

**ARMSTRONG GAS LABS, INC.**

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

GAS ANALYSIS REPORT

Analysis No.: 242769
 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	3.5879	0.000	0.035		
Methane	71.6322	721.221	0.397		
CO2	7.7598	0.000	0.118		
Ethane	9.2291	162.816	0.096	2.463	
H2S	0.0006	0.000	0.000		
Propane	4.6136	115.719	0.070	1.268	
Iso-Butane	0.5546	17.979	0.011	0.181	
Butane	1.4286	46.459	0.029	0.449	
Iso-Pentane	0.3195	12.743	0.008	0.117	
Pentane	0.3592	14.354	0.009	0.130	
Hexanes C6+	0.5149	26.328	0.017	0.224	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1117.619	0.789	4.832	

Producer: Centennial
Well / Sta. Name: Raider 701H FedCom
Sta. No.: 24869
Formation:
Field: New Mexico
County:
API Number: 3002546427

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 08/27/24
 Date to Lab: 09/03/24
 Date Analyzed: 09/03/24
 Effective Date:

Sample Press. (PSIG): 56
 Line Press. (PSIG): 56
 Sample Temp. (F): 80
 Fl. Gas Temp. (F): 80
 Amb. Temp. (F): 83

Del. To:
 Sampled By: EL
 Cylinder No.: 465

Field H2O (#/mm):

Field H2S (PPM): 6.0
 Field H2S (Grains): 0.38

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9964616
 Z Factor (Act.): 0.9964616

Dry BTU w/ H2S: 1121.59

Sat BTU w/ H2S: 1102.39

As Del. BTU w/ H2S: 1121.59

Dry BTU W/O H2S (Real): 1121.59

Sat. BTU W/O H2S (Real): 1102.38

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1121.59

BTU Calc: Dry

Sp. Gravity (Real): 0.7912

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.832

GPM Propane+ (Real): 2.369

GPM IC5+ (Real): 0.471

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks: CP @ LAB 100 PSIG

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GAS ANALYSIS REPORT

Analysis No.: 242770
 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	4.0959	0.000	0.040		
Methane	71.0166	715.023	0.393		
CO2	8.5857	0.000	0.130		
Ethane	8.4969	149.899	0.088	2.267	
H2S	0.0100	0.000	0.000		
Propane	4.4867	112.537	0.068	1.233	
Iso-Butane	0.5796	18.789	0.012	0.189	
Butane	1.4602	47.487	0.029	0.459	
Iso-Pentane	0.3694	14.733	0.009	0.135	
Pentane	0.3633	14.518	0.009	0.131	
Hexanes C6+	0.5357	27.391	0.017	0.233	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1100.376	0.797	4.647	

Producer: Centennial
Well / Sta. Name: Raider Fed Com 302H
Sta. No.: 62958
Formation:
Field: New Mexico
County:
API Number: 3002548391

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 08/27/24
 Date to Lab: 09/03/24
 Date Analyzed: 09/03/24
 Effective Date:

Sample Press. (PSIG): 144
 Line Press. (PSIG): 144
 Sample Temp. (F): 84
 Fl. Gas Temp. (F): 84
 Amb. Temp. (F): 83

Del. To:
 Sampled By: EL
 Cylinder No.: 827

Field H2O (#/mm):

Field H2S (PPM): 100.0
 Field H2S (Grains): 6.29

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9964747
 Z Factor (Act.): 0.9964747

Dry BTU w/ H2S: 1104.33

Sat BTU w/ H2S: 1085.42

As Del. BTU w/ H2S: 1104.33

Dry BTU W/O H2S (Real): 1104.27

Sat. BTU W/O H2S (Real): 1085.36

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1104.27

BTU Calc: Dry

Sp. Gravity (Real): 0.7990

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 4.647

GPM Propane+ (Real): 2.380

GPM IC5+ (Real): 0.499

GPA 2145 / 2172

Fld. Remarks:

Lab Remarks:

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GAS ANALYSIS REPORT

Analysis No.: 342983
 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	2.6360	0.000	0.025		
Methane	73.9128	744.183	0.409		
CO2	4.1172	0.000	0.063		
Ethane	10.5471	186.068	0.109	2.815	
H2S	0.0002	0.000	0.000		
Propane	5.3132	133.267	0.081	1.461	
Iso-Butane	0.6336	20.540	0.013	0.207	
Butane	1.5746	51.207	0.032	0.495	
Iso-Pentane	0.3756	14.980	0.009	0.137	
Pentane	0.3675	14.686	0.009	0.133	
Hexanes C6+	0.5222	26.701	0.017	0.227	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1191.631	0.767	5.475	

Producer:
Well / Sta. Name: CHORIZO 602-503 SUCTION
Sta. No.: 7118
Formation:
Field: New Mexico
County:
API Number: N/L

Spot / Composite: SP
 Date / Time On:
 Date / Time Off: 09/03/24
 Date to Lab: 09/04/24
 Date Analyzed: 09/04/24
 Effective Date:

Sample Press. (PSIG): 66
 Line Press. (PSIG): 66
 Sample Temp. (F): 64
 Fl. Gas Temp. (F): 64
 Amb. Temp. (F): 65

Del. To:
 Sampled By: JH
 Cylinder No.: 743

Field H2O (#/mm):

Field H2S (PPM): 2.0
 Field H2S (Grains): 0.13

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9963627
 Z Factor (Act.): 0.9963627

Dry BTU w/ H2S: 1195.98
 Sat BTU w/ H2S: 1175.51
 As Del. BTU w/ H2S: 1195.98

Dry BTU W/O H2S (Real): 1195.98
Sat. BTU W/O H2S (Real): 1175.51
H2O (# / mmcf): 0.0
AS DEL. BTU W/O H2S (Real): 1195.98

BTU Calc: Dry

Sp. Gravity (Real): 0.7700
 Field Gravity:
 Lab Gravitometer:

GPM Ethane+ (Real): 5.475
GPM Propane+ (Real): 2.660
GPM IC5+ (Real): 0.497

GPA 2145 / 2172

Fld. Remarks: TAG: NO API PER WHITNEY

Lab Remarks: TAG: RUSH

Volumes associated with this C-129 filing are estimations and may be subject to change as data is reconciled. The operator's current practice consists of metering volumes and report in accordance with NMAC 19.15.27.

For inquiries regarding this filing, please contact the operator.

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 440639

DEFINITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 440639
	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 440639

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 440639
	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	[fAPP2220951259] Raider 21 Battery 1

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 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 <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	66
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	13
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 440639

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 440639
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/01/2025
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	02:00 PM
Cumulative hours during this event	8

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: 76 Mcf Recovered: 0 Mcf Lost: 76 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 offline due to O2 issues
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 440639

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	Action Number: 440639
	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 440639

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 440639
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cdowning	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.	3/10/2025