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	СТВ
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		
Gred 4 by Tahag Yayu 8 8 T4/2 B 2 3 10 403:54	PM 1373.9	1350.6	

 Received by OCD: 8/10/20023 5:01:26 PM
 Dry
 Sat.
 Page 2 of 9

 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: 07/30/2023

Duration of event: 45 Minutes **MCF Flared:** 166

Start Time: 07:30 PM End Time: 08:15 PM

Cause: Emergency Flare > Compression Equipment Malfunctions > Gas Compressor Units # 2, # 6 & # 7

Method of Flared Gas Measurement: Gas Flare Meter

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

This emissions event was caused by the unforeseen, unexpected, sudden, and 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 preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, gas compressor units # 2, # 6 and # 7, suddenly and unexpectedly malfunctioned due to multiple malfunctions and automatically shut down, one right after the other, which in turn caused the facility to pressure up and triggered a flaring event. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when detonation occurs, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compressor malfunctions can occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of malfunction from occurring. This malfunctioning 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:

This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walkthroughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. 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, gas compressor units # 2, # 6 and # 7, suddenly and unexpectedly malfunctioned due to multiple malfunctions and automatically shut down, one right after the other, which in turn caused the facility to pressure up and triggered a flaring event. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when detonation occurs, it disrupts the gas compressor's operating manner and

cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compressor malfunctions can occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of malfunction from occurring. As soon as flaring was triggered, the facility's mitigation optimizer cut its injection rates to wells in the field to decrease injection and sales gas to reduce field pressure so that it would stay below the flare trigger setpoints of the CTB to cease flaring while production techs, who were on-site, cleared panel alarms and restarted the compressor units. 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 limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they occur suddenly and without warning.

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Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

1220 S. St Francis Dr., Santa Fe, NM 87505 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

Action 250765

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	250765
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 250765

Phone: (505) 476-3470 Fax: (505) 476-3462			
Q	QUESTIONS		
Operator:		OGRID:	
OXY USA INC P.O. Box 4294		16696	
Houston, TX 772104294		Action Number: 250765	
		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 w	ith the rest of the questions.	
Incident Well	Unavailable.		
Incident Facility	[fAPP2226965761] Lost T	ank 18 CPF	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	and may provide addional guidanc	e.	
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/o	r 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			
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 > Comp & # 7	pression Equipment Malfunctions >Gas Compressor Units # 2, # 6	
Description Comments of March 1 of March 1 of The 1 Natural Com			
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 spe-	cifications 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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Time vent or flare was terminated

Cumulative hours during this event

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 250765

QUESTIONS (continued)					
Operator: OXY USA INC	OGRID: 16696				
P.O. Box 4294 Houston, TX 772104294	Action Number: 250765				
	Action Type: [C-129] Venting and/or Flaring (C-129)				
QUESTIONS					
Date(s) and Time(s)					
Date vent or flare was discovered or commenced	07/30/2023				
Time vent or flare was discovered or commenced	07:30 PM				

08:15 PM

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: 166 Mcf Recovered: 0 Mcf Lost: 166 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	Not answered.	
Downstream OGRID that should have notified this operator	Not answered.	
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	This emissions event was caused by the unforeseen, unexpected, sudden, and 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 preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, gas compressor units # 2, # 6 and # 7, suddenly and unexpectedly malfunctioned due to multiple malfunctions and automatically shut down, one right after the other, which in turn caused the facility to pressure up and triggered a flaring event. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when detonation occurs, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compressor malfunctions can occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.
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assist other personnel on-site for maintenance purposes. 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 Steps taken to limit the duration and magnitude of vent or flare the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause In this case, gas compressor units # 2, # 6 and # 7, suddenly and unexpectedly malfunctioned due to multiple malfunctions and automatically shut down, one right after the other, which in turn caused the facility to pressure up and triggered a flaring event. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when detonation occurs, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compressor malfunctions can occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of malfunction from occurring Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and Corrective actions taken to eliminate the cause and reoccurrence of vent or flare reducing the number of emission events. Oxy has a strong and positive compression

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ACKNOWLEDGMENTS

Action 250765

ACKNOWLEDGMENTS

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P.O. Box 4294	Action Number:
Houston, TX 772104294	250765
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (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.
V	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.
V	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.
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 250765

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	250765
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
marialuna2	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.	8/14/2023