



Volumetrics US Inc.
3001 N Cameron St, Victoria, TX-77901
Phone: 361-827-4024

Company: OXY USA INC
Field/Location : NMSW
Station Name : RED TANK 30-31 SATELLITE CHECK
Station Number : 15150C
Sample Date: 4/12/21 12:28 PM
Analysis Date: 4/27/21 4:07 PM
Instrument: VARIAN CP 490 GC
Calibration/Verification Date: 4/27/2021
Heat Trace used: YES

Work Order 4000266887
Sampled by: VOLUMETRICS/JA
Sample Type : SPOT-CYLINDER
Sample Temperature (F): 82
Sample Pressure (PSIG): 103
Flow rate (MCF/Day): 490
Ambient Temperature (F): 65
Sampling method: FILL & EMPTY
Cylinder Number: 1297

NATURAL GAS ANALYSIS: GPA 2261

Components	Un-Normalized Mol%	Normalized Mol%	GPM 14.650	GPM 14.730	GPM 15.025
Hydrogen Sulfide	0.0000	0.0000			
Nitrogen	2.2665	2.2645			
Methane	71.8840	71.8219			
Carbon Dioxide	8.1098	8.1028			
Ethane	9.5907	9.5824	2.558	2.572	2.623
Propane	4.8560	4.8518	1.334	1.341	1.368
Isobutane	0.6093	0.6088	0.199	0.200	0.204
N-butane	1.4631	1.4619	0.460	0.462	0.472
Isopentane	0.3625	0.3622	0.132	0.133	0.136
N-Pentane	0.3768	0.3765	0.136	0.137	0.140
Hexanes Plus	0.5677	0.5672	0.247	0.248	0.253
Total	100.0864	100.0000			

Hexanes plus split (60%-30%-10%)

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	5.066	5.093	5.195
Total GPM Iso-Pentane+	0.515	0.518	0.529
Compressibility (Z)	0.9963	0.9963	0.9962
Specific Gravity (Air=1) @ 60 °F	0.7970	0.7970	0.7971
Molecular Weight	23.008	23.008	23.008

Gross Heating Value	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft ³)	1143.9	1150.1	1173.2
Wet, Real (BTU/Ft ³)	1124.0	1130.1	1152.8
Dry, Ideal (BTU/Ft ³)	1139.6	1145.9	1168.8
Wet, Ideal (BTU/Ft ³)	1119.8	1125.9	1148.5

Temperature base 60 °F

Comment: H2S = 0 PPM

Verified by

Mostaq Ahammad
Petroleum Chemist

Approved by

Deann Friend

Deann Friend
Laboratory Manager

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Red Tank 30-31 CTB**Date:** 06/09/2021**Duration of event:** 4 Hours**MCF Flared:** 681**Start Time:** 02:00 AM**End Time:** 06:00 AM**Cause:** Downstream Activity Issue > DCP > Linam Ranch**Method of Flared Gas Measurement:** Gas Flare Meter**Well API Associated with Facility:** 30-025-44193 Red Tank 30-31 State Com 014H

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:

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. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices.

This sudden and unexpected flaring event occurred due to third-party operator DCP, which had downstream facility issues at their Linam Ranch station, causing an increase in high pressure on their gas pipeline, which then greatly impacted OXY's ability to send gas to DCP and triggered a flaring event at Oxy's upstream facility. This event was out of Oxy's control to foresee, avoid or prevent from happening, yet Oxy made every effort to minimize emissions as much as possible. No advance warning or notice was provided by Enterprise personnel of an issue with their downstream facility operations or equipment. All OXY compression equipment were running at maximized optimization until DCP restricted and/or shut-in their gas pipeline due to issues with their downstream facility, Linam Ranch station.

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

In this case, it is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, as part of the steps to take to limit duration and magnitude of flaring. Upon flaring being noticed, an Oxy production tech quickly contacted DCP personnel about the unforeseeable pipeline restriction and/or shut-in and when normal gas service would be restored. Oxy was informed that the cause of the spike in Enterprise's pipeline pressure was due to an issue with their downstream facility, Linam Ranch station, and no estimation of when normal gas service would be restored. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure flame is lit and

meeting opacity requirements. Oxy strives to take additional steps, when possible, to minimize the volume of gas flared by choking back well production and maintaining continual communication with DCP to ensure that gas is safely directed back to sales as soon as DCP resumes normal gas services.

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 potential reoccurrence of an interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator, as this issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening again. DCP's downstream facility issues will re-occur from time to time and which in turn, directly impacts Oxy's ability to send gas to them. When DCP's downstream facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, DCP then restricts Oxy's ability to send gas, which then initiates Oxy to route all of its stranded gas not pushed into the DCP gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with DCP personnel during these types of circumstances and whenever possible, choke back well production to reduce volume of gas flared.

District I

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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

QUESTIONS

Action 51457

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 51457
	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	[30-025-44193] RED TANK 30 31 STATE COM #014H
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	Yes
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, 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 Issue > DCP > Linam Ranch

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	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	8
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	06/09/2021
Time venting and/or flaring was discovered or commenced	02:00 AM
Time venting and/or flaring was terminated	06:00 AM
Cumulative hours during this event	4

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: 681 Mcf Recovered: 0 Mcf Lost: 681 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
Was notification of downstream activity received by you or your operator	No
Downstream OGRID that should have notified you or your operator	[229527] DCP MIDSTREAM, L.P.
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	See Justification Form > 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. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices.
Steps taken to limit the duration and magnitude of venting and/or flaring	See Justification Form > In this case, it is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, as part of the steps to take to limit duration and magnitude of flaring. Upon flaring being noticed, an Oxy production tech quickly contacted DCP personnel about the unforeseeable pipeline restriction and/or shut-in and when normal gas service would be restored. Oxy was informed that the cause of the spike in Enterprise's pipeline pressure was due to an issue with their downstream facility, Linam Ranch station, and no estimation of when normal gas service would be restored. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. Oxy strives to take additional steps, when possible, to minimize the volume of gas flared by choking back well production and maintaining continual communication with DCP to ensure that gas is safely directed back to sales as soon as DCP resumes normal gas services.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	See Justification Form > Oxy is limited in the corrective actions to eliminate the cause and potential reoccurrence of an interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline operator, as this issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening again. DCP's downstream facility issues will re-occur from time to time and which in turn, directly impacts Oxy's ability to send gas to them. When DCP's downstream facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, DCP then restricts Oxy's ability to send gas, which then initiates Oxy to route all of its stranded gas not pushed into the DCP gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to keep continually communicate with DCP personnel during these types of circumstances and whenever possible, choke back well production to reduce volume of gas flared.

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	Action Number: 51457
	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.	9/23/2021