Pantechs Laboratories, Inc. - Order: 4172-8441 - 2/20/2025 - South Hobbs Unit - Compressor Suction and Discharge Samples at South Hobbs Battery

PANTECHS LABORATORIES

ANALYSIScertificate

OPERATOR	Occidental Permian Ltd.	PRESSURE	30 psig
LOCATION	South Hobbs Unit 31920	SAMPLE/ATM TEMP	40 F / 27 F
SITE	Central Tank Battery	COLLECTION DATE/TIME	02/20/2025 11:27 AM
SAMPLE POINT	Compressor Suction	COLLECTION BY	Cody Carson
METER ID		SPOT/COMPOSITE	Spot
CONTAINER(S)	PL3019	PRESSURE/TEMP BASE	14.650 psi/60 F

ONSITE TESTING - STAIN TUBE

METHOD	COMPOUND	MOL%	GRAINS/100 SCF	PPMV	LB/MMSCF
GPA2377	hydrogen sulfide	1.3649	866.73	13,781.0	650.0

FRACTIONAL: GPA 2261-20

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.0925	0.0569	
CARBON DIOXIDE	CO2	88.1706	85.1966	14.857
HYDROGEN SULFIDE	H2S	1.3649	1.0213	0.182
METHANE	C1	0.5453	0.1921	0.091
ETHANE	C2	0.4164	0.2749	0.110
PROPANE	C3	2.1872	2.1176	0.595
I-BUTANE	iC4	0.9443	1.2050	0.305
N-BUTANE	nC4	2.5548	3.2603	0.801
I-PENTANE	iC5	1.0977	1.7389	0.396
N-PENTANE	nC5	0.8704	1.3788	0.312
HEXANES PLUS	C6+	1.7559	3.5576	0.721
TOTALS:		100.0000	100.0000	18.370

Value of "0.0000" in fractional interpreted as below detectable limit.

LIQUID YIELD (GAL/MSCF)

ETHANE+	PROPANE+	BUTANES+	PENTANES+	26 PSI RVP	10 PSI RVP
3.240	3.130	2.535	1.429		

CALCULATED PROPERTIES: GPA 2172/ASTM D3588

PROPERTY	BTU/CF GROSS	BTU/CF NET	SPECIFIC GR.	Z FACTOR	MOL WEIGHT	WOBBE INDX
DRY	358.90	331.49	1.583	0.993	45.546	285.25
H2O SAT	353.86	326.01	1.546	0.992	44.750	284.59

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility ID: fJXK1520829861
Operator: Occidental Permian LTD.
Facility: South Hobbs CTB
Flare Date: 05/18/2025
Duration of Event: 50 Minutes
MCF Flared: 58
Start Time: 06:56 PM
End Time: 07:46 PM
Cause: Emergency Flare > Compressor Malfunction > Low DP
Method of Flared Gas Measurement: Gas 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 by good design, operation, and preventative maintenance practices. Oxy engages in respectable and effective facility operation practices while maintaining a continuous preventative maintenance program for its equipment. In this instance, the 4500 compressor unit at the facility shut down due to lube oil differential pressure across the filters being low caused by bad filters. This incident was unforeseen, unavoidable, and occurred without prior notice or warning. Compressor malfunctions can occur without warning and therefore, Oxy is unable to predict, avoid, or prevent this type of equipment malfunction from occurring. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once lube oil filters were swapped. The occurrence of this event was beyond OXY's control. OXY took all possible measures to manage and reduce emissions to the greatest extent.

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

It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has 98% combustion efficiency to lessen emissions as much as possible. In this instance, lube oil differential pressure across the filters being low caused by bad filters caused the 4500 compressor to shut down. The field was then contacted to shut down to stop the flare. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. OXY controlled and minimized emissions during this event, by manually choking back wells and ensuring operational equipment was gradually returned to normal operations and running efficiently once lube oil filters were swapped. This event occurred beyond OXY's control, and all possible measures were taken to manage and reduce emissions.

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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 471117
	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 471117

QUESTIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 471117
	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	*Unavailable.*
Incident Facility	**[fJXK1520829861] South Hobbs Unit CTB**

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 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 > Compressor Malfunction > Low DP

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	13,649
Carbon Dioxide (C02) percentage, if greater than one percent	88
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.*

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QUESTIONS (continued)

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 471117
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/18/2025
Time vent or flare was discovered or commenced	06:56 PM
Time vent or flare was terminated	07:46 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: 58 Mcf | Recovered: 0 Mcf | Lost: 58 Mcf.
Other Released Details	Cause: Other | Other (Specify) | Carbon Dioxide | Released: 138 Mcf | Recovered: 0 Mcf | Lost: 138 Mcf.
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	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 by good design, operation, and preventative maintenance practices. Oxy engages in respectable and effective facility operation practices while maintaining a continuous preventative maintenance program for its equipment. In this instance, the 4500compressor unit at the facility shut down due to a low lube oil differential pressure across the filters being low caused by bad filters. This incident was unforeseen, unavoidable, and occurred without prior notice or warning. Compressor malfunctions can occur without warning and therefore, Oxy is unable to predict, avoid, or prevent this type of equipment malfunction from occurring. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once lube oil filters were swapped. The occurrence of this event was beyond OXY's control. OXY took all possible measures to manage and reduce emissions to the greatest extent.
	It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, that is beyond Oxy's control to avoid, prevent or foresee, to minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. The flare at this facility has 98% combustion efficiency to lessen

Steps taken to limit the duration and magnitude of vent or flare	emissions as much as possible. In this instance, a low lube oil differential pressure alarm caused the 4500 compressor to shut down. The field was then contacted to shut down to stop the flare. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. OXY controlled and minimized emissions during this event, by manually choking back wells and ensuring operational equipment was gradually returned to normal operations and running efficiently once lube oil filters were swapped. This event occurred beyond OXY's control, and all possible measures were taken to manage and reduce emissions.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	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.

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ACKNOWLEDGMENTS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 471117
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	157984
	Action Number: 471117
	Action Type: [C-129] Venting and/or Flaring (C-129)

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.	6/5/2025