



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 CHECK
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	03-16-2023
Meter Number	16200C
Air temperature	66
Flow Rate (MCF/Day)	
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK 27 28 CTB CHECK
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST
FLOC	OP-L2152-BT002
Sample Sub Type	PRODUCTION
Sample Name Type	WELL
Vendor	AKM MEASUREMENT
Cylinder #	7407
Sampled by	JONATHAN ALDRICH
Sample date	3-15-2023
Analyzed date	3-16-2023
Method Name	C9
Injection Date	2023-03-16 09:27:07
Report Date	2023-03-16 09:32:14
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	79256edd-11d1-456e-a9c1-97fd3ac7df68
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	35532.0	2.0156	0.00005673	2.0029	0.0	0.01937	0.221	
Methane	966210.5	70.8521	0.00007333	70.4042	712.7	0.38997	11.984	
CO2	49879.7	2.2948	0.00004601	2.2803	0.0	0.03465	0.391	
Ethane	283286.3	12.9892	0.00004585	12.9071	228.9	0.13400	3.466	
H2S	0.0	0.0003	0.00000000	0.0003	0.0	0.00000	0.000	
Propane	228205.6	7.4381	0.00003259	7.3910	186.4	0.11253	2.044	
iso-butane	84437.5	0.9377	0.00001111	0.9318	30.4	0.01870	0.306	
n-Butane	218974.4	2.4123	0.00001102	2.3970	78.4	0.04810	0.759	
iso-pentane	50277.3	0.4887	0.00000972	0.4856	19.5	0.01210	0.178	
n-Pentane	56698.4	0.5395	0.00000952	0.5361	21.5	0.01335	0.195	
hexanes	38745.0	0.2982	0.00000770	0.2963	14.1	0.00882	0.122	
heptanes	36786.0	0.2359	0.00000641	0.2344	12.9	0.00811	0.109	
octanes	18648.0	0.1094	0.00000587	0.1087	6.8	0.00429	0.056	
nonanes+	3967.0	0.0245	0.00000617	0.0243	1.7	0.00108	0.014	
Total:		100.6365		100.0000	1313.4	0.80507	19.845	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.6365		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	83.6		
Flowing Temperature (Deg. F)	121.0		

Result	Dry	Sat.	
Gross Heating Value (BTU / Ideal cu.ft.)	1313.4	1290.5	
Gross Heating Value (BTU / Real cu.ft.)	1319.1	1296.7	
Relative Density (G), Real	0.8082	0.8053	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.6365	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Red Tank 26 CPF**Flare Date:** 06:30 PM**Duration of Event:** 1 Hour 50 Minutes**MCF Flared:** 1785**Start Time:** 06:30 PM**End Time:** 08:20 PM**Cause:** Emergency Flare > Downstream Activity > Third Party Operator > MPLX**Method of Flared Gas Measurement:** Gas Flare Meter

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

This interruption, restriction or complete shut-in of the gas pipeline 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 case, Red Tank 26 Boo station compressor gas lift station was restricted from pushing forward its sales gas by the sudden and unexpected closing of MPLX gas plant's sales valve, which in turn, prompted their compression equipment to shut down, which then caused Oxy's Red Tank 26 CPF to pressure up automatically and trigger a flaring event to occur. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from MPLX on how much gas was being reduced by a downstream gathering system facility, which is downstream of Oxy's control. OXY made every effort to control and minimize emissions as much as possible during this event. 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 (MPLX), 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. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, Red Tank 26 Boo station compressor gas lift station was restricted from pushing forward its sales gas by the sudden and unexpected closing of MPLX gas plant's sales valve, which in turn, prompted their compression equipment to shut down, which then caused Oxy's Red Tank 26 CPF to pressure up automatically and trigger a flaring event to occur. Field personnel began storage process procedures on storage wells and choked back several wells to mitigate flaring. MPLX was unable to re-open their valve and take Oxy's gas again until their own technician was able to be dispatched and arrive at its facility to troubleshoot and resolve its issues, which took a bit of time to do. All OXY operations and facility equipment were running at maximized optimization prior to this event occurring. This incident was completely 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.

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, or additional downstream third-party gas plant 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.

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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 257945

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 257945
	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 257945

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 257945
	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 Operator	[16696] OXY USA INC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Unavailable.
Incident Facility	[fAPP2322359755] Red Tank 26 Central Processing Facility

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 additional 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 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	Emergency Flare > Downstream Activity > Third Party Operator > MPLX

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	70
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	3
Carbon Dioxide (CO2) percentage, if greater than one percent	2
Oxygen (O2) 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 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 257945

QUESTIONS (continued)

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	Action Number: 257945
	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	08/10/2023
Time vent or flare was discovered or commenced	06:30 PM
Time vent or flare was terminated	08:20 PM
Cumulative hours during this event	2

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: 1,785 Mcf Recovered: 0 Mcf Lost: 1,785 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[258315] MARKWEST ENERGY OPERATING CO LLC
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 interruption, restriction or complete shut-in of the gas pipeline 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 case, Red Tank 26 Boo station compressor gas lift station was restricted from pushing forward its sales gas by the sudden and unexpected closing of MPLX gas plant's sales valve, which in turn, prompted their compression equipment to shut down, which then caused Oxy's Red Tank 26 CPF to pressure up automatically and trigger a flaring event to occur. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from MPLX on how much gas was being reduced by a downstream gathering system facility, which is downstream of Oxy's control. OXY made every effort to control and minimize emissions as much as possible during this event. 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 (MPLX), 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 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

Steps taken to limit the duration and magnitude of vent or flare	and magnitude of flaring. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, Red Tank 26 Boo station compressor gas lift station was restricted from pushing forward its sales gas by the sudden and unexpected closing of MPLX gas plant's sales valve, which in turn, prompted their compression equipment to shut down, which then caused Oxy's Red Tank 26 CPF to pressure up automatically and trigger a flaring event to occur. Field personnel began storage process procedures on storage wells and choked back several wells to mitigate flaring. MPLX was unable to re-open their valve and take Oxy's gas again until their own technician was able to be dispatched and arrive at its facility to troubleshoot and resolve its issues, which took a bit of time to do. All OXY operations and facility equipment were running at maximized optimization prior to this event occurring. This incident was completely 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.
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ACKNOWLEDGMENTS

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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

Action 257945

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	Action Number: 257945
	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.	8/25/2023