N/A			
Totals	100.0000	1254.004	0.773	6.130

Producer: Centennial
Well / Sta. Name: Chimichangas 12 State 503H
Sta. No.: 50907
Formation:
Field: New Mexico
County:
API Number: 3002549582

Spot / Composite: SP
Date / Time On:
Date / Time Off: 04/05/22
Date to Lab: 04/08/22
Date Analyzed: 04/08/22
Effective Date:

Sample Press. (PSIG): 224
Line Press. (PSIG): 224
Sample Temp. (F): 117
Fl. Gas Temp. (F): 117
Amb. Temp. (F): 73

Del. To:
Sampled By: JL
Cylinder No.: AGL-841

Field H2O (#/mm):
Field H2S (PPM): 15.0
Field H2S (Grains): 0.94

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9961035
Z Factor (Act.): 0.9961035

Dry BTU w/ H2S: 1258.92
Sat BTU w/ H2S: 1237.38
As Del. BTU w/ H2S: 1258.92

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1258.91
Sat. BTU W/O H2S (Real): 1237.37
H2O (# / mmcf): 0.0
AS DEL. BTU W/O H2S (Real): 1258.91
BTU Calc: Dry
Sp. Gravity (Real): 0.7758
Field Gravity:
Lab Gravitometer:

GPM Ethane+ (Real): 6.130
GPM Propane+ (Real): 3.119
GPM IC5+ (Real): 0.644

Fld. Remarks: FLOW RATE 3100 / FIRST SAMPLE TO LAB
Lab Remarks:

Preliminary Production Data

Well Name	Production Date	Gas Flare
Chimichangas 12 CTB 2	8/17/2023	640 mcf

District I
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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: 255675
	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 255675

QUESTIONS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 255675
	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	**[fAPP2220762496] Chimichangas 12 CTB 2**
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	73
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	2
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)

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 255675
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/17/2023
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: High Line Pressure | Pipeline (Any) | Natural Gas Flared | Released: 640 Mcf | Recovered: 0 Mcf | Lost: 640 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	No
Was notification of downstream activity received by this operator	*Not answered.*
Downstream OGRID that should have notified this operator	*Not answered.*
Date notified of downstream activity requiring this vent or flare	
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	VRU down due to high line pressure
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

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 255675
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 255675

CONDITIONS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 255675
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
chcentennial	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.	8/22/2023