Certificate of Analysis

Number: 6030-22050239-001A

Artesia Laboratory
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Chandler Montgomery
Occidental Petroleum
1502 W Commerce Dr.
Carlsbad, NM 88220

May 19, 2022

Field:	Sand Dunes	Sampled By:	Michael Mirabal
Station Name:	Precious CTB Train 1 Check	Sample Of:	Gas Spot
Station Number:	17621C	Sample Date:	05/17/2022 12:30
Station Location:	CTB	Sample Conditions:	112 psig, @ 109 °F Ambient: 96 °F
Sample Point:	Meter	Effective Date:	05/17/2022 12:30
Formation:	Monthly	Method:	GPA-2261M
County:	Eddy, NM	Cylinder No:	5030-00374
Type of Sample: :	Spot-Cylinder	Instrument:	70104251 (Inficon GC-MicroFusion)
Heat Trace Used:	N/A	Last Inst. Cal.:	05/16/2022 0:00 AM
Sampling Method: :	Fill and Purge	Analyzed:	05/19/2022 09:28:14 by ERG
Sampling Company: :	SPL		

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia
Hydrogen Sulfide	NIL	NIL	NIL	
Nitrogen	2.003	2.01824	2.503	
Carbon Dioxide	0.791	0.79659	1.552	
Methane	72.454	73.01283	51.845	
Ethane	12.622	12.71911	16.929	3.396
Propane	6.620	6.67114	13.021	1.835
Iso-Butane	0.848	0.85484	2.199	0.279
n-Butane	2.126	2.14209	5.511	0.674
Iso-Pentane	0.519	0.52280	1.670	0.191
n-Pentane	0.563	0.56754	1.813	0.205
Hexanes	0.319	0.32106	1.225	0.132
Heptanes	0.267	0.26946	1.195	0.124
Octanes	0.089	0.08989	0.455	0.046
Nonanes Plus	0.014	0.01441	0.082	0.008
	99.235	100.00000	100.000	6.890

Calculated Physical Properties	Total	C9+
Calculated Molecular Weight	22.59	128.26
Compressibility Factor	0.9959	
Relative Density Real Gas	0.7829	4.4283
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F		
Real Gas Dry BTU	1309.7	6974.4
Water Sat. Gas Base BTU	1287.3	6852.4
Ideal, Gross HV - Dry at 14.65 psia	1304.3	6974.4
Ideal, Gross HV - Wet	1281.5	6852.4

Comments: H2O Content: 0 #/MMCF
H2S Field Content 0 ppm
CO2 0%

Hydrocarbon Laboratory Manager

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

UPSET VENT EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Precious NC 31 CTB

Vent Date: 12/13/2022

Duration of event: 15 Minutes

MCF Vented: 65

Start Time: 10:30 AM

End Time: 05:47 PM

Cause: Arkenstone 31 Federal #172H Well > Flowline Rupture

Comments: API # 30-015-47318

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

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. In this case, during a daily inspection of the facility, an Oxy production technician, while inspecting the facility's flowlines, noticed venting beginning to occur from the flowline of the Arkenstone 31 Federal # 172H well, because of a rupture. The Oxy production technician quickly shut-in the well to stop the venting leak as well as covering the rupture with dirt to seal in the leak, as best as possible. In addition, Oxy's construction maintenance crew, who was in the area, were immediately called out to repair the flowline. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.

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. In this case, during a daily inspection of the facility, an Oxy production technician, while inspecting the facility's flowlines, noticed venting beginning to occur from the flowline of the Arkenstone 31 Federal # 172H well, because of a rupture. The Oxy production technician quickly shut-in the well to stop the venting leak as well as covering the rupture with dirt to seal in the leak, as best as possible. In addition, Oxy's construction maintenance crew, who was in the area, were immediately called out to repair the flowline. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.

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 reoccurrence of venting resulting from ruptures in well flowlines, as these types of ruptures of breaks within the flowline, can occur suddenly and without warning. Oxy continually strives to maintain and operate in a manner consistent with good practice for minimizing emissions and reducing the number of emission events, when they occur unpredictably. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.

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District III
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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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 170838
	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 170838

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 170838
	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	**[30-015-47318] ARKENSTONE 31 FEDERAL #172H**
Incident Facility	*Unavailable.*

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	Flow Line - Production
Additional details for Equipment Involved. Please specify	Venting > Arkenstone 31 Federal #172H Well > Flowline Rupture

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	73
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	1
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: 170838
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/13/2022
Time vent or flare was discovered or commenced	03:35 PM
Time vent or flare was terminated	03:50 PM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure | Flow Line - Production | Natural Gas Vented | Released: 65 Mcf | Recovered: 0 Mcf | Lost: 65 Mcf.
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	Estimated Vent Calculations
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 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. In this case, during a daily inspection of the facility, an Oxy production technician, while inspecting the facility's flowlines, noticed venting beginning to occur from the flowline of the Arkenstone 31 Federal # 172H well, because of a rupture. The Oxy production technician quickly shut-in the well to stop the venting leak as well as covering the rupture with dirt to seal in the leak, as best as possible. In addition, Oxy's construction maintenance crew, who was in the area, were immediately called out to repair the flowline. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.
Steps taken to limit the duration and magnitude of vent or flare	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. In this case, during a daily inspection of the facility, an Oxy production technician, while inspecting the facility's flowlines, noticed venting beginning to occur from the flowline of the Arkenstone 31 Federal # 172H well, because of a rupture. The Oxy production technician quickly shut-in the well to stop the venting leak as well as covering the rupture with dirt to seal in the leak, as best as possible. In addition, Oxy's construction maintenance crew, who was in the area, were immediately called out to repair the flowline. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.
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 reoccurrence of venting resulting from ruptures in well flowlines, as these types of ruptures of breaks within the flowline, can occur suddenly and without warning. Oxy continually strives to maintain and operate in a manner consistent with good practice for minimizing emissions and reducing the number of emission events, when they occur unpredictably. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.

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ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 170838
	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 170838

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 170838
	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.	12/28/2022