AKM Measurement Services, LLC
Carlsbad, New Mexico

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	CEDAR CANYON 22 CTB FUEL GAS
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	01-18-2024
Meter Number	
Air temperature	42
Flow Rate (MCF/Day)	
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	CEDAR CANYON 22 CTB FUEL GAS
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	CEDAR CANYON
FLOC	OP-L0932-ST001
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38564
Sampled by	CHANDLER MONTGOMERY
Sample date	1-19-2024
Analyzed date	1-22-2024
Method Name	C9
Injection Date	2024-01-22 20:09:33
Report Date	2024-01-22 20:10:43
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	86f9e671-8be6-4794-a6d1-ac1e601662bb
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	30327.4	1.7470	0.00005761	1.7561	0.0	0.01698	0.194	
Methane	1045456.2	75.9362	0.00007263	76.3284	772.7	0.42278	12.984	
CO2	35234.6	1.6726	0.00004747	1.6812	0.0	0.02555	0.288	
Ethane	244823.3	11.2429	0.00004592	11.3010	200.5	0.11733	3.033	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	165968.7	5.4256	0.00003269	5.4536	137.5	0.08303	1.508	
iso-butane	64764.1	0.7170	0.00001107	0.7207	23.5	0.01446	0.237	
n-Butane	146917.9	1.6164	0.00001100	1.6247	53.1	0.03260	0.514	
iso-pentane	34085.9	0.3333	0.00000978	0.3350	13.4	0.00835	0.123	
n-Pentane	38020.6	0.3568	0.00000938	0.3586	14.4	0.00893	0.130	
hexanes	25212.0	0.2476	0.00000982	0.2489	11.9	0.00741	0.103	
heptanes	22683.0	0.1349	0.00000595	0.1356	7.5	0.00469	0.063	
octanes	10215.0	0.0530	0.00000519	0.0533	3.3	0.00210	0.027	
nonanes+	1132.0	0.0029	0.00000253	0.0029	0.2	0.00013	0.002	
Total:		99.4861		100.0000	1238.0	0.74435	19.204	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.4861		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	0.0		

Result	Dry	Sat.
Flowing Pressure (psia)	83.6	
Gross Heating Value (BTU / Ideal cu.ft.)	1238.0	1216.5
Gross Heating Value (BTU / Real cu.ft.)	1242.6	1221.4
Relative Density (G), Real	0.7467	0.7449

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status
Total un-normalized amount	99.4862	97.0000	103.0000	Pass

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Cedar Canyon 22 CTB

Venting Date: 04/06/2024

Duration of Event: 24 Hours

MCF Vented: 72

Start Time: 12:00 AM

End Time: 11:59 PM

Cause: Venting > Wedge Production > Flash Volume > OGS Oil Tank

Method of Gas Measurement: Estimated Vent Calculations

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

This event was caused by the sudden, 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 by good design, operation, and maintenance practices. In this case, wedge production led to more flash volume than anticipated via simulation, which then triggered venting to occur. All facility operations and equipment were working as designed prior to the sudden and without warning venting occurrence.

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

In this case, wedge production led to more flash volume than anticipated via simulation, which then triggered venting to occur. When venting was identified, Operations immediately made changes to the heater setpoints and pressure settings to minimize flash to the tanks. In addition, field personnel will continue to monitor the pressure settings. All facility operations and equipment were working as designed prior to the sudden and without warning venting occurrence. This event was out Oxy's control, yet every effort was made to minimize the emissions.

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

Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of a flash volume. Notwithstanding proper tank design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable, and unexpected which can cause tank malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to keep continue with its equipment preventative maintenance program for this facility.

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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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 335704
	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 335704

QUESTIONS

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	Action Number: 335704
	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 with the rest of the questions.	
Incident Well	*Unavailable.*
Incident Facility	**[fAPP2126645866] CEDAR CANYON 22 CTB**

Determination of Reporting Requirements	
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	Yes
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	Venting > Wedge Production > Flash Volume > OGS Oil Tank

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	76
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	2
Oxygen (02) 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 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 (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 335704
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/06/2024
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	*Not answered.*
Natural Gas Flared (Mcf) Details	Cause: Other | Other (Specify) | Natural Gas Flared | Released: 72 Mcf | Recovered: 0 Mcf | Lost: 72 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	This event was caused by the sudden, 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 by good design, operation, and maintenance practices. In this case, wedge production led to more flash volume than anticipated via simulation, which then triggered venting to occur. All facility operations and equipment were working as designed prior to the sudden and without warning venting occurrence.
Steps taken to limit the duration and magnitude of vent or flare	In this case, wedge production led to more flash volume than anticipated via simulation, which then triggered venting to occur. When venting was identified, Operations immediately made changes to the heater setpoints and pressure settings to minimize flash to the tanks. In addition, field personnel will continue to monitor the pressure settings. All facility operations and equipment were working as designed prior to the sudden and without warning venting occurrence. This event was out Oxy's control, yet every effort was made to minimize the emissions.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of a flash volume. Notwithstanding proper tank design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable, and unexpected which can cause tank malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate its facility equipment in a manner consistent with

	good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to keep continue with its equipment preventative maintenance program for this facility.

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ACKNOWLEDGMENTS

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	Action Number: 335704
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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.
☑	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.
☑	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.
☑	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

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	Action Number: 335704
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
marialuna2	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.	4/21/2024