



Certificate of Analysis

Number: 6030-21080021-001A

Artesia Laboratory

200 E Main St.

Artesia, NM 88210

Phone 575-746-3481

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

Aug. 03, 2021

Field: Red Tank
Station Name: Red Tank 19 CTB Train 2 Check
Station Number: 15622C
Station Location: CTB
Sample Point: Meter
Formation: Monthly
County: Lea
Type of Sample: : Spot-Cylinder
Heat Trace Used: N/A
Sampling Method: : Fill and Purge
Sampling Company: : SPL

Sampled By: Javier Lazo
Sample Of: Gas Spot
Sample Date: 07/28/2021 10:07
Sample Conditions: 84 psia, @ 89 °F Ambient: 50 °F
Effective Date: 07/28/2021 10:07
Method: GPA-2261M
Cylinder No: 1111-001251
Instrument: 6030_GC6 (Inficon GC-3000 Micro)
Last Inst. Cal.: 07/19/2021 0:00 AM
Analyzed: 08/03/2021 10:55:28 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.001	0.001		GPM TOTAL C2+	6.422
Nitrogen	2.089	2.096	2.552		GPM TOTAL C3+	3.466
Methane	72.570	72.820	50.783		GPM TOTAL iC5+	0.845
Carbon Dioxide	2.813	2.823	5.401			
Ethane	11.033	11.071	14.471	2.956		
Propane	5.957	5.978	11.459	1.644		
Iso-butane	0.839	0.842	2.127	0.275		
n-Butane	2.222	2.230	5.634	0.702		
Iso-pentane	0.565	0.567	1.778	0.207		
n-Pentane	0.626	0.628	1.970	0.227		
Hexanes Plus	0.941	0.944	3.824	0.411		
	99.655	100.000	100.000	6.422		

Calculated Physical Properties

Relative Density Real Gas	Total	C6+
	0.7973	3.2176
Calculated Molecular Weight	23.00	93.19
Compressibility Factor	0.9959	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1279	5113
Water Sat. Gas Base BTU	1258	5024
Ideal, Gross HV - Dry at 14.65 psia	1274.2	5113.2
Ideal, Gross HV - Wet	1251.9	5023.7
Net BTU Dry Gas - real gas	1163	
Net BTU Wet Gas - real gas	1143	

Comments: H2S Field Content 5 ppm
Mcf/day 10565

Data reviewed by: Krystle Fitzwater, Laboratory Manager

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

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Red Tank 19 CTB**Flare Date:** 10/19/2021**Duration of event:** 1 Hour 1 minutes**MCF Flared:** 271**Start Time:** 03:39 PM**End Time:** 04:40 PM**Cause:** Scheduled Preventive Maintenance > Production Separator Train 1**Method of Flared Gas Measurement:** Gas Flare Meter

Comments: This upset event was not caused by any wells associated with the facility. 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 operator, which impacted Oxy's ability to send gas to a third-party gas pipeline.

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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, due to malfunction and/or alarms, 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.

In this case, the sudden and unexpected flaring was caused when the facility unexpectedly shut down while automation personnel were performing scheduled maintenance work on production separator train 1. During this schedule maintenance work, the shutdown alarms were triggered and caused a COC of the facility. Oxy automation personnel and field personnel immediately responded to reset the facility panels and restart the facility equipment. Once all units and equipment were back online, all flaring ceased.

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

It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as part of the steps taken to limit duration and magnitude of flaring. In this case, the sudden and unexpected flaring was caused when the facility unexpectedly shut down while automation personnel were performing scheduled maintenance work on production separator train 1. During this schedule maintenance work, the shutdown alarms were triggered and caused a COC of the facility. Oxy automation personnel and field personnel immediately responded to reset the facility panels and restart the facility equipment. Once all units and equipment were back online, all flaring ceased.

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 potential reoccurrence of this type of flaring event as 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 continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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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

QUESTIONS

Action 60016

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 60016
	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	Not answered.
Incident Facility	[fAPP2127031815] RED TANK 19 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 or is this venting and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a venting and/or flaring 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 or will there be at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 venting and/or flaring 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 > Scheduled Preventive Maintenance > Production Separator Train 1

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	5
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.

Date(s) and Time(s)

Date venting and/or flaring was discovered or commenced	10/19/2021
Time venting and/or flaring was discovered or commenced	03:39 PM
Time venting and/or flaring was terminated	04:40 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
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Natural Gas Flared (Mcf) Details	Cause: Other Other (Specify) Natural Gas Flared Released: 271 Mcf Recovered: 0 Mcf Lost: 271 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 or is this venting and/or flaring a result of downstream activity	No
Was notification of downstream activity received by you or your operator	Not answered.
Downstream OGRID that should have notified you or your operator	Not answered.
Date notified of downstream activity requiring this venting and/or flaring	Not answered.
Time notified of downstream activity requiring this venting and/or flaring	Not answered.

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your 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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown, due to malfunction and/or alarms, 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. In this case, the sudden and unexpected flaring was caused when the facility unexpectedly shut down while automation personnel were performing scheduled maintenance work on production separator train 1. During this schedule maintenance work, the shutdown alarms were triggered and caused a COC of the facility. Oxy automation personnel and field personnel immediately responded to reset the facility panels and restart the facility equipment. Once all units and equipment were back online, all flaring ceased.
Steps taken to limit the duration and magnitude of venting and/or flaring	It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as part of the steps taken to limit duration and magnitude of flaring. In this case, the sudden and unexpected flaring was caused when the facility unexpectedly shut down while automation personnel were performing scheduled maintenance work on production separator train 1. During this schedule maintenance work, the shutdown alarms were triggered and caused a COC of the facility. Oxy automation personnel and field personnel immediately responded to reset the facility panels and restart the facility equipment. Once all units and equipment were back online, all flaring ceased.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of this type of flaring event as 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 continually strives to maintain and operate its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events.

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CONDITIONS

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	Action Number: 60016
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
marialuna	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.	11/3/2021