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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

11049G	NHU CTB Inlet	NHU CTB Inlet	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2021048599	0421	D Jett - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Nov 22, 2021 09:20	Nov 22, 2021 09:20	Nov 22, 2021 15:49	Nov 23, 2021
Date Sampled	Date Effective	Date Received	Date Reported
56.00	System Administrator	40 @ 80	
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Oxy	NG		
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	1.8000	1.8	
Nitrogen (N2)	0.0940	0.096	
CO2 (CO2)	91.8670	93.552	
Methane (C1)	1.3750	1.4	
Ethane (C2)	0.2500	0.254	0.0670
Propane (C3)	1.0280	1.047	0.2830
I-Butane (IC4)	0.3200	0.326	0.1050
N-Butane (NC4)	0.9180	0.935	0.2890
I-Pentane (IC5)	0.5360	0.546	0.1960
N-Pentane (NC5)	0.4910	0.5	0.1780
Hexanes Plus (C6+)	1.3210	1.345	0.5730
TOTAL	100.0000	101.8010	1.6910

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Nov 14, 2021

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
205.6	203.000	206.1	203.5

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
1.5464	1.5368
Molecular Weight	
44.5106	

C6+ Group Properties		
Assumed Composition		
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%

Field H2S
18000 PPM

PROTREND STATUS: Passed By Validator on Nov 24, 2021
DATA SOURCE: Imported

PASSED BY VALIDATOR REASON:
Close enough to be considered reasonable.

VALIDATOR:
Dustin Armstrong

VALIDATOR COMMENTS:
OK

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: North Hobbs CTB

Flare Date: 1/24/2022

Duration of event: 3 hours and 30 minutes

MCF Flared: 56

Start Time: 4:30 AM

End Time: 8:00 AM

Cause: Compression Equipment Malfunction >

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. 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 ensure flame is lit and meeting opacity requirements. Internal OXY compression equipment failure procedures ensure that upon a compressor unit shutdown, a production tech is promptly notified and is instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Upon arrival, production tech must assess whether compressor shutdown is due to damage and repair is needed, or whether there are other reasons.

In this case, this emissions event was caused by compressor Toromont LP malfunctioning due to the compressor units suction transmitter not opening properly and therefore, automatically shutting the unit down. Automation tech called out to troubleshoot and make necessary adjustments and/or repairs. Automation tech arrived on-site and troubleshooted the unit. The Transmitter was replaced, Restarted the unit and the unit was placed back on-line and returned to normal working service. 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. Notwithstanding compressor design and operation, compressors are inherently dynamic and alarm triggers, whether true or false, can cause compressors to malfunction and shutdown with warning or advance notice.

2. **Steps Taken to limit duration and magnitude of venting or flaring:** 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. In this case, the steps taken to limit duration and magnitude of flaring was for Oxy production techs to quickly respond to the compressor alarm, diagnose the issue, and make the necessary calls to seek additional assistance. By working together, Oxy technicians were able to troubleshoot the issue and restart the unit back to normal working service.

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. 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 only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for this facility's 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

DEFINITIONS

Action 79763

DEFINITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 79763
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 79763

QUESTIONS

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	Action Number: 79763
	Action Type: [C-129] Venting and/or Flaring (C-129)

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 Well	Not answered.
Incident Facility	[fJXK1521644523] North Hobbs Unit CTB

Determination of Reporting Requirements

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional 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, 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 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	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	1
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	18,000
Carbon Dioxide (CO2) percentage, if greater than one percent	92
Oxygen (O2) 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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 79763

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/24/2022
Time vent or flare was discovered or commenced	04:30 AM
Time vent or flare was terminated	08:00 AM
Cumulative hours during this event	4

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Other (Specify) Natural Gas Vented Released: 56 Mcf Recovered: 0 Mcf Lost: 56 Mcf
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
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	
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. 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. Internal OXY compression equipment failure procedures ensure that upon a compressor unit shutdown, a production tech is promptly notified and is instructed to assess the issue as soon as possible in order to take prompt corrective action and minimize emissions. Upon arrival, production tech must assess whether compressor shutdown is due to damage and repair is needed, or whether there are other reasons. In this case, this emissions event was caused by compressor Toromont LP malfunctioning due to the compressor units suction transmitter not opening property and therefore, automatically shutting the unit down. Automation tech called out to troubleshoot and make necessary adjustments and/or repairs. Automation tech arrived on-site and troubleshot the unit. The Transmitter was replaced , Restarted the unit and the unit was placed back on-line and returned to normal working service. 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. Notwithstanding compressor design and operation, compressors are inherently dynamic and alarm triggers, whether true or false, can cause compressors to malfunction and shutdown with warning or advance notice
Steps taken to limit the duration and magnitude of vent or flare	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. In this case, the steps taken to limit duration and magnitude of flaring was for Oxy production techs to quickly respond to the compressor alarm, diagnose the issue, and make the necessary calls to seek additional assistance. By working together, Oxy technicians were able to troubleshoot the issue and restart the unit back to normal working service.
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ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this 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.
☒	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.
☒	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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	Action Number: 79763
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
srojas	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	2/8/2022