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	LOST TANK 18 FACILITY PRODUCTION 1 (FMP) V-1010
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	04-06-2023
Meter Number	16411P
Air temperature	63
Flow Rate (MCF/Day)	
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	LOST TANK 18 FACILITY PRODUCTION 1 (FMP) V-1010
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST
FLOC	OP-DELNE-BT010
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	4167
Sampled by	JONATHAN ALDRICH
Sample date	4-8-2023
Analyzed date	4-10-2023
Method Name	C9
Injection Date	2023-04-10 09:18:59
Report Date	2023-04-10 09:25:26
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	a4b4c3ad-880e-4e70-aef7-6123500a4a18
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	28519.4	1.6111	0.00005649	1.6150	0.0	0.01562	0.178	
Methane	968118.0	70.6847	0.00007301	70.8588	717.3	0.39249	12.064	
CO2	5851.5	0.2751	0.00004701	0.2757	0.0	0.00419	0.047	
Ethane	304222.8	13.8686	0.00004559	13.9027	246.6	0.14434	3.734	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	235337.4	7.6632	0.00003256	7.6820	193.7	0.11696	2.125	
iso-butane	91235.3	1.0106	0.00001108	1.0131	33.0	0.02033	0.333	
n-Butane	241056.1	2.6359	0.00001093	2.6424	86.4	0.05303	0.837	
iso-pentane	59104.7	0.5690	0.00000963	0.5704	22.9	0.01421	0.209	
n-Pentane	69774.6	0.6563	0.00000941	0.6579	26.4	0.01639	0.239	
hexanes	49905.0	0.3756	0.00000753	0.3765	17.9	0.01120	0.155	
heptanes	45290.0	0.2787	0.00000615	0.2794	15.4	0.00967	0.129	
octanes	19578.0	0.1086	0.00000555	0.1089	6.8	0.00430	0.056	
nonanes+	2768.0	0.0172	0.00000621	0.0172	1.2	0.00076	0.010	
Total:		99.7546		100.0000	1367.8	0.80347	20.118	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.7546		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	93.0		
Flowing Pressure (psia)	99.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1367.8	1344.0	
Gross Heating Value (BTU / Real cu.ft.)	1373.9	1350.6	

Result	Dry	Sat.
Relative Density (G), Real	0.8067	0.8039

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status
Total un-normalized amount	99.7546	97.0000	103.0000	Pass

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Lost Tank 18 CPF **Flare Date:** 01/25/2024

Duration of Event: 5 Hours 16 Minutes **MCF Flared:** 344

Start Time: 02:11 AM **End Time:** 07:27 AM

Cause: Emergency Flare > Third Party > USA Compression > Gas Flow Restriction > Third Party Downstream Activity > 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 partial shut-down of a third-party compression station owner and operator. This event did not stem from any of Oxy's upstream facility activity which could have been foreseen or avoided and could not have been negated by good design, operation or preventative maintenance practices. In this case, Lost Tank 13 BOO compressor station, third party owned and operated by USA Compression, had their recycle valve open up due to MPLX slam valve shutting closed. When MPLX slam valve closed, this caused the Lost Tank 13 BOO compressor station's recycle valve to open up, which then caused a sudden and unexpected restriction of gas flow offload, which in turn, prompted Oxy's Lost Tank 18 CPF to instantaneously over pressure, trigging 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. 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, Lost Tank 13 BOO compressor station, third party owned and operated by USA Compression, had their recycle valve open up due to MPLX slam valve shutting closed. When MPLX slam valve closed, this caused the Lost Tank 13 BOO compressor station's recycle valve to open, which then caused a sudden and unexpected restriction of gas flow offload, which in turn, prompted Oxy's Lost Tank 18 CPF to instantaneously over pressure, trigging a flaring event to occur. Steps were immediately taken by the OXY Operator to reduce and mitigate the volume of gas being sent to flare by reducing production to the LT 18 CPF by choking back High GOR Wells- Top Spot 11H, DA 31H & 32H. There is no other option to reroute or offload to a secondary midstream operator from this facility. 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 cannot take any corrective actions to eliminate the cause and potential reoccurrence of a third-party owned and operated compressor station's sudden and unexpected gas flow intake restriction or shut-in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Third-party downstream compression station owner operators may have equipment issues, which will reoccur from time to time, which in turn, directly impacts Oxy's ability to send its sales gas to them, and potentially triggering a flaring event. 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 USA Compression personnel, who operate the Lost Tank Boo 13 Compressor Station, when possible, during these types of circumstances.

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District IV
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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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 312860
	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 312860

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 312860
	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	**[fAPP2226965761] Lost Tank 18 CPF**

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 > Third Party > USA Compression > Gas Flow Restriction > Third Party Downstream Activity > 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	2
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
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 (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 312860
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/25/2024
Time vent or flare was discovered or commenced	02:11 AM
Time vent or flare was terminated	07:27 AM
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: 344 Mcf | Recovered: 0 Mcf | Lost: 344 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	*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 event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or partial shut-down of a third-party compression station owner and operator. This event did not stem from any of Oxy's upstream facility activity which could have been foreseen or avoided and could not have been negated by good design, operation or preventative maintenance practices. In this case, Lost Tank 13 BOO compressor station, third party owned and operated by USA Compression, had their recycle valve open up due to MPLX slam valve shutting closed. When MPLX slam valve closed, this caused the Lost Tank 13 BOO compressor station's recycle valve to open up, which then caused a sudden and unexpected restriction of gas flow offload, which in turn, prompted Oxy's Lost Tank 18 CPF to instantaneously over pressure, trigging 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. 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.
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Steps taken to limit the duration and magnitude of vent or flare	party owned and operated by USA Compression, had their recycle valve open up due to MPLX slam valve shutting closed. When MPLX slam valve closed, this caused the Lost Tank 13 BOO compressor station's recycle valve to open, which then caused a sudden and unexpected restriction of gas flow offload, which in turn, prompted Oxy's Lost Tank 18 CPF to instantaneously over pressure, trigging a flaring event to occur. Steps were immediately taken by the OXY Operator to reduce and mitigate the volume of gas being sent to flare by reducing production to the LT 18 CPF by choking back High GOR Wells- Top Spot 11H, DA 31H & 32H. There is no other option to reroute or offload to a secondary midstream operator from this facility. 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 cannot take any corrective actions to eliminate the cause and potential reoccurrence of a third-party owned and operated compressor station's sudden and unexpected gas flow intake restriction or shut-in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Third-party downstream compression station owner operators may have equipment issues, which will reoccur from time to time, which in turn, directly impacts Oxy's ability to send its sales gas to them, and potentially triggering a flaring event. 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 USA Compression personnel, who operate the Lost Tank Boo 13 Compressor Station, when possible, during these types of circumstances.

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ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 312860
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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 312860

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 312860
	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.	2/8/2024