Listed below are the volume calculations that were determined for this flare event:

	Information	Volumes	Methodology
A.	Flare Volume:	183	Gas Volume Field Personnel Reported
B.	CO2 Percentage:	88.17%	Gas Analysis - Feb 2025
C.	Hydrocarbon Percentage:	11.83%	Gas Analysis - Feb 2025
D.	Hydrocarbon Volume:	22	(1-co2 mol%) /100 * total volume
E.	CO2 Volume:	161	(co2 mol%)/100) * total volume





ANALYTICALreport

2/28/2025

Customer:	Occidental Permian Ltd.
Location:	South Hobbs Unit 31920
Order:	4172-8441
Received:	2/20/2025
Primary Contact:	Richard Sanders
Description:	Compressor Suction and Discharge Samples at South Hobbs Battery

REPORT DISTRIBUTION:

Richard Sanders

All data reported in this Report is in compliance with the test method(s) performed as of the date noted above. The validity and integrity of this report will remain intact as long as it is accompanied by this page and reproduced in full. Any datafile (e.g. txt, csv, etc.) produced which is associated with the results in this report shall be considered for convenience only and does not supersede this report as the official test results. We reserve the right to return to you any unused samples received if we consider so necessary (e.g. samples identified as hazardous waste).

We appreciate you choosing Pantechs Laboratories. If you have any questions concerning this report, please feel free to contact us at any time.

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

COLLECTION LIST- 2

FLUID	OPERATOR	LOCATION	SITE	SAMPLE POINT	DATE	TIME
Gas	Occidental Permian Ltd.	South Hobbs Unit	Central Tank Battery	Compressor Discharge	2/20/2025	11:28 AM
Gas	Occidental Permian Ltd.	South Hobbs Unit	Central Tank Battery	Compressor Suction	2/20/2025	11:27 AM

PLANNED COLLECTION NOT PERFORMED - 1

OPERATOR	LOCATION	SITE	SAMPLE POINT	COMMENT
Occidental Permian Ltd.	South Hobbs Unit	Central Tank Battery	Compressor Discharge	Sample Point All Water

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



ANALYSIScertificate

OPERATOR	Occidental Permian Ltd.	PRESSURE	N/A
LOCATION	South Hobbs Unit 31920	SAMPLE/ATM TEMP	N/A / N/A
SITE	Central Tank Battery	COLLECTION DATE/TIME	02/20/2025 11:28 AM
SAMPLE POINT	Compressor Discharge	COLLECTION BY	Cody Carson
METER ID		SPOT/COMPOSITE	Spot
CONTAINER(S)		PRESSURE/TEMP BASE	14.650 psi/60 F

2/20/2025 - Too wet to sample

COLLECTION NOT PERFORMED

Employee	Comment
Cody Carson	Sample Point All Water

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



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
H20 SAT	353.86	326.01	1.546	0.992	44.750	284.59

ANALYSIS METHODS AND DESCRIPTION

ITEM	METHOD	FLUID	DESCRIPTION
NGC6+	GPA 2261-20	Gas	Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography through C6+
OSST	GPA 2377	Gas	Test for Hydrogen Sulfide and Carbon Dioxide in Natural Gas Using Length of Stain Tubes

SAMPLING METHODS AND DESCRIPTION

FLUID	METHOD	DESCRIPTION
GAS	GPA 2166-22	Obtaining Natural Gas Samples for Analysis by Gas Chromatography
LIQUID	GPA 2174-20	Obtaining Liquid Hydrocarbons Samples For Analysis by Gas Chromatography

CALCULATION METHODS AND DESCRIPTION

METHOD	DESCRIPTION
GPA 2145-16	Table of Physical Properties for Hydrocarbons and Other Compounds of Interest to the Natural Gas and Natural Gas Liquids Industries
GPA 2172-19	Calculation of Gross Heating Value, Relative Density, Compressibility and Theoretical Hydrocarbon Liquid Content for Natural Gas Mixtures for Custody Transfer
ASTM 3588	Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels

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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

QUESTIONS

Action 445609

QUESTIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	445609
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2507943592	
Incident Name	NAPP2507943592 SOUTH HOBBS CTB @ 0	
Incident Type	Flare	
Incident Status	Initial C-141 Received	
Incident Facility	[fJXK1520829861] South Hobbs Unit CTB	

Location of Release Source	
Please answer all the questions in this group.	
Site Name	South Hobbs CTB
Date Release Discovered	02/21/2024
Surface Owner	Private

Incident Details		
Please answer all the questions in this group.		
Incident Type	Flare	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release			
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.			
Crude Oil Released (bbls) Details	Not answered.		
Produced Water Released (bbls) Details	Not answered.		
Is the concentration of chloride in the produced water >10,000 mg/l	No		
Condensate Released (bbls) Details	Not answered.		
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure Gas Compressor Station Natural Gas Flared Released: 14 MCF Recovered: 0 MCF Lost: 14 MCF.		
Other Released Details	Cause: Equipment Failure Gas Compressor Station Carbon Dioxide Released: 169 MCF Recovered: 0 MCF Lost: 169 MCF.		
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.		

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QUESTIONS, Page 2

Action 445609

QUESTI	ONS (continued)
Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984 Action Number: 445609
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	
Nature and Volume of Release (continued)	
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.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s The source of the release has been stopped	
The impacted area has been secured to protect human health and the environment	True True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Shaina Rojas Title: Specialist Environmental Email: Shaina_rojas@oxy.com Date: 03/27/2025

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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

QUESTIONS, Page 3

Action 445609

QUESTIONS (continued)

Operator:		OGRID:
	OCCIDENTAL PERMIAN LTD	157984
	P.O. Box 4294	Action Number:
	Houston, TX 772104294	445609
		Action Type:
		[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS Site Characterization Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the What is the shallowest depth to groundwater beneath the area affected by the Not answered. release in feet below ground surface (ft bgs) What method was used to determine the depth to ground water Not answered. Did this release impact groundwater or surface water Not answered What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A continuously flowing watercourse or any other significant watercourse Not answered Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Not answered. An occupied permanent residence, school, hospital, institution, or church Not answered. A spring or a private domestic fresh water well used by less than five households Not answered. for domestic or stock watering purposes Any other fresh water well or spring Not answered. Incorporated municipal boundaries or a defined municipal fresh water well field Not answered. Not answered. A subsurface mine Not answered. An (non-karst) unstable area Not answered. Categorize the risk of this well / site being in a karst geology A 100-year floodplain Not answered. Did the release impact areas not on an exploration, development, production, or Not answered. storage site

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in acco	rdance with the physical realities encountered during remediation. If the responsible party has any need to

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CONDITIONS

Action 445609

CONDITIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	445609
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	3/27/2025