



## Natural Gas Analysis Report

GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

	Sample Information
Sample Name	lost tank 18 facility production 1 (fmp) v-1010
Technician	Danny J
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	3-8-2023
Meter Number	16411p
Air temperature	71
Flow Rate (MCF/Day)	25435
Heat Tracing	Heated Hose & Gasifier
Sample description/mtr name	lost tank 18 facility production 1 (fmp) v-1010
Sampling Method	fill and empty
Operator	AKM MEASUREMENT
State	New Mexico
Region Name	Permian Resources
Asset	new mexico
System	east
FLOC	op-delne-bt010
Sample Sub Type	meter
Sample Name Type	ctb
Vendor	akm
Cylinder #	27798
Sampled by	jonathan aldrich
Sample date	3-7-2023
Analyzed date	3-8-2023
Method Name	C9
Injection Date	2023-03-08 14:09:13
Report Date	2023-03-08 14:07:12
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	80135ddf-b144-4dfd-b24e-da86f97ecc64
NGA Phys. Property Data Source	GPA Standard 2145-16 (FPS)
Data Source	INFICON Fusion Connector

## Component Results

Component Name	Peak Area	Raw Amount	Response Factor	Norm Mole%	Gross HV (Dry) (BTU / Ideal cu.ft.)	Relative Gas Density (Dry)	GPM (Dry) (Gal. / 1000 cu.ft.)
Nitrogen	23176.5	1.5087	0.00006510	1.4924	0.0	0.01443	0.165
Methane	789907.9	71.7938	0.00009089	71.0166	718.9	0.39336	12.091
CO2	4248.3	0.2447	0.00005760	0.2420	0.0	0.00368	0.041
Ethane	253314.9	14.0709	0.00005555	13.9185	246.9	0.14450	3.738
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000
Propane	187121.2	7.6655	0.00004097	7.5825	191.2	0.11544	2.098
iso-butane	58320.5	1.0090	0.00001730	0.9981	32.5	0.02003	0.328
n-Butane	154085.2	2.6453	0.00001717	2.6166	85.6	0.05251	0.828
iso-pentane	38587.0	0.5807	0.00001505	0.5744	23.0	0.01431	0.211
n-Pentane	46221.7	0.6830	0.00001478	0.6756	27.1	0.01683	0.246
hexanes	36033.0	0.4207	0.00001168	0.4162	19.8	0.01238	0.172
heptanes	36586.0	0.3379	0.00000924	0.3342	18.4	0.01156	0.155
octanes	17386.0	0.1325	0.00000762	0.1311	8.2	0.00517	0.067
nonanes+	2822.0	0.0018	0.00000063	0.0018	0.1	0.00008	0.001
Total:		101.0945		100.0000	1371.9	0.80429	20.142

## Results Summary

Result	Dry	Sat.
Total Un-Normalized Mole%	101.0945	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flowing Temperature (Deg. F)	98.0	
Flowing Pressure (psia)	117.0	
Gross Heating Value (BTU / Ideal cu.ft.)	1371.9	1348.0
Gross Heating Value (BTU / Real cu.ft.)	1378.1	1354.7

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	101.0945	97.0000	103.0000	Pass	

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Lost Tank 18 CPF**Flare Date:** 09/27/2023**Duration of Event:** 2 Hours 47 Minutes**MCF Flared:** 193**Start Time:** 10:08 AM**End Time:** 12:55 PM**Cause:** Emergency Flare > Third Party > USA Compression > Lost Tank 13 BOO > Compression 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 operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline 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, throughout a 24-hr period, which in turn instigated several instances of sudden and unexpected restrictions of gas flow intake by Lost Tank Boo 13 CS, which then caused Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically and trigger flaring events to occur. This event could not have been foreseen, avoided or prevented from happening as each flaring instance 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. The duration and volume of this event is a collective of all flaring instances within a 24-period.

**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, 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, throughout a 24-hr period, which in turn instigated several instances of sudden and unexpected restrictions of gas flow intake by Lost Tank Boo 13 CS, which then caused Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically and trigger flaring events to occur. The Oxy production tech, who was on-site, continually kept in touch with additional Oxy field personnel to make adjustments to injection rate changes, to minimize emissions during USA Compressions' attempts to resolve their equipment issues. 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  
**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 275659

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 275659
	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: <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>
--

**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

**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**

QUESTIONS

Action 275659

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 275659
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
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

<b>Determination of Reporting Requirements</b>	
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 <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 > Third Party > USA Compression > Lost Tank 13 BOO > Compression Issues

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	71
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	0
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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

**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

**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**

QUESTIONS, Page 2

Action 275659

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	275659
Action Type:	
[C-129] Venting and/or Flaring (C-129)	

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/27/2023
Time vent or flare was discovered or commenced	10:08 AM
Time vent or flare was terminated	12:55 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: 193 Mcf   Recovered: 0 Mcf   Lost: 193 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	<p>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 operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline 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, throughout a 24-hr period, which in turn instigated several instances of sudden and unexpected restrictions of gas flow intake by Lost Tank Boo 13 CS, which then caused Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically and trigger flaring events to occur. This event could not have been foreseen, avoided or prevented from happening as each flaring instance 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. The duration and volume of this event is a collective of all flaring instances within a 24-period.</p> <p>It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable</p>

Steps taken to limit the duration and magnitude of vent or flare	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, 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, throughout a 24-hr period, which in turn instigated several instances of sudden and unexpected restrictions of gas flow intake by Lost Tank Boo 13 CS, which then caused Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically and trigger flaring events to occur. The Oxy production tech, who was on-site, continually kept in touch with additional Oxy field personnel to make adjustments to injection rate changes, to minimize emissions during USA Compressions' attempts to resolve their equipment issues. 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 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

**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

Action 275659

**ACKNOWLEDGMENTS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 275659
	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.

**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  
**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**

CONDITIONS  
  
Action 275659

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 275659
	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.	10/14/2023