

Volumetrics Inc.

3710 East Rio Grande St, Victoria, TX-77901

Phone: 361-827-4024

Work Order Company: OXY USA INC 4000501489 Field/Location: **NMSW** Sampled by: OXY/JE SPOT-CYLINDER

Station Name: CORRAL COMPRESSOR STA 2 SOUTH FUEL SKID OUTLE Sample Type:

Sample Temperature (F): Station Number: NA Sample Pressure (PSIG): Sample Date: 2/23/22 1:30 PM 125 **Analysis Date:** 3/7/22 11:00 AM Flow rate (MCF/Day): NA Instrument: INFICON Ambient Temperature (F): 23

Sampling method: Calibration/Verification Date: 3/7/2022 FILL & EMPTY

Cylinder Number: Heat Trace used: YES 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	1270.9
			_
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 CS 2S Flare Date: 07/16/2022

Duration of event: 2 Hours MCF Flared: 1621

Start Time: 02:00 AM End Time: 04:00 AM

Cause: ETC > Shut In > High O2

Method of Flared Gas Measurement: Gas Flare Meter

Comments: 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.

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 downstream pipeline operator, which impacted Oxy's ability to send gas to a third-party downstream gas pipeline. This interruption, restriction, or complete shutin 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 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, Oxy production technicians and contract flow-back personnel were bringing on a new drill well, Corral Gorge 38H, and during this process of sending initial production to the Corral Gorge CTB, oxygen was inadvertently present and introduced into the Corral Gorge facility from the fresh water that was used to hydro-test the flowlines. When the oxygen was inadvertently introduced into the sales gas pipeline, this caused the sales gas to be out of (ETC) pipe-line operator's specs and ETC's pipeline sales valve automatically closed when the oxygen was detected. As a result of ETC's pipeline sales valve detecting the oxygen within the sales gas service pipeline and its valve shutting in, ETC pipeline was shut in to Oxy until OXY's personnel were able to clear the oxygen from the gas stream for safety reasons. The Oxy production technicians and the contract flow back personnel presumed that they had satisfactorily purged all the oxygen from the Corral Gorge 38H flow lines before sending the production forward to the CTB. ETC was notified of the situation and the ESD of their pipeline sales valve shutting in due to oxygen being detected in the sales line. ETC was informed Oxy personnel were purging the line of the oxygen and ETC dispatched a technician to re-open the sales valve once the line was cleared of oxygen. Though sudden and unexpected issues occurred involving the Corral Gorge facility and the Corral Gorge 38H drilling well, OXY routed the overflow of stranded gas to flare at the Corral 2S 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:

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, Oxy production technicians and contract flow-back personnel were bringing on a new drill well, Corral Gorge 38H, and during this process of sending initial production to the Corral Gorge CTB, oxygen was inadvertently present and introduced into the Corral Gorge facility from the fresh water that was used to hydro-test the flowlines. When the oxygen was inadvertently introduced into the sales gas pipeline, this caused the sales gas to be out of (ETC) pipe-line operator's specs and ETC's pipeline sales valve automatically closed when the oxygen was detected. As a result of ETC's pipeline sales valve detecting the oxygen within the sales gas service pipeline and its valve shutting in, ETC pipeline was shut in to Oxy until OXY's personnel were able to clear the oxygen from the gas stream for safety reasons. The Oxy production technicians and the contract flow back personnel presumed that they had satisfactorily purged all the oxygen from the Corral Gorge 38H flow lines before sending the production forward to the CTB. ETC was notified of the situation and the ESD of their pipeline sales valve shutting in due to oxygen being detected in the sales line. ETC was informed Oxy personnel were purging the line of the oxygen and ETC dispatched a technician to re-open the sales valve once the line was cleared of oxygen. Though sudden and unexpected issues occurred involving the Corral Gorge facility and the Corral Gorge 38H drilling well, OXY routed the overflow of stranded gas to flare at the Corral 2S 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.

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

OXY makes every effort to control and minimize emissions as much as possible during a flaring event. In this case, the corrective action that Oxy can take to eliminate the potential cause and reoccurrence of oxygen being introduced in the gas stream from a drilling well is to have Oxy engineers calculate purging volumes for drilling well flow lines to ensure all oxygen is purged from the flowlines satisfactorily.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

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

1220 S. St Francis Dr., Santa Fe, NM 87505 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 130136

DEFINITIONS

Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	130136	
	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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<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 130136

Phone:(505) 476-3470 Fax:(505) 476-3462			
٥	UESTIONS		
Operator:		OGRID:	
OXY USA INC		16696	
P.O. Box 4294 Houston, TX 772104294		Action Number: 130136	
11000011, 174.172.10.120.1	-	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.	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 at			
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 fla	aring of natural gas.	
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during v	enting and/or flaring that is or may b	e 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	No		
watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water			
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	No		
existence			
Equipment Involved			
Primary Equipment Involved	Other (Specify)		
1 mary Equipment involved	Other (Specify)	Cultin (opcomy)	
Additional details for Equipment Involved. Please specify	Emorgonov Floro > ETC > Sh	out In > High O2	
Additional details for Equipment involved. I lease speeing	Emergency Flare > ETC > Shut In > High O2		
	<u> </u>		
Representative Compositional Analysis of Vented or Flared Natural Gas			
Please provide the mole percent for the percentage questions in this group.	T		
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 spec	ifications 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 Diovide (CO2) percentage quality requirement	Not answared	-	

Not answered.

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 130136

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	130136
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	07/16/2022	
Time vent or flare was discovered or commenced	02:00 AM	
Time vent or flare was terminated	04:00 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: 1,621 Mcf Recovered: 0 Mcf Lost: 1,621 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, Oxy production technicians and contract flow-back personnel were bringing on a new drill well, Corral Gorge 38H, and during this process of sending initial production to the Corral Gorge CTB, oxygen was inadvertently present and introduced into the Corral Gorge facility from the fresh water that was used to hydro-test the flowlines. When the oxygen was inadvertently introduced into the sales gas pipeline, this caused the sales gas to be out of (ETC) pipe-line operator's specs and ETC's pipeline sales valve automatically closed when the oxygen was detected. As a result of ETC's pipeline sales valve detecting the oxygen withir the sales gas service pipeline and its valve shutting in, ETC pipeline was shut in to Oxy until OXY's personnel were able to clear the oxygen from the gas stream for safety reasons. The Oxy production technicians and the contract flow back personnel presumed that they had satisfactorily purged all the oxygen from the Corral Gorge 38H flow lines before sending the production forward to the CTB. ETC was notified of the situation and the ESD of their pipeline sales valve shutting in due to oxygen being detected in the sales line. ETC was informed Oxy personnel were purging the line of the oxygen and ETC dispatched a technician to re-open the sales valve once the line was cleared of oxygen. Though sudden and unexpected issues occurred involving the Corral Gorge facility and the Corral Gorge 38H drilling well, OXY routed the overflow of stranded gas to flare at the Corral 2S 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.	
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, Oxy production technicians and contract flow-back personnel were bringing on a new drill well, Corral Gorge 38H, and during this process of sending initial production to the Corral Gorge CTB, oxygen was inadvertently present and introduced into the Corral Gorge facility from the fresh water that was used to hydro-test the flowlines. When the oxygen was inadvertently introduced into the sales gas pipeline, this caused the sales gas to be out of (ETC) pipe-line operator's specs and ETC's pipeline sales valve automatically closed when the oxygen was detected. As a result of ETC's pipeline sales valve detecting the oxygen within the sales gas service pipeline and its valve shutting in, ETC pipeline was shut in to Oxy until OXY's personnel were able to clear the oxygen from the gas stream for safety reasons. The Oxy production technicians and the contract flow back personnel presumed that they had satisfactorily purged all the oxygen from the Corral Gorge 38H flow lines before sending the production forward to the CTB.	
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	OXY makes every effort to control and minimize emissions as much as possible during a flaring event. In this case, the corrective action that Oxy can take to eliminate the potential cause and reoccurrence of oxygen being introduced in the gas stream from a drilling well is to have Oxy engineers calculate purging volumes for drilling well flow lines to ensure all oxygen is purged from the flowlines satisfactorily.	

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ACKNOWLEDGMENTS

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Houston, TX 772104294	130136
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

✓	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.
V	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.
V	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.
V	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.
V	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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P.O. Box 4294	Action Number:
Houston, TX 772104294	130136
	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.	8/1/2022