


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 PRODUCTION
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	02-16-2024
Meter Number	16211P
Air temperature	40
Flow Rate (MCF/Day)	11943
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	RED TANK 27-28 CTB PRODUCTION
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	RED TANK
FLOC	OP-L2152-BT002
Sample Sub Type	CTB
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38932
Sampled by	SCOTT
Sample date	2-13-2024
Analyzed date	2-18-2024
Method Name	C9
Injection Date	2024-02-18 17:14:52
Report Date	2024-02-18 17:19:30
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	39fcbadc-1e76-48bb-83b0-021ad2e296d3
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	31522.3	1.8194	0.00005772	1.8171	0.0	0.01757	0.201
Methane	993454.8	72.4026	0.00007288	72.3140	732.1	0.40055	12.306
CO2	37290.3	1.7783	0.00004769	1.7761	0.0	0.02699	0.304
Ethane	283731.7	13.0755	0.00004608	13.0595	231.6	0.13558	3.506
H2S	0.0	0.0003	0.00000000	0.0003	0.0	0.00000	0.000
Propane	215565.6	7.0475	0.00003269	7.0389	177.5	0.10717	1.947
iso-butane	75495.5	0.8374	0.00001109	0.8363	27.3	0.01678	0.275
n-Butane	181664.6	2.0044	0.00001103	2.0019	65.5	0.04017	0.633
iso-pentane	36619.5	0.3588	0.00000980	0.3584	14.4	0.00893	0.132
n-Pentane	40549.4	0.3813	0.00000940	0.3808	15.3	0.00949	0.139
hexanes	24734.0	0.2424	0.00000980	0.2421	11.5	0.00720	0.100
heptanes	20881.0	0.1239	0.00000594	0.1238	6.8	0.00428	0.057
octanes	9317.0	0.0482	0.00000517	0.0481	3.0	0.00190	0.025
nonanes+	1103.0	0.0027	0.00000244	0.0027	0.2	0.00012	0.002
Total:		100.1227		100.0000	1285.2	0.77674	19.625

Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	100.1227	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flow Temperature (Deg. F)	63.4	

Result	Dry	Sat.	
Flowing Pressure (psia)	106.7		
Gross Heating Value (BTU / Ideal cu.ft.)	1285.2	1262.8	
Gross Heating Value (BTU / Real cu.ft.)	1290.3	1268.4	
Relative Density (G), Real	0.7795	0.7772	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.1227	97.0000	103.0000	Pass	

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility Id#** fAPP2127030589**Operator:** OXY USA, Inc.**Facility:** Red Tank 27-28 CTB**Flare Date:** 06/10/2025**Duration of Event:** 7 Hours 30 Minutes**MCF Flared:** 267**Start Time:** 12:00 AM**End Time:** 07:30 AM**Cause:** Emergency Flare > Severe Weather Conditions > Thunderstorms & Lightning > Multiple Compression Equipment Issues**Method of Flared Gas Measurement:** Gas Flare Meter

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 did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, due to severe thunderstorms and lightning, the facility had multiple compression equipment issues caused by several weather-induced power outages and/or surges which triggered intermittent flaring to occur. Once the thunderstorm and lightning subsided, and power was restored, the compression equipment was restarted. Notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable, and unexpected which can cause compression malfunctions to occur. Gas compressor engines are designed to operate in a precise manner and when any type of malfunction occurs, especially when caused by extreme weather conditions, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the units. Prior to the malfunctions occurring, the compressor units were working as designed and operated normally prior to the sudden and without warning malfunctions due to severe thunderstorms and lightning affecting the compression equipment when power outages occurred. This flaring event is out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently. This flaring event's duration and volume resulted from several intermittent flares over 24 hours.

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

This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. 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. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, production techs are promptly notified and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Oxy production techs must assess whether compressor unit shutdown is due to damage and repair is needed, or whether there are other reasons for its cause. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, due to severe thunderstorms and lightning, the facility had multiple compression equipment issues caused by several weather-induced power outages and/or surges which triggered intermittent flaring to occur. Once the thunderstorm and lightning subsided and power

was restored, the compression equipment was restarted during each instance. Prior to the malfunctions occurring, the compressor units were working as designed and operated normally prior to the sudden and without warning malfunctions due to severe thunderstorms and lightning affecting the compression equipment when power outages occurred. To mitigate the risks associated with overpressure and to ensure the safety of our operations, we have had to resort to controlled flaring. This process allows us to safely burn off excess gas, thereby preventing potential hazards such as equipment damage, leaks, or even explosions. While flaring is not our preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. In each instance that flaring was triggered by power outages, OXY production technicians, in the area, began shutting in wells manually until the field pressure remained below the flare trigger setpoints of the facility to stop flaring. This flaring event is out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently.

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

Oxy is limited in its corrective actions to eliminate the cause and recurrence of weather induced power outages during severe and intense weather circumstances as this is out of Oxy's control to avoid or prevent from reoccurring. The only action available to Oxy and its personnel in severe weather circumstances is to be pro-active and take precautionary measures prior to known severe weather conditions by securing equipment, and focusing on overall safety, communication and operational adjustments, if possible, during and after this event. 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 by having a strong and positive equipment maintenance program in place.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

DEFINITIONS

Action 499658

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 499658
	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.

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QUESTIONS

Action 499658

QUESTIONS

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	Action Number: 499658
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2127030589] RED TANK 27-28 CTB
<i>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.</i>	

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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.
<i>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.</i>	
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 within 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 > Severe Weather Conditions > Thunderstorms & Lightning > Multiple Compression Equipment Issues

Representative Compositional Analysis of Vented or Flared Natural Gas	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	3
Carbon Dioxide (CO2) percentage, if greater than one percent	2
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
Methane (CH4) percentage quality requirement	0
Nitrogen (N2) percentage quality requirement	0
Hydrogen Sulfide (H2S) PPM quality requirement	0
Carbon Dioxide (CO2) percentage quality requirement	0
Oxygen (O2) percentage quality requirement	0

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QUESTIONS, Page 2

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/10/2025
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	07:30 AM
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: 267 MCF Recovered: 0 MCF Lost: 267 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	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 did not stem from activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, due to severe thunderstorms and lightning, the facility had multiple compression equipment issues caused by several weather-induced power outages and/or surges which triggered intermittent flaring to occur. Once the thunderstorm and lightning subsided, and power was restored, the compression equipment was restarted. Notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable, and unexpected which can cause compression malfunctions to occur. Gas compressor engines are designed to operate in a precise manner and when any type of malfunction occurs, especially when caused by extreme weather conditions, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the units. Prior to the malfunctions occurring, the compressor units were working as designed and operated normally prior to the sudden and without warning malfunctions due to severe thunderstorms and lightning affecting the compression equipment when power outages occurred. This flaring event is out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently. This

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ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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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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.	8/27/2025