www.permianls.com 575.397.3713 2609 W Marland Hobbs NM 88240



11051G		NHU WIB Inlet			NHU WIB Inlet	
Sample Point Code	Sample Point Code Sample Point Name		nme		Sample Point Location	
Laboratory Se	rvices	2021048	592	1839	D.	Jett - Spot
Source Laboratory				Container Identity	<del></del> -	
USA		,		USA	New Mexico	
District		Area Name	_	Field Name	Facility Name	
Nov 22, 2021 08	3:30	Nov 22,	2021 08:30	Nov 22, 2021	15:03	Nov 23, 2021
Date Sampled			e Effective	Date Recei		Date Reported
50.00		System Admi	nistrator	32 @		
Ambient Temp (°F)	Flow Rate (Mcf)	Analysi	:	Press PSI @ Temp °F Source Conditions		
Oxy						NG
Operator					Lab Sou	rce Description
Component	Normalized	Un-Normalized	GPM	Gross Hea	ating Values (Re	eal, BTU/ft³)
- Component	Mol %	Mol %	5	14.696 PSI @ 60.00 Â <sup>c</sup>		14.73 PSI @ 60.00 °F
H2S (H2S)	2.4000	2.4		1 1	urated 12.8	Dry Saturated 246.8 243.4
Nitrogen (N2)	0.1330	0.136			ed Total Sample	
CO2 (CO2)	88.9190	91.111			6 *Calculated at Contr	·
Methane (C1)	2.8960	2.965		Relative Density Real 1.5302		Relative Density Ideal 1.5206
Ethane (C2)	0.3320	0.34	0.0890	Molecular Weight		1.5200
Propane (C3)	1.4580	1.493	0.4020	44.0473		
I-Butane (IC4)	0.3910	0.4	0.1280	T C	6+ Group Prope Assumed Composition	
N-Butane (NC4)	1.0480	1.073	0.3300	C6 - 60.000%	C7 - 30.000%	
I-Pentane (IC5)	0.6150	0.63	0.2250		Field H2S	
N-Pentane (NC5)	0.5370	0.55	0.1950	11	24000 PPM	
Hexanes Plus (C6+)	1.2710	1.302	0.5510	PROTREND STATUS:		DATA SOURCE:
TOTAL	100.0000	102.4000	1.9200	Passed By Validator on N	ov 24, 2021	Imported
Method(s): Gas C6+ - GPA 2261, Extende	ed Gas - GPA 2286, Calculat	tions - GPA 2172		PASSED BY VALIDATOR REA		nle
Analyzer Information			VALIDATOR:	acica icasonab	,,,,,	
Device Type: Gas Chromatograph Device Make: Shimadzu			Dustin Armstrong			
Device Model: GC-2014		al Date: Nov 14,	2021	VALIDATOR COMMENTS:		

### **UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**

Facility: North Hobbs Unit West Injection Battery Flare Date: 01/21/2022

**Duration of event:** 4 Hours 25 Minutes **MCF Flared:** 1212

Start Time: 04:50 PM End Time: 09:15 PM

**Cause:** Compressor Malfunction > Faulty Transmitter

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:

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. Notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms and/or failures, false or true, can be sudden, reasonably unforeseeable, and unexpected which can cause compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components. In this case, this emissions event was caused by the facility's compressor unit malfunctioning due to the compressor unit having false alarm readings, caused by a faulty compressor transmitter, and therefore, prompting the compressor unit to shut down several times. This event was completely out of OXY's control to prevent from occurring but OXY made every effort to control and minimize excess emissions while OXY production techs resolved the issues. The facility and all its equipment were working as designed and operated normally prior to the sudden and without warning malfunction.

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

It is OXY's policy to route all 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 gas compressor unit and/or multiple unit shutdown, increased sensor 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, as this is an unmanned facility, an Oxy production tech arrived from another facility rather quickly and performed a visual inspection of the malfunctioned compressor unit and attempted to restart the compressor unit. The compressor unit restarted and soon after, the compressor malfunction alarm triggered another automatic shutdown. The Oxy production tech hurriedly called for an automation technician to come out to the facility to assist in resolving the issue with the transmitter, and until the automation tech arrived, the production tech remained on-site to monitor the issue and restart the

compressor unit each time, a malfunction shutdown occurred. Once the automation tech arrived, the compressor unit was shut down so that the faulty transmitter could be replaced. Both Oxy technicians worked diligently to resolve the issue and return the compressor unit back to normal working operations. All OXY operations and facility equipment were running at maximized optimization prior to the compressor unit having issues and were working as designed and operated normally prior to the sudden and without warning malfunction.

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

Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms and/or failures, false or true, can be sudden, reasonably unforeseeable, and unexpected which can cause compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components. Oxy continually strives to maintain and operate its facility and its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. The only actions that Oxy can take and handle that is within its control, is to continue with its preventative maintenance program for this facility and its compression equipment.

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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 78707

#### **DEFINITIONS**

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	78707
	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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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

QUESTIONS

Action 78707

# **QUESTIONS**

Operator: OCCIDENTAL PERMIAN LTD	OGRID: 157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	78707
	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	[157984] OCCIDENTAL PERMIAN LTD	
Incident Type	Flare	
Incident Status	Closure Not Approved	
Incident Well	Not answered.	
Incident Facility	[fAPP2126544726] NORTH HOBBS UNIT WIB	
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		

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 verbase that the state of the control	enting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.  Yes	
Did this vent or flare 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	
Was the vent or flare within an incorporated municipal boundary or withing 300 feet		

Equipment Involved		
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency Flare > Compressor Malfunction > Faulty Transmitter	

Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	3	
Nitrogen (N2) percentage, if greater than one percent	0	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	89	
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.	
Oxygen (02) percentage quality requirement	Not answered.	

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

QUESTIONS, Page 2

Action 78707

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	a Fe, NM 87505	
QUES	TIONS (continued)	
Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984  Action Number: 78707  Action Type: [C-129] Amend Venting and/or Flaring (C-129A)	
QUESTIONS	3 3 3 3 3 4 3 7	
Date(s) and Time(s)		
Date vent or flare was discovered or commenced	01/21/2022	
Time vent or flare was discovered or commenced	04:50 PM	
Time vent or flare was terminated	09:15 PM	
Cumulative hours during this event	4	
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: 1,212 Mcf   Recovered: 0 Mcf   Lost: 1,212 Mcf ]	
Other Released Details	Cause:     Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0	
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.	
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		

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	False
Please explain reason for why this event was beyond this 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. Notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms and/or failures, false or true, can be sudden, reasonably unforeseeable, and unexpected which can cause compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components. In this case, this emissions event was caused by the facility's compressor unit malfunctioning due to the compressor unit having false alarm readings, caused by a faulty compressor transmitter, and therefore, prompting the compressor unit to shut down several times. This event was completely out of OXY's control to prevent from occurring but OXY made every effort to control and minimize excess emissions while OXY production techs resolved the issues. The facility and all its equipment were working as designed and operated normally prior to the sudden and without warning malfunction
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route all 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 gas compressor unit and/or multiple unit shutdown, increased sensor 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, as this is an unmanned facility, an Oxy production tech arrived from another facility rather quickly and performed a visual inspection of the malfunctioned compressor unit and attempted to restart the compressor unit. The compressor unit restarted and soon after, the compressor malfunction alarm triggered another automatic shutdown. The Oxy production tech hurriedly called for an automation technician to come out to the facility to assist in resolving the issue with the transmitter, and until the automation tech arrived, the production tech remained on-site to monitor the issue and restart the compressor unit each time, a malfunction shutdown occurred. Once the automation tech arrived, the compressor unit was shut down so that the faulty transmitter could be replaced. Both Oxy technicians worked diligently to resolve the issue and return the compressor unit back to normal working operations. All OXY operations and facility equipment were running at maximized optimization prior to the compressor unit having issues and were working as designed and operated normally prior to the sudden and without warning malfunction.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions as notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms and/or failures, false or true, can be sudden, reasonably unforeseeable, and unexpected which can cause compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components. Oxy continually strives to maintain and operate its facility and its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. The only actions that Oxy can take and handle that is within its control, is to continue with its preventative maintenance program for this facility and its compression equipment.

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

ACKNOWLEDGMENTS

Action 78707

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	78707
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### **ACKNOWLEDGMENTS**

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

CONDITIONS

Action 78707

# **CONDITIONS**

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	78707
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

### CONDITIONS

Created By	Condition	Condition Date
srojas	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.	2/5/2022