# OCCIDENTAL PERMIAN LTD.

Event ID: 114701 Reporting Employee: RICHARD ALVARADO

Lease Name:NORTH HOBBS UNIT RCF/WIBAccount Number:2415

Equipment:RCF FLARENSR Permit Number:2656-M5EPN:RCF - FLR - MALFTitle V Permit Number:

EPN Name FACILITY WIDE MALFUNCTIONS Reg Lease Number:

Flare Point: RCF-FLR-MALF

**Explanation of the Cause:** 

THE NORTH PLANT FLARED DUE TO A POWER OUTAGE AND SHUT DOWN ALL TRAINS DUE TO A STORM.

**Event Type** 

Malfunction Malfunction Malfunction

**Corrective Actions Taken to Minimize Emissions:** 

OPERATIONS WORKED EFFICIENTLY TO GET THE UNITS BACK ONLINE AS SOON AS THE INLET RATES CAME BACK UP.

Actions taken to prevent recurrence:

OPERATIONS WORKED EFFICIENTLY TO GET THE UNITS BACK ONLINE AS SOON AS THE INLET RATES CAME BACK UP.

Emission Start Date	Emission End Date	Duration
7/2/2021 6:01:00 PM	7/2/2021 8:49:00 PM	2:48 hh:mm

#### **NMED**

Pollutant	Duration	Avging	Excess	Number of	Permit	Average E	mission	Total	Tons Per Year		
	(hh:mm)	Period	Emission	Exceedances	Limit	Rate	e	Pounds	Total	Next Drop off Date	Date Permit Exceeded
CO	2:48	1	0 LBS	0	152.10	45.6	LBS/HR	127.7	1.573483	4/20/2022	
H2S	2:48	1	0 LBS	0	14.60	2.88	LBS/HR	8.08	0.102453	4/20/2022	
NOX	2:48	1	0 LBS	0	27.10	5.31	LBS/HR	14.89	0.183517	4/20/2022	
SO2	2:48	1	0 LBS	0	1372.10	266.18	LBS/HR	745.32	9.449727	4/20/2022	
VOC	2:48	1	0 LBS	0	216.70	23	LBS/HR	64.4	0.821664	4/20/2022	

Reporting Status: Non-Reportable

### **NMOCD**

Flare Stream Total	Total MCF	EPN	Latitude	Longitude	Reporting Status	1
573 <b>MCF</b>	677 <b>MCF</b>	FACILITY WIDE MALFUNCTI	32°43'14.96"	103°11'59.65"	Major Release	

Range

### **LEPC**

**Total MCF** 

**H2S** %

677	0.786	
Pollutant	Emission rate	Reportable Qty
SO2	745.32 LBS/DAY	500 LBS/DAY
SO2	745.32 LBS/DAY	500 LBS/DAY
SO2	745.32 LBS/DAY	500 LBS/DAY

Reporting Status: Reportable

#### **Emissions Calculations:**

NOx = MCF flared x NOx factor from RG-109 x BTU/scf x 1000 scf/MCF x MMBTU/1000000 BTU CO = MCF flared x CO factor from RG-109 x BTU/scf x 1000 scf/MCF x MMBTU/1000000 BTU Gas was flared to reduce the hydrocarbon and/or H2S emissions to the atmosphere.

Unit Letter | Section | Township

NMNE NG = MCF flared x 50 lb/mole x mole/.379 MCF x mol % NMNE NG x 0.02

NMNE NG % = 100% - Methane % - Ethane % - Carbon Dioxide % - Nitrogen %

H2S = MCF flared x 34 lb/mole x mole/.379 MCF x mol % H2S/100 x 0.02

SO2 = MCF flared x 64 lb/mole x mole/.379 MCF x mol % H2S/100 x 0.98

Released to Imaging: 7/13/2021 8:47:20 AM

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### **EVENT SPECIFIC JUSTIFICATIONS FORM**

Facility: North Hobbs Unit

Cause: THE NORTH PLANT FLARED DUE TO A POWER OUTAGE AND SHUT DOWN ALL TRAINS DUE TO

A STORM.

**Duration of event:** 0:54 hrs Intermittently

Method of Flared Gas Measurement: Flare Meter

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

The 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. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.

This event was a sudden and unforeseeable compressor malfunction of the North Plant Unit. Oxy operators were alerted to a malfunction of all compressors malfunctioning of the unit due to severe storms. After inspecting and troubleshooting the compressor units, operations brought the unit back to normal working service. OXY personnel were in place and available at the facility location when compressor unit was returned to working service.

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 made every effort to control and minimize emissions as much as possible during this event.

### 2. Steps Taken to limit duration and magnitude of venting or flaring:

The 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. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.

In this case, the steps taken to limit duration and magnitude of flaring was for Oxy operators to quickly respond to the compression equipment malfunction alarms by quickly contacting the field of that a malfunction alarm was occurring. In addition to the compressors shutting down, OXY routed all the stranded sales gas to a flare with a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure the flame is lit and meeting opacity requirements. After inspecting and troubleshooting the compressor unit, operations brought the unit back to normal working service.

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 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:

The 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. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure the flame is lit and meeting opacity requirements.

Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of compressor malfunctions 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 its facility equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. The North Plant was working as designed and operated normally prior to the sudden and without warning malfunction of the compressor units. Oxy has a strong and positive compression equipment preventative maintenance program in place. This incident was completely out of OXY's control to prevent from happening as it was determined the malfunction occurred due to severe storms. OXY made every effort to control and minimize emissions as much as possible during this event. 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.

<u>District I</u> 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** 

QUESTIONS

Action 36141

#### **QUESTIONS**

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	36141
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### QUESTIONS

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 or is this venting or flaring caused by an emergency or malfunction	Yes	
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No	
Is this considered a submission for a notification of a major venting or flaring	Yes, major venting or flaring of natural gas.	
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during vi	nting or flaring that is or may be a major or minor release under	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes	
Did this venting or flaring result in the release of <b>ANY</b> 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	

Unregistered Facility Site		
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.		
Facility or Site Name Not answered.		
Facility Type	Not answered.	

Equipment Involved	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas			
Please provide the mole percent for the percentage questions in this group.			
Methane (CH4) percentage	4		
Nitrogen (N2) percentage, if greater than one percent	0		
Hydrogen Sulfide (H2S) PPM, rounded up	1		
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 specification.	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.		
Oxygen (02) percentage quality requirement	Not answered.		

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	07/02/2021
Time venting or flaring was discovered or commenced	06:01 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/02/2021
Time venting or flaring was terminated	08:49 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	0
Longest duration of cumulative hours within any 24-hour period during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas		
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Cause: Lightning   Other (Specify)   Natural Gas Flared   Spilled: 677 Mcf   Recovered: 0 Mcf   Lost: 677 Mcf ]	
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.	
Is this a gas only submission (i.e. only Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.	

Venting or Flaring Resulting from Downstream Activity		
Was or is this venting or flaring a result of downstream activity	Not answered.	
Date notified of downstream activity requiring this venting or flaring	Not answered.	
Time notified of downstream activity requiring this venting or flaring	Not answered.	

## Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	The 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. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.
Steps taken to limit the duration and magnitude of venting or flaring	The 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. It is OXY's policy to route all stranded sales gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	The 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. It is OXY's policy to route all stranded sales age to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare is regularly monitored to the ensure the flame is lit and meeting opacity requirements.

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CONDITIONS

Action 36141

### **CONDITIONS**

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OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	36141
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/13/2021