

Station Number:

Sample Date:

Analysis Date:

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

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

Cylinder Number: Heat Trace used: YES 27784

NATURAL GAS ANALYSIS: GPA 2261

	Un-Normalized	Normalized	GPM	GРM	GPM
Components	Mol%	Mol%	14.650	14.730	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	07.2620	400 0000			

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: 10/05/2023

Duration of Event: 2 Hours 50 Minutes **MCF Flared:** 442

Start Time: 01:50 AM End Time: 04:40 AM

Cause: Emergency Flare > Compression Equipment Malfunctions > Corral 2 South CS & Corral 2 North CS

Method of Flared Gas Measurement: Gas Flare Meter

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 by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, several gas compressors at the Corral 2 South compressor station and Corral 2 North compressor station, simultaneously and unexpectedly malfunctioned, which then prompted automatic shutdowns of the units, which in turn caused the field to pressure up several times within a 24-hr period, which triggered intermittent flaring events to occur. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. All other compression at the facility was operating as designed and were running normally prior to this event occurring. Though sudden and unexpected malfunctioning compressor issues also occurred at the Corral North compressor station, 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 to protect equipment, environment, and personnel. The duration and volume of this event is a collective of all flaring instances within a 24-period.

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 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, several gas compressors at the Corral 2 South compressor station and Corral 2 North compressor station, simultaneously and unexpectedly malfunctioned, which then prompted automatic shutdowns of the units, which in turn caused the field to pressure up several times within a 24-hr period, which triggered intermittent flaring events to occur. As soon as flaring began during each brief intermittent occurrence, the facility's mitigation optimizer adjusted injection rates and shut in several wells to minimize emissions and cease flaring. Oxy production techs were able to arrive on-site during all the compressor malfunctions at both the Corral 2 South compressor station and Corral 2 North compressor station to clear the alarm panels and restart compression equipment. 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 the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.

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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 284939

DEFINITIONS

Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	284939	
	Action Type:	
	[C-129] Amend Venting and/or Flaring (C-129A)	

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 284939

QUESTIONS

	JEG HONG		
Operator: OXY USA INC		OGRID: 16696	
P.O. Box 4294			
Houston, TX 772104294		Action Number:	
Housion, 1X 772104294		284939	
		Action Type: [C-129] Amend Venting and/or Flaring (C-129A)	
QUESTIONS			
Prerequisites			
Any messages presented in this section, will prevent submission of this application. Please resolve to	hese issues before contin	nuing with the rest of the questions.	
Incident Operator	[16696] OXY USA IN	[16696] OXY USA INC	
Incident Type	Flare		
Incident Status	Closure Approved		
Incident Well	Unavailable.		
Incident Facility	[fAPP2126640958] CORRAL #2 SOUTH COMP STATION		
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section	n) that are assigned to yo	our current operator can be amended with this C-129A application.	
Determination of Reporting Requirements			
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers an	d may provide addional g	uidance.	
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	No		
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)		

Equipment Involved		
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency Flare > Compression Equipment Malfunctions > Corral 2 South CS & Corral 2 North CS	

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	0	
Nitrogen (N2) percentage quality requirement	0	
Hydrogen Sufide (H2S) PPM quality requirement	0	
Carbon Dioxide (C02) percentage quality requirement	0	
Oxygen (02) percentage quality requirement	0	

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Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u>

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> OXY USA INC P.O. Box 4294 Houston, TX 772104294

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

QUESTIONS, Page 2

Action 284939

QUESTIONS (continued)	
	OGRID:
	16696
	Action Number:

284939

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

QUESTIONS

Operator:

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	10/05/2023	
Time vent or flare was discovered or commenced	01:50 AM	
Time vent or flare was terminated	04:40 AM	
Cumulative hours during this event	3	

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: 442 MCF Recovered: 0 MCF Lost: 442 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	No
Downstream OGRID that should have notified this operator	0
Date notified of downstream activity requiring this vent or flare	
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	
	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 by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, several gas compressors at the Corral 2 South compressor station and Corral 2 North compressor station, simultaneously and unexpectedly malfunctioned, which then prompted automatic shutdowns of the units, which is two covered the field to procure unexpected the processor.	

Please explain reason for why this event was beyond this operator's control

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 by good design, operation, and preventative maintenance practices. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, several gas compressors at the Corral 2 South compressor station and Corral 2 North compressor station, simultaneously and unexpectedly malfunctioned, which then prompted automatic shutdowns of the units, which in turn caused the field to pressure up several times within a 24-hr period, which triggered intermittent flaring events to occur. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. All other compression at the facility was operating as designed and were running normally prior to this event occurring.

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ACKNOWLEDGMENTS

Action 284939

ACKNOWLEDGMENTS

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P.O. Box 4294	Action Number:	
Houston, TX 772104294	284939	
	Action Type:	
	[C-129] Amend Venting and/or Flaring (C-129A)	

ACKNOWLEDGMENTS

\checkmark	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.		
V	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.		
V	I hereby certify the statements in this amending 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 and/or regulations.		

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CONDITIONS

Action 284939

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	284939
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
shelbyschoepf	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	11/13/2023