

# Certificate of Analysis

Number: 6030-21060187-001A

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

Chandler Montgomery Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220 June 21, 2021

Field: Lost Tank Sampled By: Michael Mirabal Station Name: Lost Tank 30-19 Fed Com 1H Sample Of: Gas Spot Station Number: 16102T Sample Date: 06/16/2021 02:20

Station Location: CTB Sample Conditions: 113 psia, @ 92 °F Ambient: 95 °F Sample Point: Meter Effective Date: 06/16/2021 02:20 Formation: Quarterly Method: GPA-2261M

County: Lea Cylinder No: 1111-002369
Type of Sample: : Spot-Cylinder Instrument: 70104124 (Inficon GC-MicroFusion)

Heat Trace Used: N/A Last Inst. Cal.: 06/21/2021 0:00 AM

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Sampling Method: : Fill and Purge Analyzed: 06/21/2021 12:21:17 by EJR

Sampling Company: : SPL

## **Analytical Data**

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.000	0.000		GPM TOTAL C2+	5.748
Nitrogen	3.714	3.705	4.543		GPM TOTAL C3+	2.964
Methane	72.207	72.042	50.591		GPM TOTAL iC5+	0.710
Carbon Dioxide	4.233	4.223	8.135			
Ethane	10.455	10.431	13.730	2.784		
Propane	5.365	5.353	10.332	1.472		
Iso-butane	0.671	0.669	1.702	0.219		
n-Butane	1.794	1.790	4.554	0.563		
Iso-pentane	0.444	0.443	1.399	0.162		
n-Pentane	0.510	0.509	1.608	0.184		
Hexanes Plus	0.837	0.835	3.406	0.364		
	100.230	100.000	100.000	5.748		
Calculated Physica	Il Properties	To	otal	C6+		
Relative Density Rea	al Gas	0.79	915	3.2176		
Calculated Molecula		22	.84	93.19		
Compressibility Fact		0.99	962			
<b>GPA 2172 Calculati</b>						
<b>Calculated Gross B</b>	BTU per ft <sup>3</sup> @ 14.65 p	sia & 60°F				
Real Gas Dry BTU		12	209	5113		
Water Sat. Gas Base BTU		11	188	5024		
Ideal, Gross HV - Dry at 14.65 psia		120	4.2	5113.2		
Ideal, Gross HV - Wet		118	3.1	5023.7		
Net BTU Dry Gas - real gas		10	098			
Net BTU Wet Gas - I		10	079			
Comments: H2S F	Field Content 0 ppm					

Comments. H23 Field Content o ppin

Mcf/day 3276

Jesus Escobedo

Data reviewed by: Eric Ramirez, Analyst

Data reviewed by. End Ramilez, Analyst

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

assurance, unless otherwise stated. 44

Quality Assurance:

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

Facility: Lost Tank 18 CPF Flare Date: 05/30/2023

**Duration of event:** 2 Hours 55 Minutes **MCF Flared:** 330

Start Time: 10:35 AM End Time: 01:30 PM

Cause: Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression 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, Lost Tank Boo 13 compressor station, third party owned and operated by USA Compression, had one or more gas compressors shut down due to compression issues, which then instigated a sudden and unexpected restriction of gas flow intake by Lost Tank Boo 13 CS, which in turn, prompted Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically and trigger a flaring event to occur. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from USA Compression personnel. Lost Tank Boo 13 compressor station is the first stopping point, where OXY sends its sales gas from its facility, before it is pushed further down the pipeline for further processing at Mark West, a downstream gathering system facility, which is downstream of Oxy's control.

### 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. In this case, third party owned and operated compressor station, Lost Tank Boo 13 CS, had one or more gas compressors shut down due to compression issues, which caused a restriction of gas flow intake, which in turn, caused Oxy's Lost Tank 18 Central Processing Facility to pressure up and a flaring event to occur. As soon as the Oxy production tech, who was on-site, saw flaring occur, he began to make phone calls to USA Compression personnel to reset and restart their compression equipment. USA Compression mechanics were on-site and made various attempts to restart 1 of the 3 compressors but could not get last unit back online until they replaced the starter. The Oxy production tech then contacted Oxy's flowback personnel to begin making choke changes, so that field pressure would stay below the flare trigger setpoints of the CPF to cease flaring. 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 cannot take any corrective actions to eliminate the cause and potential reoccurrence of a third-party owned and operated compressor station's sudden and unexpected gas flow intake restriction or shut-in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to foresee, avoid, prevent from happening or reoccur. Third-party downstream compression station owner operators may have equipment issues, which will reoccur from time to time, which in turn, directly impacts Oxy's ability to send its sales gas to them, and potentially triggering a flaring event. 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 USA Compression personnel, who operate the Lost Tank Boo 13 Compressor Station, 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 228209

#### **DEFINITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	228209
	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 228209

Q	UESTIONS		
Operator:		OGRID:	
OXY USA INC P.O. Box 4294	-	16696 Action Number:	
Houston, TX 772104294		228209	
		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	[fAPP2226965761] Lost Tank 18 CPF		
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a			
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 f	aring 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	venting and/or flaring that is or may l	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	No		
watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water			
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	No		
existence			
Equipment Involved			
	011 (0 17)		
Primary Equipment Involved	Other (Specify)		
Additional datable for Employment Involved Discourse 16	Emergency Flare > Third Pa	rty > USA Compression > Lost Tank 13 Boo CS > Compression	
Additional details for Equipment Involved. Please specify	Equipment Issues		
	<u> </u>		
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	4		
Hydrogen Sulfide (H2S) PPM, rounded up	0		
Carbon Dioxide (C02) percentage, if greater than one percent	4		
Oxygen (02) percentage, if greater than one percent	0		
If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	rifications 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.		
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Not answered.

Not answered.

Carbon Dioxide (C02) percentage quality requirement

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 228209

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: OXY USA INC	OGRID: 16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	228209 Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	
Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/30/2023
Time vent or flare was discovered or commenced	10:35 AM
Time vent or flare was terminated	01:30 PM
Cumulative hours during this event	3
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: 330 Mcf   Recovered: 0 Mcf   Lost: 330 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify  Is this a gas only submission (i.e. only significant Mcf values reported)	Gas Flare Meter  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	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, Lost Tank Boo 13 compressor station, third party owned and operated by USA Compression,

had one or more gas compressors shut down due to compression issues, which then instigated a sudden and unexpected restriction of gas flow intake by Lost Tank Boo 13 CS, which in turn, prompted Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically and trigger a flaring event to occur. This event could not have been foreseen, avoided or prevented from happening as this event occurred with no advance notice or warning to Oxy and its field personnel from USA Compression personnel. Lost Tank Boo 13 compressor station is the first stopping point, where OXY sends its sales gas from its facility, before it is pushed further down the pipeline for further processing at Mark West, a downstream gathering system facility, which is downstream of Oxy's control.

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

Steps taken to limit the duration and magnitude of vent or flare	minimize emissions as much as possible as part of the overall steps taken to limit duration and magnitude of flaring. In this case, third party owned and operated compressor station, Lost Tank Boo 13 CS, had one or more gas compressors shut down due to compression issues, which caused a restriction of gas flow intake, which in turn, caused Oxy's Lost Tank 18 Central Processing Facility to pressure up and a flaring event to occur. As soon as the Oxy production tech, who was on-site, saw flaring occur, he began to make phone calls to USA Compression personnel to reset and restart their compression equipment. USA Compression mechanics were on-site and made various attempts to restart 1 of the 3 compressors but could not get last unit back online until they replaced the starter. The Oxy production tech then contacted Oxy's flowback personnel to begin making choke changes, so that field pressure would stay below the flare trigger setpoints of the CPF to cease flaring. This event is out of OXY's control, yet OXY made every effort to control and minimize emissions as much as possible.
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ACKNOWLEDGMENTS

Action 228209

### **ACKNOWLEDGMENTS**

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P.O. Box 4294	Action Number:
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	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 228209

### **CONDITIONS**

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P.O. Box 4294	Action Number:
Houston, TX 772104294	228209
	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.	6/14/2023