



AKM MEASUREMENT SERVICES,LLC. Natural Gas Analysis Report
GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

	Sample Information
Sample Name	RED TANK 19 CTB FUEL GAS
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	01-18-2024
Meter Number	
Air temperature	64
Flow Rate (MCF/Day)	
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK 19 CTB FUEL GAS
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST
FLOC	
Sample Sub Type	FUEL GAS
Sample Name Type	FUEL GAS
Vendor	AKM MEASUREMENT
Cylinder #	30949
Sampled by	JONATHAN ALDRICH
Sample date	1-18-2024
Analyzed date	1-23-2024
Method Name	C9
Injection Date	2024-01-23 11:49:52
Report Date	2024-01-23 11:50:33
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	99bd35c8-8311-478c-8a2f-99adff044d3f
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	37266.5	2.1468	0.00005761	2.1489	0.0	0.02078	0.237	
Methane	990810.1	71.9670	0.00007263	72.0384	729.3	0.39902	12.258	
CO2	69868.6	3.3166	0.00004747	3.3199	0.0	0.05045	0.569	
Ethane	260884.5	11.9805	0.00004592	11.9924	212.7	0.12451	3.219	
H2S	0.0	0.0008	0.00000000	0.0008	0.0	0.00001	0.000	
Propane	194828.6	6.3691	0.00003269	6.3754	160.8	0.09707	1.763	
iso-butane	69862.7	0.7735	0.00001107	0.7742	25.2	0.01554	0.254	
n-Butane	172320.8	1.8958	0.00001100	1.8977	62.1	0.03808	0.601	
iso-pentane	42870.9	0.4192	0.00000978	0.4196	16.8	0.01045	0.154	
n-Pentane	48040.3	0.4508	0.00000938	0.4512	18.1	0.01124	0.164	
hexanes	33494.0	0.3289	0.00000982	0.3293	15.7	0.00980	0.136	
heptanes	32128.0	0.1910	0.00000595	0.1912	10.5	0.00661	0.089	
octanes	11379.0	0.0591	0.00000519	0.0592	3.7	0.00233	0.030	
nonanes+	725.0	0.0018	0.00000253	0.0018	0.1	0.00008	0.001	
Total:		99.9009		100.0000	1255.1	0.78597	19.475	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.9009		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flow to Impinger (SCF)	73.0		

Result	Dry	Sat.	
Flowing Pressure (psia)	130.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1255.1	1233.3	
Gross Heating Value (BTU / Real cu.ft.)	1260.1	1238.7	
Relative Density (G), Real	0.7888	0.7862	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.9009	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Red Tank 19 CTB**Flaring Date:** 04/29/2024**Duration of Event:** 1 Hour 20 Minutes**MCF Flared:** 275**Start Time:** 08:50 PM**End Time:** 10:10 PM**Cause:** Emergency Flare > Third Party Energy Power Provider > Xcel Energy > Power Outage > Transformer Fault**Method of Gas Measurement:** Gas Flare Meter

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

This emission was 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. In this case, Xcel Energy, experienced a power glitch on their end, when their transformer had an internal fault and had to be replaced, which in turn caused a power outage at Oxy's Red Tank 27 CGL, forcing its gas to cease offloading to MPLX and instead some of its gas to flare at the Red Tank 19 CTB, until power was restored to the transformer and the facility. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was back to normal and running efficiently.

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

This emission was 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. In this case, Xcel Energy, experienced a power glitch on their end, when their transformer had an internal fault and had to be replaced, which in turn caused a power outage at Oxy's Red Tank 27 CGL, forcing its gas to cease offloading to MPLX and instead some of its gas to flare at the Red Tank 19 CTB, until power was restored to the transformer and the facility. Once flaring was triggered at the Red Tank 19 CTB, Oxy field personnel were able to shut in high GOR wells. Once Xcel Energy restored power to the area, all emission control devices and the facility's equipment were brought back online at the Red Tank 27 CGL, and flaring ceased shortly thereafter. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning. OXY made every effort to control and minimize emissions as much as possible during this event.

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

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring resulting from third party provider power outages, whether scheduled or unscheduled, as Oxy is unable to decree how long a power outage can continue. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events, when possible. Only thing OXY can do for these types of situations is to support and constant communicate with the third-party companies.

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District III
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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 344500

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 344500
	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: <ul style="list-style-type: none">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 344500

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	344500
	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	Unavailable.
Incident Facility	[fAPP2127031815] RED TANK 19 CTB

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	No
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	Emergency Flare > Third Party Energy Power Provider > Xcel Energy > Power Outage > Transformer Fault

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	8
Carbon Dioxide (C02) percentage, if greater than one percent	3
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 344500

QUESTIONS (continued)

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	Action Number: 344500
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/29/2024
Time vent or flare was discovered or commenced	08:50 PM
Time vent or flare was terminated	10:10 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 275 Mcf Recovered: 0 Mcf Lost: 275 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Gas Flare Meter
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 emission was 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. In this case, Xcel Energy, experienced a power glitch on their end, when their transformer had an internal fault and had to be replaced, which in turn caused a power outage at Oxy's Red Tank 27 CGL, forcing its gas to cease offloading to MPLX and instead some of its gas to flare at the Red Tank 19 CTB, until power was restored to the transformer and the facility. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was back to normal and running efficiently.
Steps taken to limit the duration and magnitude of vent or flare	This emission was 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. In this case, Xcel Energy, experienced a power glitch on their end, when their transformer had an internal fault and had to be replaced, which in turn caused a power outage at Oxy's Red Tank 27 CGL, forcing its gas to cease offloading to MPLX and instead some of its gas to flare at the Red Tank 19 CTB, until power was restored to the transformer and the facility. Once flaring was triggered at the Red Tank 19 CTB, Oxy field personnel were able to shut in high GOR wells. Once Xcel Energy restored power to the

	<p>area, all emission control devices and the facility's equipment were brought back online at the Red Tank 27 CGL, and flaring ceased shortly thereafter. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning. OXY made every effort to control and minimize emissions as much as possible during this event.</p>
<p>Corrective actions taken to eliminate the cause and reoccurrence of vent or flare</p>	<p>Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring resulting from third party provider power outages, whether scheduled or unscheduled, as Oxy is unable to decree how long a power outage can continue. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events, when possible. Only thing OXY can do for these types of situations is to support and constant communicate with the third-party companies.</p>

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ACKNOWLEDGMENTS

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	16696
	Action Number:
	344500
Action Type:	
[C-129] Venting and/or Flaring (C-129)	

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 344500

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	Action Number: 344500
	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.	5/14/2024