



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**Date:** 07/18/2022**Duration of event:** 1 Hour 30 Minutes**MCF Flared:** 179**Start Time:** 11:00 AM**End Time:** 12:30 PM**Cause:** GL Back Pressure Setting > Enterprise > Sales Pipeline Take-away Point > Setting Alteration**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:

In this case, there was a two-fold basis for this flaring event to have occurred. Firstly, the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, was set to a higher setting of 1250 lbs. rather than its typical setting of 1225 lbs. Secondly, while bringing on new wedge production from a separate facility, the volume of gas increased more than anticipated, which then instigated high discharge sales pipeline pressure to transpire. As a result of the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, being altered to a higher GL back-pressure level, this in turn, prompted the compression equipment at both the Corral 2 South and Corral 2 North compressor station facilities to continually recycle gas brought on by the high discharge sales pipeline pressure, which then triggered a flaring event to occur. Once flaring began, Oxy production techs began inspecting facility equipment to determine the basis of the compression equipment continually recycling gas and it was soon discovered that the GL back-pressure setting for the Enterprise sales pipeline, specifically at the sales pipeline take-away point, was inadvertently changed from 1225 lbs. to 1250 lbs. Oxy production techs did not previously adjust the GL back-pressure setting for the Enterprise sales gas pipeline to its normal setting of 1225 lbs., prior to the new wedge production being brought on, as they believed the higher setting to be correct. Once it was communicated and known that the GL back-pressure setting for the Enterprise sales gas pipeline was higher than normal, the setting was reset to the standard 1225 lbs. Soon after the GL back-pressure setting for the Enterprise sales gas pipeline was reset to its standard setting, the compression equipment at both the Corral 2 South and Corral 2 North compressor station facilities stopped recycling gas and flaring ceased soon after. All Oxy's facility equipment were operating as designed prior to the flaring event occurring. Additionally, the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, was entered into operation equipment maintenance notes, that its setting should remain at 1225 lbs. with no changes to such going forward. Though sudden and unexpected issues also occurred at the Corral 2 North compressor station, OXY routed the overflow of stranded gas to flare at the Corral 2 South compressor station to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and in an effort to protect equipment, environment, and personnel.

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. 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, there was a two-fold basis for this flaring event to have occurred. Firstly, the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, was set to a higher setting of 1250 lbs. rather than its typical setting of 1225 lbs. Secondly, while bringing on new wedge production from a separate facility, the volume of gas increased more than anticipated, which then instigated high discharge sales pipeline pressure to transpire. As a result of the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, being altered to a higher GL back-pressure level, this in turn, prompted the compression equipment at both the Corral 2 South and Corral 2 North compressor station facilities to continually recycle gas brought on by the high discharge sales pipeline pressure, which then triggered a flaring event to occur. Once flaring began, Oxy production techs began inspecting facility equipment to determine the basis of the compression equipment continually recycling gas and it was soon discovered that the GL back-pressure setting for the Enterprise sales pipeline, specifically at the sales pipeline take-away point, was inadvertently changed from 1225 lbs. to 1250 lbs. Oxy production techs did not previously adjust the GL back-pressure setting for the Enterprise sales gas pipeline to its normal setting of 1225 lbs., prior to the new wedge production being brought on, as they believed the higher setting to be correct. Once it was communicated and known that the GL back-pressure setting for the Enterprise sales gas pipeline was higher than normal, the setting was reset to the standard 1225 lbs. Soon after the GL back-pressure setting for the Enterprise sales gas pipeline was reset to its standard setting, the compression equipment at both the Corral 2 South and Corral 2 North compressor station facilities stopped recycling gas and flaring ceased soon after. All Oxy's facility equipment were operating as designed prior to the flaring event occurring. Additionally, the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, was entered into operation equipment maintenance accounts, that its setting should remain at 1225 lbs. with no changes to such going forward. Though sudden and unexpected issues also occurred at the Corral 2 North compressor station, OXY routed the overflow of stranded gas to flare at the Corral 2 South compressor station to mitigate emissions for this event as the flare at this location can accommodate a higher volume of gas and to protect equipment, environment, and personnel.

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

The only corrective action that Oxy can take to eliminate the cause and potential reoccurrence of a GL back pressure setting adjustment is for the standing pressure setting to be entered into the operation maintenance equipment notes and that its pressure setting should remain at 1225 lbs. with no changes to such going forward. Additionally, such standard setting for this GL back-pressure setting for the Enterprise sales pipeline, specifically at the sales pipeline take-away point, will be communicated to field personnel. OXY makes every effort to control and minimize emissions as much as possible.

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
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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 130916

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 130916
	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 130916

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 130916
	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	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 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 > GL Back Pressure Setting > Enterprise > Sales Pipeline Take-away Point > Setting Alteration

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 130916

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	130916
Action Type:	
[C-129] Venting and/or Flaring (C-129)	

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/18/2022
Time vent or flare was discovered or commenced	11:00 AM
Time vent or flare was terminated	12:30 PM
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: 179 Mcf Recovered: 0 Mcf Lost: 179 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, there was a two-fold basis for this flaring event to have occurred. Firstly, the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, was set to a higher setting of 1250 lbs. rather than its typical setting of 1225 lbs. Secondly, while bringing on new wedge production from a separate facility, the volume of gas increased more than anticipated, which then instigated high discharge sales pipeline pressure to transpire. As a result of the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, being altered to a higher GL back-pressure level, this in turn, prompted the compression equipment at both the Corral 2 South and Corral 2 North compressor station facilities to continually recycle gas brought on by the high discharge sales pipeline pressure, which then triggered a flaring event to occur. Once flaring began, Oxy production techs began inspecting facility equipment to determine the basis of the compression equipment continually recycling gas and it was soon discovered that the GL back-pressure setting for the Enterprise sales pipeline, specifically at the sales pipeline take-away point, was inadvertently changed from 1225 lbs. to 1250 lbs. Oxy production techs did not previously adjust the GL back-pressure setting for the Enterprise sales gas pipeline to its normal setting of 1225 lbs., prior to the new wedge production being brought on, as they believed the higher setting to be correct. Once it was communicated and known that the GL back-pressure setting for the Enterprise sales gas pipeline was higher than normal, the setting was reset to the standard 1225 lbs. Soon after the GL back-pressure setting for the Enterprise sales gas pipeline was reset to its standard setting, the compression equipment at both the Corral 2 South and Corral 2 North compressor station facilities stopped recycling gas and flaring ceased soon after.
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. 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. 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, there was a two-fold basis for this flaring event to have occurred. Firstly, the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, was set to a higher setting of 1250 lbs. rather than its typical setting of 1225 lbs. Secondly, while bringing on new wedge production from a separate facility, the volume of gas increased more than anticipated, which then instigated high discharge sales pipeline pressure to transpire. As a result of the GL back-pressure setting for the Enterprise sales gas pipeline, specifically at the sales pipeline take-away point, being altered to a higher GL back-pressure level, this in turn, prompted the compression equipment at both the Corral 2 South and Corral 2 North compressor station facilities to continually recycle gas brought on by the high discharge sales pipeline pressure, which then triggered a flaring event to occur.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The only corrective action that Oxy can take to eliminate the cause and potential reoccurrence of a GL back pressure setting adjustment is for the standing pressure setting to be entered into the operation maintenance equipment notes and that its pressure setting should remain at 1225 lbs. with no changes to such going forward. Additionally, such standard setting for this GL back-pressure setting for the Enterprise sales pipeline, specifically at the sales pipeline take-away point, will be communicated to field personnel. OXY makes every effort to control and minimize emissions as much as possible.

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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

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	Action Number: 130916
	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.	8/2/2022