

Volumetrics Inc.

3710 East Rio Grande St, Victoria, TX-77901

Phone: 361-827-4024

Company: **OXY USA INC** Field/Location: NMSW

Station Name: CORRAL 1 COMP STATION ENERGY TRANSFER CHECK

Station Number: 18000C Sample Date: 2/23/22 9:45 AM **Analysis Date:** 3/7/22 12:45 PM Instrument: INFICON

Calibration/Verification Date: 3/7/2022 **Heat Trace used:** YES

Work Order 4000424956 Sampled by: OXY/JE

Sample Type: SPOT-CYLINDER

Sample Temperature (F): Sample Pressure (PSIG): 1230 Flow rate (MCF/Day): 16257 Ambient Temperature (F): 23

Sampling method: FILL & EMPTY

Cylinder Number: 27764

NATURAL GAS ANALYSIS: GPA 2261

	Un-Normalized	Normalized	GPM	GPM	GPM
Components	Mol%	Mol%	14.650	14.730	15.025
Hydrogen Sulfide	0.0000	0.0000			
Nitrogen	1.4221	1.4522			
Methane	74.0532	75.6211			
Carbon Dioxide	0.1772	0.1809			
Ethane	12.0085	12.2627	3.273	3.291	3.357
Propane	6.0764	6.2050	1.706	1.716	1.750
Isobutane	0.8466	0.8645	0.282	0.284	0.290
N-butane	1.9936	2.0358	0.641	0.644	0.657
Isopentane	0.4162	0.4250	0.155	0.156	0.159
N-Pentane	0.4438	0.4532	0.164	0.165	0.168
Hexanes Plus	0.4893	0.4996	0.218	0.219	0.223
Total	97.9269	100.0000			

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

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	6.440	6.475	6.604
Total GPM Iso-Pentane+	0.537	0.540	0.550
Compressibility (Z)	0.9961	0.9961	0.9960
Specific Gravity (Air=1) @ 60 °F	0.7562	0.7562	0.7563
Molecular Weight	21.826	21.826	21.826
Gross Heating Value	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft ³)	1293.2	1300.3	1326.4
Wet, Real (BTU/Ft ³)	1270.7	1277.6	1303.3
Dry, Ideal (BTU/Ft ³)	1288.2	1295.2	1321.2
Wet, Ideal (BTU/Ft ³)	1265.8	1272.7	1298.2

Temperature base 60 °F

Comment: FIELD H2S =0 PPM

Verified by

Mostaq Ahammad Petroleum Chemist

Approved by Deann Friend

Deann Friend Laboratory Manager

UPSET VENT EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Corral 1S CS Vent Date: 12/10/2022

Duration of event: 3 Hours 48 Minutes **MCF Vented:** 132

Start Time: 03:35 PM End Time: 07:23 PM

Cause: Equipment Malfunction > G20 VRU > Shutting Down Repeatedly > High Vibration Issues

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:

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 engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. 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. In this case, venting was discovered and monitored by Oxy production technicians when the VRU malfunction alarm were received from the facility's G20 VRU, which had malfunctioned and repeatedly shutdown on high vibration issues. The G20 VRU was running and operating as designed prior to the malfunctions occurring. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.

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

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. In this case, venting was discovered and monitored by Oxy production technicians when the VRU malfunction alarms were received from the facility's G20 VRU, which had malfunctioned and repeatedly shutdown on high vibration issues. After several VRU's restarts, a call was placed to Cimarron, third party vendor/equipment contractor, to dispatch a repairman to the facility to troubleshoot the issues. Unfortunately, Cimarron was unable to send a repairman due to numerous calls within the area for equipment malfunctions and a shortage of staff. Cimarron would dispatch a repairman at its first available opportunity within the next few days. The facility equipment was running and operating as designed prior to the malfunctions occurring. Oxy production techs remained in the area to reset and restart the VRU until a repairman could be dispatched to resolve the repeating equipment issue. The G20 VRU was running and operating as designed prior to the malfunctions occurring. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.

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 reoccurrence of venting in this type of VRU equipment malfunction as notwithstanding normal equipment design and operation, emergencies, and malfunctions, can occur without warning, be sudden, unforeseeable, and unavoidable. In addition, field operation equipment is inherently dynamic and even the smallest mechanical issue can be sudden, reasonably unforeseeable, and unexpected which can cause malfunctions to occur without warning. Oxy continually strives to maintain and operate in a manner consistent with good practice for minimizing emissions and reducing the number of emission events. It is OXY's policy to flare, rather than vent, during an unforeseen and unavoidable emergency or malfunction, to minimize emissions as much as possible, yet, in this circumstance, a sudden and unexpected equipment malfunction caused venting to occur, which was unavoidable. The G20 VRU was running and operating as designed prior to the malfunctions occurring. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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**

DEFINITIONS

Action 170011

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	170011
	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 170011

Phone:(505) 476-3470 Fax:(505) 476-3462			
Q	UESTIONS		
Operator: OXY USA INC		OGRID:	
P.O. Box 4294		16696 Action Number:	
Houston, TX 772104294		170011	
		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 wi	th the rest of the questions.	
Incident Well	Unavailable.		
Incident Facility	[fAPP2126641362] CORRA	AL #1 COMP STATION	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	nd may provide addional quidance		
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 was there at least 50 MCF of natural gas vented and/or flared during this event	Yes	y be a major or minor release under 19.15.29.7 NMAC.	
Did this vent or flare result in the release of ANY liquids (not fully and/or completely	165		
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	Venting > Equipment Malfu Issues	unction > G20 VRU > Shutting Down Repeatedly > High Vibration	
Representative Compositional Analysis of Vented or Flared Natural Gas			
Please provide the mole percent for the percentage questions in this group.	T =0		
Methane (CH4) percentage	76		
Nitrogen (N2) percentage, if greater than one percent	1		
Hydrogen Sulfide (H2S) PPM, rounded up	0		
Carbon Dioxide (C02) percentage, if greater than one percent			
Oxygen (02) percentage, if greater than one percent	0		
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	cifications for each gas.		
Methane (CH4) percentage quality requirement	Not answered.		
Nitrogen (N2) percentage quality requirement	Not answered.		
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.		
Carbon Dioxide (C02) percentage quality requirement	Not answered.	Not answered.	

Not answered.

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 170011

QU	EST	IONS	(continued	I)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	170011
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	12/10/2022	
Time vent or flare was discovered or commenced	03:35 PM	
Time vent or flare was terminated	07:23 PM	
Cumulative hours during this event	4	

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 132 Mcf Recovered: 0 Mcf Lost: 132 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Estimate Vent Calculations
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	No	
Was notification of downstream activity received by this operator	Not answered.	
Downstream OGRID that should have notified this operator	Not answered.	
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	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 engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. 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. In this case, venting was discovered and monitored by Oxy production technicians when the VRU malfunction alarm were received from the facility's G20 VRU, which had malfunctioned and repeatedly shutdown on high vibration issues. The G20 VRU was running and operating as designed prior to the malfunctions occurring. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.
Steps taken to limit the duration and magnitude of vent or flare	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. In this case, venting was discovered and monitored by Oxy production technicians when the VRU malfunction alarms were received from the facility's G20 VRU, which had malfunctioned and repeatedly shutdown on high vibration issues. After several VRU's restarts, a call was placed to Cimarron, third party vendor/equipment contractor, to dispatch a repairman to the facility to troubleshoot the issues. Unfortunately, Cimarron was unable to send a repairman due to numerous calls within the area for equipment malfunctions and a shortage of staff. Cimarron would dispatch a repairman at its first available opportunity within the next few days. The facility equipment was running and operating as designed prior to the malfunctions occurring. Oxy production techs remained in the area to reset and restart the VRU until a repairman could be dispatched to resolve the repeating equipment issue. The G20 VRU was running and operating as designed prior to the malfunctions occurring. OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected venting event.
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ACKNOWLEDGMENTS

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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.
V	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.
V	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.
V	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 170011

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	170011
	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.	12/26/2022