

**PANTECHS LABORATORIES, INC.**

*Leaders in Petroleum Analytical Services*  
*www.pantechs.com*

# Analytical Report

12/26/2024

<b>Customer:</b>	Occidental Permian Ltd.	<b>Order:</b>	4690-7807
<b>Location:</b>	South Hobbs RCF	<b>Received:</b>	12/17/2024
<b>Description:</b>	Monthly Collection	<b>Primary Contact:</b>	Richard Sanders

**REPORT DISTRIBUTION:**

Benny Friessen , Brian Carlisle , Chauncia Farayola , Chip Mitchell , Chris Poe , Dillon Hart , Erica Zuniga , Femi Serrano , Gregory Hartmann , Jason Cary , Jonathon Coronado , Justin Saxon , Kenley Powell , Mario Guerrero , Mellitanya Stephenson , Nicolas Rodriguez , Richard Alvarado , Richard Sanders , Seth Spear , Shelby Schoepf

All data reported in this Analytical 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.

Sample List						
Fluid	Operator	Location	Site	Sample Point	Date	Time
CO2	Occidental Permian Ltd.	New Mexico Measurement	SHU7200	SHRCF Plant CO2 Discharge	12/17/2024	11:41 AM
Gas	Occidental Permian Ltd.	New Mexico Measurement	FE1022	SHU Battery 31C Meter Run	12/17/2024	10:42 AM
Gas	Occidental Permian Ltd.	New Mexico Measurement	FE7100	North Hobbs to South Hobbs	12/17/2024	11:11 AM
Gas	Occidental Permian Ltd.	New Mexico Measurement	SHU1013	SHRCF Plant Inlet	12/17/2024	11:35 AM
Gas	Occidental Permian Ltd.	South Hobbs RCF	DEX PRO	Inlet	12/17/2024	11:22 AM
Gas	Occidental Permian Ltd.	South Hobbs RCF	DEX PRO	Outlet	12/17/2024	11:23 AM
Liquid	Occidental Permian Ltd.	South Hobbs RCF	DEX PRO	Gasoline	12/17/2024	11:17 AM

No Sample List				
Operator	Location	Site	Sample Point	Comment

Pantechs Laboratories, Inc. - Order: 4690-7807 - 12/17/2024 - South Hobbs RCF - Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	1655 psig
Location	New Mexico Measurement	Sample Temp	103 F
Site	SHU7200	Atm Temp	60 F
Site Type	Meter	Collection Date	12/17/2024
Sample Point	SHRCF Plant CO2 Discharge	Collection Time	11:41 AM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID	SHU7200	Pressure Base	15.025 psi
Regulatory ID		Temperature Base	60 F
Fluid	CO2	Container(s)	YZ12123

GPA 2177-20 CO2 Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	3.781	2.399	2.515
CARBON DIOXIDE	CO2	85.806	84.629	89.654
HYDROGEN SULFIDE	H2S	1.526	1.190	1.235
METHANE	C1	4.713	4.622	1.795
ETHANE	C2	0.872	1.350	0.623
PROPANE	C3	1.670	2.663	1.748
I-BUTANE	iC4	0.401	0.759	0.553
N-BUTANE	nC4	0.830	1.514	1.145
I-PENTANE	iC5	0.196	0.415	0.336
N-PENTANE	nC5	0.122	0.256	0.209
HEXANES PLUS	C6+	0.083	0.203	0.187
TOTALS:		100.000	100.000	100.000

Value of "0.000" in fractional interpreted as below detectable limit. Onsite H2S value is used in fractional table if performed.

Liquid Phase Properties

SCF/Gal (Ideal)	SCF/Gal (Real)	Mol Weight	Relative Density (60/60)	Vapor Pressure 100F, psia
56.730	56.402	42.121	0.772	10.0

Vapor Phase Properties

ITEM	BTU/CF	Specific Gr.	Z Factor
DRY	176.70	1.462	0.994
WATER SATURATED	174.62	1.449	0.994

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV	LB/MMSCF
GPA2377	hydrogen sulfide	1.5258	968.87	15,405.0	726.6

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 4690-7807 - 12/17/2024 - South Hobbs RCF - Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	323 psig
Location	New Mexico Measurement	Sample Temp	71 F
Site	FE1022	Atm Temp	60 F
Site Type	Meter	Collection Date	12/17/2024
Sample Point	SHU Battery 31C Meter Run	Collection Time	10:42 AM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID	FE1022	Pressure Base	15.025 psi
Regulatory ID		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1019

**GPA 2261-20 Gas Fractional Analysis**

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.794	1.882	0.314
CARBON DIOXIDE	CO2	84.879	89.821	14.842
HYDROGEN SULFIDE	H2S	0.661	0.542	0.091
METHANE	C1	7.486	2.888	1.302
ETHANE	C2	1.171	0.847	0.321
PROPANE	C3	1.586	1.682	0.448
I-BUTANE	iC4	0.259	0.362	0.087
N-BUTANE	nC4	0.550	0.769	0.178
I-PENTANE	iC5	0.193	0.335	0.072
N-PENTANE	nC5	0.156	0.271	0.058
HEXANES PLUS	C6+	0.265	0.601	0.116
TOTALS:		100.000	100.000	17.829

Value of "0.000" in fractional interpreted as below detectable limit. Onsite H2S value is used in fractional table if performed.

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.280	0.959	0.511	0.246	0.375	0.218

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

WATER CONTENT	BTU/CF, Gross	BTU/CF, Net	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	199.95	182.78	1.444	0.994	41.588	166.41
SATURATED	197.49	179.65	1.430	0.994	40.879	

**Onsite Testing by Stain Tube**

METHOD	TYPE	MOL%	GRAINS/100	PPMV	LB/MMSCF
GPA2377	hydrogen sulfide	0.6608	419.62	6,672.0	314.7

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 4690-7807 - 12/17/2024 - South Hobbs RCF - Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	325 psig
Location	New Mexico Measurement	Sample Temp	65 F
Site	FE7100	Atm Temp	60 F
Site Type	Meter	Collection Date	12/17/2024
Sample Point	North Hobbs to South Hobbs	Collection Time	11:11 AM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID	FE7100	Pressure Base	15.025 psi
Regulatory ID		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1601

**GPA 2261-20 Gas Fractional Analysis**

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.809	1.893	0.316
CARBON DIOXIDE	CO2	84.823	89.813	14.832
HYDROGEN SULFIDE	H2S	0.669	0.549	0.092
METHANE	C1	7.523	2.904	1.308
ETHANE	C2	1.177	0.852	0.323
PROPANE	C3	1.590	1.687	0.449
I-BUTANE	iC4	0.261	0.365	0.088
N-BUTANE	nC4	0.552	0.772	0.179
I-PENTANE	iC5	0.193	0.335	0.072
N-PENTANE	nC5	0.155	0.269	0.058
HEXANES PLUS	C6+	0.248	0.562	0.108
TOTALS:		100.000	100.000	17.825

Value of "0.000" in fractional interpreted as below detectable limit. Onsite H2S value is used in fractional table if performed.

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.277	0.954	0.505	0.238	0.361	0.205

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

WATER CONTENT	BTU/CF, Gross	BTU/CF, Net	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	199.76	182.58	1.443	0.994	41.564	166.30
SATURATED	197.30	179.45	1.430	0.994	40.856	

**Onsite Testing by Stain Tube**

METHOD	TYPE	MOL%	GRAINS/100	PPMV	LB/MMSCF
GPA2377	hydrogen sulfide	0.6691	424.91	6,756.1	318.6

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 4690-7807 - 12/17/2024 - South Hobbs RCF - Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	293 psig
Location	New Mexico Measurement	Sample Temp	62 F
Site	SHU1013	Atm Temp	60 F
Site Type	Meter	Collection Date	12/17/2024
Sample Point	SHRCF Plant Inlet	Collection Time	11:35 AM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID	SHU1013	Pressure Base	15.025 psi
Regulatory ID		Temperature Base	60 F
Fluid	Gas	Container(s)	PL0965

GPA 2261-20 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.566	1.690	0.289
CARBON DIOXIDE	CO2	87.007	90.030	15.218
HYDROGEN SULFIDE	H2S	0.563	0.451	0.078
METHANE	C1	4.942	1.864	0.860
ETHANE	C2	0.891	0.630	0.245
PROPANE	C3	1.752	1.816	0.495
I-BUTANE	iC4	0.452	0.618	0.152
N-BUTANE	nC4	1.008	1.377	0.326
I-PENTANE	iC5	0.320	0.543	0.120
N-PENTANE	nC5	0.227	0.385	0.084
HEXANES PLUS	C6+	0.272	0.596	0.119
TOTALS:		100.000	100.000	17.986

Value of "0.000" in fractional interpreted as below detectable limit. Onsite H2S value is used in fractional table if performed.

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.541	1.296	0.801	0.323	0.477	0.234

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF, Gross	BTU/CF, Net	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	202.33	185.55	1.477	0.994	42.533	166.49
SATURATED	199.83	182.38	1.463	0.994	41.808	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV	LB/MMSCF
GPA2377	hydrogen sulfide	0.5630	357.48	5,683.9	268.1

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 4690-7807 - 12/17/2024 - South Hobbs RCF - Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	280 psig
Location	South Hobbs RCF	Sample Temp	58 F
Site	DEX PRO	Atm Temp	60 F
Site Type	Station	Collection Date	12/17/2024
Sample Point	Inlet	Collection Time	11:22 AM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.650 psi
Regulatory ID		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1807

GPA 2261-20 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.506	1.651	0.275
CARBON DIOXIDE	CO2	86.946	89.988	14.826
HYDROGEN SULFIDE	H2S	0.662	0.531	0.089
METHANE	C1	4.997	1.885	0.847
ETHANE	C2	0.912	0.645	0.244
PROPANE	C3	1.741	1.805	0.480
I-BUTANE	iC4	0.438	0.599	0.143
N-BUTANE	nC4	0.960	1.312	0.303
I-PENTANE	iC5	0.303	0.514	0.111
N-PENTANE	nC5	0.220	0.373	0.080
HEXANES PLUS	C6+	0.315	0.697	0.134
TOTALS:		100.000	100.000	17.532

Value of "0.000" in fractional interpreted as below detectable limit. Onsite H2S value is used in fractional table if performed.

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.495	1.251	0.771	0.325	0.487	0.259

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF, Gross	BTU/CF, Net	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	197.90	181.54	1.476	0.994	42.523	162.87
SATURATED	195.41	178.37	1.462	0.994	41.780	

Onsite Testing by Stain Tube

METHOD	TYPE	MOL%	GRAINS/100	PPMV	LB/MMSCF
GPA2377	hydrogen sulfide	0.6615	420.06	6,679.0	315.0

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. - Order: 4690-7807 - 12/17/2024 - South Hobbs RCF - Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	270 psig
Location	South Hobbs RCF	Sample Temp	58 F
Site	DEX PRO	Atm Temp	60 F
Site Type	Station	Collection Date	12/17/2024
Sample Point	Outlet	Collection Time	11:23 AM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.650 psi
Regulatory ID		Temperature Base	60 F
Fluid	Gas	Container(s)	PL2202

**GPA 2261-20 Gas Fractional Analysis**

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.019	1.334	0.221
CARBON DIOXIDE	CO2	88.155	91.514	15.030
HYDROGEN SULFIDE	H2S	0.649	0.522	0.087
METHANE	C1	4.995	1.890	0.847
ETHANE	C2	0.911	0.646	0.244
PROPANE	C3	1.676	1.743	0.462
I-BUTANE	iC4	0.409	0.561	0.134
N-BUTANE	nC4	0.796	1.091	0.251
I-PENTANE	iC5	0.190	0.323	0.070
N-PENTANE	nC5	0.122	0.208	0.044
HEXANES PLUS	C6+	0.078	0.168	0.033
TOTALS:		100.000	100.000	17.423

Value of "0.000" in fractional interpreted as below detectable limit. Onsite H2S value is used in fractional table if performed.

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.238	0.994	0.532	0.147	0.208	0.071

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

WATER CONTENT	BTU/CF, Gross	BTU/CF, Net	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	168.98	154.67	1.472	0.994	42.395	139.29
SATURATED	166.98	151.96	1.458	0.994	41.654	

**Onsite Testing by Stain Tube**

METHOD	TYPE	MOL%	GRAINS/100	PPMV	LB/MMSCF
GPA2377	hydrogen sulfide	0.6494	412.39	6,557.0	309.2

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.



Pantechs Laboratories, Inc. - Order: 4690-7807 - 12/17/2024 - South Hobbs RCF - Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	260 psig
Location	South Hobbs RCF	Sample Temp	N/A
Site	DEX PRO	Atm Temp	60 F
Site Type	Station	Collection Date	12/17/2024
Sample Point	Gasoline	Collection Time	11:17 AM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.650 psi
Regulatory ID		Temperature Base	60 F
Fluid	Liquid	Container(s)	PL2229 , PL2213

GPA 2177-20 Liquid Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	0.029	0.010	0.013
CARBON DIOXIDE	CO2	24.502	13.780	17.471
HYDROGEN SULFIDE	H2S	0.233	0.104	0.129
METHANE	C1	0.299	0.167	0.078
ETHANE	C2	1.115	0.984	0.543
PROPANE	C3	9.737	8.853	6.957
I-BUTANE	iC4	6.441	6.953	6.065
N-BUTANE	nC4	19.038	19.804	17.928
I-PENTANE	iC5	12.328	14.891	14.411
N-PENTANE	nC5	10.318	12.331	12.061
HEXANES PLUS	C6+	15.960	22.123	24.344
TOTALS:		100.000	100.000	100.000

Value of "0.000" in fractional interpreted as below detectable limit.

Calculated Properties

SCF/Gal (Ideal)	SCF/Gal (Real)	Mol Weight	Relative Density (60/60)	Vapor Pressure 100F, psia	Reid VP Equivalent, psi
33.179	32.073	61.722	0.641	38.7	36.5

Fluid Determination by Gravity Separation

FLUID	VOLUME	UNITS	PERCENT OF TOTAL
Water	0.50	ml	0.36%
Liquid	139.50	ml	99.64%
TOTAL:	140.00	ml	100.00%

SEPARATION IMAGE



**Analysis Methods And Description**

ITEM	METHOD	FLUID	DESCRIPTION
COGSEP		Liquid	Fluid Volume Determination in a single sample by Gravity Separation
NGC6+	GPA 2261-20	Gas	Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography through C6+
NGLC6+	GPA 2177-20	CO2	Analysis of Natural Gas Liquid Mixtures Containing Nitrogen and Carbon Dioxide by Gas Chromatography Through C6+
NGLC6+	GPA 2177-20	Liquid	Analysis of Natural Gas Liquid Mixtures Containing Nitrogen and Carbon Dioxide by Gas Chromatography Through C6+
OSST	GPA 2377	CO2	Test for Hydrogen Sulfide and Carbon Dioxide in Natural Gas Using Length of Stain Tubes
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	Obtaining Natural Gas Samples for Analysis by Gas Chromatography
Liquid	GPA 2174	Obtaining Liquid Hydrocarbons Samples For Analysis by Gas Chromatography

**Calculation Methods And Description**

Method	Description
GPA 2145	Table of Physical Properties for Hydrocarbons and Other Compounds of Interest to the Natural Gas and Natural Gas Liquids Industries
GPA 2172	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

THIS PAGE IS INTENTIONALLY LEFT BLANK

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** South Hobbs RCF**Flare Date:** 1/21/2025**Duration of event:** 7 Hours 16 Minutes**MCF Flared:** 152**Start Time:** 3:29 AM**End Time:** 10:45 AM**Cause:** Emergency Flare > Train B Compressor Shutdown > High-High Reinjection Pressure Alarm**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:** This upset event was not caused by any wells associated with the facility

---

**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 good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, field lost the LP compressor at B Train due to high reinjection pressure alarm. 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. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. All other compression at the facility was operating as designed and were running normally prior to the malfunctions occurring. The duration and volume of this event is a collective of all intermittent flaring instances within a 24-period.

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

This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, plant shut in was necessary to get

off the flare until operations began troubleshooting and diagnosing compressor and once repairs were made, unit was made ready to start up. OXY made every effort to control and minimize emissions as much as possible during this event.

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

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring 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 all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. 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 all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.

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

Action 441827

DEFINITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 441827
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <ul style="list-style-type: none"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
---

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 441827

**QUESTIONS**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 441827
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b> <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fJXK1530631838] SOUTH HOBBS UNIT RCF

<b>Determination of Reporting Requirements</b> <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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.
<i>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.</i>	
Was there <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Train B Compressor Shutdown > High-High Reinjection Pressure Alarm

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	5
Nitrogen (N2) percentage, if greater than one percent	3
Hydrogen Sulfide (H2S) PPM, rounded up	6,620
Carbon Dioxide (CO2) percentage, if greater than one percent	87
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.



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, Page 2

Action 441827

**QUESTIONS (continued)**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 441827
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/21/2025
Time vent or flare was discovered or commenced	03:29 AM
Time vent or flare was terminated	10:45 AM
Cumulative hours during this event	7

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	Cause: High Line Pressure   Other (Specify)   Natural Gas Flared   Released: 105 Mcf   Recovered: 0 Mcf   Lost: 105 Mcf.
Other Released Details	Cause: High Line Pressure   Other (Specify)   Carbon Dioxide   Released: 199 Mcf   Recovered: 0 Mcf   Lost: 199 Mcf.
Additional details for Measured or Estimated Volume(s). Please specify	76 MCF Assist Gas
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	<i>Not answered.</i>
Downstream OGRID that should have notified this operator	<i>Not answered.</i>
Date notified of downstream activity requiring this vent or flare	<i>Not answered.</i>
Time notified of downstream activity requiring this vent or flare	<i>Not answered.</i>

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	<p>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 good facility operation practices while also maintaining its continuous facility equipment preventative maintenance program. In this case, field lost the LP compressor at B Train due to high reinjection pressure alarm. 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. Compressor engines are designed to operate in a precise manner and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. All other compression at the facility was operating as designed and were running normally prior to the malfunctions occurring. The duration and volume of this event is a collective of all intermittent flaring instances within a 24-period.</p> <p>This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walk-throughs to ensure that there are no problems, circumstances and/or</p>

Steps taken to limit the duration and magnitude of vent or flare	assist other personnel on-site for maintenance purposes. It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable emergency or malfunction, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, plant shut in was necessary to get off the flare until operations began troubleshooting and diagnosing compressor and once repairs were made, unit was made ready to start up. OXY made every effort to control and minimize emissions as much as possible during this event.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring 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 all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. 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 all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they continue to occur suddenly and without warning.

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**

ACKNOWLEDGMENTS

Action 441827

**ACKNOWLEDGMENTS**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 441827
	Action Type: [C-129] Venting and/or Flaring (C-129)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a <b>complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.

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

CONDITIONS

Action 441827

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 441827
	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.	3/12/2025