



C9+ Analysis

GPA 2172-19/API 14.5 Report with GPA 2145-16 Physical Properties

Sample Information

	Sample Information
Sample Name	SUN 502H
Operator	Franklin Mountain Energy
Lease	SUN 502H
PA#	
CA#	
Sample Date/Time:	12-16-24 6:37 AM
Effective Date	
Laboratory	Laboratory Services and Measurement
Technician	OR
Analyzer Type	Gas Chromatograph - TCD
Analyzer Make & Model	Agilent Micro GC 3000
Last Calibration/Validation Date	12-30-24
Sample Temperature	74 F
Sample Pressure	104 PSI
Sample Flow Rate	142 MCF
Ambient Temperature	40 F
Heat Tracing	No
Sample Type	Spot
Sampling Method	Fill and Purge
Company Collecting Sample	Blackhawk Measurement Consulting
Sampled By	HM
Cylinder #	1570
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
Date Reported	2025-01-03 08:43:40

Component Results

Component Name	Un-Normalized Mole%	Norm Mole%	GPM (Dry) (Gal. / 1000 cu.ft.)	GPM (Sat) (Gal. / 1000 cu.ft.)	
Nitrogen	2.8940	2.9176	0.000	0.000	
Carbon Dioxide	3.0710	3.0960	0.000	0.000	
Methane	59.9570	60.4453	0.000	0.000	
Ethane	15.0980	15.2210	4.070	4.001	

Component Name	Un-Normalized Mole%	Norm Mole%	GPM (Dry) (Gal. / 1000 cu.ft.)	GPM (Sat) (Gal. / 1000 cu.ft.)	
Propane	10.8710	10.9596	3.019	2.968	
isobutane	1.2180	1.2279	0.402	0.395	
n-Butane	2.9010	2.9246	0.922	0.906	
isopentane	0.7230	0.7289	0.267	0.262	
n-Pentane	0.6850	0.6906	0.250	0.246	
hexanes	0.9270	0.9346	0.384	0.378	
heptanes	0.5270	0.5313	0.245	0.241	
octanes	0.1820	0.1835	0.094	0.092	
nonanes+	0.0880	0.0887	0.050	0.049	
hydrogen sulfide	0.0500	0.0504	0.007	0.007	
Total:	99.1920	100.0000	9.710	9.644	

Results Summary

Result	Dry	Wet/Sat	
Total Un-Normalized Mole%	99.1920		
Pressure Base (psia)	14.650		
Temperature Base (Deg. F)	60.00		
Gross Heating Value (BTU / Ideal cu.ft.)	1435.0	1409.9	
Gross Heating Value (BTU / Real cu.ft.)	1443.0	1418.4	
Relative Density (G), Ideal	0.9116	0.9065	
Relative Density (G), Real	0.9163	0.9116	
Compressibility (Z) Factor	0.9944	0.9940	
Total GPM	9.710	9.644	

Facility ID
fAPP2415728220 - Sun/Roadrunner CTB
Date/Time Flaring/Venting Began:
2025-01-15 00:01:00
Date/Time Flaring/Venting Ended:
2025-01-15 23:59:00
Cumulative Hours Of Event:
24.0
Total (MCF)
105.96
Index
3444

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 421485

DEFINITIONS

Operator: Franklin Mountain Energy 3, LLC 44 Cook Street Denver, CO 80206	OGRID: 331595
	Action Number: 421485
	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 421485

QUESTIONS

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	Action Number: 421485
	Action Type: [C-129] Venting and/or Flaring (C-129)

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	[fAPP2415728220] Sun/Roadrunner CTB

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	Yes
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 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	60
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	504
Carbon Dioxide (CO2) percentage, if greater than one percent	3
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	01/15/2025
Time vent or flare was discovered or commenced	12:01 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: High Line Pressure Generator Natural Gas Flared Released: 105 Mcf Recovered: 0 Mcf Lost: 105 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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[332407] CRUSOE ENERGY SYSTEMS LLC
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	Crusoe shut down due to needing repairs on their generators
Steps taken to limit the duration and magnitude of vent or flare	Continually talking with Crusoe to monitor amount of gas generators are taking
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Continue to discuss runtime and volumes on daily meetings and group chats

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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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	Action Number: 421485
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CONDITIONS

Created By	Condition	Condition Date
ygelfand	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.	1/16/2025