



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

Company: OXY USA INC
Field/Location : NMSW
Station Name : FEDERAL 1-1
Station Number : 2300150020
Sample Date: 3/2/21 8:01 AM
Analysis Date: 3/23/21 1:43 PM
Instrument: VARIAN CP 490 GC
Calibration/Verification Date: 3/23/2021
Heat Trace used: YES

Work Order 4000230136
Sampled by: VOLUMETRICS/JA
Sample Type : SPOT-CYLINDER
Sample Temperature (F): 50
Sample Pressure (PSIG): 60
Flow rate (MCF/Day): 30.8
Ambient Temperature (F): 41
Sampling method: FILL & EMPTY
Cylinder Number: 1095

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	5.6205	5.7973			
Methane	63.0422	65.0250			
Carbon Dioxide	0.0798	0.0823			
Ethane	14.1343	14.5789	3.893	3.915	3.993
Propane	9.8799	10.1907	2.804	2.819	2.875
Isobutane	0.9613	0.9915	0.324	0.326	0.332
N-butane	2.0318	2.0957	0.660	0.663	0.677
Isopentane	0.3760	0.3878	0.142	0.142	0.145
N-Pentane	0.3170	0.3270	0.118	0.119	0.121
Hexanes Plus	0.5078	0.5238	0.228	0.230	0.234
Total	96.9506	100.0000			

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

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	8.169	8.214	8.378
Total GPM Iso-Pentane+	0.488	0.491	0.501
Compressibility (Z)	0.9957	0.9957	0.9956
Specific Gravity (Air=1) @ 60 °F	0.8238	0.8239	0.8239
Molecular Weight	23.767	23.767	23.767

Gross Heating Value	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft ³)	1328.8	1336.1	1363.0
Wet, Real (BTU/Ft ³)	1305.7	1312.9	1339.3
Dry, Ideal (BTU/Ft ³)	1323.1	1330.3	1357.0
Wet, Ideal (BTU/Ft ³)	1300.1	1307.2	1333.4

Temperature base 60 °F

Comment: FIELD H2S = 0 PPM

Verified by

Mostaq Ahammad
Petroleum Chemist

Approved by

Deann Friend

Deann Friend
Laboratory Manager

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Federal 1-1 CTB**Flare Date:** 02/17/2022**Duration of event:** 17 Hours**MCF Flared:** 737**Event Start Time:** 12:00 AM**Event End Time:** 05:00 PM**Cause:** Downstream Activity > DCP > Pipeline Pigging Operation Issues**Method of Flared Gas Measurement:** Gas Flare Meter

Comments: This upset event was not caused by any wells associated with the facility. This emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable issue 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.

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 downstream pipeline operator, which impacted Oxy's ability to send gas to a third-party downstream 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. In this case, OXY was not provided with advance notice, from DCP that unexpected gas restrictions or constraints of their gas service pipeline would occur because they were pigging their pipeline and having the pig get stuck. Once flaring was noticed by field personnel, as this is an unmanned facility, an after-hours production tech arrived on-site to monitor the flare and contact DCP to determine cause. Oxy personnel were informed by DCP personnel that they were pigging the pipeline and the pig got stuck within. No ETA for return of working DCP service. As a result of DCP shutting in their pipeline to OXY, the field pressured up and triggered a flaring event, which lasted most of the twilight hours and throughout the day.

The Federal 1-1 CTB 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:

It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to

additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, OXY was not provided with advance notice, from DCP that unexpected gas restrictions or constraints of their gas service pipeline would occur as a result of them pigging their pipeline and having the pig get stuck. Once flaring was noticed by field personnel, as this is an unmanned facility, an after-hours production tech arrived on-site to monitor the flare and contact DCP to determine cause. Oxy personnel were informed by DCP personnel that they were pigging the pipeline and the pig got stuck within. No ETA for return of working DCP service. As a result of DCP shutting in their pipeline to OXY, the field pressured up and triggered a flaring event, which lasted most of the twilight hours and throughout the day. Oxy personnel kept in constant communication with DCP while they attempted to resolve their pipeline issues.

DCP's facility/equipment issues are downstream of Oxy's custody transfer point and control, yet greatly impacted the volume of gas flow from Oxy's upstream facility to their gas pipeline. 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. The Federal 1-1 CTB 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.

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

Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of a DCP gas service flow pipeline restriction or shut-in, due to high line pressure spikes in their gas system pipeline, 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. DCP's downstream facility issues will re-occur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When DCP's downstream facilities has equipment 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 allows no other option but for Oxy to route its stranded gas not pushed into the DCP gas system 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 communicate frequently with DCP personnel during these types of situations until DCP resumes normal gas service operations.

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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 87311

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 87311
	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 87311

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 87311
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Not answered.
Incident Facility	[fAPP2127059734] FEDERAL 01 BATTERY

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	Yes
Is this considered a submission for a vent or flare event	Yes, major venting and/or flaring of natural gas.
<i>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.</i>	
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 > DCP > Pipeline Pigging Operation Issues

Representative Compositional Analysis of Vented or Flared Natural Gas	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	65
Nitrogen (N2) percentage, if greater than one percent	6
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 87311

QUESTIONS (continued)

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	Action Number: 87311
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/17/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	05:00 PM
Cumulative hours during this event	17

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: 737 Mcf Recovered: 0 Mcf Lost: 737 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	[229527] DCP MIDSTREAM, L.P.
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 downstream pipeline operator, which impacted Oxy's ability to send gas to a third-party downstream 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. In this case, OXY was not provided with advance notice, from DCP that unexpected gas restrictions or constraints of their gas service pipeline would occur because they were pigging their pipeline and having the pig get stuck. Once flaring was noticed by field personnel, as this is an unmanned facility, an after-hours production tech arrived on-site to monitor the flare and contact DCP to determine cause. Oxy personnel were informed by DCP personnel that they were pigging the pipeline and the pig got stuck within. No ETA for return of working DCP service. As a result of DCP shutting in their pipeline to OXY, the field pressured up and triggered a flaring event, which lasted most of the twilight hours and throughout the day.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, OXY was not provided with advance notice, from DCP that unexpected gas restrictions or constraints of their gas service pipeline would occur as a result of them pigging their pipeline and having the pig get stuck. Once flaring was noticed by field personnel, as this is an unmanned facility, an after-hours production tech arrived on-site to monitor the flare and contact DCP to determine cause. Oxy personnel were informed by DCP personnel that they were pigging the pipeline and the pig got stuck within. No ETA for return of working DCP service. As a result of DCP shutting in their pipeline to OXY, the field pressured up and triggered a flaring event, which lasted most of the twilight hours and throughout the day. Oxy personnel kept in constant communication with DCP while they attempted to resolve their pipeline issues.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of a DCP gas service flow pipeline restriction or shut-in, due to high line pressure spikes in their gas system pipeline, 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. DCP's downstream facility issues will re-occur from time to time and may trigger a spike in their gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When DCP's downstream facilities has equipment 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 allows no other option but for Oxy to route its stranded gas not pushed into the DCP gas system 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 communicate frequently with DCP personnel during these types of situations until DCP resumes normal gas service operations.

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ACKNOWLEDGMENTS

Action 87311

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	Action Number: 87311
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ACKNOWLEDGMENTS

☒	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.
☒	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 87311

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	Action Number: 87311
	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.	3/4/2022