



ARMSTRONG GAS LABS, INC.

P.O. Box 988
 Monahans, Texas 79756
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GAS ANALYSIS REPORT

Analysis No.: 440251
 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	2.9790	0.000	0.029		Producer: Centennial Well / Sta. Name: Raider 502-701 Sale Check Sta. No.: 30601 Formation: Field: New Mexico County: API Number: N/L Spot / Composite: SP Date / Time On: Date / Time Off: 01/30/24 Date to Lab: 02/01/24 Date Analyzed: 02/01/24 Effective Date: Sample Press. (PSIG): 123 Line Press. (PSIG): 123 Sample Temp. (F): 84 Fl. Gas Temp. (F): 84 Amb. Temp. (F): 65 Del. To: Sampled By: SA Cylinder No.: 842
Methane	71.1392	716.257	0.394		
CO2	6.7937	0.000	0.103		
Ethane	10.2119	180.154	0.106	2.726	
H2S	0.0010	0.000	0.000		
Propane	5.5284	138.665	0.084	1.520	
Iso-Butane	0.6292	20.397	0.013	0.205	
Butane	1.5179	49.363	0.030	0.478	
Iso-Pentane	0.3513	14.011	0.009	0.128	
Pentane	0.3431	13.711	0.009	0.124	
Hexanes C6+	0.5053	25.837	0.016	0.220	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Totals	100.0000	1158.395	0.793	5.401	

Field H2O (#/mm):

Field H2S (PPM): 10.0
 Field H2S (Grains): 0.63

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9962985
 Z Factor (Act.): 0.9962985

Dry BTU w/ H2S: 1162.71
Sat BTU w/ H2S: 1142.80
As Del. BTU w/ H2S: 1162.71

Dry BTU W/O H2S (Real): 1162.70

Sat. BTU W/O H2S (Real): 1142.80

H2O (# / mmcf): 0.0

AS DEL. BTU W/O H2S (Real): 1162.70

BTU Calc: Dry

Sp. Gravity (Real): 0.7956

Field Gravity:

Lab Gravitometer:

GPM Ethane+ (Real): 5.401

GPM Propane+ (Real): 2.675

GPM IC5+ (Real): 0.472

GPA 2145 / 2172

Fld. Remarks: TAG: NO API PER WHITNEY

Lab Remarks:

Preliminary Production Data

<u>Well Name</u>	<u>Production Date</u>	<u>Gas Flare</u>
Raider 21 CTB 1	3/17/2024	49 mcf

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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 328590

DEFINITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 328590
	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 328590

QUESTIONS

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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	[fAPP2220951546] Raider Fed Com CTB 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, answer to "eight hours or more" suggests this is at least a minor event.
<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	No
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	71
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	7
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

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/17/2024
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: Pipeline Quality Specifications Tank (Any) Natural Gas Flared Released: 49 Mcf Recovered: 0 Mcf Lost: 49 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 is running but O2 levels are high, so gas is diverted to MP Flare
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

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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

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CONDITIONS

Created By	Condition	Condition Date
cmevans	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.	4/1/2024