AKM Measurement Services, LLC
Carlsbad, New Mexico

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 TRAIN 2 CHECK
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	03-22-2024
Meter Number	15622I
Air temperature	77
Flow Rate (MCF/Day)	23212.6
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK 19 TRAIN 2 CHECK
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	RED TANK
FLOC	OP-L2151-BT001
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38986
Sampled by	ERIC CARTER
Sample date	3-21-2024
Analyzed date	3-26-2024
Method Name	C9
Injection Date	2024-03-26 18:59:57
Report Date	2024-03-26 19:00:44
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	5113d902-e4cb-40af-be68-3066ebcdb576
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	27138.1	1.5578	0.00005740	1.5552	0.0	0.01504	0.172	
Methane	1001446.4	72.8032	0.00007270	72.6807	735.8	0.40258	12.370	
CO2	8705.2	0.4137	0.00004752	0.4130	0.0	0.00628	0.071	
Ethane	292939.6	13.4886	0.00004605	13.4659	238.9	0.13980	3.615	
H2S	0.0	0.0004	0.00000000	0.0004	0.0	0.00000	0.000	
Propane	222386.7	7.2517	0.00003261	7.2395	182.6	0.11022	2.002	
iso-butane	83635.1	0.9257	0.00001107	0.9242	30.1	0.01855	0.304	
n-Butane	212889.2	2.3431	0.00001101	2.3392	76.5	0.04694	0.740	
iso-pentane	45552.0	0.4453	0.00000978	0.4445	17.8	0.01107	0.163	
n-Pentane	49875.4	0.4676	0.00000938	0.4668	18.8	0.01163	0.170	
hexanes	29574.0	0.2886	0.00000976	0.2882	13.7	0.00858	0.119	
heptanes	24852.0	0.1465	0.00000590	0.1463	8.1	0.00506	0.068	
octanes	6960.0	0.0354	0.00000509	0.0354	2.2	0.00140	0.018	
nonanes+	286.0	0.0007	0.00000233	0.0007	0.0	0.00003	0.000	
Total:		100.1684		100.0000	1324.5	0.77718	19.812	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.1684		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	87.3		

Result	Dry	Sat.
Flowing Pressure (psia)	145.8	
Gross Heating Value (BTU / Ideal cu.ft.)	1324.5	1301.4
Gross Heating Value (BTU / Real cu.ft.)	1330.0	1307.4
Relative Density (G), Real	0.7801	0.7777

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status
Total un-normalized amount	100.1684	97.0000	103.0000	Pass

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Red Tank 19 CTB **Flare Date:** 03/26/2024

Duration of Event: 5 Hours 16 Minutes **MCF Flared:** 280

Start Time: 08:10 AM **End Time:** 01:26 PM

Cause: Emergency Flare > Downstream Activity > MPLX > Third Party RT 26 BOO > High Line Pressure

Method of Flared Gas Measurement: Gas Flare Meter

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

This interruption, restriction, or complete shut-in of the gas pipeline by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. In this case, Red Tank 19 CTB pressured up automatically when USA's Compression's Red Tank 26 Boo compressor station was restricted from pushing forward its sales gas by the sudden and unexpected closing of MPLX gas plant's sales valve, which occurred several times in a 24-hr period, because of continuing issues with USA Compression's dehy not working properly at its facility and not meeting MPLX's pipeline specs. When Red Tank 26 Boo compressor station, owned, and operated by USA Compression, is not operating property or is unable to push forward their gas further down the pipeline, this in turn, restricts Oxy's ability to send its gas to the Red Tank 26 Boo compression station. When Oxy's ability to push forward its sales gas is taken away or immensely restricted, with no advance notice, this causes the facility to pressure up and trigger intermittent flaring instances to occur. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from MPLX or USA Compression on how much sales gas was being reduced or restricted by a downstream gathering system facility, which is out of Oxy's control. Red Tank 26 Boo is the first stopping point for Oxy's facility sales gas, before it is pushed further down the pipeline for further processing at Mark West, a downstream gathering system.

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

It is OXY's policy to route its 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, Red Tank 19 CTB pressured up automatically when USA's Compression's Red Tank 26 Boo compressor station was restricted from pushing forward its sales gas by the sudden and unexpected closing of MPLX gas plant's sales valve, which occurred several times in a 24-hr period, because of continuing issues with USA Compression's dehy not working properly at its facility and not meeting MPLX's pipeline specs. When Red Tank 26 Boo compressor station, owned, and operated by USA Compression, has issues to push forward their gas and which in turn,

restricts Oxy's ability to send gas to the Red Tank Boo compression station. When Oxy's ability to push forward its sales gas is taken away or immensely restricted, with no advance notice, this causes the facility to pressure up and trigger intermittent flaring instances to occur. In each instance of intermittent flaring, field personnel began storage process procedures on storage wells and choked back several wells to mitigate flaring. All OXY operations and facility equipment were running at maximized optimization prior to each instance of intermittent flaring. This incident was completely out of Oxy's control to prevent from happening yet 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 cannot take any corrective actions to eliminate the cause and potential reoccurrence of an MPLX gas flow pipeline restriction or shut-in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid, prevent from happening or reoccurring. MPLX's downstream facilities and associated gas plants and/or operators, will or may have equipment issues which will reoccur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When MPLX has downstream activity issues or greatly struggles to handle the volume of gas being sent to them by Oxy, MPLX then restricts Oxy's ability to send gas, which then prompts Oxy to route all of its stranded gas not pushed into the gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with MPLX and/or USA Compression personnel during these types of situations.

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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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 341412
	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 341412

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 341412
	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 these issues before continuing 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) that are assigned to your 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 and may provide addional 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 > Downstream Activity > MPLX > Third Party RT 26 BOO > High Line Pressure

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	73
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	4
Carbon Dioxide (C02) percentage, if greater than one percent	0
Oxygen (02) 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	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sufide (H2S) PPM quality requirement	0
Carbon Dioxide (C02) percentage quality requirement	0
Oxygen (02) percentage quality requirement	0

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QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 341412
	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	03/26/2024
Time vent or flare was discovered or commenced	08:10 AM
Time vent or flare was terminated	01:26 PM
Cumulative hours during this event	5

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: 280 MCF | Recovered: 0 MCF | Lost: 280 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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[14035] MARATHON OIL CO
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	This interruption, restriction, or complete shut-in of the gas pipeline by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. In this case, Red Tank 19 CTB pressured up automatically when USA's Compression's Red Tank 26 Boo compressor station was restricted from pushing forward its sales gas by the sudden and unexpected closing of MPLX gas plant's sales valve, which occurred several times in a 24-hr period, because of continuing issues with USA Compression's dehy not working properly at its facility and not meeting MPLX's pipeline specs. When Red Tank 26 Boo compressor station, owned, and operated by USA Compression, is not operating property or is unable to push forward their gas further down the pipeline, this in turn, restricts Oxy's ability to send its gas to the Red Tank 26 Boo compression station. When Oxy's ability to push forward its sales gas is taken away or immensely restricted, with no advance notice, this causes the facility to pressure up and trigger intermittent flaring instances to occur. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from MPLX or USA Compression on how much sales gas was being reduced or restricted by a downstream gathering system facility, which is out of Oxy's control. Red Tank 26 Boo is the first stopping point for Oxy's facility sales gas, before it is pushed further down the pipeline for further processing at Mark

	West, a downstream gathering system.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route its 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, Red Tank 19 CTB pressured up automatically when USA's Compression's Red Tank 26 Boo compressor station was restricted from pushing forward its sales gas by the sudden and unexpected closing of MPLX gas plant's sales valve, which occurred several times in a 24-hr period, because of continuing issues with USA Compression's dehy not working properly at its facility and not meeting MPLX's pipeline specs. When Red Tank 26 Boo compressor station, owned, and operated by USA Compression, has issues to push forward their gas and which in turn, restricts Oxy's ability to send gas to the Red Tank Boo compression station. When Oxy's ability to push forward its sales gas is taken away or immensely restricted, with no advance notice, this causes the facility to pressure up and trigger intermittent flaring instances to occur. In each instance of intermittent flaring, field personnel began storage process procedures on storage wells and choked back several wells to mitigate flaring. All OXY operations and facility equipment were running at maximized optimization prior to each instance of intermittent flaring. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of an MPLX gas flow pipeline restriction or shut-in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid, prevent from happening or reoccurring. MPLX's downstream facilities and associated gas plants and/or operators, will or may have equipment issues which will reoccur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When MPLX has downstream activity issues or greatly struggles to handle the volume of gas being sent to them by Oxy, MPLX then restricts Oxy's ability to send gas, which then prompts Oxy to route all of its stranded gas not pushed into the gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with MPLX and/or USA Compression personnel during these types of situations.

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ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 341412
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

☑	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.
☑	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.
☑	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.
☑	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 341412

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 341412
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	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.	5/6/2024