AKM Measurement Services, LLC
Carlsbad, New Mexico

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	RED TANK 27-28 CTB PRODUCTION
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	02-16-2024
Meter Number	16211P
Air temperature	40
Flow Rate (MCF/Day)	11943
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK 27-28 CTB PRODUCTION
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	RED TANK
FLOC	OP-L2152-BT002
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38932
Sampled by	SCOTT
Sample date	2-13-2024
Analyzed date	2-18-2024
Method Name	C9
Injection Date	2024-02-18 17:14:52
Report Date	2024-02-18 17:19:30
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	39fcbadc-1e76-48bb-83b0-021ad2e296d3
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	31522.3	1.8194	0.00005772	1.8171	0.0	0.01757	0.201	
Methane	993454.8	72.4026	0.00007288	72.3140	732.1	0.40055	12.306	
CO2	37290.3	1.7783	0.00004769	1.7761	0.0	0.02699	0.304	
Ethane	283731.7	13.0755	0.00004608	13.0595	231.6	0.13558	3.506	
H2S	0.0	0.0003	0.00000000	0.0003	0.0	0.00000	0.000	
Propane	215565.6	7.0475	0.00003269	7.0389	177.5	0.10717	1.947	
iso-butane	75495.5	0.8374	0.00001109	0.8363	27.3	0.01678	0.275	
n-Butane	181664.6	2.0044	0.00001103	2.0019	65.5	0.04017	0.633	
iso-pentane	36619.5	0.3588	0.00000980	0.3584	14.4	0.00893	0.132	
n-Pentane	40549.4	0.3813	0.00000940	0.3808	15.3	0.00949	0.139	
hexanes	24734.0	0.2424	0.00000980	0.2421	11.5	0.00720	0.100	
heptanes	20881.0	0.1239	0.00000594	0.1238	6.8	0.00428	0.057	
octanes	9317.0	0.0482	0.00000517	0.0481	3.0	0.00190	0.025	
nonanes+	1103.0	0.0027	0.00000244	0.0027	0.2	0.00012	0.002	
Total:		100.1227		100.0000	1285.2	0.77674	19.625	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.1227		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	63.4		

Result	Dry	Sat.	
Flowing Pressure (psia)	106.7		
Gross Heating Value (BTU / Ideal cu.ft.)	1285.2	1262.8	
Gross Heating Value (BTU / Real cu.ft.)	1290.3	1268.4	
Relative Density (G), Real	0.7795	0.7772	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.1227	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility Id# fAPP2127030589
Operator: OXY USA, Inc.
Facility: Red Tank 27-28 CTB
Flare Date: 07/20/2025
Duration of Event: 4 Hours 15 Minutes
MCF Flared: 3478
Start Time: 05:45 PM
End Time: 10:00 PM
Cause: Emergency Flare > Severe Weather Conditions > Thunderstorms & Lightning > Flare Valve Malfunction
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, the automated flare valve at the Red Tank 27-28 CTB remained open when Red Tank 27 CGL shut down due to a power outage caused by a storm. After the flare valve opened, liquid became trapped in the instrument air supply line, preventing the valve from closing until the line was drained and repaired. This flaring event is out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently.

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 walk-throughs 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, 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. In this case, the automated flare valve at Red Tank 27-28 CTB stayed open when Red Tank 27 CGL shut down during a storm-induced power outage. Liquid trapped in the instrument air supply line kept the valve from closing until repairs were made. OXY technicians responded by reducing production and shutting in more wells, while Monarch Compression assisted with diagnostics. The issue was traced to high incoming powerline voltage, which required a third-party powerline technician to resolve. To mitigate the risks associated with overpressure and to ensure the safety of our operations, OXY had to resort to controlled flaring. This process allows us to safely burn off excess gas, thereby preventing potential hazards such as equipment damage, leaks, or even explosions. While flaring is not our preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations.

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

Oxy is limited in its corrective actions to eliminate the cause and recurrence of weather induced power outage equipment malfunctions are out of Oxy's control to avoid or prevent from recurring. The only action available to Oxy and its personnel in severe weather circumstances is to be pro-active and take precautionary measures prior to known severe weather conditions by securing equipment, and focusing on overall safety, communication and operational adjustments, if possible, during and after this event. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events by having a strong and positive equipment maintenance program in place.

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

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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 491840
	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 491840

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 491840
	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 these issues before continuing with the rest of the questions.	
Incident ID (n#)	*Unavailable.*
Incident Name	*Unavailable.*
Incident Type	**Flare**
Incident Status	*Unavailable.*
Incident Facility	**[fAPP2127030589] RED TANK 27-28 CTB**
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 > Severe Weather Conditions > Thunderstorms & Lightning > Flare Valve Malfunction

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	3
Carbon Dioxide (C02) percentage, if greater than one percent	2
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: 491840
	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	07/20/2025
Time vent or flare was discovered or commenced	05:45 PM
Time vent or flare was terminated	10:00 PM
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: 3,478 Mcf | Recovered: 0 Mcf | Lost: 3,478 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	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, the automated flare valve at the Red Tank 27-28 CTB remained open when Red Tank 27 CGL shut down due to a power outage caused by a storm. After the flare valve opened, liquid became trapped in the instrument air supply line, preventing the valve from closing until the line was drained and repaired. This flaring event is out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently.
	This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs 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, 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. In this case, the automated flare valve at Red Tank 27-28 CTB stayed open when Red Tank 27 CGL

Steps taken to limit the duration and magnitude of vent or flare	shut down during a storm-induced power outage. Liquid trapped in the instrument air supply line kept the valve from closing until repairs were made. OXY technicians responded by reducing production and shutting in more wells, while Monarch Compression assisted with diagnostics. The issue was traced to high incoming powerline voltage, which required a third-party powerline technician to resolve. To mitigate the risks associated with overpressure and to ensure the safety of our operations, OXY had to resort to controlled flaring. This process allows us to safely burn off excess gas, thereby preventing potential hazards such as equipment damage, leaks, or even explosions. While flaring is not our preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in its corrective actions to eliminate the cause and recurrence of weather induced power outage equipment malfunctions are out of Oxy's control to avoid or prevent from recurring. The only action available to Oxy and its personnel in severe weather circumstances is to be pro-active and take precautionary measures prior to known severe weather conditions by securing equipment, and focusing on overall safety, communication and operational adjustments, if possible, during and after this event. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events by having a strong and positive equipment maintenance program in place.

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ACKNOWLEDGMENTS

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	Action Number: 491840
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

☑	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.
☑	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.
☑	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.
☑	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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 491840
	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.	8/4/2025