

C9+ AnalysisGPA 2172/API 14.5 Report with GPA 2145 Physical Properties

Sample Information

		Sample Information
Sample Name		ASTEROID 20-29 FC 1H
Operator		Permian Resources
Lease		ASTEROID 20-29 FC 1H
Sample Date/Time:	Effective Date:	10-23-24
Sample End Date		
Laboratory		Laboratory Services and Measurement
Technician		LC
Analyzer Type		Gas Chromatograph - TCD
Analyzer Make & Model		Shimadzu GC 2014
Last Calibration/Validation Date		11-18-24
Sample Temperature		92 F
Sample Pressure		175 PSI
Sample Flow Rate		450 MCF
Ambient Temperature		90 F
Heat Tracing		No
Sample Type		Spot
Sampling Method		Fill and Purge
Company Collecting Sample		LSM
Sampled By		James Hill
Cylinder #		2179
Mole, Weight, or Percent (For Fl	lowcal 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		2024-11-19 14:27:56

Component Results

Component Name	Un-Normalized Mole%	Norm Mole%
Nitrogen	1.0910	1.0611
Carbon Dioxide	0.3520	0.3424
Methane	76.8950	74.7887
Ethane	11.9270	11.6003
Propane	6.1070	5.9397
isobutane	0.8120	0.7898

Component Name	Un-Normalized Mole%	Norm Mole%
n-Butane	2.0580	2.0016
isopentane	0.6240	0.6069
n-Pentane	0.8020	0.7800
hexanes	1.3670	1.3296
heptanes	0.4980	0.4844
octanes	0.1840	0.1790
nonanes+	0.0990	0.0963
hydrogen sulfide	0.0003	0.0002
Total:	102.8163	100.0000

Results Summary

Result	Dry	Wet/Sat
Total Un-Normalized Mole%	102.8163	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Gross Heating Value (BTU / Ideal cu.ft.)	1367.6	1343.8
Gross Heating Value (BTU / Real cu.ft.)	1373.8	1350.5
Relative Density (G), Ideal	0.7988	0.7957
Relative Density (G), Real	0.8021	0.7994
Compressibility (Z) Factor	0.9955	0.9950
Total GPM	19.989	19.749

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.

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 481298

DEFINITIONS

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	481298
	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 481298

Ql	JESTIONS	
Operator:		OGRID:
Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000		331165 Action Number:
Midland, TX 79701		481298
		Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS		[O 120] Forming units Finding (O 120)
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve t	hese issues before continuing witi	h the rest of the questions
		The rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2124450095] ASTERO	DID 20-29 FED BATTERY
Determination of Departing Dequipments		
Determination of Reporting Requirements Answer all questions that apply. The Reason(s) statements are calculated based on your answers an	nd may provide addional quidance	
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 f	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 vi	onting and/or flaring that is or may	ho a major or minor release under 10 15 20 7 NMAC
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	be a major of militor release under 19.10.29.7 NVIAC.
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	103	
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		
Please provide the mole percent for the percentage questions in this group.	77	
Methane (CH4) percentage Nitrogen (N2) percentage, if greater than one percent	77	
Hydrogen Sulfide (H2S) PPM, rounded up	1	
Carbon Dioxide (C02) percentage, if greater than one percent	0	
Oxygen (02) percentage, if greater than one percent	0	
Onygon (02) percentage, ii greater than one percent	•	
If you are venting and/or flaring because of Pipeline Specification, please provide the required speci		
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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QUESTIONS, Page 2

Action 481298

OUFSTI	ONS (continued)
Operator:	OGRID:
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	Action Type: [C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/24/2025
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: Equipment Failure Separator Natural Gas Flared Released: 54 Mcf Recovered: 0 Mcf Lost: 54 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
ls this a gas only submission (i.e. only significant Mcf values reported)	Veg according to cumulate values this appears to be a "gas only" report
is this a gas only submission (i.e. only significant wor 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	Compressor dump hung open
Thease explain reason for why this event was beyond this operator's control	Compressor dump many open
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
I control of the cont	1

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ACKNOWLEDGMENTS

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	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a Venting and/or Flaring (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.
V	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.
V	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 Date
jdoolingpr	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.	7/2/2025