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 HP VRU 3
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	12-15-2023
Meter Number	16427V
Air temperature	57
Flow Rate (MCF/Day)	492
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	LOST TANK 18 FACILITY HP VRU 3
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	LOST TANK
FLOC	OP-DELNE-BT010
Sample Sub Type	СТВ
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38947
Sampled by	SCOTT
Sample date	12-12-2023
Analyzed date	12-19-2023
Method Name	C9
Injection Date	2023-12-19 16:54:11
Report Date	2023-12-19 16:55:47
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	53d6f6b5-4467-4841-89c9-4fae48334cc6
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	4568.9	0.2600	0.00005691	0.2564	0.0	0.00248	0.028	
Methane	456273.6	33.2457	0.00007286	32.7797	331.8	0.18157	5.613	
CO2	30720.0	1.4627	0.00004761	1.4422	0.0	0.02191	0.249	
Ethane	576932.1	26.5931	0.00004609	26.2203	465.1	0.27222	7.082	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	760744.0	24.9277	0.00003277	24.5783	619.8	0.37420	6.839	
iso-butane	300846.6	3.3273	0.00001106	3.2807	106.9	0.06584	1.084	
n-Butane	758257.0	8.3375	0.00001100	8.2207	268.8	0.16497	2.618	
iso-pentane	132666.7	1.2963	0.00000977	1.2781	51.3	0.03184	0.472	
n-Pentane	135071.5	1.2676	0.00000938	1.2499	50.2	0.03114	0.458	
hexanes	50692.0	0.4997	0.00000986	0.4927	23.5	0.01466	0.205	
heptanes	27428.0	0.1657	0.00000604	0.1633	9.0	0.00565	0.076	
octanes	6748.0	0.0362	0.00000537	0.0357	2.2	0.00141	0.018	
nonanes+	614.0	0.0020	0.00000326	0.0020	0.1	0.00009	0.001	
Total:		101.4216		100.0000	1928.9	1.16798	24.743	

Results Summary

	Result	Dry	Sat.
Tot	otal Un-Normalized Mole%	101.4216	
Pre	essure Base (psia)	14.730	
Ter	emperature Base (Deg. F)	60.00	
Release	ewirto Tempeiatyr=8/245/24)24 9:57:12 P.	<i>M</i> 114.3	

Received by OCD: 8/15/2024 9:51:14 PM	Dry	Sat.	Page 2
Flowing Pressure (psia)	102.1		
Gross Heating Value (BTU / Ideal cu.ft.)	1928.9	1895.3	
Gross Heating Value (BTU / Real cu.ft.)	1948.6	1915.7	
Relative Density (G), Real	1.1794	1.1705	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	101.4216	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Lost Tank 18 CPF Flare Date: 08/01/2024

Duration of Event: 1 Hour 10 Minutes **MCF Flared:** 803

Start Time: 06:08 PM End Time: 07:18 PM

Cause: Emergency Flare > Downstream Activity > Targa/Lucid > High O2 Detected by Lucid's O2 Sensor > Lucid

ESD Valve Shut > Lost Tank Boo 13 CS

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-in of a gas pipeline by a third-party downstream pipeline operator, which impacted Oxy's ability to send gas to a third-party downstream gas pipeline. This interruption, restriction, or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to 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, this flaring event occurred due a sudden and unexpected total closure of gas flow intake by Targa/Lucid, resulting from elevated O2 levels in their gas service line. The Targa/Lucid discharge at Lost Tank 13 BOO experienced an ESD (Emergency Shutdown) due to a surge in high oxygen levels. This high oxygen reading led Targa/Lucid to maintain their sales valve in the closed position until the oxygen measurement was confirmed accurate, enough time had passed for the levels to decrease, and Targa/Lucid were able to reopen their sales valve to resume gas intake. Oxy field and operations personnel constantly monitor the facility from any change in deviation from normal operating parameters however, no prior notification was made to Oxy operations personnel by Targa/Lucid. If prior notification was made to Oxy personnel, field and operation personnel would have adjusted and balanced the wells to reduce the amount of gas being sent to the facility and to sales, which in turn would have mitigated the chance of a flaring event from occurring. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively.

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, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, this flaring event occurred due a sudden and unexpected total closure of gas flow intake by Targa/Lucid, resulting from elevated O2 levels in their gas service line. The Targa/Lucid discharge at Lost Tank 13 BOO experienced an ESD (Emergency Shutdown) due to a surge in high oxygen levels. This high oxygen reading led Targa/Lucid to maintain their sales valve in the closed position until the oxygen measurement was confirmed accurate, enough time had passed for the levels to decrease, and Targa/Lucid were able to reopen

their sales valve to resume gas intake. Oxy field and operations personnel constantly monitor the facility from any change in deviation from normal operating parameters however, no prior notification was made to Oxy operations personnel by Targa/Lucid. If prior notification was made to Oxy personnel, field and operations personnel would have adjusted and balanced the wells to reduce the amount of gas being sent to the facility and to sales, which in turn would have mitigated the chance of a flaring event from occurring. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively. When flaring started, Oxy field personnel quickly acted to lessen and control the amount of gas flared by restricting high GOR DA/IPP and Top Spot wells. While it was possible to redirect or transfer to another midstream provider from this location, that option was unavailable due to the other midstream provider was at full capacity and could not take additional gas.

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

Oxy is not in a position to implement corrective measures to address the root cause and prevent future incidents of a gas flow restriction, shut-in or suspension in the Targa/Lucid offload pipeline, since this matter is beyond Oxy's custody transfer point and outside of Oxy's capacity to correct or keep from happening again. If Targa/Lucid and its operations face challenges managing the volume of gas from Lost Tank Boo 13, and subsequently, Oxy as well, it then limits Oxy's ability to push forward with its sales gas transmission, which in turn, prompts Oxy to flare its excess gas. Oxy strives to limit emissions where feasible and maintains communication with its downstream &midstream operators during such events to manage the situation.

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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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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 374523

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	374523
	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 374523

QUESTIONS

Operator:		OGRID:
	DXY USA INC	16696
	P.O. Box 4294	Action Number:
	Houston, TX 772104294	374523
		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 continuing with the rest of the questions.		
Incident ID (n#)	Unavailable.		
Incident Name	Unavailable.		
Incident Type	Flare		
Incident Status	Unavailable.		
Incident Facility	[fAPP2226965761] Lost Tank 18 CPF		
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, 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 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 > Targa/Lucid > High O2 Detected by Lucid's O2 Sensor > Lucid ESD Valve Shut > Lost Tank Boo 13 CS		

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	33
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	1
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the re	equired 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, Page 2

Action 374523

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	374523
	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	08/01/2024
Time vent or flare was discovered or commenced	06:08 PM
Time vent or flare was terminated	07:18 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: 803 Mcf Recovered: 0 Mcf Lost: 803 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	[24650] TARGA MIDSTREAM SERVICES LLC
Date notified of downstream activity requiring this vent or flare	
Time 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
	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction, or complete shut-in of a gas pipeline by a third-party downstream pipeline operator, which impacted Oxy's ability to send gas to a third-party downstream gas

Please explain reason for why this event was beyond this operator's control

pipeline. This interruption, restriction, or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to 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, this flaring event occurred due a sudden and unexpected total closure of gas flow intake by Targa/Lucid, resulting from elevated O2 levels in their gas service line. The Targa/Lucid discharge at Lost Tank 13 BOO experienced an ESD (Emergency Shutdown) due to a surge in high oxygen levels. This high oxygen reading led Targa/Lucid to maintain their sales valve in the closed position until the oxygen measurement was confirmed accurate, enough time had passed for the levels to decrease, and Targa/Lucid were able to reopen their sales valve to resume gas intake. Oxy field and operations personnel constantly monitor the facility from any change in deviation from normal operating parameters however, no prior notification was made to Oxy operations personnel by Targa/Lucid. If prior notification was made to Oxy personnel, field and operation personnel would have adjusted and balanced the wells to reduce the amount of gas being sent to the facility and to sales, which in turn would have mitigated the chance of a flaring event from occurring. This flaring situation was beyond OXY's control, but Oxy took all

· 	I necelible measures to reduce emissions effectively
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, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, this flaring event occurred due a sudden and unexpected total closure of gas flow intake by Targa/Lucid, resulting from elevated O2 levels in their gas service line. The Targa/Lucid discharge at Lost Tank 13 BOO experienced an ESD (Emergency Shutdown) due to a surge in high oxygen levels. This high oxygen reading led Targa/Lucid to maintain their sales valve in the closed position until the oxygen measurement was confirmed accurate, enough time had passed for the levels to decrease, and Targa/Lucid were able to reopen their sales valve to resume gas intake. Oxy field and operations personnel constantly monitor the facility from any change in deviation from normal operating parameters however, no prior notification was made to Oxy operations personnel by Targa/Lucid. If prior notification was made to Oxy personnel, field and operations personnel would have adjusted and balanced the wells to reduce the amount of gas being sent to the facility and to sales, which in turn would have mitigated the chance of a flaring event from occurring. This flaring situation was beyond OXY's control, b
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ACKNOWLEDGMENTS

Action 374523

ACKNOWLEDGMENTS

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P.O. Box 4294	Action Number:
Houston, TX 772104294	374523
	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.
<u>~</u>	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 374523

CONDITIONS

Operator:	OGRID:
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P.O. Box 4294	Action Number:
Houston, TX 772104294	374523
	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.	8/15/2024