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

	Sample Information
Sample Name	RED TANK 19 TRAIN 1 CHECK
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	03-09-2023
Meter Number	15621C
Air temperature	51
Flow Rate (MCF/Day)	33546.8
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK 19 TRAIN 1 CHECK
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST
FLOC	OP-L2151-BT001
Sample Sub Type	СТВ
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	1196
Sampled by	JONATHAN ALDRICH
Sample date	3-9-2023
Analyzed date	3-15-2023
Method Name	C9
Injection Date	2023-03-15 09:20:44
Report Date	2023-03-15 09:24:54
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	d11f8fb4-994a-4571-b497-2656e2ff6a43
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	37508.4	2.1250	0.00005665	2.1141	0.0	0.02045	0.234	
Methane	919467.2	67.2782	0.00007317	66.9318	677.6	0.37074	11.401	
CO2	85135.0	4.0159	0.00004717	3.9953	0.0	0.06071	0.685	
Ethane	247065.1	11.2804	0.00004566	11.2224	199.1	0.11651	3.016	
H2S	0.0	0.0009	0.00000000	0.0009	0.0	0.00001	0.000	
Propane	235085.4	7.6721	0.00003264	7.6327	192.5	0.11621	2.113	
iso-butane	117681.2	1.3121	0.00001115	1.3053	42.5	0.02619	0.429	
n-Butane	335053.4	3.6979	0.00001104	3.6789	120.3	0.07383	1.165	
iso-pentane	100910.5	0.9787	0.00000970	0.9737	39.0	0.02426	0.358	
n-Pentane	114119.8	1.0795	0.00000946	1.0740	43.2	0.02675	0.391	
hexanes	76834.0	0.5816	0.00000757	0.5786	27.6	0.01722	0.239	
heptanes	65218.0	0.4030	0.00000618	0.4010	22.1	0.01387	0.186	
octanes	16408.0	0.0891	0.00000543	0.0887	5.6	0.00350	0.046	
nonanes+	587.0	0.0026	0.00000442	0.0026	0.2	0.00012	0.001	
Total:		100.5171		100.0000	1369.6	0.87036	20.264	

Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	100.5171	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flowing Temperature (Deg. F)	57.0	
Releasion in Preserving (psib/22/2023 10:23:5	6 AM 15.0	

Received by OCD: 1463262023 10:20:38	1M Dry	Sat.	Page.
Gross Heating Value (BTU / Ideal cu.ft.)	1369.6	1345.8	
Gross Heating Value (BTU / Real cu.ft.)	1376.5	1353.1	
Relative Density (G), Real	0.8744	0.8704	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.5171	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Red Tank 19 CTB Flare Date: 05/31/2023

Duration of event: 30 Minutes **MCF Flared:** 242

Start Time: 07:30 PM End Time: 08:00 PM

Cause: Emergency Flare > Third Party > USA Compression > Red Tank 26 Boo CS > Compression Equipment

Issues

Method of Flared Gas Measurement: Gas Flare Meter

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 complete shut-in of a gas pipeline by a third-party pipeline compressor station operator, which impacted Oxy's ability to send gas to them. 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 Boo 26 compressor station, third party owned and operated by USA Compression, had facility equipment issues, which then instigated a sudden and unexpected restriction of gas flow intake by them, which in turn, prompted Oxy's facility 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 USA Compression personnel. Red Tank Boo 26 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 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. The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline operator, which impacted Oxy's ability to send gas to them. 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 Boo 26 compressor station, third party owned and operated by USA Compression, had facility equipment issues, which then instigated a sudden and unexpected restriction of gas flow intake by them, which in turn, prompted Oxy's facility to pressure up automatically and trigger a flaring event to occur. As soon as flaring began, Oxy production techs contacted USA Compression Boo station personnel and

subsequently made choke changes so that field pressure would stay below the flare trigger setpoints of the Red Tank 27-28 CTB to cease flaring. 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. Red Tank Boo 26 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 a downstream gathering system facility, which are both downstream of Oxy's control.

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 26 Boo Compressor Station, when possible, during these types of circumstances.

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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 287917

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	287917
l l	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.

Operator:

Incident Facility

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QUESTIONS

Action 287917

QUESTIONS

OGRID:

[fAPP2127031815] RED TANK 19 CTB

OXY USA INC		Action Number:		
P.O. Box 4294				
Houston, TX 772104294		287917		
		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 th	hese issues before contin	nuing with the rest of the questions.		
Incident Operator [16696]		ıc		
Incident Type	Flare			
Incident Status	Closure Approved			
Incident Well	Unavailable.			

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 ar	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 26 Boo CS > Compression Equipment Issues

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	67
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	9
Carbon Dioxide (C02) percentage, if greater than one percent	4
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the re	equired specifications for each gas.
Methane (CH4) percentage quality requirement	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sufide (H2S) PPM quality requirement	0
Carbon Dioxide (C02) percentage quality requirement	0
Oxygen (02) percentage quality requirement	0

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QUESTIONS, Page 2

Action 287917

QUESTIONS (continued)	QL	JEST	IONS	(continued)
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QUESTIONS (COntinued)	
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	287917
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)
QUESTIONS	
Date(s) and Time(s)	

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/31/2023
Time vent or flare was discovered or commenced	07:30 PM
Time vent or flare was terminated	08:00 PM
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: 242 MCF Recovered: 0 MCF Lost: 242 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	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	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline compressor station operator, which impacted Oxy's ability to send gas to them. 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 Boo 26 compressor station, third party owned and operated by USA Compression, had facility equipment issues, which then instigated a sudden and unexpected restriction of gas flow intake by them, which in turn, prompted Oxy's facility 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 USA Compression personnel. Red Tank Boo 26 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 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. The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction or complete shut-in of a gas pipeline by a third-party pipeline operator, which impacted Oxy's ability to send gas to them. 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 Boo 26 compressor station, third party owned and operated by USA Compression, had facility equipment issues, which then instigated a sudden and unexpected restriction of gas flow intake by them, which in turn, prompted Oxy's facility to pressure up automatically and trigger a flaring event to occur. As soon as flaring began, Oxy production techs contacted USA Compression Boo station personnel and subsequently made choke changes so that field pressure would stay below the flare trigger setpoints of the Red Tank 27-28 CTB to cease flaring. 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.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	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 26 Boo Compressor Station, when possible, during these types of circumstances.

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ACKNOWLEDGMENTS

Action 287917

ACKNOWLEDGMENTS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	287917
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
V	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.
V	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 287917

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	287917
	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.	11/22/2023