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575.397.3713 2609 W Marland Hobbs NM 88240

## C6+ Gas Analysis Report

11019G	South Hobbs Unit CTB Inlet	South Hobbs Unit CTB Inlet	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2020036993	1719	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 09:58	Nov 24, 2020 09:58	Nov 24, 2020 11:59	Nov 24, 2020
Date Sampled	Date Effective	Date Received	Date Reported
60.00	Torrance	38 @ 70	
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)	0.0000	0	
Nitrogen (N2)	0.1080	0.10806	
CO2 (CO2)	85.2310	85.23111	
Methane (C1)	0.6730	0.67276	
Ethane (C2)	0.6140	0.61395	0.1640
Propane (C3)	3.9190	3.91938	1.0790
I-Butane (IC4)	1.7080	1.70793	0.5590
N-Butane (NC4)	4.2350	4.23453	1.3350
I-Pentane (IC5)	1.4540	1.45438	0.5320
N-Pentane (NC5)	0.9800	0.98005	0.3550
Hexanes Plus (C6+)	1.0780	1.07784	0.4680
TOTAL	100.0000	100.0000	4.4920

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
464.3	457.3	465.4	458.4

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
1.5926	1.5805
Molecular Weight	
45.7756	

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

Field H2S
0 PPM

## PROTREND STATUS:

Passed By Validator on Nov 24, 2020

## DATA SOURCE:

Imported

## PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

## VALIDATOR:

Torrance Galvan

## VALIDATOR COMMENTS:

OK

**UPSET EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** South Hobbs Unit CTB**Start Date:** 07/02/2021 @ 06:10 PM**End Date:** 07/02/2021 @ 07:00 PM**Cause:** Weather Related Facility Power Loss**Duration of event:** 50 Minutes**Method of Flared Gas Measurement:** Flare Meter**MCF Flared:** 435

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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 facility power shutdown caused by an extreme weather-related storm. All OXY operations and facility equipment were running at maximized optimization prior to the shutdown occurring due to strong weather-related storms which triggered a facility power loss and prompting the compressor unit to shutdown. This event was completely out of OXY's control to prevent from occurring as Oxy cannot predict or anticipate how extraordinary, extreme, and/or overwhelmingly violent weather conditions can get but OXY made every effort to control and minimize flaring when those weather conditions are concluded and/or are no longer in effect. The facility and all its equipment were working as designed and operated normally prior to the sudden and without warning malfunction triggered by an extreme weather-related storm.

**2. Steps Taken to limit duration and magnitude of venting or flaring:**

The steps taken to limit duration and magnitude of flaring was for an Oxy production tech to quickly respond to the compressor malfunction alarm and begin inspecting the unit, diagnose the issue, and make the necessary adjustments to restart the unit back to normal working service. It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. Internal procedures ensure that upon compressor unit shutdown, OXY 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. Upon arrival, an Oxy production tech must assess whether compressor shutdown is due to damage and repair is needed, or whether there are other reasons. In this case, upon the Oxy production tech's immediate arrival to the facility, he could see the entire facility was shutdown, and no power to the facility could be visually seen. The Oxy production tech, for his safety and per Oxy's work safe environment protocols, had to wait until the extreme violent nature of the weather storm had passed and/or stopped due to the intensity of the storm, at the time of his arrival to the facility. Once the storm had passed, and power was restored to the facility, the Oxy production tech performed a visual inspection of the malfunctioned compressor unit and finding no other cause for issues, simply restarted the unit to normal working service. The facility and all its equipment were working as designed and operated normally prior to the sudden and without warning

malfunction triggered by an extreme weather-related storm. Flaring ceased within minutes of the facility and its compression equipment working as designed and operating normally.

**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 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 or facility shutdowns due to extreme weather-related conditions, affecting power usage, facility operations, etc. Oxy cannot predict or anticipate how extraordinary, extreme, and/or overwhelmingly violent weather conditions can get but OXY makes every effort to control and minimize flaring when those extraordinary, extreme, and/or overwhelmingly violent weather conditions are concluded and/or are no longer in effect. Oxy continually strives to maintain and operate its facility and its 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 preventative maintenance program for this facility and its compression equipment.

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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**District II**

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**District III**

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**District IV**

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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 37244

**QUESTIONS**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 37244
	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 additional 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 venting or flaring that is or may be a major or minor release under 19.13.29.7 NMAC	
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 occurring at a facility that does not have an Facility ID (##) 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>Weather Related Facility Power Loss

**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	85
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.

**Date(s) and Time(s)**

Date venting or flaring was discovered or commenced	07/02/2021
Time venting or flaring was discovered or commenced	06:10 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/02/2021
Time venting or flaring was terminated	07:00 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: 435 Mcf   Recovered: 0 Mcf   Lost: 435 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 >In this case, compressor LP 4500 unit's malfunction occurred due to a facility power shutdown caused by an extreme weather-related storm. All OXY operations and facility equipment were running at maximized optimization prior to the shutdown occurring due to strong weather-related storms which triggered a facility power loss and prompting the compressor unit to shutdown. This event was completely out of OXY's control to prevent from occurring as Oxy cannot predict or anticipate how extraordinary, extreme, and/or overwhelmingly violent weather conditions can get but OXY made every effort to control and minimize flaring when those weather conditions are concluded and/or are no longer in effect. The facility and all its equipment were working as designed and operated normally prior to the sudden and without warning malfunction triggered by an extreme weather-related storm.
Steps taken to limit the duration and magnitude of venting or flaring	See Justification Form >The steps taken to limit duration and magnitude of flaring was for an Oxy production tech to quickly respond to the compressor malfunction alarm and begin inspecting the unit, diagnose the issue, and make the necessary adjustments to restart the unit back to normal working service. It is OXY's policy to route all stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. Internal procedures ensure that upon compressor unit shutdown, OXY 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.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	See Justification Form >Oxy cannot take any corrective actions to eliminate the cause and potential reoccurrence of compressor malfunctions or facility shutdowns due to extreme weather-related conditions, affecting power usage, facility operations, etc. Oxy cannot predict or anticipate how extraordinary, extreme, and/or overwhelmingly violent weather conditions can get but OXY makes every effort to control and minimize flaring when those extraordinary, extreme, and/or overwhelmingly violent weather conditions are concluded and/or are no longer in effect. Oxy continually strives to maintain and operate its facility and its 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 preventative maintenance program for this facility and its compression equipment.

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CONDITIONS  
  
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	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.	7/21/2021