

Field:

Station Name:

Certificate of Analysis

Number: 6030-21110261-001A

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

Dec. 01, 2021

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

Sand Dunes

Sampled By: Scott Beasely Sand Dunes CTB Production 2 Sample Of: Gas Spot

Station Number: 17012P Sample Date: 11/23/2021 10:21 Station Location: СТВ Sample Conditions: 77.7 psig, @ 62.5 °F Ambient: 61 °F

11/23/2021 10:21 Sample Point: Meter Effective Date: Formation: Monthly Method: GPA-2261M County: Eddy, NM Cylinder No: 1111-002678

Type of Sample: : Spot-Cylinder Instrument: 70142339 (Inficon GC-MicroFusion)

Heat Trace Used: Last Inst. Cal.: 11/15/2021 0:00 AM No

Sampling Method: : Fill and Purge Analyzed: 12/01/2021 14:47:44 by ERG

Sampling Company: : SPL

Analytical Data

Components Un	-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia	
Hydrogen Sulfide	NIL	NIL	NIL		
Nitrogen	1.720	1.73503	2.237		
Carbon Dioxide	1.746	1.76105	3.568		
Methane	75.250	75.89815	56.047		
Ethane	11.338	11.43562	15.828	3.052	
Propane	5.503	5.55083	11.267	1.526	
Iso-Butane	0.699	0.70513	1.887	0.230	
n-Butane	1.672	1.68661	4.512	0.531	
Iso-Pentane	0.353	0.35584	1.182	0.130	
n-Pentane	0.377	0.38035	1.263	0.138	
Hexanes	0.214	0.21574	0.856	0.089	
Heptanes	0.170	0.17177	0.792	0.079	
Octanes	0.080	0.08109	0.426	0.041	
Nonanes Plus	0.023	0.02279	0.135	0.013	
	99.145	100.00000	100.000	5.829	
Calculated Physical Prop	erties	Tota	I	C9+	
Calculated Molecular Weig	ıht	21.72	<u> </u>	128.26	
Compressibility Factor		0.9963	3		
Relative Density Real Gas		0.7526	6	4.4283	
GPA 2172 Calculation:					
Calculated Gross BTU pe	er ft³ @ 14.65 ps	sia & 60°F			
Real Gas Dry BTU		1243.1		6974.4	
Water Sat. Gas Base BTU		1221.9		6852.4	
Ideal, Gross HV - Dry at 14	1.65 psia	1238.5		6974.4	
Ideal, Gross HV - Wet		1216.9)	6852.4	

Mcf/day 24561.39

Jesus Escobedo

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: 11/26/2022

Duration of event: 1 Hour 10 Minutes **MCF Flared:** 1976

Start Time: 06:50 AM End Time: 08:00 AM

Cause: Emergency Flare > Facility Emergency Shutdown > Power Outage > Recloser Switch

Method of Flared Gas Measurement: Gas Flare Meter

Comments: This upset event was not caused by any wells associated with the facility. This is a combination of two (2) flaring events within a 24-Hour period, with a combined duration and volume:

(1) 06:50 AM to 07:40 AM – 50 Minutes @ 1158 MCF

(2) 11:30 AM to 11:50 AM – 20 Minutes @ 818 MCF

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, there were two (2) flaring occurrences, which were triggered when the facility had unexpected power outages, when the recloser tripped twice, within a 24-Hour period. The first instance of a sudden and unexpected power outage occurred approximately about 06:50 AM, which prompted flaring to occur. The second instance of flaring occurred a few hours later, approximately about 11:30 AM, again due to the recloser tripping a second time. The Oxy production techs, who received multiple alarms for power fail and compression shutdown, arrived to the facilities, at each instance of flaring and facility shutdown alarms, to determine cause, which was the electrical recloser to the facility. All Oxy's facility equipment were operating as designed prior to the sudden and unexpected flaring event occurring.

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

It is OXY's policy to route all 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, there were two (2) flaring occurrences, which were triggered when the facility had unexpected power outages, when the recloser tripped twice, within a 24-Hour period. The first instance of a sudden and unexpected power outage occurred approximately about 06:50 AM, which prompted flaring to occur. The second instance of flaring occurred a few hours later, approximately about 11:30 AM, again due to the recloser tripping a second time. The Oxy production techs shut-in multiple high GOR wells to curtail gas throughput at the Sand Dunes South Corridor CTB To significantly minimize emissions enough to cease flaring in both instances, until they were able to determine cause of power outage. After determining the cause of the power outage,

they reset the facility panels and recloser to restart the facility's equipment. All Oxy's facility equipment were operating as designed prior to the sudden and unexpected flaring event occurring. In addition, the Oxy production techs requested an electrician examine the facility's recloser switch. The Oxy production techs remained on-site to ensure no additional issues occurred with the recloser switch.

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

OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected flaring event. 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. The corrective measures taken during both of these flaring events was for the Oxy production techs to reset the facility panels and recloser switch and request an electrician come out to examine the recloser switch in an effort to avoid potential issues again, which could affect the facility and its equipment.

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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 167961

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	167961
	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

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 167961

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ı	Operator:	OGRID:
ı	OXY USA INC	16696
ı		Action Number:
ı	Houston, TX 772104294	167961
ı		Action Type:
ı		[C-129] Amend Venting and/or Flaring (C-129A)

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 Operator	[16696] OXY USA INC	
Incident Type	Flare	
Incident Status	Closure Not Approved	
Incident Well Unavailable.		
Incident Facility [fAPP2127048458] Sand Dunes South Corridor CTB		
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.		

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, major 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 > Facility Emergency Shutdown > Power Outage > Recloser Switch	

Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	76	
Nitrogen (N2) percentage, if greater than one percent	2	
Hydrogen Sulfide (H2S) PPM, rounded up	0	
Carbon Dioxide (C02) percentage, if greater than one percent	2	
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.	

QUESTIONS, Page 2

Action 167961

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1000 C Ct Evensia Dr

Phone:(505) 334-6178 Fax:(505) 334-6170	. St Francis Dr.
District IV 1220 S. St Francis Dr., Santa Fe, NM 87505	Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator:	OGRID:
OXY USA INC P.O. Box 4294	16696 Action Number:
Houston, TX 772104294	167961
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)
QUESTIONS	, , ,
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	T
Time vent or flare was discovered or commenced	11/26/2022
Time vent or flare was discovered or commenced Time vent or flare was terminated	06:50 AM 08:00 AM
Cumulative hours during this event	1
	<u> </u>
Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
N. 10 51 1910 D. 1	Cause: Power Failure Other (Specify) Natural Gas Flared Released: 1,976 Mcf
Natural Gas Flared (Mcf) Details	Recovered: 0 Mcf Lost: 1,976 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	
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 good facility operation practices while also maintaining its continuous facilitie equipment preventative maintenance program. In this case, there were two (2) flaring occurrences, which were triggered when the facility had unexpected power outages, when the recloser tripped twice, within a 24-Hour period. The first instance of a sudden and unexpected power outage occurred approximately about 06:50 AM, which prompted flaring to occur. The second instance of flaring occurred a few hours later, approximately about 11:30 AM, again due to the recloser tripping a second time. The Oxy production techs, who received multiple alarms for power fail and compression shutdown, arrived to the facilities, at each instance of flaring and facility shutdown alarms, to determine cause, which was the electrica recloser to the facility. All Oxy's facility equipment were operating as designed prior to the sudden and unexpected flaring event occurring.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route all 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, there were two (2) flaring occurrences, which were triggered when the facility had unexpected power outages, when the recloser tripped twice, within a 24-Hour period. The first instance of a sudden and unexpected power outage occurred approximately about 06:50 AM, which prompted flaring to occur. The second instance of flaring occurred a few hours later, approximately about 11:30 AM, again due to the recloser tripping a second time. The Oxy production techs shut-in multiple high GOR wells to curtail gas throughput at the Sand Dunes South Corridor CTB To significantly minimize emissions enough to cease flaring in both instances, until they were able to determine cause of power outage. After determining the cause of the power outage, they reset the facility panels and recloser to restart the facility's equipment. All Oxy's facility equipment were operating as designed prior to the sudden and unexpected flaring event occurring. In addition, the Oxy production techs requested an electrician examine the facility's recloser switch. The Oxy production techs remained on-site to ensure no additional issues occurred with the recloser switch.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	OXY made every effort to control and minimize emissions as much as possible during this sudden and unexpected flaring event. 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. The corrective measures taken during both of these flaring events was for the Oxy production techs to reset the facility panels and recloser switch and request an electrician come out to examine the recloser switch in an effort to avoid potential issues again, which could affect the facility and its equipment.

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ACKNOWLEDGMENTS

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	Action Type:
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ACKNOWLEDGMENTS

\checkmark	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
V	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
V	I hereby certify the statements in this amending 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

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	Action Type:
	[C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Create	ed By	Condition	Condition Date
mari	ialuna2	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	12/17/2022