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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

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
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%
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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

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** North Hobbs Unit WIB**Flare Date:** 04/19/2022**Duration of event:** 17 Minutes**MCF Flared:** 61**Start Time:** 4:53 PM**End Time:** 5:10 PM**Cause:** Compression Equipment Shut down > Low Lube Oil**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. 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 facility is an unmanned location and therefore, the Oxy production tech, upon receiving the malfunction alarm for the North Hobbs Unit WIB, quickly drove to the facility from another distant facility location. Upon the production tech's arrival, the immediate steps taken was to check the lube oil level and inspect the unit for additional potential issues. The Oxy production tech determined that the cause of the 4500LP compressor was due to a low lube oil level, opened a 2nd set of filters and restarted the unit. The Oxy production tech did not find any other issues affecting the unit, and as the lube oil level was normal, the production tech reset the control panel and restarted the unit. The compressor unit was working as designed and operated normally prior to the sudden and without warning automatic shutdown of the compressor unit.

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 a sudden, unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure flame is lit and meeting opacity requirements. In this case, the immediate steps taken to limit duration and magnitude of flaring was for the Oxy production tech, upon his arrival to the facility from another distant facility, was to check the lube oil level and inspect the compressor unit for additional potential issues. The Oxy production tech determined that the cause of the Gas Sales compressor was due to a low lube oil level sensor. The Oxy production tech did not find any other issues affecting the

unit, and as the lube oil level was low filled tank quickly and the production tech reset the control panel and restarted the unit. The Gas Sales compressor unit was working as designed and operated normally prior to the sudden and without warning automatic shutdown of the compressor unit. Flaring ceased as soon as the compressor unit was up to normal working condition and speed.

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 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. In this particular event a New Employee is being trained on this Unit and was not aware of the condition of the oil level. Oxy trains employee on how to Monitor the oil levels and prevent these types of shut down

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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 101557

DEFINITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 101557
	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 101557

QUESTIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 101557
	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	[fAPP2126544726] NORTH HOBBS UNIT WIB

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	Other (Specify)
Additional details for Equipment Involved. Please specify	Compression Equipment Shut down > Low Lube Oil

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

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QUESTIONS (continued)

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	Action Number: 101557
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	04/19/2022
Time vent or flare was discovered or commenced	04:53 PM
Time vent or flare was terminated	05:10 PM
Cumulative hours 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	Cause: Other Other (Specify) Natural Gas Flared Released: 61 Mcf Recovered: 0 Mcf Lost: 61 Mcf]
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.	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. 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 facility is an unmanned location and therefore, the Oxy production tech, upon receiving the malfunction alarm for the North Hobbs Unit WIB, quickly drove to the facility from another distant facility location. Upon the production tech's arrival, the immediate steps taken was to check the lube oil level and inspect the unit for additional potential issues. The Oxy production tech determined that the cause of the 4500LP compressor was due to a low lube oil level , opened a 2nd set of filters and restarted the unit . The Oxy production tech did not find any other issues affecting the unit, and as the lube oil level was normal, the production tech reset the control panel and restarted the unit. The compressor unit was working as designed and operated normally prior to the sudden and without warning automatic shutdown of the compressor unit.
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 a sudden, unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. In this case, the immediate steps taken to limit duration and magnitude of flaring was for the Oxy production tech, upon his arrival to the facility from another distant facility, was to check the lube oil level and inspect the compressor unit for additional potential issues. The Oxy production tech determined that the cause of the Gas Sales compressor was due to a low lube oil level sensor. The Oxy production tech did not find any other issues affecting the unit, and as the lube oil level was low filled tank quickly and the production tech reset the control panel and restarted the unit. The Gas Sales compressor unit was working as designed and operated normally prior to the sudden and without warning automatic shutdown of the compressor unit. Flaring ceased as soon as the compressor unit was up to normal working condition and speed.
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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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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.	4/26/2022