

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 :NASample Temperature (F):NASample Date:2/23/22 1:30 PMSample Pressure (PSIG):125Analysis Date:3/7/22 11:00 AMFlow rate (MCF/Day):NAInstrument:Instrument: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

Deann Friend Laboratory Manager

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Corral 2 South CS Flare Date: 01/04/2023

Duration of event: 2 Hours **MCF Flared:** 1517

Start Time: 12:00 PM End Time: 02:00 PM

Cause: Emergency Flare > Power Outage > Third Party Electric Provider > Xcel Power

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:

This event was caused by the sudden, 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 maintenance practices. In this case, flaring was caused by a planned third-party power provider's, Xcel Energy, power outage. Oxy facility personnel were able to operate the compressor station and surrounding facility's off of backup power, but the power outage prompted the electric air compressors to go down and back-up compressors could not be started, which in turn also caused all of the compression equipment at the Corral 1 South compressor station to malfunction and shut down. Well optimizers adjusted injection rates and shut in some wells to help with flaring emissions. Since the gas compression equipment was shutdown at both Corral 1 South and Corral 2 South compressor station, there was no gas takeaway, and thus field psi increased until set psi levels were reached, which in turn, triggered flaring at Corral 2 South, as the flare at this location can accommodate a higher volume of gas and in an effort to protect equipment, environment, and personnel. This incident was completely out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently during this event.

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, flaring was caused by a planned third-party power provider's, Xcel Energy, power outage. Oxy facility personnel were able to operate the compressor station and surrounding facility's off of backup power, but the power outage prompted the electric air compressors to go down and back-up compressors could not be started, which in turn also caused all of the compression equipment at the Corral 1 South compressor station to

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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, especially during extreme weather conditions and temperatures. Oxy continually strives to maintain and operate its facility 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 keep continue with its compression equipment preventative maintenance program for this unit and continue to monitor the methanol injection rates for the equipment at this facility.

District III

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

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 180448

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	180448
	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 180448

QUESTIONS

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Houston, TX 772104294	180448
	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 these issues before continuing with the rest of the questions.		
Incident Operator	[16696] OXY USA INC	
Incident Type	Flare	
Incident Status	Closure Not 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) that are assigned to your current operator can be amended with this C-129A application.		

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 > Power Outage > Third Party Electric Provider > Xcel Power	

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.	

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QUESTIONS, Page 2

Action 180448

QUESTIONS (continued)

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	[C-129] Amend Venting and/or Flaring (C-129A)
OUECTIONS	

QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced 01/04/2023		
Time vent or flare was discovered or commenced	12:00 PM	
Time vent or flare was terminated	02:00 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: 1,517 Mcf Recovered: 0 Mcf Lost: 1,517 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			
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 event was caused by the sudden, 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 maintenance practices. In this case, flaring was caused by a planned third-party power provider's, Xcel Energy, power outage. Oxy facility personnel were able to operate the compressor station and surrounding facility's off of backup power, but the power outage prompted the electric air compressors to go down and back-up compressors could not be started, which in turn also caused all of the compression equipment at the Corral 1 South compressor station to malfunction and shut down. Well optimizers adjusted injection rates and shut in some wells to help with flaring emissions. Since the gas compression equipment was shutdown at both Corral 1 South and Corral 2 South compressor station, there was no gas takeaway, and thus field psi increased until set psi levels were reached, which in turn, triggered flaring at Corral 2 South, as the flare at this location can accommodate a higher volume of gas and in an effort to protect equipment, environment, and personnel. This incident was completely out of OXY's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event by working safely and diligently during this event.			
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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

$\overline{\checkmark}$	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 19.15.28 NMAC.
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 laws and/or regulations.

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
marialuna2	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.	1/29/2023