

# Certificate of Analysis

Number: 6030-23120311-001A

**Artesia Laboratory** 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

**Chandler Montgomery** Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220

Jan. 11, 2024

Field: PERMIAN RESOURCES Sampled By: JΕ Station Name: Sand Dunes CTB Check Sample Of: Gas

Spot Station Number: 17000C Sample Date: 12/28/2023 09:20

Station Location: OP-L0901-BT002 Sample Conditions: 88 psig, @ 68 °F Ambient: 31 °F 12/28/2023 09:20 Sample Point: Meter Effective Date:

NEW\_MEXICO 17996 MSCFD Formation: Flow Rate: County: Method: GPA-2261M

Well Name: CTB Cylinder No: 5030-01063

Type of Sample: : Spot-Cylinder Instrument: 70104251 (Inficon GC-MicroFusion)

Heat Trace Used: N/A Last Inst. Cal.: 01/09/2024 0:00 AM

Sampling Method: : Fill and Purge Analyzed: 01/09/2024 08:30:50 by EBH

Sampling Company: : OXY

# **Analytical Data**

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	0.0000	0.0000	0.0000		
Nitrogen	1.2725	1.3037	1.5990		
Carbon Dioxide	0.5710	0.5850	1.1272		
Methane	70.6744	72.4044	50.8552		
Ethane	12.9937	13.3118	17.5248	3.555	
Propane	7.3509	7.5308	14.5390	2.072	
Iso-Butane	0.8677	0.8889	2.2620	0.290	
n-Butane	2.1166	2.1684	5.5180	0.683	
Iso-Pentane	0.4679	0.4794	1.5143	0.175	
n-Pentane	0.5187	0.5314	1.6786	0.192	
Hexanes	0.3367	0.3449	1.3013	0.142	
Heptanes	0.2976	0.3049	1.3376	0.140	
Octanes	0.1258	0.1289	0.6447	0.066	
Nonanes Plus	0.0170	0.0175	0.0983	0.010	
	97.6105	100.0000	100.0000	7.325	
Calculated Physical F	Properties	Tot	al	C9+	
Calculated Molecular Weight		22.8	34	128.26	
Compressibility Factor		0.995	57		
Relative Density Real Gas		0.791	17	4.4283	
GPA 2172 Calculation:					
Calculated Gross BTU per ft³ @ 14.65 psia & 60°F					
Real Gas Dry BTU		1340		6974.4	
Water Sat. Gas Base BTU		1317		6852.4	
Ideal, Gross HV - Dry at 14.65 psia		1334		6974.4	
Ideal, Gross HV - Wet		1311	.4	6852.4	
Comments: H2S Fiel	ld Content 0 ppm				

FMP/LSE NM40659

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality

assurance, unless otherwise stated.

## **UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**

Facility: Sand Dunes South Corridor CTB Flare Date: 03/03/2024

**Duration of Event:** 13 Hours **MCF Flared:** 160

Start Time: 08:43 AM End Time: 09:43 PM

Cause: Emergency Flare > Third Party Downstream Activity > Enterprise > Central Station > Equipment Issues

Method of Flared Gas Measurement: Gas Flare Meter

## 1. Reason why this event was beyond Operator's control:

The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction, or complete shut-in of a gas pipeline by a third-party pipeline compressor station operator, which impacted Oxy's ability to send gas to them. This interruption, restriction, or complete shut-in of the gas pipeline by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. In this case, Enterprise, third party operated downstream pipeline operator, suddenly and unexpectedly restricted their gas flow intake to OXY several times within a 24-hour period, due to equipment issues at their Central Station, which in turn caused high line pressure to occur, which then triggered brief intermittent flaring instances to occur. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning.

### 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 a 98% combustion efficiency to lessen emissions as much as possible. In this case, Enterprise, third party operated downstream pipeline operator, suddenly and unexpectedly restricted their gas flow intake to OXY several times within a 24-hour period, due to equipment issues at their Central Station, which in turn caused high line pressure to occur, which then triggered brief intermittent flaring instances to occur. As soon as flaring was triggered, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and assisted with activating storage wells and began to shut-in several wells to assist with reducing field pressure so that it would stay below the flare trigger setpoints of the facility, which took some time to do. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.

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

Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated gas plant's issues, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Enterprise operations will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's facilities have equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into the Enterprise gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Enterprise personnel, who operate the sales gas pipeline, when possible, during these types of circumstances.

District I
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** 

DEFINITIONS

Action 324467

#### **DEFINITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	324467
	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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1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS

Action 324467

Phone:(505) 476-3470 Fax:(505) 476-3462		
0	UESTIONS	
Operator: OXY USA INC P.O. Box 4294		OGRID: 16696 Action Number:
Houston, TX 772104294		324467 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	tnese issues before continuing wi	tn the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2127048458] Sand D	Dunes South Corridor CTB
Determination of Deposition Deposition provides		
Determination of Reporting Requirements  Answer all questions that apply. The Reason(s) statements are calculated based on your answers as	nd may provide addional quidance	
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	Yes	
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 v	renting and/or flaring that is or may	v 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	y be a major of minor releade ander 13.10.23.7 Number
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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No	
Equipment Involved	1	
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency Flare > Third P Equipment Issues	Party Downstream Activity > Enterprise > Central Station >
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage	72	
Nitrogen (N2) percentage, if greater than one percent	1	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	1	
Oxygen (02) percentage, if greater than one percent	0	
If you are venting and/or flaring because of Pipeline Specification, please provide the required specification.		
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.	

Not answered.

Oxygen (02) percentage quality requirement

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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 2

Action 324467

<b>QUESTIONS</b>	(continued)
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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	324467
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

### QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	03/03/2024	
Time vent or flare was discovered or commenced	08:43 AM	
Time vent or flare was terminated	09:43 PM	
Cumulative hours during this event	13	

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Other   Other (Specify)   Natural Gas Flared   Released: 160 Mcf   Recovered: 0 Mcf Lost: 160 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	Yes	
Was notification of downstream activity received by this operator	No	
Downstream OGRID that should have notified this operator	[713731] Enterprise Crude Pipeline LLC	
Date notified of downstream activity requiring this vent or flare	Not answered.	
Time notified of downstream activity requiring this vent or flare	Not answered.	

teps 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	The emissions event was caused by the unforeseen, unexpected, sudden, and unavoidable interruption, restriction, or complete shut-in of a gas pipeline by a third-party pipeline compressor station operator, which impacted Oxy's ability to send gas to them. This interruption, restriction, or complete shut-in of the gas pipeline by a third-party pipeline compression station operator is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid or prevent from happening and did not stem from any of Oxy's upstream facility activity that could have been foreseen and avoided, and could not have been avoided by good design, operation, and preventative maintenance practices. In this case, Enterprise, third party operated downstream pipeline operator, suddenly and unexpectedly restricted their gas flow intake to OXY several times within a 24-hour period, due to equipment issues at their Central Station, which in turn caused high line pressure to occur, which then triggered brief intermittent flaring instances to occur. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning.
	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 a 98% combustion efficiency to lessen emissions as much as possible. In this case, Enterprise, third party operated downstream pipeline operator, suddenly and unexpectedly restricted their gas flow intake to OXY several

Steps taken to limit the duration and magnitude of vent or flare	times within a 24-hour period, due to equipment issues at their Central Station, which in turn caused high line pressure to occur, which then triggered brief intermittent flaring instances to occur. As soon as flaring was triggered, field personnel engaged in Oxy's third party pipeline operation curtailment reactive stratagems and assisted with activating storage wells and began to shut-in several wells to assist with reducing field pressure so that it would stay below the flare trigger setpoints of the facility, which took some time to do. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy is unable to take any corrective actions to eliminate the cause and potential reoccurrence of a downstream third-party owned and operated gas plant's issues, as this is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Enterprise operations will have issues which may reoccur from time to time and may trigger a spike in the gas line pressure, which in turn, directly impacts Oxy's ability to send gas to them. When Enterprise's facilities have equipment issues or greatly struggles to handle the volume of gas being sent to them by Oxy, Enterprise then restricts Oxy's ability to send gas, which then prompts Oxy to route all its stranded gas not pushed into the Enterprise gas pipeline, to flare. OXY makes every effort to control and minimize emissions as much as possible. The only actions that Oxy can take and handle that is within its control, is to continually communicate with Enterprise personnel, who operate the sales gas pipeline, when possible, during these types of circumstances.

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ACKNOWLEDGMENTS

Action 324467

### **ACKNOWLEDGMENTS**

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OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	324467
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

### **ACKNOWLEDGMENTS**

V	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 <b>a complete</b> C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
V	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.
V	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.
V	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.
V	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 324467

## **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	324467
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

### CONDITIONS

Created By	Condition	Condition Date
marialuna2	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.	3/18/2024