


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		
	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 FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Cedar Canyon 22 CTB**Flare Date:** 06/17/2024**Duration of Event:** 7 Hours 10 Minutes**MCF Flared:** 149**Start Time:** 03:10 PM**End Time:** 10:20 PM**Cause:** Emergency Flare > Third Party Downstream Activity > San Mateo > Gas Plant ESD & Sales Valve**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, San Mateo, third party downstream operator, had continuing sales line equipment and operational issues on their end due to high line & high inlet pressures and valve issues, which in turn caused them to shut in their gas service suddenly and unexpectedly to Oxy, which in turn caused Oxy to have trouble with gas takeaway, which then triggered two flaring instances within a 24-hour period, when gas backed up. The first instance of flaring was caused by San Mateo's gas plant having an ESD, which prompted high discharge pressure to occur on the sales pipeline. The second instance of flaring occurred when San Mateo was able bring their gas plant back online, their valves shut due to high inlet pressure and San Mateo had to dispatch their own field technician to open their sales valve. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning from San Mateo Gas Control or their field personnel. The amount and duration of this event were minimized to the maximum extent practicable to ensure a safe working environment.

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 first instance of flaring was caused by San Mateo's gas plant having an ESD, which prompted high discharge pressure to occur on the sales pipeline. The second instance of flaring occurred when San Mateo was able bring their gas plant back online, their valves shut due to high inlet pressure and San Mateo had to dispatch their own field technician to open their sales valve. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning from San Mateo Gas Control or their field personnel. As soon as flaring was triggered in both instances, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and diverted gas to another sales point, storage wells 15-3 and well 23-4 were opened and the optimizer cut injection rates to wells. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible. The amount and duration of this event were minimized to the maximum extent practicable to ensure a safe working environment.

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

Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated gas plant's issues, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. When San Mateo, and its gas plants/facilities have equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, San Mateo then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into the San Mateo pipeline, to flare. 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 San Mateo personnel, who operate the sales gas pipeline, when possible, during these types of circumstances.

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District IV
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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 372308

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 372308
	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 372308

QUESTIONS

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	Action Number: 372308
	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 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, 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 Downstream Activity > San Mateo > Gas Plant ESD & Sales Valve

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 (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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 372308

QUESTIONS (continued)

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

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/17/2024
Time vent or flare was discovered or commenced	03:10 PM
Time vent or flare was terminated	10:20 PM
Cumulative hours during this event	7

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: 149 Mcf Recovered: 0 Mcf Lost: 149 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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[329461] San Mateo Black River Oil Pipeline, LLC
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	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, San Mateo, third party downstream operator, had continuing sales line equipment and operational issues on their end due to high line & high inlet pressures and valve issues, which in turn caused them to shut in their gas service suddenly and unexpectedly to Oxy, which in turn caused Oxy to have trouble with gas takeaway, which then triggered two flaring instances within a 24-hour period, when gas backed up. The first instance of flaring was caused by San Mateo's gas plant having an ESD, which prompted high discharge pressure to occur on the sales pipeline. The second instance of flaring occurred when San Mateo was able bring their gas plant back online, their valves shut due to high inlet pressure and San Mateo had to dispatch their own field technician to open their sales valve. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning from San Mateo Gas Control or their field personnel. The amount and duration of this event were minimized to the maximum extent practicable to ensure a

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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 first instance of flaring was caused by San Mateo's gas plant having an ESD, which prompted high discharge pressure to occur on the sales pipeline. The second instance of flaring occurred when San Mateo was able bring their gas plant back online, their valves shut due to high inlet pressure and San Mateo had to dispatch their own field technician to open their sales valve. This event could not have been foreseen, avoided, or prevented from happening as this event occurred with no advance notice or warning from San Mateo Gas Control or their field personnel. As soon as flaring was triggered in both instances, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and diverted gas to another sales point, storage wells 15-3 and well 23-4 were opened and the optimizer cut injection rates to wells. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible. The amount and duration of this event were minimized to the maximum extent practicable to ensure a safe working environment.
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ACKNOWLEDGMENTS

☒	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.
☒	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 372308

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	Action Number: 372308
	Action Type: [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 your incident number from this event.	8/9/2024