Natural Gas Analysis Report
GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

	Sample Information
Sample Name	RED TANK 19 CGL CHECK B
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	01-23-2023
Meter Number	15698C
Air temperature	40
Flow Rate (MCF/Day)	13030.8
Heat Tracing	Heated Hose & Gasifier
Sample description/mtr name	RED TANK 19 CGL CHECK B
Sampling Method	fill and empty
Operator	AKM MEASUREMENT
State	New Mexico
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST
FLOC	OP-L2151-CS002
Sample Sub Type	COMP STATION
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	4678
Sampled by	JONATHAN ALDRICH
Sample date	1-24-2023
Analyzed date	1-26-2023
Method Name	C9
Injection Date	2023-01-26 08:38:14
Report Date	2023-01-26 08:42:48
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	53dca264-5446-4e60-9234-d149041123f4
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	35977.3	2.0276	0.00005636	2.0190	0.0	0.01953	0.223	
Methane	1018154.0	74.5958	0.00007327	74.2785	751.9	0.41143	12.634	
CO2	73484.5	3.4729	0.00004726	3.4581	0.0	0.05255	0.592	
Ethane	258499.0	11.7635	0.00004551	11.7134	207.8	0.12161	3.143	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	181239.7	5.9390	0.00003277	5.9137	149.1	0.09004	1.635	
iso-butane	57438.8	0.6384	0.00001111	0.6357	20.7	0.01276	0.209	
n-Butane	131616.2	1.4457	0.00001098	1.4396	47.1	0.02889	0.455	
iso-pentane	21709.9	0.2109	0.00000971	0.2100	8.4	0.00523	0.077	
n-Pentane	21485.5	0.2034	0.00000947	0.2026	8.1	0.00505	0.074	
hexanes	10440.0	0.0793	0.00000760	0.0790	3.8	0.00235	0.033	
heptanes	6110.0	0.0382	0.00000624	0.0380	2.1	0.00131	0.018	
octanes	2141.0	0.0119	0.00000558	0.0119	0.7	0.00047	0.006	
nonanes+	85.0	0.0005	0.00000619	0.0005	0.0	0.00002	0.000	
Total:		100.4272		100.0000	1199.9	0.75123	19.098	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.4272		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	85.0		

Result	Dry	Sat.
Flowing Pressure (psia)	1170.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1199.9	1179.0
Gross Heating Value (BTU / Real cu.ft.)	1204.1	1183.7
Relative Density (G), Real	0.7536	0.7516

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status
Total un-normalized amount	100.4272	97.0000	103.0000	Pass

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Red Tank 19 CGL **Date:** 07/17/2023

Duration of event: 2 Hours 30 Mins **MCF Flared:** 443

Start Time: 05:30 PM **End Time:** 08:00 PM

Cause: Facility Equipment Issues > Equipment Malfunction > Gas Sales Dehydration System > Coalescent Filter Separator PSV

Method of Flared Gas Measurement: Gas Flare Meter

Comments: This upset event was not caused by any wells associated with the facility.

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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon facility equipment malfunctions and/or alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. It is OXY's policy to route all stranded gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions, when possible, yet, in this case, this venting event occurred because of the coalescent filter separator PSV on the gas sales dehydration system failed due to the internal seat/port washed out. Notwithstanding facility design and operation, emergencies, and unexpected equipment malfunctions, can occur without warning, be sudden, unforeseeable and unavoidable, even with proper preventative maintenance care. Oxy continually strives to maintain and operate in a manner consistent with good practice for minimizing emissions and reducing the number of emission events. This event is out of OXY's control, yet 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 walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. Internal OXY procedures ensure that upon facility equipment malfunctions and/or alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible. 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. It is OXY's policy to route all stranded gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions, when possible, yet, in this case, this venting event occurred as a result of the coalescent filter separator PSV on the gas sales dehydration system failed due to the internal seat/port washed out. Once the event was discovered by an Oxy production tech, the dehydration system was bypassed to mitigate venting and called a third-party vendor to repair the PRV. 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 available to them to eliminate the cause and potential reoccurrence of this type of equipment malfunction as notwithstanding dehydration system operating equipment design and operations, they are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected. The only action that Oxy can take is to continue with the equipment preventative maintenance program for this facility. 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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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: 249307
	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

Action 249307

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 249307
	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	**[fAPP2127357918] RED TANK 19 CGL**

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	Facility Equipment Issues > Equipment Malfunction > Gas Sales Dehydration System > Coalescent Filter Separator PSV

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	74
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	3
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: 249307
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/17/2023
Time vent or flare was discovered or commenced	05:30 PM
Time vent or flare was terminated	08:00 PM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other | Other (Specify) | Natural Gas Vented | Released: 443 Mcf | Recovered: 0 Mcf | Lost: 443 Mcf.
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	Estimated Vent Calculations
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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon facility equipment malfunctions and/or alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. It is OXY's policy to route all stranded gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions, when possible, yet, in this case, this venting event occurred as a result of the coalescent filter separator PSV on the gas sales dehydration system failed due to the internal seat/port washed out. Notwithstanding facility design and operation, emergencies, and unexpected equipment malfunctions, can occur without warning, be sudden, unforeseeable and unavoidable, even with proper preventative maintenance care. Oxy continually strives to maintain and operate in a manner consistent with good practice for minimizing emissions and reducing the number of emission events. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.
	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. Internal OXY procedures ensure

Steps taken to limit the duration and magnitude of vent or flare	that upon facility equipment malfunctions and/or alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible. 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. It is OXY's policy to route all stranded gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions, when possible, yet, in this case, this venting event occurred as a result of the coalescent filter separator PSV on the gas sales dehydration system failed due to the internal seat/port washed out. Once the event was discovered by an Oxy production tech, the dehydration system was bypassed to mitigate venting and called a third-party vendor to repair the PRV. 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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 249307
	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: 249307
	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.	8/7/2023