

**PANTECHS LABORATORIES, INC.**

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Analytical Report

3/17/2023

Customer:	Occidental Permian Ltd.	Order:	73-4337
Location:	South Hobbs RCF	Received:	3/14/2023
Description:	Monthly Collection	Primary Contact:	Richard Sanders

REPORT DISTRIBUTION:

Brian Carlisle , Chauncia Farayola , Chip Mitchell , Chris Poe , Dillon Hart , Erica Zuniga , Femi Serrano , Jason Cary , Jonathon Coronado , Justin Saxon , Kenley Powell , Kevin Mulkern , Mario Guerrero , Mellitanya Stephenson , Richard Alvarado , Richard Sanders , Shelby Schoepf

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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: 73-4337 Order Date: 3/14/2023
Order Description: South Hobbs RCF, Monthly Collection

Sample List						
Fluid	Operator	Location	Site	Sample Point	Date	Time
CO2	Occidental Permian Ltd.	Central Measurement Group	SHU7200	SHRCF Plant CO2 Discharge	3/14/2023	11:14 AM
Gas	Occidental Permian Ltd.	Central Measurement Group	FE1022	SHU Battery 31C Meter Run	3/14/2023	10:21 AM
Gas	Occidental Permian Ltd.	Central Measurement Group	FE7100	North Hobbs to South Hobbs	3/14/2023	11:05 AM
Gas	Occidental Permian Ltd.	Central Measurement Group	SHU1013	SHRCF Plant Inlet	3/14/2023	11:03 AM
Gas	Occidental Permian Ltd.	South Hobbs RCF	DEX PRO	Inlet	3/14/2023	10:56 AM
Gas	Occidental Permian Ltd.	South Hobbs RCF	DEX PRO	Outlet	3/14/2023	10:57 AM
Liquid	Occidental Permian Ltd.	South Hobbs RCF	DEX PRO	Gasoline	3/14/2023	10:55 AM

No Sample List				
Operator	Location	Site	Sample Point	Comment

Pantechs Laboratories, Inc. - Order: 73-4337 - Order Date: 3/14/2023

Order Description: South Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	1554 psig
Location	Central Measurement Group	Sample Temp	N/A
Site	SHU7200	Atm Temp	50 F
Site Type	Meter	Collection Date	03/14/2023
Sample Point	SHRCF Plant CO2 Discharge	Collection Time	11:14 AM
Spot/Comp	Spot	Collection By	Mike McKinney
Meter ID	SHU7200	Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	CO2	Container(s)	YZ13213

GPA 2177 CO2 Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	5.439	3.467	3.663
CARBON DIOXIDE	CO2	83.954	83.183	88.837
HYDROGEN SULFIDE	H2S	0.593	0.464	0.486
METHANE	C1	5.877	5.791	2.267
ETHANE	C2	0.946	1.471	0.684
PROPANE	C3	1.631	2.613	1.729
I-BUTANE	iC4	0.386	0.734	0.539
N-BUTANE	nC4	0.802	1.470	1.121
I-PENTANE	iC5	0.191	0.406	0.331
N-PENTANE	nC5	0.117	0.246	0.203
HEXANES PLUS	C6+	0.064	0.155	0.140
TOTALS:		100.000	100.000	100.000

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

If Onsite H2S testing is performed, its resulting value is used in fractional table

Liquid Phase Properties

SCF/Gal (Ideal)	SCF/Gal (Real)	Mol Weight	Relative Density (60/60)	Vapor Pressure 100F, psia
58.450	58.134	41.591	0.766	307.6

Vapor Phase Properties

ITEM	BTU/CF	Specific Gr.	Z Factor
DRY	175.54	1.443	0.995
WATER SATURATED	173.43	1.430	0.994

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.55 VOL%	0.5930	376.53	5,986.8

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

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	294 psig
Location	Central Measurement Group	Sample Temp	N/A
Site	FE1022	Atm Temp	46 F
Site Type	Meter	Collection Date	03/14/2023
Sample Point	SHU Battery 31C Meter Run	Collection Time	10:21 AM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID	FE1022	Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1647

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.195	1.481	0.241
CARBON DIOXIDE	CO2	85.083	90.200	14.504
HYDROGEN SULFIDE	H2S	0.588	0.483	0.079
METHANE	C1	7.990	3.088	1.354
ETHANE	C2	1.240	0.898	0.332
PROPANE	C3	1.581	1.679	0.436
I-BUTANE	iC4	0.241	0.337	0.079
N-BUTANE	nC4	0.516	0.722	0.163
I-PENTANE	iC5	0.184	0.320	0.067
N-PENTANE	nC5	0.142	0.247	0.051
HEXANES PLUS	C6+	0.240	0.545	0.102
TOTALS:		100.000	100.000	17.408

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.230	0.898	0.462	0.220	0.335	0.192

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	196.74	1.441	0.994	41.513	163.90
WATER SATURATED	194.27	1.427	0.994	40.788	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.55 VOL%	0.5883	373.57	5,939.8

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

Order Description: South Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	304 psig
Location	Central Measurement Group	Sample Temp	N/A
Site	FE7100	Atm Temp	50 F
Site Type	Meter	Collection Date	03/14/2023
Sample Point	North Hobbs to South Hobbs	Collection Time	11:05 AM
Spot/Comp	Spot	Collection By	Mike McKinney
Meter ID	FE7100	Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL0746

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.234	1.508	0.245
CARBON DIOXIDE	CO2	85.049	90.198	14.498
HYDROGEN SULFIDE	H2S	0.485	0.398	0.065
METHANE	C1	8.065	3.118	1.367
ETHANE	C2	1.247	0.904	0.334
PROPANE	C3	1.589	1.689	0.438
I-BUTANE	iC4	0.243	0.340	0.080
N-BUTANE	nC4	0.519	0.727	0.164
I-PENTANE	iC5	0.185	0.322	0.068
N-PENTANE	nC5	0.143	0.249	0.052
HEXANES PLUS	C6+	0.241	0.547	0.102
TOTALS:		100.000	100.000	17.413

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

If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.238	0.904	0.466	0.222	0.337	0.193

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	197.46	1.440	0.994	41.497	164.53
WATER SATURATED	194.97	1.427	0.994	40.772	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.45 VOL%	0.4851	308.07	4,898.3

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

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	262 psig
Location	Central Measurement Group	Sample Temp	N/A
Site	SHU1013	Atm Temp	50 F
Site Type	Meter	Collection Date	03/14/2023
Sample Point	SHRCF Plant Inlet	Collection Time	11:03 AM
Spot/Comp	Spot	Collection By	Mike McKinney
Meter ID	SHU1013	Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL2248

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.011	1.329	0.221
CARBON DIOXIDE	CO2	87.234	90.555	14.875
HYDROGEN SULFIDE	H2S	0.539	0.433	0.073
METHANE	C1	5.524	2.090	0.937
ETHANE	C2	0.980	0.695	0.262
PROPANE	C3	1.706	1.774	0.470
I-BUTANE	iC4	0.395	0.542	0.129
N-BUTANE	nC4	0.885	1.213	0.279
I-PENTANE	iC5	0.273	0.465	0.100
N-PENTANE	nC5	0.193	0.328	0.070
HEXANES PLUS	C6+	0.260	0.576	0.110
TOTALS:		100.000	100.000	17.526

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.420	1.158	0.688	0.280	0.417	0.215

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	193.75	1.472	0.994	42.396	159.69
WATER SATURATED	191.33	1.458	0.994	41.655	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.50 VOL%	0.5391	342.30	5,442.6

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

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	246 psig
Location	South Hobbs RCF	Sample Temp	N/A
Site	DEX PRO	Atm Temp	50 F
Site Type	Station	Collection Date	03/14/2023
Sample Point	Inlet	Collection Time	10:56 AM
Spot/Comp	Spot	Collection By	Mike McKinney
Meter ID		Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1916

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	1.954	1.290	0.214
CARBON DIOXIDE	CO2	87.426	90.708	14.907
HYDROGEN SULFIDE	H2S	0.431	0.346	0.058
METHANE	C1	5.513	2.085	0.935
ETHANE	C2	0.967	0.686	0.259
PROPANE	C3	1.684	1.751	0.464
I-BUTANE	iC4	0.419	0.574	0.137
N-BUTANE	nC4	0.887	1.215	0.280
I-PENTANE	iC5	0.279	0.475	0.102
N-PENTANE	nC5	0.197	0.335	0.071
HEXANES PLUS	C6+	0.243	0.535	0.103
TOTALS:		100.000	100.000	17.530

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.416	1.157	0.693	0.276	0.409	0.202

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	192.48	1.473	0.994	42.418	158.61
WATER SATURATED	190.08	1.459	0.994	41.677	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.40 VOL%	0.4312	273.84	4,354.1

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

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	237 psig
Location	South Hobbs RCF	Sample Temp	N/A
Site	DEX PRO	Atm Temp	50 F
Site Type	Station	Collection Date	03/14/2023
Sample Point	Outlet	Collection Time	10:57 AM
Spot/Comp	Spot	Collection By	Mike McKinney
Meter ID		Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1117

GPA 2261 Gas Fractional Analysis

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	2.004	1.329	0.220
CARBON DIOXIDE	CO2	87.994	91.667	15.002
HYDROGEN SULFIDE	H2S	0.431	0.348	0.058
METHANE	C1	5.505	2.091	0.933
ETHANE	C2	0.966	0.688	0.258
PROPANE	C3	1.628	1.699	0.449
I-BUTANE	iC4	0.367	0.505	0.120
N-BUTANE	nC4	0.744	1.024	0.235
I-PENTANE	iC5	0.178	0.304	0.065
N-PENTANE	nC5	0.112	0.191	0.041
HEXANES PLUS	C6+	0.071	0.154	0.030
TOTALS:		100.000	100.000	17.411

Value of "0.000" in fractional interpreted as below detectable limit.
If Onsite H2S testing is performed, its resulting value is used in fractional table

LIQUID YIELD	C2+	C3+	C4+	C5+	26# Liquid	10# Liquid
GAL/MSCF (GPM)	1.198	0.940	0.491	0.136	0.192	0.066

GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	168.21	1.466	0.994	42.246	138.91
WATER SATURATED	166.23	1.452	0.994	41.508	

Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.40 VOL%	0.4312	273.84	4,354.1

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

Order Description: South Hobbs RCF, Monthly Collection

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	250 psig
Location	South Hobbs RCF	Sample Temp	N/A
Site	DEX PRO	Atm Temp	50 F
Site Type	Station	Collection Date	03/14/2023
Sample Point	Gasoline	Collection Time	10:55 AM
Spot/Comp	Spot	Collection By	Mike McKinney
Meter ID		Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Liquid	Container(s)	PL0714

GPA 2177 Liquid Fractional Analysis

COMPOUND	FORMULA	MOL%	VOL%	WT%
NITROGEN	N2	0.021	0.008	0.010
CARBON DIOXIDE	CO2	42.450	26.339	31.942
HYDROGEN SULFIDE	H2S	0.412	0.202	0.240
METHANE	C1	0.394	0.243	0.108
ETHANE	C2	0.801	0.780	0.412
PROPANE	C3	6.816	6.837	5.139
I-BUTANE	iC4	4.444	5.292	4.416
N-BUTANE	nC4	13.213	15.165	13.131
I-PENTANE	iC5	8.764	11.679	10.811
N-PENTANE	nC5	7.306	9.633	9.013
HEXANES PLUS	C6+	15.379	23.822	24.778
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
36.605	35.632	58.487	0.675	54.2	51.4

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CO2 %	87.31%		
HC%	12.69%		
Flare Volume	585 mscfd		
HC Volume	74.2365 mscfd	NHU CTB	80.94
CO2 Volume	510.7635 mscfd	SHU CTB	81.28
		NHU WIB	93.595
		NHU NIB	94.461
		SHU RCF	87.31
		NHU RCF	88.02
		South Indian Basin CMPR STA	
		NDU	88.019

0.446

Reason why this event was beyond Operator's control:

Oxy engages in respectable and good facility operation practices while also maintaining its continuous equipment preventative maintenance program. Internal OXY procedures ensure that upon a gas spike from the field. Production techs are promptly notified via an equipment/flare alarm notification app and are trained to respond immediately in order to assess the issue as soon as possible, so that prompt corrective actions are taken to minimize emissions. Oxy production techs must assess whether a Gas spike causing to flare is due to damage and repair is needed, or whether there are other reasons for its cause.

In this case, the Oxy production tech determined that the cause of the compressor shutting down on a highliquid level was due to an inlet rate caused by the Field shutting in wells to do a tie in at VRU. When they were done with the tie-in, they brought back gas to South Hobbs RCF, This caused our compressor to have liquid in the 2nd stage scrubber. We were able to get 1 compressor up and running while B train Compressor was being drain from the 2nd stage scrubber, we also had trouble with 2nd stage had liquids. So it took several tries to get it up

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

It is OXY's policy to route all stranded sales gas to a flare during a sudden, unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure flame is lit and meeting opacity requirements. Notwithstanding compressor engine design and operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components.

In this case, the steps taken to limit duration and magnitude of flaring was for the Oxy production tech to reset the control panel and restart the unit. Unfortunately, the compressor unit failed to restart after several attempts, so the Oxy production tech went ahead and started a spare compression unit, located on-site, to minimize emissions and cease flaring.

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

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 or prevented by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during a sudden, unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to ensure flame is lit and meeting opacity requirements. Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions 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 Toromont compressor unit was working as designed and operated normally prior to the sudden and without warning automatic shutdown of the compressor unit. Oxy has a strong and positive compression equipment preventative maintenance program in place.

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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

DEFINITIONS

Action 396958

DEFINITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 396958
	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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 396958

QUESTIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 396958
	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	[fJXK1530631838] SOUTH HOBBS UNIT RCF

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 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	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	6
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	4,310
Carbon Dioxide (C02) percentage, if greater than one percent	87
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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS, Page 2
Action 396958

QUESTIONS (continued)

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 396958
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	10/16/2024
Time vent or flare was discovered or commenced	06:31 PM
Time vent or flare was terminated	07:37 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: 74 Mcf Recovered: 0 Mcf Lost: 74 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Gas Flare Meter
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	Oxy engages in respectable and good facility operation practices while also maintaining its continuous equipment preventative maintenance program. Internal OXY procedures ensure that upon a gas spike from the field. Production techs are promptly notified via an equipment/flare alarm notification app and are trained to respond immediately in order to assess the issue as soon as possible, so that prompt corrective actions are taken to minimize emissions. Oxy production techs must assess whether a Gas spike causing to flare is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, the Oxy production tech determined that the cause of the compressor shutting down on a high liquid level was due to a inlet rate caused by the Field shutting in wells to do a tie in at VRU. When they were done with the tie-in, they brought back gas to South Hobbs RCF, this caused our compressor to have liquid in the 2nd stage scrubber. We were able to get 1 compressor up and running while B train Compressor was being drain from the 2nd stage scrubber, we also had trouble with 2nd stage had liquids. So, it took several tries to get it up
	It is OXY's policy to route all stranded sales gas to a flare during a sudden, unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. Notwithstanding compressor engine design and

Steps taken to limit the duration and magnitude of vent or flare	operation, compressors are inherently dynamic and even the smallest alarms, false or true, can be sudden, reasonably unforeseeable and unexpected which can cause compression malfunctions to occur, thereby, triggering the unit's sensors to automatically shut down the unit to avoid catastrophic damage to the internal engine components. In this case, the steps taken to limit duration and magnitude of flaring was for the Oxy production tech to reset the control panel and restart the unit. Unfortunately, the compressor unit failed to restart after several attempts, so the Oxy production tech went ahead and started a spare compression unit, located on-site, to minimize emissions and cease flaring.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	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 or prevented by good design, operation, and preventative maintenance practices. It is OXY's policy to route all stranded sales gas to a flare during a sudden, unforeseen and unavoidable emergency or malfunction, in order to minimize emissions as much as possible. The flare at this facility has a 98% combustion efficiency in order to lessen emissions as much as possible. The flare is regularly monitored to the ensure flame is lit and meeting opacity requirements. Oxy is limited in the corrective actions available to them to eliminate the cause and potential reoccurrence of compressor malfunctions 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 Toromont compressor unit was working as designed and operated normally prior to the sudden and without warning automatic shutdown of the compressor unit. Oxy has a strong and positive compression equipment preventative maintenance program in place.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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
District IV
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

ACKNOWLEDGMENTS

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ACKNOWLEDGMENTS

☒	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 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

Action 396958

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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.	10/30/2024