



Certificate of Analysis

Number: 6030-21060187-001A

Artesia Laboratory

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

June 21, 2021

Field:	Lost Tank	Sampled By:	Michael Mirabal
Station Name:	Lost Tank 30-19 Fed Com 1H	Sample Of:	Gas Spot
Station Number:	16102T	Sample Date:	06/16/2021 02:20
Station Location:	CTB	Sample Conditions:	113 psia, @ 92 °F Ambient: 95 °F
Sample Point:	Meter	Effective Date:	06/16/2021 02:20
Formation:	Quarterly	Method:	GPA-2261M
County:	Lea	Cylinder No:	1111-002369
Type of Sample:	Spot-Cylinder	Instrument:	70104124 (Inficon GC-MicroFusion)
Heat Trace Used:	N/A	Last Inst. Cal.:	06/21/2021 0:00 AM
Sampling Method:	Fill and Purge	Analyzed:	06/21/2021 12:21:17 by EJ R
Sampling Company:	SPL		

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.000	0.000		GPM TOTAL C2+	5.748
Nitrogen	3.714	3.705	4.543		GPM TOTAL C3+	2.964
Methane	72.207	72.042	50.591		GPM TOTAL iC5+	0.710
Carbon Dioxide	4.233	4.223	8.135			
Ethane	10.455	10.431	13.730	2.784		
Propane	5.365	5.353	10.332	1.472		
Iso-butane	0.671	0.669	1.702	0.219		
n-Butane	1.794	1.790	4.554	0.563		
Iso-pentane	0.444	0.443	1.399	0.162		
n-Pentane	0.510	0.509	1.608	0.184		
Hexanes Plus	0.837	0.835	3.406	0.364		
	100.230	100.000	100.000	5.748		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7915	3.2176
Calculated Molecular Weight	22.84	93.19
Compressibility Factor	0.9962	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1209	5113
Water Sat. Gas Base BTU	1188	5024
Ideal, Gross HV - Dry at 14.65 psia	1204.2	5113.2
Ideal, Gross HV - Wet	1183.1	5023.7
Net BTU Dry Gas - real gas	1098	
Net BTU Wet Gas - real gas	1079	

Comments: H₂S Field Content 0 ppm
Mcf/day 3276

Data reviewed by: Eric Ramirez, Analyst

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

UPSET EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Lost Tank 30-19 CTB**Date:** 08/18/2021**Duration of event:** 24 Hours**MCF Flared:** 1068**Start Time:** 12:00 AM**End Time:** 11:59 PM**Cause:** Downstream Activity > DCP > Scheduled Supersystem Maintenance**Method of Flared Gas Measurement:** Gas Flare Meter**Well API Associated with Facility:** 30-025-45182 Lost Tank 30-19 Federal Com 31H

Comments: This upset event was not caused by any wells associated with the facility. This emissions event was caused by a third-party pipeline operator's downstream activity, which is beyond the owner/operator's control.

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

This emissions event was caused by a third-party pipeline operator's downstream facility maintenance activity, which is beyond Oxy's control to prevent or control from happening. This complete shut-in of the gas pipeline by third-party pipeline operator, DCP, is downstream of Oxy's custody transfer point. Oxy was notified in advance on or around August 10, 2021, by DCP personnel, by written correspondence, that an immediate required maintenance of their supersystem was scheduled to be performed on or around an estimated date of August 18, 2021, which would affect DCP's ability to process volumes within their supersystem, which in turn affects Oxy's upstream facility and its ability to send its gas to DCP. During DCP's supersystem immediate maintenance period, estimated to last only 48 hours, DCP would be unable to take gas from its operators.

This event is part of a four (4) day flaring occurrence due to DCP's supersystem maintenance period occurring from August 17, 2021 to August 21, 2021. DCP began their supersystem maintenance procedures a day earlier than previously notified, occurring on August 17, 2021 as DCP needed to depressurize their system and requested that Oxy shut in production/wells. DCP's pipeline, due to their depressurization needs, subsequently shut in the gas pipeline to Oxy, which affected Oxy's upstream facility operations. DCP did not call for gas or open the pipeline to take gas from Oxy until August 21, 2021. DCP's supersystem maintenance activity lasted more than the initial 48 hours they indicated to Oxy. Oxy flared continuously during DCP's complete and total shut-in of their pipeline to Oxy while they conducted downstream maintenance activities.

The Lost Tank 30-19 CTB battery flare is a gas gathering flare system for multiple tank batteries across Oxy's defined Lost Tank area. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operational safety and start up procedures to allow some production to occur at this facility, as it was necessary to maintain a minimal amount of gas flow to restart the facility's compression equipment, specifically the gas lift compressors, across the Lost Tank area, when DCP was ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out of necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting production across the Lost Tank area.

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

This emissions event was caused by a third-party pipeline operator's downstream facility maintenance activity, which is beyond Oxy's control to prevent or control from happening. This complete shut-in of the gas pipeline by third-party pipeline operator, DCP, is downstream of Oxy's custody transfer point. Oxy was notified in advance on or around August 10, 2021, by DCP personnel, by written correspondence, that an immediate required maintenance was scheduled to be performed on or around an estimated date of August 18, 2021, which would affect DCP's ability to process volumes within their supersystem, which in turn affects Oxy's upstream facility and its ability to send its gas to DCP. During DCP's supersystem immediate maintenance period, estimated to last only 48 hours, DCP would be unable to take gas from its operators. DCP's supersystem maintenance activity lasted more than the initial 48 hours they indicated to Oxy.

The steps taken to limit duration and magnitude of flaring during DCP's supersystem maintenance period occurring from August 17, 2021 to August 21, 2021 was to shut in as much of production/wells as much as possible. The Lost Tank 30-19 CTB battery flare is a gas gathering flare system for multiple tank batteries across Oxy's Lost Tank area. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operation practices to allow some production to occur, as it was necessary to maintain a minimal amount of gas flow to restart the facility's compression equipment, specifically the gas lift compressors, across the Lost Tank area, when DCP was ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting production across the Lost Tank area. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible.

In addition, Oxy production techs and essential personnel maintained constant communication with DCP personnel, during this flaring period, to prepare for the re-opening of DCP's pipeline and their gas services to recommence. During this time, Oxy production techs also continually monitored the flare during this flaring period.

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

Oxy is unable to take any corrective actions to eliminate this cause and potential reoccurrence of this circumstance of flaring as this emissions event was caused by a third-party pipeline operator's downstream facility maintenance activity, which is beyond Oxy's control to avoid, prevent or control from happening. This complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point. While this event was out of Oxy's control to avoid or prevent from happening, Oxy made every effort to minimize emissions while DCP was having downstream maintenance activity issues.

District I

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

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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 46303

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 46303
	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	[30-025-45182] LOST TANK 30 19 FEDERAL COM #031H
Incident Facility	Not answered.

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	Yes
Is this considered a submission for a notification of a major venting and/or flaring	Yes, major 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 > Downstream Activity > DCP > Scheduled Supersystem Maintenance

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	72
Nitrogen (N2) percentage, if greater than one percent	4
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	4
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	08/18/2021
Time venting and/or flaring was discovered or commenced	12:00 AM
Time venting and/or flaring was terminated	11:59 PM
Cumulative hours during this event	24

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: 1,068 Mcf Recovered: 0 Mcf Lost: 1,068 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	Yes
Date notified of downstream activity requiring this venting and/or flaring	08/10/2021
Time notified of downstream activity requiring this venting and/or flaring	07:38 PM

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	See Justification Form > This event is part of a four (4) day flaring occurrence due to DCP's supersystem maintenance period occurring from August 17, 2021 to August 21, 2021. DCP began their supersystem maintenance procedures a day earlier than previously notified, occurring on August 17, 2021 as DCP needed to depressurize their system and requested that Oxy shut in production/wells. DCP's pipeline, due to their depressurization needs, subsequently shut in the gas pipeline to Oxy, which affected Oxy's upstream facility operations. DCP did not call for gas or open the pipeline to take gas from Oxy until August 21, 2021. DCP's supersystem maintenance activity lasted more than the initial 48 hours they indicated to Oxy. Oxy flared continuously during DCP's complete and total shut-in of their pipeline to Oxy while they conducted downstream maintenance activities.
Steps taken to limit the duration and magnitude of venting and/or flaring	See Justification Form > The steps taken to limit duration and magnitude of flaring during DCP's supersystem maintenance period occurring from August 17, 2021 to August 21, 2021 was to shut in as much of production/wells as much as possible. The Lost Tank 30-19 CTB battery flare is a gas gathering flare system for multiple tank batteries across Oxy's Lost Tank area. Oxy made every effort to shut in as much of production/wells as possible, yet it was absolutely critical to Oxy's operation practices to allow some production to occur, as it was necessary to maintain a minimal amount of gas flow to restart the facility's compression equipment, specifically the gas lift compressors, across the Lost Tank area, when DCP was ready and able to start taking gas. The minimal amount of gas flow allowed to be produced and flare was done out necessity to protect personnel and equipment as a safeguard against potential issues that could occur when restarting production across the Lost Tank area. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	See Justification Form > Oxy is unable to take any corrective actions to eliminate this cause and potential reoccurrence of this circumstance of flaring as this emissions event was caused by a third-party pipeline operator's downstream facility maintenance activity, which is beyond Oxy's control to avoid, prevent or control from happening. This complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point. While this event was out of Oxy's control to avoid or prevent from happening, Oxy made every effort to minimize emissions while DCP was having downstream maintenance activity issues.

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CONDITIONS

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	Action Number: 46303
	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.	9/2/2021