### 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.
Total Un-Normalized Mole%	101.4216	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Releasted to Tempeintyr=3125-2025 9:26	<b>:45 PM</b> 114.3	

Received by OCD: 3/3/2025 9:12:52 PM	Dry	Sat.	Pag
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: 02/15/2025

**Duration of Event:** 32 Minutes **MCF Flared:** 1046

Start Time: 06:03 PM End Time: 06:35 PM

**Cause:** Emergency Flare > Equipment Malfunction > Rio Panel Communications Failure

Method of Flared Gas Measurement: Gas Flare Meter

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

The emissions were caused by the sudden, 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 maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this situation, Lost Tank 25 CGL had an emergency shutdown as a result from a sudden and unexpected Rio panel communications automation fail on 5211, which in turn then shut down all the compression equipment. When the compression equipment shutdown at the Lost Tank 25 CGL, this affected the Lost Tank 13 Boo compressor station, which caused a back-up of gas and field pressure to spike, which in turn, triggered a flaring event to occur. Oxy operators consistently monitor the facility for any deviations from normal operating parameters; however, this was an abnormal failure that would be difficult to predict. While flaring is not OXY's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations, the equipment and field personnel. Prior to the flaring incident occurring, all OXY operations were operating at peak optimization levels. 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 all 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 situation, Lost Tank 25 CGL had an emergency shutdown as a result from a sudden and unexpected Rio panel communications automation fail on 5211, which in turn then shut down all the compression equipment. When the compression equipment shutdown at the Lost Tank 25 CGL, this affected the Lost Tank 13 Boo compressor station, which caused a back-up of gas and field pressure to spike, which in turn, triggered a flaring event to occur. Steps were immediately taken to reduce and mitigate the volume of gas being sent to flare by shutting in wells at the Lost Tank 25 CPF and the Lost Tank 18 CPF, until pressure stayed below the flare trigger setpoints of the facility to cease flaring. Immediate contact with the automation team was also done so that an automation tech could resolve the Rio panel communications failure. While flaring is not OXY's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations, the equipment and field personnel. Prior to the flaring incident occurring, all OXY operations were operating at peak optimization levels. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively

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

Oxy is limited in the corrective actions it is able to take during circumstances such as these. 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 operating manner and robs the compression engine of power, thus, causing an automatic shutdown of the unit. Oxy will continue to collaborate with its automation team to promptly resolve these issues in a timely manner.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

### State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

DEFINITIONS

Action 438517

### **DEFINITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	438517
	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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### State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe. NM 87505

QUESTIONS

Action 438517

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Q	UESTIONS	
Operator:		OGRID:
OXY USA INC P.O. Box 4294	-	16696 Action Number:
Houston, TX 772104294		438517
		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 continu	uing with the rest of the questions.
Incident ID (n#)	Unavailable.	
Incident Name	Unavailable.	
Incident Type	Flare	
Incident Status	Unavailable.	
Incident Facility	[fAPP2226965761] L	ost Tank 18 CPF
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	on) that are assigned to yo	ur current operator can be amended with this C-129A application.
Determination of Panastina Paguiraments		
Determination of Reporting Requirements	nd may provide	idana
Answer all questions that apply. The Reason(s) statements are calculated based on your answers are Was this vent or flare caused by an emergency or malfunction	1	iuanice.
	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 a	nd/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 v	enting 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 <b>ANY</b> liquids (not fully and/or completely		
flared) that reached (or has a chance of reaching) the ground, a surface, a	No	
watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	140	
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	No	
existence		
Equipment Involved		
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency Flare > F	equipment Malfunction > Rio Panel Communications Failure
2 Same to Equipment in Street Floor		Squipment manarionori - 1 to 1 anot communications 1 and 0
	1	
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	

Not answered.

Not answered.

Not answered.

Not answered.

Oxygen (02) percentage quality requirement

Methane (CH4) percentage quality requirement

Nitrogen (N2) percentage quality requirement

Hydrogen Sufide (H2S) PPM quality requirement

Carbon Dioxide (C02) percentage quality requirement

If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
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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, Page 2

Action 438517

QUESTI	ONS (continued)
Operator:	OGRID:
OXY USA INC P.O. Box 4294	16696 Action Number:
Houston, TX 772104294	438517
	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	02/15/2025
Time vent or flare was discovered or commenced	06:03 PM
Time vent or flare was terminated	06:35 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: 1,046 Mcf   Recovered: 0 Mcf   Lost: 1,046 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	
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 were caused by the sudden, 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 maintenance practices. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. In this situation, Lost Tank 25 CGL had an emergency shutdown as a result from a sudden and unexpected Rio panel communications automation fail on 5211, which in turn then shut down all the compression equipment. When the compression equipment shutdown at the Lost Tank 25 CGL, this affected the Lost Tank 13 Boo compressor station, which caused a back-up of gas and field pressure to spike, which in turn, triggered a flaring event to occur. Oxy operators consistently monitor the facility for any deviations from normal operating parameters; however, this was an abnormal failure that would be difficult to predict. While flaring is not OXY's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations, the equipment and field personnel. Prior to the flaring incident occurring, all OXY operations were operating at peak optimization levels. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively.			
	It is OXY's policy to route all 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			

Steps taken to limit the duration and magnitude of vent or flare	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 situation, Lost Tank 25 CGL had an emergency shutdown as a result from a sudden and unexpected Rio panel communications automation fail on 5211, which in turn then shut down all the compression equipment. When the compression equipment shutdown at the Lost Tank 25 CGL, this affected the Lost Tank 13 Boo compressor station, which caused a back-up of gas and field pressure to spike, which in turn, triggered a flaring event to occur. Steps were immediately taken to reduce and mitigate the volume of gas being sent to flare by shutting in wells at the Lost Tank 25 CPF and the Lost Tank 18 CPF, until pressure stayed below the flare trigger setpoints of the facility to cease flaring. Immediate contact with the automation team was also done so that an automation tech could resolve the Rio panel communications failure. While flaring is not OXY's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations, the equipment and field personnel. Prior to the flaring incident occurring, all OXY operations were operating at peak optimization levels. This flaring situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions it is able to take during circumstances such as these. 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 operating manner and robs the compression engine of power, thus, causing an automatic shutdown of the unit. Oxy will continue to collaborate with its automation team to promptly resolve these issues in a timely manner.

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ACKNOWLEDGMENTS

Action 438517

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
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P.O. Box 4294	Action Number:
Houston, TX 772104294	438517
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### **ACKNOWLEDGMENTS**

$\overline{\lor}$	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.
<b>V</b>	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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 438517

### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	438517
	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.	3/3/2025