

ARMSTRONG GAS LABS, INC.

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

GAS ANALYSIS REPORT

Analysis No.: 342063
 Customer: Centennial

Component	Mol. %	(Ideal) BTU	(Ideal) SG	(Real) GPM	Producer:	Centennial
Nitrogen	0.5538	0.000	0.005		Well / Sta. Name:	PACMAN 26 FED COM 301H-602H VRU
Methane	38.0753	383.357	0.211		Sta. No.:	99679
CO2	4.1179	0.000	0.063		Formation:	
Ethane	18.4720	325.876	0.192	4.965	Field:	New Mexico
H2S	0.0300	0.000	0.000		County:	
Propane	19.2872	483.766	0.294	5.340	API Number:	N/L
Iso-Butane	3.3965	110.105	0.068	1.117	Spot / Composite:	SP
Butane	8.6069	279.904	0.173	2.727	Date / Time On:	
Iso-Pentane	2.5294	100.882	0.063	0.930	Date / Time Off:	06/25/24
Pentane	2.3338	93.262	0.058	0.850	Date to Lab:	07/02/24
Hexanes C6+	2.5972	132.799	0.084	1.139	Date Analyzed:	07/03/24
Hydrogen	N/A				Effective Date:	
Helium	N/A				Sample Press. (PSIG):	58
Oxygen	N/A				Line Press. (PSIG):	58
CO	N/A				Sample Temp. (F):	141
Totals	100.0000	1909.951	1.210	17.068	Fl. Gas Temp. (F):	141
					Amb. Temp. (F):	81
					Del. To:	
					Sampled By:	IF
					Cylinder No.:	448

Field H2O (#/mm):

Field H2S (PPM): 300.0

Field H2S (Grains): 18.88

Pressure Base: 14.65

Temp. Base: 60

Z Factor (Dry): 0.9893212

Z Factor (Act.): 0.9893212

Dry BTU w/ H2S: 1930.76

Sat BTU w/ H2S: 1897.92

As Del. BTU w/ H2S: 1930.76

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1930.57

Sat. BTU W/O H2S (Real): 1897.73

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1930.57

BTU Calc: Dry

Sp. Gravity (Real): 1.2228

Field Gravity:

Lab Gravimeter:

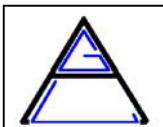
GPM Ethane+ (Real): 17.068

GPM Propane+ (Real): 12.103

GPM IC5+ (Real): 2.919

Fld. Remarks: TAG: NO API PER WHITNEY

Lab Remarks: HIGH TEMP



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GAS ANALYSIS REPORT

Analysis No.: 342064
 Customer: Centennial

Component	Mol. %	(Ideal) BTU	(Ideal) SG	(Real) GPM	Producer: Centennial
Nitrogen	3.1760	0.000	0.031		Well / Sta. Name: QUESO BLANCO 13 STATE COM 302H
Methane	63.3425	637.757	0.351		Sta. No.: N/L
CO2	9.6793	0.000	0.147		Formation:
Ethane	11.6897	206.225	0.121	3.123	Field: New Mexico
H2S	0.0800	0.000	0.001		County:
Propane	6.8220	171.111	0.104	1.877	API Number: 3002552447
Iso-Butane	0.8148	26.414	0.016	0.266	Spot / Composite: SP
Butane	2.1387	69.552	0.043	0.673	Date / Time On:
Iso-Pentane	0.5542	22.104	0.014	0.202	Date / Time Off: 06/29/24
Pentane	0.5693	22.750	0.014	0.206	Date to Lab: 07/02/24
Hexanes C6+	1.1335	57.958	0.036	0.494	Date Analyzed: 07/03/24
Hydrogen	N/A				Effective Date:
Helium	N/A				Sample Press. (PSIG): 144
Oxygen	N/A				Line Press. (PSIG): 144
CO	N/A				Sample Temp. (F): 112
Totals	100.0000	1213.870	0.879	6.841	Fl. Gas Temp. (F): 112
					Amb. Temp. (F): 91
					Del. To:
					Sampled By: IF
					Cylinder No.: 849

Field H2O (#/mm):

Field H2S (PPM): 800.0

Field H2S (Grains): 50.35

Pressure Base: 14.65

Temp. Base: 60

Z Factor (Dry): 0.9954867

Z Factor (Act.): 0.9954867

Dry BTU w/ H2S: 1219.88

Sat BTU w/ H2S: 1199.03

As Del. BTU w/ H2S: 1219.88

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1219.37

Sat. BTU W/O H2S (Real): 1198.53

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1219.37

BTU Calc: Dry

Sp. Gravity (Real): 0.8822

Field Gravity:

Lab Gravimeter:

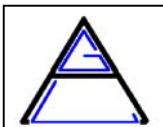
GPM Ethane+ (Real): 6.841

GPM Propane+ (Real): 3.718

GPM IC5+ (Real): 0.902

Fld. Remarks:

Lab Remarks: CP @ LAB 120 PSIG



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GAS ANALYSIS REPORT

Analysis No.: 342065
 Customer: Centennial

Component	Mol. %	(Ideal) BTU	(Ideal) SG	(Real) GPM	Producer: Centennial
Nitrogen	2.9697	0.000	0.029		Well / Sta. Name: QUESO BLANCO 13 STATE COM 301H
Methane	62.5669	629.948	0.347		Sta. No.: N/L
CO2	10.9683	0.000	0.167		Formation:
Ethane	11.7190	206.742	0.122	3.130	Field: New Mexico
H2S	0.1000	0.000	0.001		County:
Propane	6.7811	170.085	0.103	1.866	API Number: 3002552446
Iso-Butane	0.8027	26.021	0.016	0.262	Spot / Composite: SP
Butane	2.1021	68.362	0.042	0.662	Date / Time On:
Iso-Pentane	0.5538	22.088	0.014	0.202	Date / Time Off: 06/29/24
Pentane	0.5708	22.810	0.014	0.207	Date to Lab: 07/02/24
Hexanes C6+	0.8656	44.260	0.028	0.377	Date Analyzed: 07/03/24
Hydrogen	N/A				Effective Date:
Helium	N/A				Sample Press. (PSIG): 145
Oxygen	N/A				Line Press. (PSIG): 145
CO	N/A				Sample Temp. (F): 118
Totals	100.0000	1190.316	0.882	6.706	Fl. Gas Temp. (F): 118
					Amb. Temp. (F): 103
					Del. To:
					Sampled By: IF
					Cylinder No.: 769

Field H2O (#/mm):

Field H2S (PPM): 1,000.0

Field H2S (Grains): 62.93

Pressure Base: 14.65

Temp. Base: 60

Z Factor (Dry): 0.9955397

Z Factor (Act.): 0.9955397

Dry BTU w/ H2S: 1196.29

Sat BTU w/ H2S: 1175.84

As Del. BTU w/ H2S: 1196.29

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1195.65

Sat. BTU W/O H2S (Real): 1175.21

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1195.65

BTU Calc: Dry

Sp. Gravity (Real): 0.8858

Field Gravity:

Lab Gravimeter:

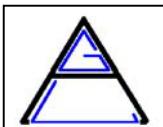
GPM Ethane+ (Real): 6.706

GPM Propane+ (Real): 3.576

GPM IC5+ (Real): 0.786

Fld. Remarks:

Lab Remarks:



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GAS ANALYSIS REPORT

Analysis No.: 342066
 Customer: Centennial

Component	Mol. %	(Ideal) BTU	(Ideal) SG	(Real) GPM	Producer: Centennial
Nitrogen	3.3170	0.000	0.032		Well / Sta. Name: SOLOMON FED COM 105H INJ
Methane	72.6573	731.542	0.402		Sta. No.: T230497409
CO2	8.5278	0.000	0.130		Formation: NEW MEXICO
Ethane	8.3424	147.173	0.087	2.226	County: N/L
H2S	0.0002	0.000	0.000		API Number: N/L
Propane	4.1572	104.272	0.063	1.143	Spot / Composite: SP
Iso-Butane	0.5322	17.252	0.011	0.174	Date / Time On:
Butane	1.2708	41.328	0.026	0.400	Date / Time Off: 06/25/24
Iso-Pentane	0.3658	14.589	0.009	0.133	Date to Lab: 07/02/24
Pentane	0.3409	13.623	0.008	0.123	Date Analyzed: 07/03/24
Hexanes C6+	0.4884	24.973	0.016	0.213	Effective Date:
Hydrogen	N/A				Sample Press. (PSIG): 986
Helium	N/A				Line Press. (PSIG): 986
Oxygen	N/A				Sample Temp. (F): 129
CO	N/A				Fl. Gas Temp. (F): 129
Totals	100.0000	1094.752	0.784	4.412	Amb. Temp. (F): 101
					Del. To:
					Sampled By: IF
					Cylinder No.: 759

Field H2O (#/mm):

Field H2S (PPM): 2.0

Field H2S (Grains): 0.13

Pressure Base: 14.65

Temp. Base: 60

Z Factor (Dry): 0.9965539

Z Factor (Act.): 0.9965539

Dry BTU w/ H2S: 1098.54

Sat BTU w/ H2S: 1079.73

As Del. BTU w/ H2S: 1098.54

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1098.54

Sat. BTU W/O H2S (Real): 1079.73

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1098.54

BTU Calc: Dry

Sp. Gravity (Real): 0.7859

Field Gravity:

Lab Gravimeter:

GPM Ethane+ (Real): 4.412

GPM Propane+ (Real): 2.186

GPM IC5+ (Real): 0.469

Fld. Remarks: TAG: NO API PER WHITNEY

Lab Remarks: CP @ LAB 800 PSIG / HIGH TEMP

PERMIAN

RESOURCES

Permian Resources meters all flared volumes, and volumes reported on C-129's in connection with flaring events are based on the available meter readings. While Permian Resources reports metered volumes on C-129 submissions, PR reviews the metered data for accuracy, reconciles any discovered discrepancies, and, where appropriate, submits amended C-129 reported volumes post-reconciliation to ensure accurate reporting.

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 541045

DEFINITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 541045
	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 541045

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165 Action Number: 541045 Action Type: [C-129] Venting and/or Flaring (C-129)
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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 Well	Unavailable.
Incident Facility	[FAPP2220949621] Pac-Man 36 CTB 1

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional 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, minor 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 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

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	38
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	4
Oxygen (O2) 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 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 541045

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 541045
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/30/2025
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	11:00 PM
Cumulative hours during this event	23

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Tank (Any) Natural Gas Flared Released: 163 Mcf Recovered: 0 Mcf Lost: 163 Mcf.
Other Released Details	<i>Not answered.</i>
Additional details for Measured or Estimated Volume(s). Please specify	<i>Not answered.</i>
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	<i>Not answered.</i>
Downstream OGRID that should have notified this operator	<i>Not answered.</i>
Date notified of downstream activity requiring this vent or flare	<i>Not answered.</i>
Time notified of downstream activity requiring this vent or flare	<i>Not answered.</i>

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 downtime
Steps taken to limit the duration and magnitude of vent or flare	Open valves to divert gas to a second midstream company to relieve 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 541045

ACKNOWLEDGMENTS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 541045
	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 complete 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 541045

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 541045
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
jdoolingpr	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.	1/7/2026