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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

8571G	NHU NIB Inlet	NHU NIB Inlet	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2020037059	1253	D Armstrong - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Nov 24, 2020 14:58	Nov 24, 2020 14:58	Nov 25, 2020 10:05	Nov 25, 2020
Date Sampled	Date Effective	Date Received	Date Reported
67.00	Torrance	31 @ 80	
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Oxy	Separator		
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.9000	0.9	
Nitrogen (N2)	0.1880	0.19	
CO2 (CO2)	92.1180	92.953	
Methane (C1)	0.8860	0.894	
Ethane (C2)	0.1840	0.186	0.0490
Propane (C3)	1.0630	1.073	0.2930
I-Butane (IC4)	0.3980	0.402	0.1300
N-Butane (NC4)	1.1380	1.148	0.3590
I-Pentane (IC5)	0.6060	0.611	0.2220
N-Pentane (NC5)	0.5470	0.552	0.1980
Hexanes Plus (C6+)	1.9720	1.99	0.8560
TOTAL	100.0000	100.8990	2.1070

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 24, 2020

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 °F		14.73 PSI @ 60.00 °F	
Dry	Saturated	Dry	Saturated
243.000	239.6	243.6	240.2

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
1.5685	1.5581
Molecular Weight	
45.1286	

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

Field H2S
9000 PPM

PROTREND STATUS:

Passed By Validator on Nov 25, 2020

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

VALIDATOR:

Torrance Galvan

VALIDATOR COMMENTS:

OK

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** North Hobbs NIB**Flare Date:** 08/15/2021**Duration of event:** 1 Hour 5 Minutes**MCF Flared:** 130**Start Time:** 08:15 PM**End Time:** 09:20 PM**Cause:** North Hobbs RCF Plant > Automation Issue**Method of Flared Gas Measurement:** Gas Flare Meter

Comments: This upset 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. Oxy engages in respectable and good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program.

1. Reason why this event was beyond Operator's control:

In this case, this event was caused by a sudden and unexpected automation malfunction at Oxy's North Hobbs RCF (RCF) plant, which impacted their associated facility, North Hobbs Injection Battery (NIB). The automation malfunction at the RCF plant caused the NIB sales gas service pipeline to close, effectively shutting in the NIB facility and triggering the gas to route to the flare. This facility is unmanned, except when Oxy production techs are gathering data or conducting walk-throughs to ensure that there are no problems, situations and/or assist other personnel on-site for maintenance purposes. Oxy production techs quickly received the flare alarms and responded immediately. Once on-site, the production techs immediately began shutting in the wells, as well as communicating to other field personnel to also begin procedures to shut the field in until Oxy's RCF plant was returned to normal working service.

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, is communicated to additional Oxy field personnel, when essential. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown alarms, increased sensor pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible in order 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. This facility is unmanned, except when Oxy production techs are gathering data or conducting walk-throughs to ensure that there are no problems, situations and/or assist other personnel on-site for maintenance purposes.

In this case, Oxy production techs quickly received the flare alarms and were already enroute to the facility once they had been informed that the RCP plant was shut down due to an automation issue. Once arriving on-site, the production techs immediately began shutting in the wells, as well as communicating to other field personnel to also begin procedures to shut the field in until Oxy's RCF plant was returned to normal working service. The RCF plant resumed working operations a short time later, and once the facility wells were slowly brought back online, the compression equipment was restarted. Once compression equipment resumed optimized maximization operation, did flaring cease.

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

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper operational equipment design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause malfunctions to occur without warning or advance notice. In this case, this event was triggered by an automation malfunction at another location. 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. Oxy has a strong and positive facility equipment preventative maintenance program in place.

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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 65895

DEFINITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 65895
	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: <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 65895

QUESTIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 65895
	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	[fKJ1518128159] North Hobbs Unit NIB

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	Emergency Flare > North Hobbs RCF Plant > Automation Issue

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	0
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

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QUESTIONS (continued)

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QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/15/2021
Time vent or flare was discovered or commenced	08:15 AM
Time vent or flare was terminated	09:20 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: 130 Mcf Recovered: 0 Mcf Lost: 130 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Gas Flare Meter
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	In this case, this event was caused was by a sudden and unexpected automation malfunction at Oxy's North Hobbs RCF (RCF) plant, which impacted their associated facility, North Hobbs Injection Battery (NIB). The automation malfunction at the RCF plant caused the NIB sales gas service pipeline to close, effectively shutting in the NIB facility and triggering the gas to route to the flare. This facility is unmanned, except when Oxy production techs are gathering data or conducting walk-throughs to ensure that there are no problems, situations and/or assist other personnel on-site for maintenance purposes. Oxy production techs quickly received the flare alarms and responded immediately. Once on-site, the production techs immediately began shutting in the wells, as well as communicating to other field personnel to also begin procedures to shut the field in until Oxy's RCF plant was returned to normal working service.
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, is communicated to additional Oxy field personnel, when essential. Internal OXY procedures ensure that upon gas compressor unit and/or multiple unit shutdown alarms, increased sensor pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible in order 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. This facility is unmanned, except when Oxy production techs are gathering data or conducting walk-throughs to ensure that there are no problems, situations and/or assist other personnel on-site for maintenance purposes. In this case, Oxy production techs quickly received the flare alarms and were already enroute to the facility once they had been informed that the RCP plant was shut down due to an automation issue. Once arriving on-site, the production techs immediately began shutting in the wells, as well as communicating to other field personnel to also begin procedures to shut the field in until Oxy's RCF plant was returned to normal working service. The RCF plant resumed working operations a short time later, and once the facility wells were slowly brought back online, the compression equipment was restarted. Once compression equipment resumed optimized maximization operation, did flaring cease.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper operational equipment design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause malfunctions to occur without warning or advance notice. In this case, this event was triggered by an automation malfunction at another location. 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. Oxy has a strong and positive facility equipment preventative maintenance program in place.

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ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<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
marialuna2	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.	12/9/2021