



## Volumetrics Inc.

3710 East Rio Grande St, Victoria, TX-77901

Phone: 361-827-4024

<b>Company:</b>	OXY USA INC	<b>Work Order</b>	4000501489
<b>Field/Location :</b>	NMSW	<b>Sampled by:</b>	OXY/JE
<b>Station Name :</b>	CORRAL COMPRESSOR STA 2 SOUTH FUEL SKID OUTLE	<b>Sample Type :</b>	SPOT-CYLINDER
<b>Station Number :</b>	NA	<b>Sample Temperature (F):</b>	NA
<b>Sample Date:</b>	2/23/22 1:30 PM	<b>Sample Pressure (PSIG):</b>	125
<b>Analysis Date:</b>	3/7/22 11:00 AM	<b>Flow rate (MCF/Day):</b>	NA
<b>Instrument:</b>	INFICON	<b>Ambient Temperature (F):</b>	23
<b>Calibration/Verification Date:</b>	3/7/2022	<b>Sampling method:</b>	FILL & EMPTY
<b>Heat Trace used:</b>	YES	<b>Cylinder Number:</b>	27784

## 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	1.3240	1.3598			
Methane	75.6525	77.7008			
Carbon Dioxide	0.1877	0.1928			
Ethane	11.5036	11.8151	3.153	3.170	3.234
Propane	5.8586	6.0172	1.654	1.663	1.696
Isobutane	0.7572	0.7777	0.254	0.255	0.260
N-butane	1.6243	1.6683	0.525	0.528	0.538
Isopentane	0.2101	0.2158	0.079	0.079	0.081
N-Pentane	0.1809	0.1858	0.067	0.068	0.069
Hexanes Plus	0.0650	0.0667	0.029	0.029	0.030
<b>Total</b>	<b>97.3638</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+	5.761	5.792	5.908
Total GPM Iso-Pentane+	0.175	0.176	0.179
Compressibility (Z)	0.9965	0.9965	0.9964
Specific Gravity ( Air=1 ) @ 60 °F	0.7242	0.7242	0.7243
Molecular Weight	20.911	20.911	20.911
<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> )	1244.9	1251.8	1276.9
Wet, Real (BTU/Ft <sup>3</sup> )	1223.3	1230.0	1254.7
Dry, Ideal (BTU/Ft <sup>3</sup> )	1240.6	1247.4	1272.3
Wet, Ideal (BTU/Ft <sup>3</sup> )	1219.0	1225.7	1250.2

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:** Corral 2S CS**Flare Date:** 06/24/2023**Duration of event:** 19 Hours 20 Minutes**MCF Flared:** 4404**Start Time:** 01:10 AM**End Time:** 08:30 PM**Cause:** Emergency Flare > Downstream Activity Issue > ETC > Equipment Issues**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This event was previously submitted under Major Event Notification # nAPP2317601022.  
Unable to submit an C129A amendment due to NMOCD error system issues

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**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 foresee, 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, ETC's compression facility was having repeated issues with their equipment, which in turn, caused high line pressure to occur several times throughout the day and triggered recurrent instances of flaring to occur at the Corral 2 South compressor station. Until ETC was able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy on several occasions. No advance warning was provided to Oxy personnel from ETC personnel regarding issues with their sales gas service pipeline system or issues with their compression equipment. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.

**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, 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. In this case, ETC's compression facility was having repeated issues with their equipment, which in turn, caused high line pressure to occur several times throughout the day and triggered recurrent instances of flaring to occur at the Corral 2 South compressor station. Until ETC was able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy on several occasions. As soon as flaring was triggered during each instance, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and assisted with ensuring field area's mitigation

optimizers cut injection rates to wells in the field to reduce injection and sales gas across the area. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.

### **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 ETC 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. ETC's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When ETC downstream facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, ETC then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the ETC gas pipeline, to suddenly and unexpectedly 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 its wells in a swift and diligent manner, to cease flaring.

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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 237681

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 237681
	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 237681

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	237681
	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	Unavailable.
Incident Facility	[fAPP2126640958] CORRAL #2 SOUTH COMP STATION

<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, 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 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Downstream Activity Issue > ETC > Equipment 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	78
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	0
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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 237681

QUESTIONS (continued)

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

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/24/2023
Time vent or flare was discovered or commenced	01:10 AM
Time vent or flare was terminated	08:30 PM
Cumulative hours during this event	19

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: 4,404 Mcf   Recovered: 0 Mcf   Lost: 4,404 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	[267255] ENERGY TRANSFER PARTNERS, LP
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 foresee, 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, ETC's compression facility was having repeated issues with their equipment, which in turn, caused high line pressure to occur several times throughout the day and triggered recurrent instances of flaring to occur at the Corral 2 South compressor station. Until ETC was able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy on several occasions. No advance warning was provided to Oxy personnel from ETC personnel regarding issues with their sales gas service pipeline system or issues with their compression equipment. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.
	It is OXY's policy to route all 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

Steps taken to limit the duration and magnitude of vent or flare	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. In this case, ETC's compression facility was having repeated issues with their equipment, which in turn, caused high line pressure to occur several times throughout the day and triggered recurrent instances of flaring to occur at the Corral 2 South compressor station. Until ETC was able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy on several occasions. As soon as flaring was triggered during each instance, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and assisted with ensuring field area's mitigation optimizers cut injection rates to wells in the field to reduce injection and sales gas across the area. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.
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 ETC 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. ETC's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When ETC downstream facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, ETC then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the ETC gas pipeline, to suddenly and unexpectedly 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 its wells in a swift and diligent manner, to cease flaring.

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ACKNOWLEDGMENTS

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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 <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

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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.	7/9/2023