

## ARMSTRONG GAS LABS, INC.

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

### **GAS ANALYSIS REPORT**

Analysis No.: 211713

Customer: Centennial

Component	<u>Mol. %</u>	(Ideal) <u>BTU</u>	(Ideal) <u>SG</u>	(Real) <u>GPM</u>	Producer:	Centennial
					Well / Sta. Name:	Raider Federal Com 101H
Nitrogen	4.1107	0.000	0.040		Sta. No.:	5795
Methane	66.6689	671.248	0.369		Formation:	
CO2	12.2214	0.000	0.186		Field:	New Mexico
Ethane	8.7592	154.526	0.091	2.338	County:	
H2S	0.0300	0.000	0.000		API Number:	3002543408
Propane	4.6686	117.099	0.071	1.284		
Iso-Butane	0.5979	19.382	0.012	0.195	Spot / Composite:	SP
Butane	1.5186	49.386	0.030	0.478	Date / Time On:	
Iso-Pentane	0.4187	16.699	0.010	0.153	Date / Time Off:	08/16/21
Pentane	0.4081	16.308	0.010	0.148	Date to Lab:	08/17/21
Hexanes C6+	0.5979	30.572	0.019	0.260	Date Analyzed:	08/18/21
					Effective Date:	
Hydrogen	N/A				Sample Press. (PSIG):	44
Helium	N/A				Line Press. (PSIG):	44
Oxygen	N/A				Sample Temp. (F):	80
CO	N/A				Fl. Gas Temp. (F):	80
					Amb. Temp. (F):	72
Totals	100.0000	1075.221	0.839	4.856		
					Del. To:	
					Sampled By:	JL
					Cylinder No.:	AGL-701
					]	

Field H2O (#/mm):

Field H2S (PPM): 300.0 Dry BTU W/O H2S (Real): 1079.27 Field H2S (Grains): 18.88 Sat. BTU W/O H2S (Real): 1060.80

H2O (# / mmcf): 0.0

Pressure Base: 14.65 AS DEL. BTU W/O H2S (Real): 1079.27
Temp. Base: 60 BTU Cal

BTU Calc: Dry

Z Factor (Dry): 0.9962530 Sp. Gravity (Real): 0.8422

Z Factor (Act.): 0.9962530 Lab Gravitometer:

Dry BTU w/ H2S: 1079.46
Sat BTU w/ H2S: 1060.98

As Del. BTU w/ H2S: 1079.46

GPM Ethane+ (Real): 4.856

GPM Propane+ (Real): 2.518

GPA 2145 / 2172 GPM IC5+ (Real): 0.561

Fld. Remarks: FLOW RATE 475

Lab Remarks:

\*Preliminary Production Data\*

Well NameProduction DateGas FlareRaider 21 Battery 111/16/2023142 mcf

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

Action 288864

### **DEFINITIONS**

Operator:	OGRID:
Permian Resources Operating, LLC	372165
1001 17th Street, Suite 1800	Action Number:
Denver, CO 80202	288864
	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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1220 S. St Francis Dr., Santa Fe, NM 87505

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 288864

Phone:(505) 476-3470 Fax:(505) 476-3462		
Q	UESTIONS	
Operator:		OGRID:
Permian Resources Operating, LLC 1001 17th Street, Suite 1800		372165 Action Number:
Denver, CO 80202		288864
		Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS		
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve	these issues before continuing w	ith the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2220951259] Raide	r 21 Battery 1
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a		e.
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	r 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 v	venting and/or flaring that is or ma	y 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 <b>ANY</b> 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.	
<u></u>		
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.	Τ	
Methane (CH4) percentage	67	
Nitrogen (N2) percentage, if greater than one percent	4	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	12	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	cifications 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.	

Not answered.

Oxygen (02) percentage quality requirement

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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**

QUESTIONS, Page 2

Action 288864

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator: Permian Resources Operating, LLC	OGRID: 372165
1001 17th Street, Suite 1800	Action Number:
Denver, CO 80202	288864 Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/16/2023
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
Managed on Fratimated Values of Vanted on Flored Natural Con-	
Measured or Estimated Volume of Vented or Flared Natural Gas	T
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Pipeline Quality Specifications   Pipeline (Any)   Natural Gas Flared   Released: 142 Mcf   Recovered: 0 Mcf   Lost: 142 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.
Market Barrier Barrier Barrier Barrier	
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	Hit Raider CDP with high H2S - flared most of the day to clean system
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 11/28midstream provider.

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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**

ACKNOWLEDGMENTS

Action 288864

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
Permian Resources Operating, LLC	372165
1001 17th Street, Suite 1800	Action Number:
Denver, CO 80202	288864
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### **ACKNOWLEDGMENTS**

$\overline{\lor}$	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 <b>a complete</b> 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.
V	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.
V	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.
<b>V</b>	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 288864

### **CONDITIONS**

Operator:	OGRID:
Permian Resources Operating, LLC	372165
1001 17th Street, Suite 1800	Action Number:
Denver, CO 80202	288864
	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.	11/28/2023