



Natural Gas Analysis Report

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

	Sample Information
Sample Name	RED TANK 19 CGL CHECK B
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	03-09-2023
Meter Number	15698C
Air temperature	51
Flow Rate (MCF/Day)	11904.7
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK 19 CGL CHECK B
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST
FLOC	OP-L2151-CS002
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	4455
Sampled by	JONATHAN ALDRICH
Sample date	3-9-2023
Analyzed date	3-15-2023
Method Name	C9
Injection Date	2023-03-15 09:13:30
Report Date	2023-03-15 09:17:54
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	18ccddb4-5a91-44e5-920a-41e53316b23b
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	39811.3	2.2555	0.00005665	2.2491	0.0	0.02175	0.248	
Methane	945271.8	69.1663	0.00007317	68.9703	698.2	0.38203	11.741	
CO2	54956.8	2.5924	0.00004717	2.5850	0.0	0.03928	0.443	
Ethane	273122.4	12.4701	0.00004566	12.4348	220.6	0.12910	3.339	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	251256.1	8.1999	0.00003264	8.1767	206.2	0.12449	2.262	
iso-butane	101501.2	1.1317	0.00001115	1.1285	36.8	0.02265	0.371	
n-Butane	261287.5	2.8838	0.00001104	2.8756	94.0	0.05771	0.910	
iso-pentane	55798.7	0.5412	0.00000970	0.5397	21.6	0.01344	0.198	
n-Pentane	59686.8	0.5646	0.00000946	0.5630	22.6	0.01402	0.205	
hexanes	34767.0	0.2632	0.00000757	0.2624	12.5	0.00781	0.108	
heptanes	28903.0	0.1786	0.00000618	0.1781	9.8	0.00616	0.083	
octanes	6123.0	0.0333	0.00000543	0.0332	2.1	0.00131	0.017	
nonanes+	806.0	0.0036	0.00000442	0.0036	0.3	0.00016	0.002	
Total:		100.2840		100.0000	1324.7	0.81991	19.929	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.2840		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	111.0		
Flowing Temperature (Deg. F)	170.0		

Result	Dry	Sat.	
Gross Heating Value (BTU / Ideal cu.ft.)	1324.7	1301.7	
Gross Heating Value (BTU / Real cu.ft.)	1330.6	1308.0	
Relative Density (G), Real	0.8232	0.8201	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.2840	97.0000	103.0000	Pass	

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Red Tank 27-28 CTB**Vent Date:** 08/09/2023**Duration of Event:** 23 Hours 59 Minutes**MCF Vented:** 60**Start Time:** 12:01 AM**End Time:** 11:59 PM**Cause:** Unexpected Venting > Equipment Malfunction > VRU & VCU > High Temperature Alarms**Method of Flared Gas Measurement:** Gas Flare Meter

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

The emissions were caused by the sudden, unavoidable breakdown of equipment or process that was beyond the owner/operator's control and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this case, due to extreme heat weather conditions affecting the area and operational equipment, the facility's VRU and VCU kept going down as a result, which caused venting to occur.

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

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 did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. It is OXY's policy to route all stranded gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions, when possible, yet, in this case, due to extreme heat weather conditions affecting the area and operational equipment, the facility's VRU and VCU kept going down as a result, which caused venting to occur. Production techs who responded to the malfunction alarms were unable to resolve the VRU & VCU malfunction as the alarm fault would not clear. A repair work order was submitted. The minimal amount of gas flow allowed to be flared was done out of necessity to protect personnel and equipment as a safeguard.

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

Oxy is limited in its ability to take any corrective actions to eliminate the cause and potential reoccurrence of unexpected equipment malfunctions brought on by extreme weather conditions. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its equipment preventative maintenance program for this facility.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 257065

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 257065
	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 257065

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 257065
	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	[fAPP2127030589] RED TANK 27-28 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 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	Unexpected Venting > Equipment Malfunction > VRU & VCU > High Temperature Alarms

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	69
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
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

Action 257065

QUESTIONS (continued)

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	16696
	Action Number:
	257065
Action Type:	
[C-129] Venting and/or Flaring (C-129)	

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/09/2023
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	Cause: Other Other (Specify) Natural Gas Vented Released: 60 Mcf Recovered: 0 Mcf Lost: 60 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	The emissions were caused by the sudden, unavoidable breakdown of equipment or process that was beyond the owner/operator's control and did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this case, due to extreme heat weather conditions affecting the area and operational equipment, the facility's VRU and VCU kept going down as a result, which caused venting to occur.
Steps taken to limit the duration and magnitude of vent or flare	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 did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. It is OXY's policy to route all stranded gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions, when possible, yet, in this case, due to extreme heat weather conditions affecting the area and operational equipment, the facility's VRU and VCU kept going down as a result, which caused venting to occur. Production techs who responded to the malfunction alarms were unable to resolve the VRU & VCU malfunction as the alarm fault

	would not clear. A repair work order was submitted. The minimal amount of gas flow allowed to be flared was done out of necessity to protect personnel and equipment as a safeguard.
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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

Action 257065

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	Action Number: 257065
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
marialuna2	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.	8/24/2023