



## Volumetrics Inc.

3710 East Rio Grande St, Victoria, TX-77901

Phone: 361-827-4024

**Company:** OXY USA INC  
**Field/Location :** NMSW  
**Station Name :** CEDAR CANYON EAST COMP STATION CHECK  
**Station Number :** 14803C  
**Sample Date:** 12/29/21 1:15 PM  
**Analysis Date:** 1/7/22 5:30 PM  
**Instrument:** INFICON  
**Calibration/Verification Date:** 1/7/2022  
**Heat Trace used:** YES

**Work Order** 4000401063  
**Sampled by:** OXY/JE  
**Sample Type :** SPOT-CYLINDER  
**Sample Temperature (F):** 110  
**Sample Pressure (PSIG):** 1250  
**Flow rate (MCF/Day):** 24917  
**Ambient Temperature (F):** 65  
**Sampling method:** FILL & EMPTY  
**Cylinder Number:** 27764

## 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	1.7834	1.7997			
Methane	74.7045	75.3899			
Carbon Dioxide	1.1603	1.1709			
Ethane	11.7624	11.8704	3.169	3.186	3.250
Propane	5.6862	5.7384	1.578	1.587	1.618
Isobutane	0.7515	0.7584	0.248	0.249	0.254
N-butane	1.8214	1.8381	0.578	0.582	0.593
Isopentane	0.4214	0.4253	0.155	0.156	0.159
N-Pentane	0.4686	0.4729	0.171	0.172	0.175
Hexanes Plus	0.5311	0.5360	0.233	0.235	0.239
<b>Total</b>	<b>99.0908</b>	<b>100.0000</b>			

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

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	6.132	6.166	6.289
Total GPM Iso-Pentane+	0.560	0.563	0.574
Compressibility (Z)	0.9962	0.9962	0.9961
Specific Gravity ( Air=1 ) @ 60 °F	0.7577	0.7577	0.7578
Molecular Weight	21.870	21.870	21.870
<b>Gross Heating Value</b>	<b>14.650 psia</b>	<b>14.730 psia</b>	<b>15.025 psia</b>
Dry, Real (BTU/Ft <sup>3</sup> )	1264.8	1271.7	1297.3
Wet, Real (BTU/Ft <sup>3</sup> )	1242.8	1249.6	1274.7
Dry, Ideal (BTU/Ft <sup>3</sup> )	1260.0	1266.9	1292.3
Wet, Ideal (BTU/Ft <sup>3</sup> )	1238.1	1244.9	1269.8

Temperature base 60 °F

**Comment:** FIELD H2S =0 PPM

## Verified by

Mostaq Ahammad  
Petroleum Chemist

## Approved by

Deann Friend  
Laboratory Manager

**UPSET VENTING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Cedar Canyon East CS**Date:** 10/29/2022**Duration of event:** 8 Hours 58 minutes**MCF Flared:** 66**Start Time:** 03:01 PM**End Time:** 11:59 PM**Cause:** Facility Equipment Issues > Compression > Scrubber Dump Issues**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This upset event was not caused by any wells associated with the facility.

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**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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon air compressor unit and/or multiple unit shutdown, due to malfunction and/or alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. In this case, this venting event was caused by a compressor unit malfunction, which had excess liquids affecting the scrubber dump and could not be completely resolved until a compressor mechanic was able to come out and repair it. Unfortunately, a compressor mechanic was not able to respond to resolve the issue as they were overwhelmed with other troubleshooting calls in the area. resulting from the sudden and unexpected power outage which affected the area. Oxy productions were able to bypass the scrubber dump which resulted in nominal venting to occur until the unit could worked on. This event could not have been foreseen, avoided or planned for as compression operating equipment design and operations are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected. This event is out of OXY's control yet, OXY made every effort to control and minimize emissions as much as possible.

**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. It is OXY's policy to route all stranded gas to a flare rather than vent 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 emissions. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown alarms, increased sensor pressure/level alarms, other process equipment issues, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible in order 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, this venting event was caused by a compressor unit malfunction, which had excess liquids affecting the scrubber dump and could not be completely resolved until a compressor mechanic was able to come out and repair it. Unfortunately, a compressor mechanic was not able to respond to resolve

the issue as they were overwhelmed with other troubleshooting calls in the area. resulting from the sudden and unexpected power outage which affected the area. Oxy productions were able to bypass the scrubber dump which resulted in nominal venting to occur until the unit could worked on. This event could not have been foreseen, avoided or planned for as compression operating equipment design and operations are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected. This event is out of OXY's control yet, OXY made every effort to control and minimize emissions as much as possible.

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

Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of this type of equipment malfunction as notwithstanding compression operating equipment design and operations, they ae inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected. The only action that Oxy can take is to continue with the equipment preventative maintenance program for this facility. This event is out of OXY's control yet, OXY made every effort to control and minimize emissions as much as possible.

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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 162222

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 162222
	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"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 162222

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	162222
	Action Type:	[C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
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	[30-015-43819] CEDAR CANYON 28 FEDERAL COM #008H
Incident Facility	Unavailable.

<b>Determination of Reporting Requirements</b>	
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	Yes
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 <b>ANY</b> 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Facility Equipment Issues > Compression > Scrubber Dump Issues

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	75
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	1
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 162222

QUESTIONS (continued)

Operator: <div>OXY USA INC P.O. Box 4294 Houston, TX 772104294</div>	OGRID: 16696
	Action Number: 162222
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/29/2022
Time vent or flare was discovered or commenced	03:01 PM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	9

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Vented   Released: 66 Mcf   Recovered: 0 Mcf   Lost: 66 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Estimated gas volume
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	<p>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 or prevented by good design, operation, and preventative maintenance practices. Internal OXY procedures ensure that upon air compressor unit and/or multiple unit shutdown, due to malfunction and/or alarms, production techs are promptly notified, and are instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. In this case, this venting event was caused by a compressor unit malfunction, which had excess liquids affecting the scrubber dump and could not be completely resolved until a compressor mechanic was able to come out and repair it. Unfortunately, a compressor mechanic was not able to respond to resolve the issue as they were overwhelmed with other troubleshooting calls in the area. Oxy productions were able to bypass the scrubber dump which resulted in nominal venting to occur until the unit could worked on. This event could not have been foreseen, avoided or planned for as compression operating equipment design and operations are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected. This event is out of OXY's control yet, OXY made every effort to control and minimize emissions as much as possible.</p>
Steps taken to limit the duration and magnitude of vent or flare	<p>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. It is OXY's policy to route all stranded gas to a flare rather than vent 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 emissions. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown alarms, increased sensor pressure/level alarms, other process equipment issues, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible in order 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, this venting event was caused by a compressor unit malfunction, which had excess liquids affecting the scrubber dump and could not be completely resolved until a compressor mechanic was able to come out and repair it. Unfortunately, a compressor mechanic was not able to respond to resolve the issue as they were overwhelmed with other troubleshooting calls in the area. Oxy productions were able to bypass the scrubber dump which resulted in nominal venting to occur until the unit could worked on. This event could not have been foreseen, avoided or planned for as compression operating equipment design and operations are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected. This event is out of OXY's control yet, OXY made every effort to control and minimize emissions as much as possible.</p>
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ACKNOWLEDGMENTS

Action 162222

**ACKNOWLEDGMENTS**

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	Action Number: 162222
	Action Type: [C-129] Venting and/or Flaring (C-129)

**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 <b>complete</b> 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

Action 162222

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Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 162222
	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.	11/29/2022