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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

11051G	NHU WIB Inlet	NHU WIB Inlet	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2021048592	1839	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 08:30	Nov 22, 2021 08:30	Nov 22, 2021 15:03	Nov 23, 2021
Date Sampled	Date Effective	Date Received	Date Reported
50.00	System Administrator	32 @	
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)	2.4000	2.4	
Nitrogen (N2)	0.1330	0.136	
CO2 (CO2)	88.9190	91.111	
Methane (C1)	2.8960	2.965	
Ethane (C2)	0.3320	0.34	0.0890
Propane (C3)	1.4580	1.493	0.4020
I-Butane (IC4)	0.3910	0.4	0.1280
N-Butane (NC4)	1.0480	1.073	0.3300
I-Pentane (IC5)	0.6150	0.63	0.2250
N-Pentane (NC5)	0.5370	0.55	0.1950
Hexanes Plus (C6+)	1.2710	1.302	0.5510
TOTAL	100.0000	102.4000	1.9200

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

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
246.2	242.8	246.8	243.4

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
1.5302	1.5206
Molecular Weight	
44.0473	

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

Field H2S
24000 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

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

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** North Hobbs WIB Battery**Flare Date:** 04/05/2022**Duration of event:** 1 hours and 22 minutes**MCF Flared:** 763**Start Time:** 12:38 PM**End Time:** 02:00 PM**Cause:** Power fail >Compression Equipment Malfunction >Inlet value>**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This upset event was not caused by any wells associated with the facility

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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. In this case, compressor LP 4500 unit's malfunction occurred due to a suction control valve issue. This sudden and unexpected malfunction occurred as a result of the suction control valve resulting in carry over into the suction of the 4500 Compressor. The Fluid level did not reach the shut down level for the inlet vessel, it did however carry over causing the unit to shut down. We shut the inlet to the facility to stop the flare. After the compressor was serviced the inlet was opened to get the smaller unit running. While the 4500 was being serviced. When the has been serviced we brought more gas into the facility to run the 4500. It had ran for different periods of time and shut down for lube oil differential pressure shut down. Maintenance crew has changed the oil filter 4 times to clean the oil. 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 an OXY production tech resolved the issue. Notwithstanding compressor station design and operation, compressors are inherently dynamic and even the smallest mechanical issue, whether true or false, can be sudden, reasonably unforeseeable and unexpected which can cause compression malfunctions to occur without warning. The compressor unit was 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 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 100392

DEFINITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 100392
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none">• 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 100392

QUESTIONS

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	Action Number: 100392
	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

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, 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 within 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	>Compression Equipment Malfunction >Inlet value>

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	24,000
Carbon Dioxide (CO2) percentage, if greater than one percent	89
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 100392

QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/05/2022
Time vent or flare was discovered or commenced	12:38 PM
Time vent or flare was terminated	02:00 PM
Cumulative hours during this event	1

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: 763 Mcf Recovered: 0 Mcf Lost: 763 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	
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	True
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. In this case, compressor LP 4500 unit's malfunction occurred due to a suction control valve issue. This sudden and unexpected malfunction occurred as a result of the suction control valve resulting in carry over into the suction of the 4500 Compressor .The Fluid level did not reach the shut down level for the inlet vessel ,it did however carry over causing the unit to shut down .We shut the inlet to the facility to stop the flare .After the compressor was serviced the inlet was opened to get the smaller unit running . While the 4500 was being serviced. When the has been serviced we brought more gas into the facility to run the 4500. It had ran for different periods of time and shut down for lube oil differential pressure shut down. Maintenance crew has changed the oil filter 4 times to clean the oil. 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 an OXY production tech resolved the issue. Notwithstanding compressor station design and operation, compressors are inherently dynamic and even the smallest mechanical issue, whether true or false, can be sudden, reasonably unforeseeable and unexpected which can cause compression malfunctions to occur without warning. The compressor unit was working as designed and operated normally prior to the sudden and without warning malfunction.
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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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
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.	4/20/2022