



ARMSTRONG GAS LABS, INC.

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

GAS ANALYSIS REPORT

Analysis No.: 160312
Customer: Permian Resources

Component	Mol. %	(Ideal)	(Ideal)	(Real)	Producer: Permian Resources
		BTU	SG	GPM	
Nitrogen	1.4856	0.000	0.014		Well / Sta. Name: LOVE SHACK FEDERAL COM 111H
Methane	76.0375	765.575	0.421		Sta. No.:
CO2	5.7371	0.000	0.087		Formation:
Ethane	8.7333	154.069	0.091	2.331	Field: New Mexico
H2S	0.0250	0.000	0.000		County:
Propane	4.5889	115.100	0.070	1.262	API Number: 3002548401
Iso-Butane	0.7128	23.107	0.014	0.233	Spot / Composite: SP
Butane	1.5156	49.289	0.030	0.477	Date / Time On:
Iso-Pentane	0.3964	15.810	0.010	0.145	Date / Time Off: 12/19/25
Pentane	0.3203	12.800	0.008	0.116	Date to Lab: 01/27/26
Hexanes C6+	0.4475	22.881	0.014	0.195	Date Analyzed: 01/29/26
					Effective Date:
Hydrogen	N/A				Sample Press. (PSIG): 179
Helium	N/A				Line Press. (PSIG): 179
Oxygen	N/A				Sample Temp. (F): 72
CO	N/A				Fl. Gas Temp. (F): 72
Totals	100.0000	1158.631	0.761	4.759	Amb. Temp. (F): 44
					Del. To:
					Sampled By: QG
					Cylinder No.: 816

Field H2O (#/mm):
Field H2S (PPM): 250.0
Field H2S (Grains): 15.73

Pressure Base: 14.65
Temp. Base: 60

Z Factor (Dry): 0.9964725
Z Factor (Act.): 0.9964725

Dry BTU w/ H2S: 1162.89
Sat BTU w/ H2S: 1142.88
As Del. BTU w/ H2S: 1162.89

GPA 2145 / 2172

Dry BTU W/O H2S (Real): 1162.73
 Sat. BTU W/O H2S (Real): 1142.82
 H2O (# / mmcf): 0.0
 AS DEL. BTU W/O H2S (Real): 1162.73
BTU Calc: Dry
 Sp. Gravity (Real): 0.7629
 Field Gravity:
 Lab Gravitometer:
 GPM Ethane+ (Real): 4.759
 GPM Propane+ (Real): 2.428
 GPM IC5+ (Real): 0.456

Field Remarks:
Lab Remarks:

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 561637

DEFINITIONS

Operator: Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 331165
	Action Number: 561637
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 561637

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	Action Number: 561637
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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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2123840782] EL CAMPEON CTB 17N
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

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	No
Is this considered a submission for a vent or flare event	Yes, major 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	76
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	6
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	03/02/2026
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	11:00 AM
Cumulative hours during this event	5

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: High Line Pressure Tank (Any) Natural Gas Flared Released: 675 Mcf Recovered: 0 Mcf Lost: 675 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	
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	Targa had units down at Station
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 with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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
jdoolingpr	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	3/11/2026