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: Red Tank 27-28 CTB **Flare Date:** 11/05/2024

Duration of Event: 1 Hour **MCF Flared:** 238

Start Time: 07:00 AM **End Time:** 08:00 AM

Cause: Emergency Flare > Third Party > USA Compression > Red Tank BOO 26 & Red Tank 27 CGL > Power Glitch > Compression Issues > Equipment Shutdown > High Line Pressure > Field Area Pressure

Method of Flared Gas Measurement: Gas Flare Meter

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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 USA Compression Equipment caused by a power glitch. This interruption, restriction, or partial shut-in by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, 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 instance, Red Tank 26 Boo and Red Tank 27 CGL compressor stations, which are owned and operated by USA Compression, encountered issues with all their compression equipment due to a power glitch. This power glitch affected both of USA Compression's facilities, resulting in an abrupt and unexpected shutdown of their gas flow intake from Oxy. Consequently, the shutdown impacted the Red Tank area and subsequently affected Red Tank 27-28 CTB. The high field pressure that ensued caused Red Tank 27-28 CTB to pressurize and trigger a flaring event. This incident was unforeseeable and could not have been avoided or prevented, as it occurred without any prior notice or warning to Oxy and its field personnel from USA Compression personnel. Red Tank 26 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. In this instance, Red Tank 26 Boo and Red Tank 27 CGL compressor stations, which are owned and operated by USA Compression, encountered issues with all their compression equipment due to a power glitch. This power glitch affected both of USA Compression's facilities, resulting in an abrupt and unexpected shutdown of their gas flow intake from Oxy. Consequently, the shutdown impacted the Red Tank area and subsequently affected Red Tank 27-28 CTB. The high field pressure that ensued Red Tank 27-28 CTB to pressurize and trigger a flaring event. The Oxy production techs, who were on-site, continually kept in touch with additional Oxy field personnel to make adjustments to injection rate changes, to minimize emissions during USA Compressions' attempts to resolve their equipment issues, which took longer than usual to resolve due to their own mechanics were busy at other locations. 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 Red Tank Boo 26 Compressor Station and the Red Tank 27 CGL, when possible, during these types of circumstances.

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: 405420
	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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405420
	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	**[fAPP2127030589] RED TANK 27-28 CTB**

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 > Red Tank BOO 26 & Red Tank 27 CGL > Power Glitch > Compression Issues > Equipment Shutdown > High Line Pressure > Field Area Pressure

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: 405420
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	11/05/2024
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	08:00 AM
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: 238 Mcf | Recovered: 0 Mcf | Lost: 238 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	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or partial shut-down of USA Compression Equipment caused by a power glitch. This interruption, restriction, or partial shut-in by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, 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 instance, Red Tank 26 Boo and Red Tank 27 CGL compressor stations, which are owned and operated by USA Compression, encountered issues with all their compression equipment due to a power glitch. This power glitch affected both of USA Compression's facilities, resulting in an abrupt and unexpected shutdown of their gas flow intake from Oxy. Consequently, the shutdown impacted the Red Tank area and subsequently affected Red Tank 27-28 CTB. The high field pressure that ensued caused Red Tank 27-28 CTB to pressurize and trigger a flaring event. This incident was unforeseeable and could not have been avoided or prevented, as it occurred without any prior notice or warning to Oxy and its field personnel from USA Compression personnel. Red Tank 26 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.
	It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable

Steps taken to limit the duration and magnitude of vent or flare	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 instance, Red Tank 26 Boo and Red Tank 27 CGL compressor stations, which are owned and operated by USA Compression, encountered issues with all their compression equipment due to a power glitch. This power glitch affected both of USA Compression's facilities, resulting in an abrupt and unexpected shutdown of their gas flow intake from Oxy. Consequently, the shutdown impacted the Red Tank area and subsequently affected Red Tank 27-28 CTB. The high field pressure that ensued Red Tank 27-28 CTB to pressurize and trigger a flaring event. The Oxy production techs, who were on-site, continually kept in touch with additional Oxy field personnel to make adjustments to injection rate changes, to minimize emissions during USA Compressions' attempts to resolve their equipment issues, which took longer than usual to resolve due to their own mechanics were busy at other locations. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.
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ACKNOWLEDGMENTS

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	Action Number: 405420
	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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 405420
	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.	11/20/2024