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

	Sample Information			
Sample Name	lost tank 18 facility production 1 (fmp) v-1010			
Technician	Danny J			
Analyzer Make & Model	INFICON MICRO GC			
Last Calibration/Validation Date	3-8-2023			
Meter Number	16411p			
Air temperature	71			
Flow Rate (MCF/Day)	25435			
Heat Tracing	Heated Hose & Gasifier			
Sample description/mtr name	lost tank 18 facility production 1 (fmp) v-1010			
Sampling Method	fill and empty			
Operator	AKM MEASUREMENT			
State	New Mexico			
Region Name	Permian Resources			
Asset	new mexico			
System	east			
FLOC	op-delne-bt010			
Sample Sub Type	meter			
Sample Name Type	ctb			
Vendor	akm			
Cylinder #	27798			
Sampled by	jonathan aldrich			
Sample date	3-7-2023			
Analyzed date	3-8-2023			
Method Name	C9			
Injection Date	2023-03-08 14:09:13			
Report Date	2023-03-08 14:07:12			
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx			
Source Data File	80135ddf-b144-4dfd-b24e-da86f97ecc64			
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	23176.5	1.5087	0.00006510	1.4924	0.0	0.01443	0.165	
Methane	789907.9	71.7938	0.00009089	71.0166	718.9	0.39336	12.091	
CO2	4248.3	0.2447	0.00005760	0.2420	0.0	0.00368	0.041	
Ethane	253314.9	14.0709	0.00005555	13.9185	246.9	0.14450	3.738	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	187121.2	7.6655	0.00004097	7.5825	191.2	0.11544	2.098	
iso-butane	58320.5	1.0090	0.00001730	0.9981	32.5	0.02003	0.328	
n-Butane	154085.2	2.6453	0.00001717	2.6166	85.6	0.05251	0.828	
iso-pentane	38587.0	0.5807	0.00001505	0.5744	23.0	0.01431	0.211	
n-Pentane	46221.7	0.6830	0.00001478	0.6756	27.1	0.01683	0.246	
hexanes	36033.0	0.4207	0.00001168	0.4162	19.8	0.01238	0.172	
heptanes	36586.0	0.3379	0.00000924	0.3342	18.4	0.01156	0.155	
octanes	17386.0	0.1325	0.00000762	0.1311	8.2	0.00517	0.067	
nonanes+	2822.0	0.0018	0.00000063	0.0018	0.1	0.00008	0.001	
Total:		101.0945		100.0000	1371.9	0.80429	20.142	

Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	101.0945	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flowing Temperature (Deg. F)	98.0	
Flowing Pressure (psia)	117.0	
Released to Languagiagie 9847/2023 10:36:00	PM 1371.9	1348.0
Gross Heating Value (BTU / Real cu.ft.)	1378.1	1354.7

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	101.0945	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Lost Tank 18 CPF Flare Date: 09/02/2023

Duration of event: 3 Hours 30 Minutes **MCF Flared:** 806

Start Time: 08:00 AM End Time: 11:30 AM

Cause: Emergency Flare > Third Party > USA Compression > Lost Tank 13 BOO > Mark West > MPLX

Method of Flared Gas Measurement: Gas Flare Meter

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

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-down of Oxy and MPLX pipeline pigging. This interruption, restriction or complete shut-in of Oxy and USA Compression Equipment 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, MPLX, third party owned and operated downstream operator, suddenly and unexpectedly pinched back the discharge valve and reduced their gas volume intake rate from 40 million to 10 million, from the Lost Tank 13 Boo compressor station, which is owned and operated by USA Compression, as a result of MPLX having issues with their Tornado gas plant, which then caused the Lost Tank 13 Boo compressor station to have compression issues due to high discharge, which then prompted Oxy's Lost Tank 18 CPF to pressure up automatically and instigate a flaring event 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 USA Compression personnel or MarkWest personnel. Lost Tank 13 Boo compressor station is the first stopping point, where OXY sends its sales gas from its facility, before it is pushed further down the pipeline for further processing at Mark West, a downstream gathering system facility, which is downstream of Oxy's control.

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, MPLX, third party owned and operated downstream operator, suddenly and unexpectedly pinched back the discharge valve and reduced their gas volume intake rate from 40 million to 10 million, from the Lost Tank 13 Boo compressor station, which is owned and operated by USA Compression, as a result of MPLX having issues with their Tornado gas plant, which then caused the Lost Tank 13 Boo compressor station to have compression issues due to high discharge, which then prompted Oxy's Lost Tank 18 CPF to pressure up automatically and instigate a flaring event to occur.

As soon as the Oxy production tech, who was on-site, saw flaring occur, he began to make phone calls to USA Compression personnel to see why gas pipeline was experiencing high line pressure. The Oxy production tech then contacted Oxy's additional field personnel to begin making injection rate changes so that field pressure would stay below the flare trigger setpoints of the CTB to cease flaring. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.

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

Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated gas plant's issues, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. MarkWest (MPLX) will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas. When MarkWest (MPLX) has equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, MarkWest (MPLX) then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into the MarkWest (MPLX) 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 continually communicate with MarkWest (MPLX) personnel, who own and operate the sales gas pipeline, when possible, during these types of circumstances and USA Compression personnel.

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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 266034

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	266034
	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 266034

Q	UESTIONS			
Operator:		OGRID:		
OXY USA INC P.O. Box 4294		16696		
Houston, TX 772104294		Action Number: 266034		
		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	these issues before conti	nuing with the rest of the questions.		
Incident Operator	[16696] OXY USA II	NC		
Incident Type	Flare			
Incident Status Clos		ved		
Incident Well	Unavailable.	Unavailable.		
Incident Facility	[fAPP2226965761]	[fAPP2226965761] Lost Tank 18 CPF		
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	n) that are assigned to your current operator can be amended with this C-129A application.			
Determination of Departmen Demails				
Determination of Reporting Requirements Answer all questions that apply. The Reason(s) statements are calculated based on your answers are	nd may provide addienal	guidance		
Was this vent or flare caused by an emergency or malfunction	Yes	guivance.		
Did this vent or flare last eight hours or more cumulatively within any 24-hour	No			
period from a single event Is this considered a submission for a vent or flare event	Yes, major 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 vi		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 > USA Compression > Lost Tank 13 BOO > Mark West > MPLX		
Representative Compositional Analysis of Vented or Flared Natural Gas				
Please provide the mole percent for the percentage questions in this group.				
Methane (CH4) percentage	71			
Nitrogen (N2) percentage, if greater than one percent	1			
Hydrogen Sulfide (H2S) PPM, rounded up	0			
Carbon Dioxide (C02) percentage, if greater than one percent	0			
Oxygen (02) percentage, if greater than one percent 0				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec				
Methane (CH4) percentage quality requirement	Not answered.			
Nitrogen (N2) percentage quality requirement	Not answered.			
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.			

Not answered.

Not answered.

Oxygen (02) percentage quality requirement

Carbon Dioxide (C02) percentage quality requirement

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QUESTIONS, Page 2

Action 266034

QUESTIONS (COITHINGE)	QUESTIONS ((continued)
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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	266034
	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	09/02/2023			
Time vent or flare was discovered or commenced	08:00 AM			
Time vent or flare was terminated	11:30 AM			
Cumulative hours during this event	4			

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: 806 Mcf Recovered: 0 Mcf Lost: 806 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	[258315] MARKWEST ENERGY OPERATING CO LLC			
Date notified of downstream activity requiring this vent or flare				
Time notified of downstream activity requiring this vent or flare	Not answered.			

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 event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-down of Oxy and MPLX pipeline pigging. This interruption, restriction or complete shut-in of Oxy and USA Compression Equipment 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, MPLX, third party owned and operated downstream operator, suddenly and unexpectedly pinched back the discharge valve and reduced their gas volume intake rate from 40 million to 10 million, from the Lost Tank 13 Boo compressor station, which is owned and operated by USA Compression, as a result of MPLX having issues with their Tornado gas plant, which then caused the Lost Tank 13 Boo compressor station to have compression issues due to high discharge, which then prompted Oxy's Lost Tank 18 CPF to pressure up automatically and instigate a flaring event 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 USA Compression personnel or MarkWest personnel. Lost Tank 13 Boo compressor station is the first stopping point, where OXY sends its sales gas from its facility, before it is pushed further down the pipeline for further processing at Mark West, a downstream gathering system facility, which is downstream of Oxy's control.

Steps and Actions to Prevent Waste

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, MPLX, third party owned and operated downstream operator, suddenly and unexpectedly pinched back the discharge valve and reduced their gas volume intake rate from 40 million to 10 million, from the Lost Tank 13 Boo compressor station, which is owned and operated by USA Compression, as a result of MPLX having issues with their Tornado gas plant, which then caused the Lost Tank 13 Boo compressor station to have compression issues due to high discharge, which then prompted Oxy's Lost Tank 18 CPF to pressure up automatically and instigate a flaring event to occur. As soon as the Oxy production tech, who was on-site, saw flaring occur, he began to make phone calls to USA Compression personnel to see why gas pipeline was experiencing high line pressure. The Oxy production tech then contacted Oxy's additional field personnel to begin making injection rate changes so that field pressure would stay below the flare trigger setpoints of the CTB to cease flaring. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated gas plant's issues, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. MarkWest (MPLX) will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas. When MarkWest (MPLX) has equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, MarkWest (MPLX) then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into the MarkWest (MPLX) 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 continually communicate with MarkWest (MPLX) personnel, who own and operate the sales gas pipeline, when possible, during these types of circumstances and USA Compression personnel.

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ACKNOWLEDGMENTS

Action 266034

ACKNOWLEDGMENTS

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OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	266034
	Action Type:
	[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 266034

CONDITIONS

Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	266034	
	Action Type:	
	[C-129] Amend Venting and/or Flaring (C-129A)	

CONDITIONS

Created By	Condition	Condition Date
marialuna2	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.	9/17/2023