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	CYPRESS 33 B 2 CDP
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	10-05-2023
Meter Number	2.10.12
Air temperature	85
Flow Rate (MCF/Day)	7285
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	CYPRESS 33 B 2 CDP
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST OF PECOS
FLOC	OP-L3818-BT002
Sample Sub Type	CDP
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38939
Sampled by	CHANDLER MONTGOMERY
Sample date	10-4-2023
Analyzed date	10-7-2023
Method Name	C9
Injection Date	2023-10-07 14:42:16
Report Date	2023-10-07 14:44:06
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	74044316-76a2-4312-a506-52728f84dc9e
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	15458.9	0.8783	0.00005681	0.8770	0.0	0.00848	0.097	
Methane	1074930.3	79.0359	0.00007353	78.9197	798.9	0.43714	13.429	
CO2	2698.1	0.1289	0.00004778	0.1287	0.0	0.00196	0.022	
Ethane	233286.9	10.7010	0.00004587	10.6852	189.5	0.11093	2.868	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	144721.3	4.5768	0.00003162	4.5701	115.3	0.06958	1.264	
iso-butane	65229.3	0.7352	0.00001127	0.7341	23.9	0.01473	0.241	
n-Butane	148022.1	1.6546	0.00001118	1.6521	54.0	0.03315	0.523	
iso-pentane	46360.1	0.4574	0.00000987	0.4567	18.3	0.01138	0.168	
n-Pentane	56474.8	0.5450	0.00000965	0.5442	21.9	0.01356	0.198	
hexanes	63582.0	0.4908	0.00000772	0.4901	23.4	0.01458	0.202	
heptanes	72201.0	0.5237	0.00000725	0.5229	28.8	0.01809	0.242	
octanes	45884.0	0.3410	0.00000743	0.3405	21.3	0.01343	0.175	
nonanes+	6371.0	0.0788	0.00001237	0.0787	5.5	0.00349	0.044	
Total:		100.1473		100.0000	1300.9	0.75049	19.474	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.1473		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	93.5		

Result	Dry	Sat.
Flowing Pressure (psia)	51.6	
Gross Heating Value (BTU / Ideal cu.ft.)	1300.9	1278.3
Gross Heating Value (BTU / Real cu.ft.)	1306.1	1283.9
Relative Density (G), Real	0.7532	0.7512

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status
Total un-normalized amount	100.1473	97.0000	103.0000	Pass

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Cypress 33B CTB

Flare Date: 04/24/2024

Duration of Event: 3 Hours

MCF Flared: 164

Start Time: 08:00 PM

End Time: 11:00 PM

Cause: Emergency Flare > Automation – Planned > VRU Tie-In

Method of Flared Gas Measurement: Gas Flare Meter

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

In this case, several wells were shut-in when Oxy's construction and automation teams were working together to tie-in VRU's and connect its alarms. Once that work was complete, the electricians, who were also on-site, were able to route all power to new devices. Once the equipment was up and running, wells were turned back on. Once the wells began unloading, the facility pressured up and triggered a flaring event to occur. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.

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, several wells were shut-in when Oxy's construction and automation teams were working together to tie-in VRU's and connect its alarms. Once that work was complete, the electricians, who were also on-site, were able to route all power to new devices. Once the equipment was up and running, wells were turned back on. Once the wells began unloading, the facility pressured up and triggered a flaring event to occur. As soon as flaring occurred, field personnel manually began to shut-in wells to mitigate and subsequently cease flaring, which took some time to do. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.

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 flaring from maintenance or equipment upgrades, as Oxy continually strives to maintain and operate all its 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.

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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: 343257
	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 343257

QUESTIONS

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	Action Number: 343257
	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	**[fAPP2306227737] Cypress 33B 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	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 > Automation – Planned > VRU Tie-In

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	79
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	0
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)

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	Action Number: 343257
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/24/2024
Time vent or flare was discovered or commenced	08:00 PM
Time vent or flare was terminated	11:00 PM
Cumulative hours during this event	3

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: 164 Mcf | Recovered: 0 Mcf | Lost: 164 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, several wells were shut-in when Oxy's construction and automation teams were working together to tie-in VRU's and connect its alarms. Once that work was complete, the electricians, who were also on-site, were able to route all power to new devices. Once the equipment was up and running, wells were turned back on. Once the wells began unloading, the facility pressured up and triggered a flaring event to occur. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.
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. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, several wells were shut-in when Oxy's construction and automation teams were working together to tie-in VRU's and connect its alarms. Once that work was complete, the electricians, who were also on-site, were able to route all power to new devices. Once the equipment was up and running, wells were turned back on. Once the wells began unloading, the facility pressured up and triggered a flaring event to occur. As soon as flaring occurred, field personnel manually began to shut-in wells to mitigate and subsequently cease flaring, which took some time to do. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible.

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 flaring from maintenance or equipment upgrades, as Oxy continually strives to maintain and operate all its 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.

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ACKNOWLEDGMENTS

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	Action Number: 343257
	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

Action 343257

CONDITIONS

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	Action Number: 343257
	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.	5/11/2024