

**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

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
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

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

GPA 2145 / 2172

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

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 321086
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
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

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

GPA 2145 / 2172

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

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 321087
 Customer: Centennial

<u>Component</u>	<u>Mol. %</u>	<u>(Ideal)</u> <u>BTU</u>	<u>(Ideal)</u> <u>SG</u>	<u>(Real)</u> <u>GPM</u>	
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

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

GPA 2145 / 2172

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

Lab Remarks:

Preliminary Production Data

<u>Well Name</u>	<u>Production Date</u>	<u>Gas Flare</u>
Chimichangas 12 CTB 2	1/25/2023	233 mcf

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1625 N. French Dr., Hobbs, NM 88240
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District IV
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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

Action 185207

DEFINITIONS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 185207
	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 185207

QUESTIONS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 185207
	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	[fAPP2220762496] Chimichangas 12 CTB 2

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	Yes
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	73
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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 185207

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 185207
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/25/2023
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: Equipment Failure Tank (Any) Natural Gas Flared Released: 233 Mcf Recovered: 0 Mcf Lost: 233 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	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	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

Action 185207

ACKNOWLEDGMENTS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 185207
	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 185207

CONDITIONS

Operator: Permian Resources Operating, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 185207
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
chcentennial	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.	2/12/2023