Volumetrics Inc.
3710 East Rio Grande St, Victoria, TX-77901
Phone: 361-827-4024

Company:	OXY USA INC	**Work Order**	4000501489
Field/Location :	NMSW	**Sampled by:**	OXY/JE
Station Name :	CORRAL COMPRESSOR STA 2 SOUTH FUEL SKID OUTLE	**Sample Type :**	SPOT-CYLINDER
Station Number :	NA	**Sample Temperature (F):**	NA
Sample Date:	2/23/22 1:30 PM	**Sample Pressure (PSIG):**	125
Analysis Date:	3/7/22 11:00 AM	**Flow rate (MCF/Day):**	NA
Instrument:	INFICON	**Ambient Temperature (F):**	23
Calibration/Verification Date:	3/7/2022	**Sampling method:**	FILL & EMPTY
Heat Trace used:	YES	**Cylinder Number:**	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
Total	**97.3638**	**100.0000**			

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

Gross Heating Value	**14.650 psia**	**14.730 psia**	**15.025 psia**
Dry, Real (BTU/Ft^3)	1244.9	1251.8	1276.9
Wet, Real (BTU/Ft^3)	1223.3	1230.0	1254.7
Dry, Ideal (BTU/Ft^3)	1240.6	1247.4	1272.3
Wet, Ideal (BTU/Ft^3)	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 EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Corral 2S CS **Date:** 10/04/2022

Duration of event: 2 Hours 20 Minutes **MCF Flared:** 586

Start Time: 09:23 AM **End Time:** 11:43 AM

Cause: High Field Pressure > Well Surges

Method of Flared Gas Measurement: Gas Flare Meter

Comments: This report covers four (4) events within a 24-HR period with a combined time duration of 2 hours 20 minutes and a total MCF of 586.

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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. In this case, there were four (4) flaring episodes within a 24-hour period. Each of these flaring episodes were unforeseeable, unpreventable and unanticipated as wells surge from time to time, which is out of OXY's control to avoid or prevent from happening, yet OXY made every effort to control and minimize emissions as much as possible. Oxy routes its stranded gas to flare for several Corral area facilities at the Corral 2 South compressor station as the flare at this location can accommodate a higher volume of gas and as a safety measure effort to protect equipment, environment, and personnel. Listed below are brief episodes of well surges which triggered flaring to occur:

1. 09:23 AM to 09:53 AM – 30 minutes @ 103 MCF
2. 03:10 PM to 03:20 PM – 10 minutes @ 20 MCF
3. 07:20 PM to 08:10 PM – 50 minutes @ 225 MCF
4. 10:40 PM to 11:30 PM – 50 minutes @ 238 MCF

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 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 gas compressor unit and/or multiple unit shutdown, 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. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible.

In this case, Oxy field production techs received flaring compressor alarms notifications, when the four (4) flaring episodes occurred. Each of these flaring episodes were unforeseeable, unpreventable and unanticipated as wells surge from time to time, which is out of OXY's control to avoid or prevent from happening, yet OXY made every effort to control and minimize emissions as much as possible. As soon as flaring occurred during each occurrence, the facility's well optimizer very slowly adjusted injection rates and shut-in several wells to cease flaring. OXY makes every effort to control and minimize emissions as much as possible. Oxy routes its stranded gas to flare for several Corral area facilities at the Corral 2 South compressor station as the flare at this location can accommodate a higher volume of gas and as a safety measure effort to protect equipment, environment, and personnel. The facility's compression equipment was working normally and in good working operation prior to the wells surging and the field pressure rising which affected several Corral area facilities.

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

Oxy cannot eliminate the cause and potential reoccurrence of well surges, as wells will unpredictably surge from time to time, and therefore, is out of Oxy's control to prevent from happening or avoid yet, Oxy made every effort to control and minimize emissions as much as possible by routing its stranded gas to a flare with a 98% combustion efficiency. 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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 153191
	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 153191

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 153191
	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	*Not answered.*
Incident Facility	**[fAPP2126640958] CORRAL #2 SOUTH COMP STATION**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional 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, 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

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Well Surges > High Field Pressure

Representative Compositional Analysis of Vented or Flared Natural Gas	
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 (02) 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 (02) percentage quality requirement	*Not answered.*

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QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 153191
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/04/2022
Time vent or flare was discovered or commenced	09:23 AM
Time vent or flare was terminated	11:43 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: 586 Mcf | Recovered: 0 Mcf | Lost: 586 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	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 or prevented by good design, operation, and preventative maintenance practices. In this case, there were four (4) flaring episodes within a 24-hour period. Each of these flaring episodes were unforeseeable, unpreventable and unanticipated as wells surge from time to time, which is out of OXY's control to avoid or prevent from happening, yet OXY made every effort to control and minimize emissions as much as possible. Oxy routes its stranded gas to flare for several Corral area facilities at the Corral 2 South compressor station as the flare at this location can accommodate a higher volume of gas and as a safety measure effort to protect equipment, environment, and personnel. Listed below are brief episodes of well surges which triggered flaring to occur: 1. 09:23 AM to 09:53 AM – 30 minutes @ 103 MCF 2. 03:10 PM to 03:20 PM – 10 minutes @ 20 MCF 3. 07:20 PM to 08:10 PM – 50 minutes @ 225 MCF 4. 10:40 PM to 11:30 PM – 50 minutes @ 238 MCF
Steps taken to limit the duration and magnitude of vent or flare	In this case, Oxy field production techs received flaring compressor alarms notifications, when the four (4) flaring episodes occurred. Each of these flaring episodes were unforeseeable, unpreventable and unanticipated as wells surge from time to time, which is out of OXY's control to avoid or prevent from happening, yet OXY made every effort to control and minimize emissions as much as possible. As soon as flaring occurred during each occurrence, the facility’s well optimizer very slowly adjusted injection rates and shut-in several wells to cease flaring. OXY makes every effort to control and minimize emissions as much as possible. Oxy routes its stranded gas to flare for several Corral area facilities at the Corral 2 South compressor station as the flare at this location can accommodate a higher volume of gas and as a safety measure effort to protect equipment, environment, and personnel. The facility’s compression equipment was working normally and in good working operation prior to the wells surging and the field pressure rising which affected several Corral area facilities.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy cannot eliminate the cause and potential reoccurrence of well surges, as wells will unpredictably surge from time to time, and therefore, is out of Oxy’s control to prevent from happening or avoid yet, Oxy made every effort to control and minimize emissions as much as possible by routing its stranded gas to a flare with a 98% combustion efficiency. 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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ACKNOWLEDGMENTS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 153191
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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 153191

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 153191
	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.	10/24/2022