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 27-28 CTB FUEL GAS
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	01-18-2024
Meter Number	
Air temperature	64
Flow Rate (MCF/Day)	
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK 27-28 CTB FUEL GAS
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST
FLOC	
Sample Sub Type	FUEL GAS
Sample Name Type	FUEL GAS
Vendor	AKM MEASUREMENT
Cylinder #	38590
Sampled by	JONATHAN ALDRICH
Sample date	1-18-2024
Analyzed date	1-23-2024
Method Name	C9
Injection Date	2024-01-23 13:47:20
Report Date	2024-01-23 13:48:24
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	00c6290d-6478-440d-81e2-a6909499643e
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	42092.5	2.4248	0.00005761	2.4324	0.0	0.02353	0.269
Methane	983946.9	71.4685	0.00007263	71.6937	725.8	0.39711	12.199
CO2	75407.8	3.5796	0.00004747	3.5909	0.0	0.05456	0.615
Ethane	256372.0	11.7733	0.00004592	11.8104	209.5	0.12262	3.170
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000
Propane	193894.6	6.3385	0.00003269	6.3585	160.4	0.09681	1.758
iso-butane	70582.3	0.7814	0.00001107	0.7839	25.6	0.01573	0.257
n-Butane	175181.1	1.9273	0.00001100	1.9334	63.2	0.03880	0.612
iso-pentane	41341.5	0.4042	0.00000978	0.4055	16.3	0.01010	0.149
n-Pentane	45093.2	0.4231	0.00000938	0.4245	17.1	0.01057	0.154
hexanes	30670.0	0.3012	0.00000982	0.3022	14.4	0.00899	0.125
heptanes	30747.0	0.1828	0.00000595	0.1834	10.1	0.00635	0.085
octanes	14695.0	0.0763	0.00000519	0.0766	4.8	0.00302	0.039
nonanes+	1799.0	0.0045	0.00000253	0.0046	0.3	0.00020	0.003
Total:		99.6856		100.0000	1247.4	0.78839	19.436

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.6856		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Released to Temperature 4/28/2024 1:33:30 P	<i>M</i> 70.0		

Received by OCD: 4/23/2024 1:18:38 PM	Dry	Sat.	
Flowing Pressure (psia)	95.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1247.4	1225.6	
Gross Heating Value (BTU / Real cu.ft.)	1252.3	1231.0	
Relative Density (G), Real	0.7912	0.7886	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.6856	97.0000	103.0000	Pass	

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Red Tank 27-28 CTB Vent Date: 04/08/2024

Duration of Event: 24 Hours **MCF Vented:** 84

Start Time: 12:00 AM End Time: 11:59 PM

Cause: Equipment Malfunction > Production Separator > Water Dump **Method of Vented Gas Measurement:** Estimated Vent Calculations

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 could not have been avoided by good design, operation, and maintenance practices. Notwithstanding common facility design and operations, emergencies and malfunctions, can occur without warning, be sudden, unforeseeable and unavoidable. It is OXY's policy to route all gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions as much as possible, yet there are circumstances when flaring is not possible, and venting shall occur. In this case, the production separator water dump washed out, which in turn, sent excess fluids to the facility's gun barrel, which then triggered intermittent venting to occur. Once the production tech was able to determine the cause of the excess fluids being sent to the gun barrel, which was the production separator, the production tech was able to isolate the production separator and attempt to determine an exact cause of the equipment malfunction. The production tech determined the water dump needed to be replaced. Once the water dump was replaced, which took time to retrieve and install, the excess fluids were prevented from flowing to the gun barrel and venting was terminated.

2. Steps Taken to limit duration and magnitude of venting or flaring:

In this case, the production separator water dump washed out, which in turn, sent excess fluids to the facility's gun barrel, which then triggered intermittent venting to occur. Once the production tech was able to determine the cause of the excess fluids being sent to the gun barrel, which was the production separator, the production tech was able to isolate the production separator and attempt to determine an exact cause of the equipment malfunction. The production tech determined the water dump needed to be replaced. Once the water dump was replaced, which took time to retrieve and install, the excess fluids were prevented from flowing to the gun barrel and venting was terminated.

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 production separator malfunctions as notwithstanding production separator design and operations, separators are inherently dynamic and even the smallest type of malfunctions, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause equipment malfunctions to occur and cause a process flow to be interrupted or redirected to other facility equipment, unknowingly, which in turn can cause venting to occur. OXY makes every effort to control and minimize emissions as much as possible. The actions that Oxy and its field personnel will continue to perform is its daily inspections of its equipment.

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811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

DEFINITIONS

Action 336669

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	336669
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 336669

Phone: (505) 476-3470 Fax: (505) 476-3462			
C	QUESTIONS		
Operator:		OGRID:	
OXY USA INC		16696	
P.O. Box 4294 Houston, TX 772104294		Action Number: 336669	
		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 w	vith the rest of the questions.	
Incident Well	Unavailable.		
Incident Facility	[fAPP2127030589] RED T	ANK 27-28 CTB	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	and may provide addional quidanc	e.	
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/o	r 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			
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	ay be a major of million foldade under 15.16.25.1 Hillion.	
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	Equipment Malfunction >	Production Separator > Water Dump	
Denvecentative Compositional Analysis of Ventad as Flored Natural Co.			
Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.			
Methane (CH4) percentage	72		
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			
Oxygen (02) percentage, if greater than one percent	0		
Oxygen (02) percentage, if greater than one percent	U		
If you are venting and/or flaring because of Pipeline Specification, please provide the required spe	cifications 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, Page 2

Action 336669

QUESTIONS	(continued)
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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	336669
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	04/08/2024	
Time vent or flare was discovered or commenced	12:00 AM	
Time vent or flare was terminated	11:59 PM	
Cumulative hours during this event	24	

Measured or Estimated Volume of Vented or Flared Natural Gas			
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 84 Mcf Recovered: 0 Mcf Lost: 84 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 could not have been avoided by good design, operation, and maintenance practices. Notwithstanding common facility design and operations, emergencies and malfunctions, can occur without warning, be sudden, unforeseeable and unavoidable. It is OXY's policy to route all gas to a flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions as much as possible, yet there are circumstances when flaring is not possible, and venting shall occur. In this case, the production separator water dump washed out , which in turn, sent excess fluids to the facility's gun barrel, which then triggered intermittent venting to occur. Once the production tech was able to determine the cause of the excess fluids being sent to the gun barrel, which was the production separator, the production tech was able to isolate the production separator and attempt to determine an exact cause of the equipment malfunction. The production tech determined the water dump needed to be replaced. Once the water dump was replaced, which took time to retrieve and install, the excess fluids were prevented from flowing to the gun barrel and venting was terminated.				
	In this case, the production separator water dump washed out , which in turn, sent excess fluids to the facility's gun barrel, which then triggered intermittent venting to occur. Once the production tech was able to determine the cause of the excess fluids being sent to the gun				

Steps taken to limit the duration and magnitude of vent or flare	barrel, which was the production separator, the production tech was able to isolate the production separator and attempt to determine an exact cause of the equipment malfunction. The production tech determined the water dump needed to be replaced. Once the water dump was replaced, which took time to retrieve and install, the excess fluids were prevented from flowing to the gun barrel and venting was terminated.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of production separator malfunctions as notwithstanding production separator design and operations, separators are inherently dynamic and even the smallest type of malfunctions, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause equipment malfunctions to occur and cause a process flow to be interrupted or redirected to other facility equipment, unknowingly, which in turn can cause venting to occur. OXY makes every effort to control and minimize emissions as much as possible. The actions that Oxy and its field personnel will continue to perform is its daily inspections of its equipment.

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ACKNOWLEDGMENTS

Action 336669

ACKNOWLEDGMENTS

Operator:	OGRID:
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P.O. Box 4294	Action Number:
Houston, TX 772104294	336669
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

V	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.
V	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.
V	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.
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 336669

CONDITIONS

0	perator:	OGRID:
	OXY USA INC	16696
	P.O. Box 4294	Action Number:
	Houston, TX 772104294	336669
		Action Type:
1		[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 incident number from this event.		4/23/2024