



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 CPF 26 PROD 3
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	01-18-2024
Meter Number	16611P
Air temperature	25
Flow Rate (MCF/Day)	10617
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK CPF 26 PROD 3
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-L2281-BT001
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38943
Sampled by	SCOTT
Sample date	1-19-2024
Analyzed date	1-23-2024
Method Name	C9
Injection Date	2024-01-23 14:31:21
Report Date	2024-01-23 14:35:34
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	bf855204-fd71-4367-9dea-215dddff4faa
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	32261.1	1.8584	0.00005761	1.8607	0.0	0.01800	0.206
Methane	994139.0	72.2088	0.00007263	72.2990	731.9	0.40046	12.305
CO2	41188.6	1.9552	0.00004747	1.9576	0.0	0.02975	0.335
Ethane	267067.5	12.2644	0.00004592	12.2797	217.8	0.12749	3.297
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000
Propane	202792.4	6.6294	0.00003269	6.6377	167.4	0.10106	1.836
iso-butane	76815.3	0.8504	0.00001107	0.8515	27.8	0.01709	0.280
n-Butane	193683.5	2.1309	0.00001100	2.1335	69.8	0.04282	0.675
iso-pentane	49526.5	0.4842	0.00000978	0.4848	19.4	0.01208	0.178
n-Pentane	60397.3	0.5667	0.00000938	0.5674	22.8	0.01413	0.206
hexanes	52843.0	0.5190	0.00000982	0.5196	24.8	0.01546	0.215
heptanes	51633.0	0.3070	0.00000595	0.3074	17.0	0.01064	0.142
octanes	18723.0	0.0972	0.00000519	0.0974	6.1	0.00384	0.050
nonanes+	1480.0	0.0037	0.00000253	0.0037	0.3	0.00016	0.002
Total:		99.8755		100.0000	1305.0	0.79297	19.728

Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	99.8755	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
	74.5	

Result	Dry	Sat.	
Flowing Pressure (psia)	103.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1305.0	1282.2	
Gross Heating Value (BTU / Real cu.ft.)	1310.5	1288.2	
Relative Density (G), Real	0.7960	0.7933	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status
Total un-normalized amount	99.8755	97.0000	103.0000	Pass

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Red Tank 27 CS

Flare Date: 06/10/2024

Duration of Event: 10 Minutes

MCF Flared: 90

Start Time: 10:30 PM

End Time: 10:40 PM

Cause: Emergency Flare > Cold Vent > Automation Issue

Method of Flared Gas Measurement: Gas Flare Meter

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

In this case, Oxy's automation personnel were working on the facility's PLC panel, when an automation technician inadvertently dislodged a fuse, which in turn prompted a cold vent valve to open, which then triggered a brief flaring event to occur. This event could have been prevented but it was not expected for the technician to inadvertently loosen a fuse and therefore, this event was beyond Operator'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 case, Oxy's automation personnel were working on the facility's PLC panel, when an automation technician inadvertently dislodged a fuse, which in turn prompted a cold vent valve to open, which then triggered a brief flaring event to occur. As soon as flaring was triggered, an on-site Oxy field production technician was able to physically close the manual valve upstream of the failed valve and flaring ceased immediately.

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

In this case, Oxy's automation personnel were working on the facility's PLC panel, when an automation technician inadvertently dislodged a fuse, which in turn prompted a cold vent valve to open, which then triggered a brief flaring event to occur. This event could have been prevented but it was not expected for the technician to inadvertently loosen a fuse and therefore, this event was beyond Operator's control. The corrective action to take to potentially eliminate this type of cause and reoccurrence of flaring, is for proper training when working in and around sensitive electronic communication equipment. 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

Action 356639

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356639
	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 356639

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356639
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<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 Well	Unavailable.
Incident Facility	[fAPP2417328224] Red Tank 27 Compressor Station

Determination of Reporting Requirements	
<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	No
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

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Gas Flare Meter - Emergency Flare > Cold Vent > Automation Issue

Representative Compositional Analysis of Vented or Flared Natural Gas	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	72
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	2
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	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 356639

QUESTIONS (continued)

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	Action Number: 356639
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/10/2024
Time vent or flare was discovered or commenced	10:30 PM
Time vent or flare was terminated	10:40 PM
Cumulative hours during this event	0

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: 90 Mcf Recovered: 0 Mcf Lost: 90 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	In this case, Oxy's automation personnel were working on the facility's PLC panel, when an automation technician inadvertently dislodged a fuse, which in turn prompted a cold vent valve to open, which then triggered a brief flaring event to occur. This event could have been prevented but it was not expected for the technician to inadvertently loosen a fuse and therefore, this event was beyond Operator's control.
Steps taken to limit the duration and magnitude of vent or flare	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, Oxy's automation personnel were working on the facility's PLC panel, when an automation technician inadvertently dislodged a fuse, which in turn prompted a cold vent valve to open, which then triggered a brief flaring event to occur. As soon as flaring was triggered, an on-site Oxy field production technician was able to physically close the manual valve upstream of the failed valve and flaring ceased immediately.
	In this case, Oxy's automation personnel were working on the facility's PLC panel, when an automation technician inadvertently dislodged a fuse, which in turn prompted a cold vent valve to open, which then triggered a brief flaring event to occur. This event could have been

Corrective actions taken to eliminate the cause and reoccurrence of vent or flare

prevented but it was not expected for the technician to inadvertently loosen a fuse and therefore, this event was beyond Operator's control. The corrective action to take to potentially eliminate this type of cause and reoccurrence of flaring, is for proper training when working in and around sensitive electronic communication equipment. OXY made every effort to control and minimize emissions as much as possible.

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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<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 356639

CONDITIONS

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	Action Number: 356639
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
shelbyschoepf	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.	6/21/2024