

# OCCIDENTAL PERMIAN LTD.

**Event ID:** 110903 **Reporting Employee:** RICHARD ALVARADO  
**Lease Name:** NORTH HOBBS UNIT RCF/WIB **Account Number:** 2415  
**Equipment:** RCF FLARE **NSR Permit Number:** 2656-M5  
**EPN:** RCF - FLR - SSM **Title V Permit Number:**  
**EPN Name:** RCF FLARE SSM EVENTS **Reg Lease Number:**  
**Flare Point:** RCF-FLR-SSM

**NOT ACCEPTED**

**Explanation of the Cause:**

ON FEBRUARY 14TH AT APPROXIMATELY 4:43 AM THE NORTH PLANT EXPERIENCED A FLARING EVENT DUE TO "F" TRAIN SHUTTING DOWN ON LUBE NO FLOW RIGHT BANK, "E" TRAIN SHUTTING DOWN ON MAIN MOTOR STOP, AND "D" TRAIN SHUTTING DOWN ON LOW LOW SUCTION. FLARING FOR THIS EVENT CEASED ON FEBRUARY 14TH AT APPROXIMATELY 9:10 PM. FLARING WAS INTERMITTENTLY FOR APPROXIMATELY 3 HOURS AND 18 MINUTES.

**Event Type**

- Malfunction
- Title V Deviation
- Malfunction
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**Corrective Actions Taken to Minimize Emissions:**

UNITS WERE LEFT DOWN DUE TO LOW INLET RATES AND NOT NEEDED BECAUSE OF FREEZING AMBIENT TEMPERATURES

**Actions taken to prevent recurrence:**

UNITS WERE LEFT DOWN DUE TO LOW INLET RATES AND NOT NEEDED BECAUSE OF FREEZING AMBIENT TEMPERATURES

Emission Start Date	Emission End Date	Duration
2/14/2021 4:43:00 AM	2/14/2021 9:10:00 PM	16:27 hh:mm

## NMED

Pollutant	Duration (hh:mm)	Avging Period	Excess Emission	Number of Exceedances	Permit Limit	Average Emission Rate		Total Pounds	Tons Per Year		
									Total	Next Drop off Date	Date Permit Exceeded
CO	16:27	1	0 LBS	0	152.10	40.25	LBS/HR	662.13	0.331066	2/17/2021	
H2S	16:27	1	0 LBS	0	14.60	2.53	LBS/HR	41.65	0.020829	2/17/2021	
NOX	16:27	1	0 LBS	0	27.10	4.69	LBS/HR	77.22	0.038612	2/17/2021	
SO2	16:27	1	0 LBS	0	1372.10	233.57	LBS/HR	3842.37	1.921188	2/17/2021	
VOC	16:27	1	0 LBS	0	216.70	20.18	LBS/HR	332.03	0.166016	2/17/2021	

**Reporting Status:** Non-Reportable

## NMOCD

Flare Stream Total	Total MCF	EPN	Latitude	Longitude	Reporting Status
2954 MCF	3497 MCF	RCF FLARE SSM EVENTS	32°43'14.96"	103°11'59.65"	Major Release

## LEPC

Total MCF	H2S %	Unit Letter	Section	Township	Range
3497	0.786	H	25	18 S	37 E

Pollutant	Emission rate	Reportable Qty
SO2	3842.37 LBS/DAY	500 LBS/DAY
SO2	3842.37 LBS/DAY	500 LBS/DAY
SO2	3842.37 LBS/DAY	500 LBS/DAY

**Reporting Status:** Reportable

**Emissions Calculations:**

$NOx = MCF \text{ flared} \times NOx \text{ factor from RG-109} \times BTU/scf \times 1000 \text{ scf/MCF} \times MMBTU/1000000 \text{ BTU}$

$CO = MCF \text{ flared} \times CO \text{ factor from RG-109} \times BTU/scf \times 1000 \text{ scf/MCF} \times MMBTU/1000000 \text{ BTU}$

Gas was flared to reduce the hydrocarbon and/or H2S emissions to the atmosphere.

$NMNE \text{ NG} = MCF \text{ flared} \times 50 \text{ lb/mole} \times \text{mole}/.379 \text{ MCF} \times \text{mol \% NMNE NG} \times 0.02$

$NMNE \text{ NG \%} = 100\% - \text{Methane \%} - \text{Ethane \%} - \text{Carbon Dioxide \%} - \text{Nitrogen \%}$

$H2S = MCF \text{ flared} \times 34 \text{ lb/mole} \times \text{mole}/.379 \text{ MCF} \times \text{mol \% H2S}/100 \times 0.02$

$SO2 = MCF \text{ flared} \times 64 \text{ lb/mole} \times \text{mole}/.379 \text{ MCF} \times \text{mol \% H2S}/100 \times 0.98$