



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 FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Corral 2S CS**Flare Date:** 07/23/2022**Duration of event:** 17 Hours 29 Minutes**MCF Flared:** 577**Start Time:** 06:00 AM**End Time:** 11:29 PM**Cause:** Numerous Sporadic Well Surges**Method of Flared Gas Measurement:** Gas Flare Meter

Comments: This event consists of three separate episodes of flaring within a 24-hour period due to wells were sporadically surging off and on throughout most of day and night. Flaring episodes: (1) 06:00 AM to 12:00 PM @ 280 MCF, (2) 12:00 PM to 05:30 PM @ 100 MCF, (3) 06:00 PM to 11:29 PM @ 197 MCF.

1. Reason why this event was beyond Operator's control:

In this case, sales gas had to be flared rather than be compressed due to wells flowing to the facility began surging more gas than the compressors engines could handle, which in turn, triggered intermittent flaring to occur. There were three episodes of flaring within a 24-Hour period due to wells were sporadically surging on and off throughout most of the day and night. The first episode of intermittent flaring occurred approximately from 06:00 AM to 12:00 PM, the second episode approximately from 12:00 PM to 05:30 PM and the final episode from 06:00 PM to 11:59 PM. In the first episode of flaring, Oxy production techs received flaring alarms and upon arrival to the facility began inspecting the equipment and finding no issues then checked the well monitor program, which indicated the wells were surging. Oxy production techs immediately began manually adjusting well pressure gas rates while another Oxy production tech began making arrangements with additional field personnel to choke back several wells at the well heads by adjusting the pressure control valves on the flow lines. The same process occurred during the second and third episodes of flaring. These instances of intermittent flaring are unforeseeable and unanticipated as wells surge from time to time, with no warning or slightest indication of such is to occur, which is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. Oxy production techs remained on-site and rotated when necessary throughout the day and night, even during shift change, to continually monitor the well program so that manual adjustments of the well pressure gas rates could be done whenever the well surges overloaded the facility's compression equipment.

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, sales gas had to be flared rather than be compressed due to wells flowing to the facility began surging more gas than the compressors engines could handle, which in turn, triggered intermittent flaring to occur. There were three episodes of flaring within a 24-Hour period due to wells were sporadically surging on and off throughout most of the day and night. The first episode of intermittent flaring occurred approximately from 06:00 AM to 12:00 PM, the second episode approximately from 12:00 PM to 05:30 PM and the final episode from 06:00 PM to 11:59 PM. In the first episode of flaring, Oxy production techs received flaring alarms and upon arrival to the facility began inspecting the equipment and finding no issues then checked the well monitor program, which indicated the wells were surging. Oxy production techs immediately began manually adjusting well pressure gas rates while another Oxy production tech began making arrangements with additional field personnel to choke back several wells at the well heads by adjusting the pressure control valves on the flow lines. The same process occurred during the second and third episodes of flaring. Oxy production techs remained on-site and rotated when necessary throughout the day and night, even during shift change, to continually monitor the well program so that manual adjustments of the well pressure gas rates could be done whenever the well surges overloaded the facility's compression equipment. Each instance of adjustment takes a bit of time to perform, and flaring instances occurred approximately ranging from 05 minutes to 15 minutes, dependent on the number of wells surging. These instances of intermittent flaring are unforeseeable and unanticipated as wells surge from time to time, with no warning or slightest indication of such is to occur, which is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible.

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 wells surging from time to time and overloading compression equipment. Well surges can occur at any moment, without warning, which is out of OXY's control. OXY makes every effort to control and minimize emissions as much as possible when well surges occur.

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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 131911

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 131911
	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">• 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 131911

QUESTIONS

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	Action Number: 131911
	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 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

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Numerous Sporadic Well Surges

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 (CO2) 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 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 131911

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/23/2022
Time vent or flare was discovered or commenced	06:00 AM
Time vent or flare was terminated	11:29 PM
Cumulative hours during this event	18

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: 577 Mcf Recovered: 0 Mcf Lost: 577 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	In this case, sales gas had to be flared rather than be compressed due to wells flowing to the facility began surging more gas than the compressors engines could handle, which in turn, triggered intermittent flaring to occur. There were three episodes of flaring within a 24-Hour period due to wells were sporadically surging on and off throughout most of the day and night. The first episode of intermittent flaring occurred approximately from 06:00 AM to 12:00 PM, the second episode approximately from 12:00 PM to 05:30 PM and the final episode from 06:00 PM to 11:59 PM. In the first episode of flaring, Oxy production techs Oxy production techs received flaring alarms and upon arrival to the facility began inspecting the equipment and finding no issues then checked the well monitor program, which indicated the wells were surging. Oxy production techs immediately began manually adjusting well pressure gas rates while another Oxy production tech began making arrangements with additional field personnel to choke back several wells at the well heads by adjusting the pressure control valves on the flow lines. The same process occurred during the second and third episodes of flaring. These instances of intermittent flaring are unforeseeable and unanticipated as wells surge from time to time, with no warning or slightest indication of such is to occur, which is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. Oxy production techs remained on-site and rotated when necessary throughout the day and night, even during shift change, to continually monitor the well program so that manual adjustments of the well pressure gas rates could be done whenever the well surges overloaded the facility's compression equipment.
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, sales gas had to be flared rather than be compressed due to wells flowing to the facility began surging more gas than the compressors engines could handle, which in turn, triggered intermittent flaring to occur. There were three episodes of flaring within a 24-Hour period due to wells were sporadically surging on and off throughout most of the day and night. The first episode of intermittent flaring occurred approximately from 06:00 AM to 12:00 PM, the second episode approximately from 12:00 PM to 05:30 PM and the final episode from 06:00 PM to 11:59 PM. In the first episode of flaring, Oxy production techs Oxy production techs received flaring alarms and upon arrival to the facility began inspecting the equipment and finding no issues then checked the well monitor program, which indicated the wells were surging. Oxy production techs immediately began manually adjusting well pressure gas rates while another Oxy production tech began making arrangements with additional field personnel to choke back several wells at the well heads by adjusting the pressure control valves on the flow lines.
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 wells surging from time to time and overloading compression equipment. Well surges can occur at any moment, without warning, which is out of OXY's control. OXY makes every effort to control and minimize emissions as much as possible when well surges occur.

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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 complete 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 131911

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	Action Number: 131911
	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.	8/6/2022