



Volumetrics Inc.

3710 East Rio Grande St, Victoria, TX-77901

Phone: 361-827-4024

Company: OXY USA INC
Field/Location : NMSW
Station Name : DIMENSIONS CTB TRAIN 1 CHECK
Station Number : 18521C
Sample Date: 4/6/22 11:00 AM
Analysis Date: 4/13/22 1:25 PM
Instrument: VARIAN- CP 4900 GC
Calibration/Verification Date: 4/12/2022
Heat Trace used: YES

Work Order: 4000551929
Sampled by: OXY/JE
Sample Type : SPOT-CYLINDER
Sample Temperature (F): 81
Sample Pressure (PSIG): 76
Flow rate (MCF/Day): 19759.9
Ambient Temperature (F): 53
Sampling method: FILL & EMPTY
Cylinder Number: 27746

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	1.6778	1.7092			
Methane	74.5445	75.9409			
Carbon Dioxide	1.7368	1.7693			
Ethane	10.9843	11.1901	2.987	3.003	3.063
Propane	5.3008	5.4001	1.485	1.493	1.523
Isobutane	0.6800	0.6927	0.226	0.227	0.232
N-butane	1.6650	1.6962	0.534	0.537	0.547
Isopentane	0.3972	0.4046	0.148	0.148	0.151
N-Pentane	0.4579	0.4665	0.169	0.170	0.173
Hexanes(C6's)	0.3123	0.3182	0.131	0.131	0.134
Heptanes (C7's)	0.2557	0.2605	0.120	0.121	0.123
Octanes (C8's)	0.1124	0.1145	0.059	0.059	0.060
Nonanes Plus (C9+)	0.0365	0.0372	0.021	0.021	0.021
Total	98.1612	100.0000			

Physical Properties (Calculated)

	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	5.879	5.910	6.027
Total GPM Iso-Pentane+	0.647	0.650	0.662
Compressibility (Z)	0.9962	0.9962	0.9961
Specific Gravity (Air=1) @ 60 °F	0.7593	0.7593	0.7594
Molecular Weight	21.917	21.917	21.917

Gross Heating Value

	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft ³)	1253.7	1260.6	1285.9
Wet, Real (BTU/Ft ³)	1231.8	1238.5	1263.4
Dry, Ideal (BTU/Ft ³)	1249.0	1255.8	1280.9
Wet, Ideal (BTU/Ft ³)	1227.1	1233.8	1258.5

Temperature base 60 °F

Comment: FIELD H2S =0 PPM

Verified by

Mostaq Ahammad
 Petroleum Chemist

Approved by

Deann Friend
 Laboratory Manager

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Dimension 6 CTB**Flare Date:** 02/09/2023**Duration of event:** 1 Hour 35 Minutes**MCF Flared:** 80**Start Time:** 03:40 AM**End Time:** 05:15 AM**Cause:** Emergency Flare > Downstream Activity Issue > Enterprise > Orla Gas Plant > Facility Emergency Shutdown**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This upset event was not caused by any wells associated with the facility.

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. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production techs must assess and determine cause of flaring at its upstream facility. In this case, third-party pipeline operator, Enterprise, had an emergency shutdown (ESD) of their downstream Orla Gas Plant, which was, instigated by a flare knockout HHI level. This sudden and unexpected Enterprise downstream facility shutdown greatly impacted the gas flow from Oxy's upstream facility when Enterprise's ESD valve immediately closed and shut-in gas pipeline services to Oxy. This ESD of Enterprise's Orla Gas Plant triggered a flaring event at Oxy's upstream facility as Oxy was unable to push its gas to Enterprise's sales gas service pipeline. Until Enterprise's gas plant was back up and returned to normal working operation and was able to handle the volume of gas sent to them, Oxy's operations automatically prompted its stranded gas to a flare, which was triggered upon Enterprise's facility ESD. Upon immediate flaring at Oxy's Sand Dunes South Corridor CTB, Oxy personnel were informed and then immediately contacted Enterprise personnel to inform them that Oxy's facility was flaring and was making arrangements to offload to alternative offload operators. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding potential issues with their sales gas service system pipeline, their ESD system or valve, and/or issues with their downstream facility. All Oxy's facility equipment were operating as designed prior to the sudden and unexpected flaring event occurring.

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, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, third-party pipeline operator, Enterprise, had an emergency shutdown (ESD) of their downstream Orla Gas Plant, which was, instigated by a flare knockout HHI level. This sudden and unexpected Enterprise downstream facility shutdown greatly impacted the gas flow from Oxy's upstream facility when Enterprise's ESD valve immediately closed and shut-in gas pipeline services to Oxy. This ESD of Enterprise's Orla

Gas Plant triggered a flaring event at Oxy's upstream facility as Oxy was unable to push its gas to Enterprise's sales gas service pipeline. Until Enterprise's gas plant was back up and returned to normal working operation and was able to handle the volume of gas sent to them, Oxy's operations automatically prompted its stranded gas to a flare, which was triggered upon Enterprise's facility ESD. Upon immediate flaring at Oxy's Sand Dunes South Corridor CTB, Oxy personnel were informed and then immediately contacted Enterprise personnel to inform them that Oxy's facility was flaring and was making arrangements to offload to alternative offload operators. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding potential issues with their sales gas service system pipeline, their ESD system or valve, and/or issues with their downstream facility or gas plant. All Oxy's facility equipment were operating as designed prior to the sudden and unexpected flaring event occurring.

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 an Enterprise gas flow pipeline restriction or shut in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening or reoccurring. Enterprise's downstream facility and gas plant issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise downstream facility and/or gas plants have equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Enterprise gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in multiple high GOR wells, when possible and engage in secondary third-party operator offload alternative routes to minimize flaring volumes during this third-party pipeline operator downstream activity restriction and/or shut in.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 191803

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 191803
	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: <ul style="list-style-type: none">• 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 191803

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 191803
	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	[fAPP2126637631] DIMENSION 6 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	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	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Downstream Activity Issue > Enterprise > Orla Gas Plant > Facility Emergency Shutdo

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	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	2
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 191803

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/09/2023
Time vent or flare was discovered or commenced	03:40 AM
Time vent or flare was terminated	05:15 AM
Cumulative hours during this event	2

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: 80 Mcf Recovered: 0 Mcf Lost: 80 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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[713731] Enterprise Crude Pipeline LLC
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	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. Internal Oxy procedures ensure that upon a sudden and unexpected flaring event, production techs are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production techs must assess and determine cause of flaring at its upstream facility. In this case, third-party pipeline operator, Enterprise, had an emergency shutdown (ESD) of their downstream Orla Gas Plant, which was, instigated by a flare knockout HIHI level. This sudden and unexpected Enterprise downstream facility shutdown greatly impacted the gas flow from Oxy's upstream facility when Enterprise's ESD valve immediately closed and shut-in gas pipeline services to Oxy. This ESD of Enterprise's Orla Gas Plant triggered a flaring event at Oxy's upstream facility as Oxy was unable to push its gas to Enterprise's sales gas service pipeline. Until Enterprise's gas plant was back up and returned to normal working operation and was able to handle the volume of gas sent to them, Oxy's operations automatically prompted its stranded gas to a flare, which was triggered upon Enterprise's facility ESD.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has a 98% combustion efficiency to lessen emissions as much as possible. In this case, third-party pipeline operator, Enterprise, had an emergency shutdown (ESD) of their downstream Orla Gas Plant, which was, instigated by a flare knockout HIHI level. This sudden and unexpected Enterprise downstream facility shutdown greatly impacted the gas flow from Oxy's upstream facility when Enterprise's ESD valve immediately closed and shut-in gas pipeline services to Oxy. This ESD of Enterprise's Orla Gas Plant triggered a flaring event at Oxy's upstream facility as Oxy was unable to push its gas to Enterprise's sales gas service pipeline. Until Enterprise's gas plant was back up and returned to normal working operation and was able to handle the volume of gas sent to them, Oxy's operations automatically prompted its stranded gas to a flare, which was triggered upon Enterprise's facility ESD. Upon immediate flaring at Oxy's Sand Dunes South Corridor CTB, Oxy personnel were informed and then immediately contacted Enterprise personnel to inform them that Oxy's facility was flaring and was making arrangements to offload to alternative offload operators. No advance warning of any kind was provided to Oxy personnel from Enterprise personnel regarding potential issues with their sales gas service system pipeline, their ESD system or valve, and/or issues with their downstream facility or gas plant.. All Oxy's facility equipment were operating as designed prior to the sudden and unexpected flaring event occurring.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of an Enterprise gas flow pipeline restriction or shut in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening or reoccurring. Enterprise 's downstream facility and gas plant issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise downstream facility and/or gas plants have equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the Enterprise gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in multiple high GOR wells, when possible and engage in secondary third-party operator offload alternative routes to minimize flaring volumes during this third-party pipeline operator downstream activity restriction and/or shut in.

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ACKNOWLEDGMENTS

Action 191803

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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

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	Action Number: 191803
	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.	2/28/2023