

11054GNHU Satellite 19-CNHU Satellite 19-CSample Point CodeSample Point NameSample Point Location

Laboratory Services 2020037057 1970 D Armstrong - Spot Lab File No Container Identity Source Laboratory Sampler USA **USA** USA New Mexico Area Name Field Name Facility Name Nov 24, 2020 13:58 Nov 24, 2020 13:58 Nov 25, 2020 09:37 Nov 25, 2020 Date Effective Date Sampled Date Received Date Reported 70.00 318 @ 82 Torrance 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)	0.8800	0.88	
Nitrogen (N2)	1.8580	1.87438	
CO2 (CO2)	84.2500	85.00028	
Methane (C1)	8.4710	8.54569	
Ethane (C2)	1.5400	1.55329	0.4120
Propane (C3)	1.7350	1.75009	0.4780
I-Butane (IC4)	0.2240	0.22587	0.0730
N-Butane (NC4)	0.4530	0.45679	0.1430
I-Pentane (IC5)	0.1560	0.15725	0.0570
N-Pentane (NC5)	0.1400	0.14092	0.0510
Hexanes Plus (C6+)	0.2930	0.29545	0.1270
TOTAL	100.0000	100.8800	1.3410

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

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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
211.7	209.000	212.2	209.5

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real Relative Density Ideal

1.4356 1.4283

Molecular Weight 41.3656

C6+ Group Properties
Assumed Composition
C7 - 30.000%

8800 PPM

C8 - 10.000%

Field H2S

PROTREND STATUS:
Passed By Validator on Nov 25, 2020
Imported

PASSED BY VALIDATOR REASON:

C6 - 60.000%

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Torrance Galvan

VALIDATOR COMMENTS:

ОК

EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: North Hobbs Unit CTB

Start Date: 06/17/2021 @ 06:50 PM **End Date:** 06/17/2021 @ 07:05 PM

Cause: Compressor malfunction on high discharge pressure

Duration of event: 15 min.

Method of Flared Gas Measurement: Flare Meter

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

This 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 or prevented by good design, operation, and preventative maintenance practices. 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. Notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause compression malfunctions to occur.

Oxy engages in respectable and good facility operation practices while also maintaining its continuous equipment preventative maintenance program. Internal OXY procedures ensure that upon sales gas compressor unit shutdown, production techs 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 techs must assess whether a sales gas compressor unit shutdown is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, the Oxy production tech determined that the cause of the Toromont compressor was due to a high discharge pressure. Immediate action was taken to reset the control panel and restart the unit. Unfortunately, the compressor unit failed to restart after several attempts, so the Oxy production tech went ahead and started a spare compression unit, to minimize emissions and cease flaring. In addition, Oxy production tech submitted notice to Oxy's internal automation team to troubleshoot the unit as soon as possible.

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 the ensure flame is lit and meeting opacity requirements. Notwithstanding compressor

engine design and operation, compressors are inherently dynamic and even the smallest alarms, 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, the steps taken to limit duration and magnitude of flaring was for the Oxy production tech to reset the control panel and restart the unit. Unfortunately, the compressor unit failed to restart after several attempts, so the Oxy production tech went ahead and started a spare compression unit, located on-site, to minimize emissions and cease flaring. In addition, the Oxy production tech submitted notice to Oxy's internal automation team to troubleshoot the unit as soon as possible. Once the spare compression unit was started and working properly, flaring ceased.

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

This 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 or prevented by good design, operation, and preventative maintenance practices. 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.

Oxy is limited in the corrective actions available to them 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 Toromont compressor unit was working as designed and operated normally prior to the sudden and without warning automatic shutdown of the compressor unit. Oxy has a strong and positive compression equipment preventative maintenance program in place.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 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**

QUESTIONS

Action 32533

QUESTIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	32533
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

QUESTIONS

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 or is this venting or flaring caused by an emergency or malfunction	Yes	
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No	
Is this considered a submission for a notification of a major venting or flaring	Yes, minor venting or flaring of natural gas.	
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during vo	nting or flaring that is or may be a major or minor release under	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes	
Did this venting or flaring 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	

Unregistered Facility Site	
Please provide the facility details, if the venting or flaring occurred or is occuring at a facility that does not have an Facility ID (f#) yet.	
Facility or Site Name Not answered.	
Facility Type	Not answered.

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare, Compressor malfunction on high discharge pressure

Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	8	
Nitrogen (N2) percentage, if greater than one percent	2	
Hydrogen Sulfide (H2S) PPM, rounded up	8,800	
Carbon Dioxide (C02) percentage, if greater than one percent	84	
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.	

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	06/17/2021
Time venting or flaring was discovered or commenced	06:50 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/17/2021
Time venting or flaring was terminated	07:05 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	0
Longest duration of cumulative hours within any 24-hour period 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 Spilled: 59 Mcf Recovered: 0 Mcf Lost: 59 Mcf]
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Flare meter
Is this a gas only submission (i.e. only Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was or is this venting or flaring a result of downstream activity	No
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting or flaring	Not answered.

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	See Justification Form> This 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 and avoided, and could nave been avoided or prevented by good design, operation, and preventative maintenance practices. 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. Notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause compression malfunctions to occur.
Steps taken to limit the duration and magnitude of venting or flaring	See Justification Form>In this case, the steps taken to limit duration and magnitude of flaring was for the Oxy production tech to reset the control panel and restart the unit. Unfortunately, the compressor unit failed to restart after several attempts, so the Oxy production tech went ahead and started a spare compression unit, located on-site, to minimize emissions and cease flaring. In addition, the Oxy production tech submitted notice to Oxy's internal automation team to troubleshoot the unit as soon as possible. Once the spare compression unit was started and working properly, flaring ceased.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	See Justification Form>Oxy is limited in the corrective actions available to them 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 Toromont compressor unit was working as designed and operated normally prior to the sudden and without warning automatic shutdown of the compressor unit. Oxy has a strong and positive compression equipment preventative maintenance program in place.

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CONDITIONS

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P.O. Box 4294	Action Number:
Houston, TX 772104294	32533
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/9/2021