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	
ele	Fredito Tempeiatyre 7014/2025 12:51:10	<i>PM</i> 73.0	

Received by OCD: 7/14/2025 12:50:07 PM	Dry	Sat.	Page
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 Flare Date: 02/21/2025

Duration of Event: 8 Hours 37 Minutes **MCF Flared:** 71

Start Time: 12:00 AM End Time: 08:37 AM

Cause: Emergency LP Flare > Equipment Malfunctions > VRU's 1 & 4

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, sales gas had to be flared rather than be compressed when VRU# 1 & 4, repeatedly, would suddenly and unexpectedly shut down on mechanical malfunction alarms, continuously within a 24-hour period. A minimal of gas from the facility's VRT was sent to the flare out of necessity to protect personnel and equipment as a safeguard until the VRU's could be restarted and returned to normal maximized operation. This event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.

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

It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, sales gas had to be flared rather than be compressed when VRU# 1 & 4, repeatedly, would suddenly and unexpectedly shut down on mechanical malfunction alarms, continuously within a 24-hour period. A minimal of gas from the facility's VRT was sent to the flare out of necessity to protect personnel and equipment as a safeguard until the VRU's could be restarted and returned to normal maximized operation, during each sudden and without warning recurring instance of a malfunction alarm. Oxy production techs responded in a timely manner, during each malfunction alarm and proceeded to inspect the VRU's, then attempted to clear the malfunctions and restart the VRU's. After several attempts to restart the VRU's with no success, Oxy production techs called HYBON, a third-party vendor specializing in VRU equipment, to dispatch a mechanic to resolve the VRU's malfunctions. HYBON mechanics were unable to respond in a timely manner due to an already heavy workload in the area and were unable to arrive until hours later or the next day, after each request for service. Once the HYBON mechanics arrived on-site to resolve the VRU's issues, the equipment was restarted. HYBON is aware that the VRU's are continuously malfunctioning due to internal parts requiring replacements, but they are unable to replace or adjust them currently as they are waiting for parts on their end.

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

Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of a malfunctioning VRU, as notwithstanding proper VRU, design and operation, whether low- or high-pressure, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause equipment malfunctions to occur without warning or advance notice. Oxy immediately contacts HYBON to make repairs and is subject to their availability and expertise to make repairs. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to immediately call for a VRU mechanic, submit a work order for repair, and/or work with its equipment maintenance team to have the issue resolved in a timely manner and continue monitoring the equipment until its repair and restoration to normal operations is complete.

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 484578

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	484578
[Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

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 484578

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O	UESTIONS	
Operator:	DECTIONS	OGRID:
OXY USA INC		16696
P.O. Box 4294		Action Number:
Houston, TX 772104294		484578
		Action Type: [C-129] Amend Venting and/or Flaring (C-129A)
QUESTIONS		
Prerequisites		
Any messages presented in this section, will prevent submission of this application. Please resolve t	hese issues before conti	nuing with the rest of the questions.
Incident ID (n#)	Unavailable.	
Incident Name	Unavailable.	
Incident Type	Flare	
Incident Status	Unavailable.	
Incident Facility	[fAPP2127031815]	RED TANK 19 CTB
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	on) that are assigned to y	our current operator can be amended with this C-129A application.
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an	nd may provide addional g	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 ve	enting 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	Na	
watercourse, or otherwise, with reasonable probability, endanger public health, the	No	
environment or fresh water		
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	
	I	
Equipment Involved		
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency I P Flan	e > Equipment Malfunctions > VRU's 1 & 4
, additional documents Equipment intervent 1 reads appearly	Emorgency Er Tiur	C Equipment Mananotonic VIVO C 1 a 1
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 (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required speci	ifications for each gas.	
Methane (CH4) percentage quality requirement	0	

0

0

0

0

Nitrogen (N2) percentage quality requirement

Oxygen (02) percentage quality requirement

Hydrogen Sufide (H2S) PPM quality requirement

Carbon Dioxide (C02) percentage quality requirement

Sante Fe Main Office Phone: (505) 476-3441 General Information

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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

QUESTIONS, Page 2

Action 484578

OHEST	IONS (continued)		
Operator:	iorto (continued)	OGRID:	
OXY USA INC		16696	
P.O. Box 4294 Houston, TX 772104294		Action Number: 484578	
		Action Type: [C-129] Amend Venting and/or Flaring (C-129A)	
QUESTIONS			
Date(s) and Time(s)			
Date vent or flare was discovered or commenced	02/21/2025		
Time vent or flare was discovered or commenced	12:00 AM		
Time vent or flare was terminated	08:37 AM		
Cumulative hours during this event	9		
Measured or Estimated Volume of Vented or Flared Natural Gas			
	T		
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Cause: Other Other Lost: 71 MCF.	er (Specify) Natural Gas Flared Released: 71 MCF Recovered: 0 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	No		
Downstream OGRID that should have notified this operator	0		
Date notified of downstream activity requiring this vent or flare			
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	process that was be could have been for operation, and mair and unexpected flar assess the issue as emissions. In this c & 4, repeatedly, wo alarms, continuousl sent to the flare out VRU's could be res	e caused by the sudden, unavoidable breakdown of equipment or eyond the owner/operator's control and did not stem from activity that reseen and avoided, and could not have been avoided by good design, intenance practices. Internal Oxy procedures ensure that upon a sudden ring event, production techs are promptly notified, and are instructed to a soon as possible to take prompt corrective action and minimize ase, sales gas had to be flared rather than be compressed when VRU# 1 uld suddenly and unexpectedly shut down on mechanical malfunction y within a 24-hour period. A minimal of gas from the facility's VRT was of necessity to protect personnel and equipment as a safeguard until the tarted and returned to normal maximized operation. This event is out of made every effort to control and minimize emissions as much as	
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Steps taken to limit the duration and magnitude of vent or flare	the facility's VRT was sent to the flare out of necessity to protect personnel and equipment as a safeguard until the VRU's could be restarted and returned to normal maximized operation, during each sudden and without warning recurring instance of a malfunction alarm. Oxy production techs responded in a timely manner, during each malfunction alarm and proceeded to inspect the VRU's, then attempted to clear the malfunctions and restart the VRU's. After several attempts to restart the VRU's with no success, Oxy production techs called HYBON, a third-party vendor specializing in VRU equipment, to dispatch a mechanic to resolve the VRU's malfunctions. HYBON mechanics were unable to respond in a timely manner due to an already heavy workload in the area and were unable to arrive until hours later or the next day, after each request for service. Once the HYBON mechanics arrived onsite to resolve the VRU's issues, the equipment was restarted. HYBON is aware that the VRU's are continuously malfunctioning due to internal parts requiring replacements, but they are unable to replace or adjust them currently as they are waiting for parts on their end.
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ACKNOWLEDGMENTS

Action 484578

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

ACKNOWLEDGMENTS

V	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
V	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
V	I hereby certify the statements in this amending 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

Action 484578

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	484578
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By		Condition Date
shelbyschoepf	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	7/14/2025