



Natural Gas Analysis Report

GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

	Sample Information
Sample Name	14. GUACAMOLE 24-23 FED 11H, 12H INLET
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	03-02-2023
Meter Number	NA
Air temperature	64
Flow Rate (MCF/Day)	NA
Heat Tracing	Heated Hose & Gasifier
Sample description/mtr name	14. GUACAMOLE 24-23 FED 11H, 12H INLET
Sampling Method	fill and empty
Operator	OCCIDENTAL PETROLEUM
State	New Mexico
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	WEST
FLOC	NA
Sample Sub Type	NA
Sample Name Type	NA
Vendor	AKM MEASUREMENT
Cylinder #	AKM-12
Sampled by	JONATHAN ALDRICH
Sample date	3-1-2023
Analyzed date	3-2-2023
Method Name	C9
Injection Date	2023-03-02 11:39:11
Report Date	2023-03-02 11:44:16
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	567d0df1-ae9c-4994-a5eb-15895d8b6bdb
NGA Phys. Property Data Source	GPA Standard 2145-16 (FPS)
Data Source	INFICON Fusion Connector

Component Results

Component Name	Peak Area	Raw Amount	Response Factor	Norm Mole%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)	
Nitrogen	31226.1	1.7599	0.00005636	1.7604	0.0	0.01703	0.194	
Methane	1030355.6	75.4898	0.00007327	75.5140	764.5	0.41827	12.849	
CO2	6979.5	0.3299	0.00004726	0.3300	0.0	0.00501	0.057	
Ethane	261346.6	11.8931	0.00004551	11.8969	211.0	0.12351	3.193	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	180334.6	5.9093	0.00003277	5.9112	149.1	0.09000	1.635	
iso-butane	75660.1	0.8409	0.00001111	0.8411	27.4	0.01688	0.276	
n-Butane	179454.8	1.9712	0.00001098	1.9718	64.5	0.03957	0.624	
iso-pentane	50082.8	0.4865	0.00000971	0.4866	19.5	0.01212	0.179	
n-Pentane	59378.4	0.5622	0.00000947	0.5624	22.6	0.01401	0.205	
hexanes	46029.0	0.3497	0.00000760	0.3498	16.7	0.01041	0.144	
heptanes	43806.0	0.2736	0.00000624	0.2737	15.1	0.00947	0.127	
octanes	16838.0	0.0939	0.00000558	0.0939	5.9	0.00370	0.048	
nonanes+	1321.0	0.0082	0.00000619	0.0082	0.6	0.00036	0.005	
Total:		99.9681		100.0000	1296.8	0.76035	19.536	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.9681		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	0.0		
Flowing Temperature (Deg. F)	37.0		

Result	Dry	Sat.	
Gross Heating Value (BTU / Ideal cu.ft.)	1296.8	1274.2	
Gross Heating Value (BTU / Real cu.ft.)	1301.9	1279.8	
Relative Density (G), Real	0.7630	0.7609	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.9681	97.0000	103.0000	Pass	

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM**Well Pad:** Guacamole CC 24-23 Fed 12 H**Vent Date:** 04/05/2024**Duration of Event:** 24 Hours**MCF Vented:** 72**Start Time:** 12:00 AM**End Time:** 11:59 PM**Cause:** Well Pad > Third Party Vendor > Kodiak Compression Equipment > Scrubber > Big Joe Regulator**Method of Vented Gas Measurement:** Estimated Vent Calculations

1. Reason why this event was beyond Operator's control:

This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and could not have been avoided by good design, operation, and maintenance practices. Notwithstanding common equipment design and operations, emergencies, and malfunctions, can occur without warning, be sudden, unforeseeable, and unavoidable. It is OXY's policy to route all gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions as much as possible, yet there are circumstances when flaring is not possible, and venting shall occur. In this case, the big joe regulator to the scrubber on the compressor unit, located on the well pad, failed to hold back pressure, and caused the pressure relief valve to begin venting to atmosphere as a safety measure to keep the compressor unit from over pressuring and causing catastrophic internal damage. Due to the compressor unit was operating and the decimal range of such equipment is extremely deafening, it is very difficult to hear or visually observe venting occurring when the big joe regulator malfunctions and is failing to hold back pressure. Once the venting was discovered, via a flyover, Oxy vented over several days until the compressor unit owner, Kodiak Gas Services, was able to send its mechanic and make repairs, which took some time to do, as they waited on replacement parts.

2. Steps Taken to limit duration and magnitude of venting or flaring:

In this case, the big joe regulator to the scrubber on the compressor unit, located on the well pad, failed to hold back pressure, and caused the pressure relief valve to begin venting to atmosphere as a safety measure to keep the compressor unit from over pressuring and causing catastrophic internal damage. Due to the compressor unit was operating and the decimal range of such equipment is extremely deafening, it is very difficult to hear or visually observe venting occurring when the big joe regulator malfunctions and is failing to hold back pressure. Once the venting was discovered, via a flyover, Oxy field personnel contacted Kodiak Gas Services, who owns the unit, to send a mechanic to troubleshoot and/or repair the issue. Oxy field personnel are unable to troubleshoot the gas compressor unit as Oxy does not own the unit. Oxy vented over several days until the compressor unit owner, Kodiak Gas Services, was able to send its mechanic and make repairs, which took some time to do, as they waited on replacement parts. Venting ceased once Kodiak was able to make the repairs to its compressor unit, on April 11th, 2024.

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3. Corrective Actions taken to eliminate the cause and reoccurrence of venting or flaring:

Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable, and unexpected which can cause compression malfunctions to occur, thereby, triggering venting to occur in some instances, while the compressor continues operating. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events while working with its third-party vendor compression rental service owners to make repairs and/or troubleshoot their equipment issues, which in some instances can take time to perform or complete, if parts need to be ordered.

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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
District IV
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 336847

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 336847
	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 336847

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 336847
	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 with the rest of the questions.	
Incident Well	[30-015-45871] GUACAMOLE CC 24 23 FEDERAL #012H
Incident Facility	Unavailable.

Determination of Reporting Requirements Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.	
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.
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.	
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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Well Pad > Third Party Vendor > Kodiak Compression Equipment > Scrubber > Big Joe Regulator

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	76
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications 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.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 336847

QUESTIONS (continued)

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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	04/05/2024
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	Cause: Other Other (Specify) Natural Gas Vented Released: 72 Mcf Recovered: 0 Mcf Lost: 72 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Estimated Vent Calculations
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	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	This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable breakdown of equipment or process that was beyond the owner/operator's control, and could not have been avoided by good design, operation, and maintenance practices. Notwithstanding common equipment design and operations, emergencies, and malfunctions, can occur without warning, be sudden, unforeseeable, and unavoidable. It is OXY's policy to route all gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions as much as possible, yet there are circumstances when flaring is not possible, and venting shall occur. In this case, the big joe regulator to the scrubber on the compressor unit, located on the well pad, failed to hold back pressure, and caused the pressure relief valve to begin venting to atmosphere as a safety measure to keep the compressor unit from over pressuring and causing catastrophic internal damage. Due to the compressor unit was operating and the decimal range of such equipment is extremely deafening, it is very difficult to hear or visually observe venting occurring when the big joe regulator malfunctions and is failing to hold back pressure. Once the venting was discovered, via a flyover, Oxy vented over several days until the compressor unit owner, Kodiak Gas Services, was able to send its mechanic and make repairs, which took some time to do, as they waited on replacement parts. In this case, the big joe regulator to the scrubber on the compressor unit, located on the well pad, failed to hold back pressure, and caused the pressure relief valve to begin venting to atmosphere as a safety measure to keep the compressor unit from over pressuring and

Steps taken to limit the duration and magnitude of vent or flare	causing catastrophic internal damage. Due to the compressor unit was operating and the decimal range of such equipment is extremely deafening, it is very difficult to hear or visually observe venting occurring when the big joe regulator malfunctions and is failing to hold back pressure. Once the venting was discovered, via a flyover, Oxy field personnel contacted Kodiak Gas Services, who owns the unit, to send a mechanic to troubleshoot and/or repair the issue. Oxy field personnel are unable to troubleshoot the gas compressor unit as Oxy does not own the unit. Oxy vented over several days until the compressor unit owner, Kodiak Gas Services, was able to send its mechanic and make repairs, which took some time to do, as they waited on replacement parts. Venting ceased once Kodiak was able to make the repairs to its compressor unit, on April 11th, 2024.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable, and unexpected which can cause compression malfunctions to occur, thereby, triggering venting to occur in some instances, while the compressor continues operating. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events while working with its third-party vendor compression rental service owners to make repairs and/or troubleshoot their equipment issues, which in some instances can take time to perform or complete, if parts need to be ordered.

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ACKNOWLEDGMENTS

Action 336847

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	Action Number: 336847
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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

Action 336847

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	Action Number: 336847
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
shelbyschoepf	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.	4/23/2024