www.permianls.com 575.397.3713 2609 W Marland Hobbs NM 88240



11049G	NHU CTB Inlet	NHU CTB Inlet
Sample Point Code	Sample Point Name	Sample Point Location

Laborato	y Services	2020037052	0966		D	Armstrong - Spot
Source L	aboratory	Lab File No	Container Iden	tity		Sampler
USA		USA	USA			New Mexico
District		Area Name	Field Name			Facility Name
Nov 24, 202	20 14:30	Nov 24, 2020 14:30		Nov 25, 2	2020 09:06	Nov 25, 2020
Date San	npled	Date Effective		Date	Received	Date Reported
67.00		Torrance	38 @	84		
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Source Co	•		
Ox	у					NG
Opera	ator	_		_	La	b Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	0.2120	0.212	
CO2 (CO2)	93.4580	93.458	
Methane (C1)	1.0420	1.042	
Ethane (C2)	0.1350	0.135	0.0360
Propane (C3)	1.0530	1.053	0.2900
I-Butane (IC4)	0.3210	0.321	0.1050
N-Butane (NC4)	0.8960	0.896	0.2820
I-Pentane (IC5)	0.4780	0.478	0.1750
N-Pentane (NC5)	0.4580	0.458	0.1660
Hexanes Plus (C6+)	1.9470	1.947	0.8450
TOTAL	100.0000	100.0000	1.8990

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		
217.2	214.3	217.7	214.8		
Cal	culated Total	Sample Prop	perties		
GP.	A2145-16 *Calculate	ed at Contract Co	nditions		
Relative Dens	Relative Density Real Relative Density Ideal				
1.56	57		1.5557		
Molecular Weight					
45.0589					
	C6+ Grout	p Properties			
	•	Composition			
C6 - 60.000%		0.000%	C8 - 10.000%		
CO - 00.000 /0	C/ - J(7.00070	Co - 10.000 /0		
	Field	d H2S			
	0 F	PPM			

PROTREND STATUS: DATA SOURCE: Passed By Validator on Nov 25, 2020 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: North Hobbs Unit CTB

Cause: Compressor Malfunction>LP 4500 Compressor down, high discharge temperature, high ambient

temperature

Duration of event: 40 minutes

Method of Flared Gas Measurement: Flare Meter MCF Flared: 133.05

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 gas to a flare during an unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. In this case, gas compressor LP 4500 unit's malfunction occurred due to a high discharge temperature alarm, which was triggered by the combination of extremely high ambient temperatures and certain engine operating conditions, (despite proper design and operation) causing the compressors to overheat, which in turn prompted the engine's alarm sensor to abruptly shut down the unit to avoid catastrophic damage to the internal engine components. The heat of the day was exceeding 104 degrees at the time the compressor was operating and subsequent malfunction alarm occurred. The compressor unit was working and operating normally prior to the malfunction occurring. 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 OXY productions resolved the issues. Notwithstanding compressor design and operation, compressors are inherently dynamic and high external ambient temperatures can cause compressors to malfunction and shutdown with warning or advance notice. High external ambient temperatures can decrease the efficiency of the compressor unit coolers to maintain operability temperatures as well as increase the temperatures of the equipment itself from radiant heat. In addition, external high ambient temperatures can also raise the temperature of the incoming gas to the compressors as the radiant heat hits the flowlines the gas is flowing through; which in turn, this metal flowline shall increase the gas temperature, which causes the internal compressor temperature to rise as well. These gas compressors are engineered to shutdown at certain maximum external/internal temperatures in order to avoid catastrophic damage to the compressors.

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, 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, gas compressor LP 4500 unit's malfunction occurred due to a high discharge temperature alarm, which was triggered by the combination of extremely high ambient temperatures and certain engine operating conditions (despite proper design and operation) causing the compressors to overheat, which in turn prompted the engine's alarm sensor to abruptly shut down the unit to avoid catastrophic damage to the internal engine components. The heat of the day was exceeding 104 degrees at the time the compressor malfunction alarm occurred. The steps taken to limit duration and magnitude of flaring was for an Oxy production tech to quickly respond to the compressor malfunction alarm, inspect the unit, diagnose the issue, and make the necessary adjustments to 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 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 due to 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.

<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 37154

QUESTIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	37154
	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 venting 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>LP 4500 Compressor down, high discharge temperature, high ambient temperatures

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 (C02) percentage, if greater than one percent	93	
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	06/23/2021	
Time venting or flaring was discovered or commenced	05:00 PM	
Is the venting or flaring event complete	Yes	
Date venting or flaring was terminated	06/23/2021	
Time venting or flaring was terminated	05:40 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: 133 Mcf Recovered: 0 Mcf Lost: 133 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.

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 >Notwithstanding compressor design and operation, compressors are inherently dynamic and high external ambient temperatures can cause compressors to malfunction and shutdown with warning or advance notice.
Steps taken to limit the duration and magnitude of venting or flaring	See Justification Form >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 >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 due to 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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CONDITIONS

Action 37154

CONDITIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	37154
	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.	7/20/2021