



C9+ Analysis

GPA 2172/API 14.5 Report with GPA 2145 Physical Properties

Sample Information

		Sample Information
Sample Name		OCOTILLO 2H CHECK 6-19-25
Operator		Permian Resources
Lease		OCOTILLO 2H CHECK
Sample Date/Time:	Effective Date:	6-19-25 7:48 AM
Sample End Date		
Laboratory		Premier Measurement and Laboratory Services
Technician		AN
Analyzer Type		Gas Chromatograph - TCD
Analyzer Make & Model		Agilent Micro GC 3000
Last Calibration/Validation Date		6-16-2025
Sample Temperature		87 F
Sample Pressure		591 PSI
Sample Flow Rate		1426 MCF
Ambient Temperature		78 F
Heat Tracing		No
Sample Type		Spot
Sampling Method		Fill and Purge
Company Collecting Sample		LSM
Sampled By		TH
Cylinder #		1724
Mole, Weight, or Percent (For Flowcal DON'T EDIT)		M
Sample Calculation Method(For Flowcal DON'T EDIT)		GPA 2172/API 14.5 Report with GPA 2145 Physical Properties
Analysis Date		2025-06-20 10:30:51

Component Results

Component Name	Un-Normalized Mole%	Norm Mole%	
Nitrogen	1.0690	1.0589	
Carbon Dioxide	0.0960	0.0951	
Methane	83.2380	82.4498	
Ethane	10.4870	10.3877	
Propane	3.8340	3.7977	
isobutane	0.5180	0.5131	

Component Name	Un-Normalized Mole%	Norm Mole%	
n-Butane	0.9570	0.9479	
isopentane	0.2110	0.2090	
n-Pentane	0.2030	0.2011	
hexanes	0.2190	0.2169	
heptanes	0.0870	0.0862	
octanes	0.0270	0.0267	
nonanes+	0.0100	0.0099	
hydrogen sulfide	0.0000	0.0000	
Total:	100.9560	100.0000	

Results Summary

Result	Dry	Wet/Sat	
Total Un-Normalized Mole%	100.9560		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Gross Heating Value (BTU / Ideal cu.ft.)	1196.3	1175.5	
Gross Heating Value (BTU / Real cu.ft.)	1200.1	1179.7	
Relative Density (G), Ideal	0.6845	0.6834	
Relative Density (G), Real	0.6864	0.6856	
Compressibility (Z) Factor	0.9968	0.9965	
Total GPM	18.753	18.534	



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 537024

DEFINITIONS

Operator: Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 331165
	Action Number: 537024
	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 537024

QUESTIONS

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	Action Number: 537024
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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	[fAPP2123833170] OCOTILLO 6-31 STATE COM BATTERY
<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	82
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	0
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 537024

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/12/2025
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	01:00 PM
Cumulative hours during this event	7

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 Pipeline (Any) Natural Gas Flared Released: 507 Mcf Recovered: 0 Mcf Lost: 507 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	
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	Sales compressor busted a seal on the cooler. Sales comp down
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

☒	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.
☒	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.
☒	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.
☒	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

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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.	12/23/2025