



Certificate of Analysis

Number: 6030-23010305-001A

Artesia Laboratory

200 E Main St.
Artesia, NM 88210
Phone 575-746-3481Chandler Montgomery
Occidental Petroleum
1502 W Commerce Dr.
Carlsbad, NM 88220

Jan. 30, 2023

Field:	Platinum	Sampled By:	Raul Salazar
Station Name:	Cal Mon 35-2 CTB Check	Sample Of:	Gas Spot
Station Number:	17120C	Sample Date:	01/23/2023
Station Location:	CTB	Sample Conditions:	100 psig, @ 61.4 °F Ambient: 57 °F
Sample Point:	Meter	Effective Date:	01/23/2023
Formation:	Monthly	PO/Ref. No:	4501112325
County:	Eddy, NM	Method:	GPA-2261M
Type of Sample:	Spot-Cylinder	Cylinder No:	1111-001238
Heat Trace Used:	N/A	Instrument:	70104251 (Inficon GC-MicroFusion)
Sampling Method:	Fill and Purge	Last Inst. Cal.:	12/19/2022 0:00 AM
Sampling Company:	SPL	Analyzed:	01/30/2023 13:26:04 by EBH

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Nitrogen	1.422	1.43218	1.846	
Carbon Dioxide	3.014	3.03578	6.147	
Methane	75.289	75.82815	55.974	
Ethane	11.093	11.17203	15.457	2.982
Propane	5.271	5.30834	10.770	1.459
Iso-Butane	0.630	0.63491	1.698	0.207
n-Butane	1.509	1.52011	4.065	0.478
Iso-Pentane	0.317	0.31927	1.060	0.117
n-Pentane	0.326	0.32874	1.091	0.119
Hexanes	0.182	0.18300	0.726	0.075
Heptanes	0.148	0.14896	0.687	0.069
Octanes	0.067	0.06718	0.353	0.034
Nonanes Plus	0.021	0.02135	0.126	0.012
	99.289	100.00000	100.000	5.552

Calculated Physical Properties

	Total	C9+
Calculated Molecular Weight	21.73	128.26
Compressibility Factor	0.9964	
Relative Density Real Gas	0.7528	4.4283

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.65 psia & 60°F

Real Gas Dry BTU	1216.5	6974.4
Water Sat. Gas Base BTU	1195.7	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1212.1	6974.4
Ideal, Gross HV - Wet	1190.9	6852.4

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Calmon 35 Fed 2 CTB**Vent Date:** 09/12/2023**Duration of Event:** 50 Minutes**MCF Vented:** 92**Start Time:** 12:10 PM**End Time:** 01:00 PM**Cause:** Emergency Flare > Planned > Third Party > Flare Destruction and Removal Efficiency (DRE) Study**Method of Flared Gas Measurement:** Gas Vent Meter

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

This was a necessary planned flare study event to support Oxy's statements as part of its official response to the EPA's proposed GHG Subpart W rules, and in which, Oxy has partnered with additional operators, API, Marathon, and Chevron to conduct a flare destruction and removal efficiency (DRE) study. The goal of this study is to measure flare DRE's across the Permian to support a higher default DRE factor when calculating GHG emissions. For this study, Oxy hired Providence Photonics to perform the DRE testing using their Mantis Flare Monitor camera. In order to conduct the study, Oxy needed to safely and efficiently simulate a flaring event for a maximum of 15 minutes, in intermittent stages, at selected facilities within the Permian. 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:

This was a necessary planned flare study event to support Oxy's statements as part of its official response to the EPA's proposed GHG Subpart W rules, and in which, Oxy has partnered with additional operators, API, Marathon, and Chevron to conduct a flare destruction and removal efficiency (DRE) study. The goal of this study is to measure flare DRE's across the Permian to support a higher default DRE factor when calculating GHG emissions. For this study, Oxy hired Providence Photonics to perform the DRE testing using their Mantis Flare Monitor camera. In order to conduct the study, Oxy needed to safely and efficiently simulate a flaring event for a maximum of 15 minutes, in intermittent stages, at selected facilities within the Permian. Oxy personnel were on-site during every DRE test study to assist with regulating the flare and once all flare DRE data was captured and recorded, operational flare settings were adjusted to normal operating standards and flaring stopped.

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

There are no corrective actions taken to eliminate the cause and reoccurrence of venting or flaring. This was a necessary planned flare study event to support Oxy's statements as part of its official response to the EPA's proposed GHG Subpart W rules, and in which, Oxy has partnered with additional operators, API, Marathon, and Chevron to conduct a flare destruction and removal efficiency (DRE) study. The goal of this study is to measure flare DRE's across the Permian to support a higher default DRE factor when calculating GHG emissions.

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Phone:(575) 393-6161 Fax:(575) 393-0720
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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
District IV
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 270388

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 270388
	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 270388

QUESTIONS

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	Action Number: 270388
	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	[fAPP2126664875] CALMON 35-2 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	No
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 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 > Planned > Third Party > Flare Destruction and Removal Efficiency (DRE) Study

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	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	3
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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 270388

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/12/2023
Time vent or flare was discovered or commenced	12:10 PM
Time vent or flare was terminated	01:00 PM
Cumulative hours during this event	1

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: 92 Mcf Recovered: 0 Mcf Lost: 92 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.	False
Please explain reason for why this event was beyond this operator's control	This was a necessary planned flare study event to support Oxy's statements as part of its official response to the EPA's proposed GHG Subpart W rules, and in which, Oxy has partnered with additional operators, API, Marathon, and Chevron to conduct a flare destruction and removal efficiency (DRE) study. The goal of this study is to measure flare DRE's across the Permian to support a higher default DRE factor when calculating GHG emissions. For this study, Oxy hired Providence Photonics to perform the DRE testing using their Mantis Flare Monitor camera. In order to conduct the study, Oxy needed to safely and efficiently simulate a flaring event for a maximum of 15 minutes, in intermittent stages, at selected facilities within the Permian. 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	This was a necessary planned flare study event to support Oxy's statements as part of its official response to the EPA's proposed GHG Subpart W rules, and in which, Oxy has partnered with additional operators, API, Marathon, and Chevron to conduct a flare destruction and removal efficiency (DRE) study. The goal of this study is to measure flare DRE's across the Permian to support a higher default DRE factor when calculating GHG emissions. For this study, Oxy hired Providence Photonics to perform the DRE testing using their Mantis Flare Monitor camera. In order to conduct the study, Oxy needed to safely and efficiently simulate a flaring event for a maximum of 15 minutes, in intermittent stages, at selected facilities within the Permian. Oxy personnel were on-site during every DRE test study to assist with regulating the flare and once all flare DRE data was captured and recorded,

Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	operational flare settings were adjusted to normal operating standards and flaring stopped. There are no corrective actions taken to eliminate the cause and reoccurrence of venting or flaring. This was a necessary planned flare study event to support Oxy's statements as part of its official response to the EPA's proposed GHG Subpart W rules, and in which, Oxy has partnered with additional operators, API, Marathon, and Chevron to conduct a flare destruction and removal efficiency (DRE) study. The goal of this study is to measure flare DRE's across the Permian to support a higher default DRE factor when calculating GHG emissions.
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ACKNOWLEDGMENTS

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

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 270388

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	Action Number: 270388
	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.	9/28/2023