



## 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:** 09/23/2024**Duration of Event:** 13 Hours 46 Mins**MCF Vented:** 350**Start Time:** 12:59 AM**End Time:** 02:45 PM**Cause:** Facility Equipment Issues > Equipment Malfunction > Compressor Unit #4 > Pressure Relief Valve**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 or prevented by good design, operation, and preventative maintenance practices. 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 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 the pressure relief valve on compressor unit #4 was stuck in the open position, which in turn, prompted venting to occur. This venting was captured when an Oxy emissions team technician was on-site and scanning the facility with its FLIR camera. 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. This venting 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, 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 the pressure relief valve on compressor unit #4 was stuck in the open position, which in turn, prompted venting to occur. This venting was captured when an Oxy emissions team technician was on-site and scanning the facility with its FLIR camera, and once venting was captured, the issue was immediately reported to Operations personnel to request the third-party compression vendor to come out and repair the pressure relief valve. 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 venting 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 available to them to eliminate the cause and potential reoccurrence of this type of pressure relief valve equipment malfunction as notwithstanding gas compression 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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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

DEFINITIONS

Action 403030

DEFINITIONS

Operator:  OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:  16696
	Action Number:  403030
	Action Type:  [C-129] Amend Venting and/or Flaring (C-129A)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 403030

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 403030
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

<b>Prerequisites</b> <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2127357918] RED TANK 19 CGL
<i>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.</i>	

<b>Determination of Reporting Requirements</b> <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	Yes
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>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.</i>	
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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Facility Equipment Issues > Equipment Malfunction > Compressor Unit #4 > Pressure Relief Valve

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	74
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	3
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sulfide (H2S) PPM quality requirement	0
Carbon Dioxide (CO2) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0

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QUESTIONS, Page 2

Action 403030

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 403030
	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	09/23/2024
Time vent or flare was discovered or commenced	12:59 AM
Time vent or flare was terminated	02:45 PM
Cumulative hours during this event	14

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Vented   Released: 350 Mcf   Recovered: 0 Mcf   Lost: 350 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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	No
Downstream OGRID that should have notified this operator	0
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	<p>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. 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 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 the pressure relief valve on compressor unit #4 was stuck in the open position, which in turn, prompted venting to occur. This venting was captured when an Oxy emissions team technician was on-site and scanning the facility with its FLIR camera. 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. This venting situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively.</p> <p>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 the pressure relief valve on compressor unit</p>

Steps taken to limit the duration and magnitude of vent or flare	#4 was stuck in the open position, which in turn, prompted venting to occur. This venting was captured when an Oxy emissions team technician was on-site and scanning the facility with its FLIR camera, and once venting was captured, the issue was immediately reported to Operations personnel to request the third-party compression vendor to come out and repair the pressure relief valve. 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 venting situation was beyond OXY's control, but Oxy took all possible measures to reduce emissions effectively.
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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 403030

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	Action Number: 403030
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	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.	11/13/2024