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	
leased to Janagivagie 7846/2023   10:150:46 1	<b>PM</b> 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: 07/09/2023

**Duration of Event:** 3 Hours 30 Minutes **MCF Flared:** 639

Start Time: 02:02 AM End Time: 05:32 AM

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 several gas compressors shut down simultaneously on three (3) separate occasions, which in turn instigated sudden and unexpected restrictions of gas flow intake by the Lost Tank Boo 13 CS, which then prompted Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically each time and trigger three (3) separate flaring occurrences within a 24-HR period. 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 each time they had compression equipment issues. 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, Lost Tank Boo 13 compressor station, third party owned and operated by USA Compression, had several gas compressors shut down simultaneously on three (3) separate occasions, which in turn instigated sudden and unexpected restrictions of gas flow intake by the Lost Tank Boo 13 CS, which then prompted Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically each time and trigger three (3) separate flaring occurrences within a 24-HR period. 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 each time they had compression equipment issues. USA Compression. 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.

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 244943

#### **DEFINITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	244943
	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.

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

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

QUESTIONS

Action 244943

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 [fAPP2226965781] Lost Tank 18 CPF  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  Is this considered a submission for a vent or flare event  Was there at least 50 MCF of natural gas vented and/or flared during this event  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  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	Phone:(505) 476-3470 Fax:(505) 476-3462				
NOT USA INCE P.O. Box 20294 Housion, TX 772104294 Housing the second of the sequiplestion. Press restore the second continuing with the rest of the questions. Houside the Well Housing the second of the sequiplestion of this application. Press restore before continuing with the rest of the questions.    Manual Land Continuing the second of the sequiplestion of this application. Press restore the restored to the sequiplestion.   Manual Land Continuing the second of the sequiplestion of the sequiplestic of the sequiplestic of the sequiplestion of the sequiplestic of the sequiple	Q	UESTIONS			
P.O. Box 4.294   Moston, TX 772104294   Mos					
Houston TX 772104294  ### Act 172104294  ### C1-1291 Venting and/or Flaming (C-129)  ### C1-1291 Venting and/or Flaming venting and/or flaming use for the questions.  #### C1-1291 Venting and/or Flaming use for flaming use flaming venting and/or flaming of natural gas.  #### C1-1291 Venting and/or flaming and/or flaming of natural gas.  #### C1-1291 Venting and/or flaming and/or flaming of natural gas.  #### C1-1291 Venting and/or flaming and					
C129  Venting and/or Planing (C-129)					
Prorequisites Any message presented in his section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.  Incident Veil Incident Facility    Commission of Reporting Requirements   Commission and Reporting Requirements					
Incident Well  Incident Pacility  Incident Reporting Requirements  Answer all avestors and the action is settled to expend the set of the questions.  Incident Pacility  Incident Pacili	QUESTIONS				
Incident Well  Incident Facility  If [APP2228858761] Lost Tank 13 GPF  Determination of Reporting Requirements  Asserve all questions and 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  No  In this vent or flare last eight but now or more cumulatively within any 24-hour period from a single event  Is this considered a submission for a vent or flare event  Are speciator shall file a form 0-141 instead of a form 0-125 for a release that, includes figuid during this event.  Did this vent or flare result in the release of APV fliguids (not fully and/or completely affected) that reached or face and a features of reaching the ground, a surface, and the surface of fresh value.  Did this vent or flare result in the release of APV fliguids (not fully and/or completely and/or flared submission for a vent or flare result in the release of APV fliguids (not fully and/or completely and/or flared submission for a vent or flare result in a floor provide mission floor provides and a flared floor f	Prerequisites				
Determination of Reporting Requirements  Accessed all questions that apply. The Reason(s) attentions are calculated based on your answers and many provide additional guidance.  Was this vent or flare caused by an emergency or malfunction  Ves  No  Did this vent or flare caused by an emergency or malfunction  Ves  No  Is this considered a submission for a vent or flare event  Ves, major venting and/or flaring of natural gas.  Ves, major venting and/or flaring of natural gas.  As operator shall the a form C-141 instead of a form C-125 for a release line, includes flaquid uting venting and/or flaring of natural gas.  As operator shall the a form C-141 instead of a form C-125 for a release line, includes flaquid uting venting and/or flaring of natural gas.  As operator shall the a form C-141 instead of a floring flared uting line event.  Vas there at least 50 MCF of natural gas vented and/or flared during line event.  Vas there are least 50 MCF of natural gas vented and/or flared during line event.  Point flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hespital, institution or church in statistical events or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hespital, institution or church in statistical events of flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hespital, institution or church in statistical events of flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hespital, institution or church in statistical events and the second of the percentage autions in this group.  Refuge provide the male second for the percentage questions in this group.  Refuse provide the male second for the percentage, if greater than one percent  Question of the percentage, if greater than one percent  Question of the percentage questions and percent percentage user flore and per	Any messages presented in this section, will prevent submission of this application. Please resolve	these issues before continuing wi	ith the rest of the questions.		
Determination of Reporting Requirements  Anower 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 maifunction Yes  Is this considered a submission for a vent of 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 resease that, includes liquid during venting and/or flaring of natural gas.  An operator shall file a form C-141 instead of a form C-129 for a resease that, includes liquid during venting and/or flaring of natural gas.  An operator shall file a form C-141 instead of a form C-129 for a resease that, includes liquid during venting and/or flaring that is or may be a major or minor release under 18.15.29.7 NMAC.  Was there at Exest 50 MCF or natural gas vented and/or flared during this event Yes  Did this vent or flare restall in the release of AMY liquids (not fully and/or completely and/or flaring that is or may be a major or minor release under 18.15.29.7 NMAC.  Was the vent or flare ventin in nicorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence  Equipment Involved  Primary Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Pieses provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage if greater than one percent Q and this provide in this provide in the percentage, if greater than one percent Q and provide its required specifications for each gas.  Methane (CH4) percentage, if greater than one percent Q and provide its requirement Party and provide its resourced.  More asswered.  Hydrogen Suffice (H2S) PPM quality requirement  Hydrogen Suffice (H2S) PPM quality requirement  Hydrogen Suffice (H2S) PPM quality requirement  H	Incident Well	Unavailable.			
Answer all questions that apply. The Reason(s) statements are calculated based on your enswers and may provide additional quidance.  Was this vent or flare caused by an emergency or malfurching.  Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event.  An operator shall file a form C-14 instead of a form C-129 for a release that, includes liquid quiring venting and/or flaring of natural gas.  An operator shall file a form C-14 instead of a form C-129 for a release that, includes liquid quiring venting and/or flaring that is or may be a major or minor release under 19.15.29.7 MMAC.  Was there at least 50 MCF of natural gas vented and/or flared during this event  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 stricte, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment of rissh water environment of rissh water environment or firsh 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 existence.  Equipment Involved  Primary Equipment Involved.  Additional details for Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Peases provide the note present for the percentage questions in this group.  Representative Compositional Analysis of Vented or Flared Natural Gas  Peases provide the note present for the percentage questions in this group.  17 1  Nitrogen (N2) percentage, if greater than one percent  Question Dioxide (CO2) percentage, if greater than one percent  19 ou are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.  Methane (CH4) percentage quality requirement  Not answered	Incident Facility	[fAPP2226965761] Lost Ta	ank 18 CPF		
Answer all questions that apply. The Reason(s) statements are calculated based on your enswers and may provide additional quidance.  Was this vent or flare caused by an emergency or malfurching.  Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event.  An operator shall file a form C-14 instead of a form C-129 for a release that, includes liquid quiring venting and/or flaring of natural gas.  An operator shall file a form C-14 instead of a form C-129 for a release that, includes liquid quiring venting and/or flaring that is or may be a major or minor release under 19.15.29.7 MMAC.  Was there at least 50 MCF of natural gas vented and/or flared during this event  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 stricte, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment of rissh water environment of rissh water environment or firsh 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 existence.  Equipment Involved  Primary Equipment Involved.  Additional details for Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Peases provide the note present for the percentage questions in this group.  Representative Compositional Analysis of Vented or Flared Natural Gas  Peases provide the note present for the percentage questions in this group.  17 1  Nitrogen (N2) percentage, if greater than one percent  Question Dioxide (CO2) percentage, if greater than one percent  19 ou are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.  Methane (CH4) percentage quality requirement  Not answered	Determination of Panasting Descriptorante				
Was this vent or flare caused by an emergency or malfunction Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event 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-131 instead of a form C-126 for a release that, includes liquid during venting and/or flaring for natural gas.  An operator shall file a form C-131 instead of a form C-126 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 Did this vent or flare result in the release of AWT liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a valencourse, or otherwise, with reasonable probability, endanger public health, the environment or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence  Equipment Involved  Primary Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Involved.  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  This group of the percentage of the percentage of the required specifications for each gas.  Methane (CH4) percentage quality requirement  Not answered.  Hydrogen Suffied (H2S) PPM quality requirement  Not answered.		nd may provide addienal guidanes			
Did this vent or flare last eight hours or more cumulatively within amy 24-hour period from a single event  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-120 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  Did this vent or flare result in the release of ANY liquids (not fully) and/or completely flaredly that resended (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  Was the vent of flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence  Equipment Involved  Primary Equipment Involved.  Primary Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  And office (12S) PPM, rounded up  Garbon Dioxide (CO2) percentage, if greater than one percent  Journal of the recuired specification, please provide the required specifications for each gas.  Methane (CH4) percentage quality requirement  Not answered.  Not answered.					
Is this considered a submission for a vent or flare event  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 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 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 resching) the ground, a surface, a waterourse, or otherwise, with reasonable probability, endanger public health, the environment of refset 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 existence  Equipment Involved  Primary Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Passe provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage. If greater than one percent  2	Did this vent or flare last eight hours or more cumulatively within any 24-hour				
An operator shalf 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 Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that resolved (or has a chance of resching) the ground, a surface, a 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 existence  Equipment Involved  Primary Equipment Involved  Additional details for Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  No  T1  Norder (N2) percentage, if greater than one percent  Quyer of the percentage, if greater than one percent  Quyer of the percentage, if greater than one percent  Quyer of the percentage, if greater than one percent  Quyer (Q2) percentage, if greater than one percent  Not answered.  Not answered.		Yes, major venting and/or	flaring of natural gas.		
Was there at least 50 MCF of natural gas vented and/or flared during this event  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 waterourse, 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 existence  Equipment Involved  Primary Equipment Involved  Other (Specify)  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent  171  Carbon Dioxide (C02) percentage, if greater than one percent  0 Oxygen (02) percentage, if greater than one percent  18 you are venting and/or flaring because of Plealine Specification, please provide the required specifications for each gas.  Methane (CH4) percentage quality requirement  Not answered.  Not answered.  Not answered.					
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  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  Equipment Involved  Primary Equipment Involved  Additional details for Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage. If greater than one percent  Quyen (N2) percentage, if greater than one percent  Quyen eventing and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.  Methane (CH4) percentage quality requirement  Not answered.  Not answered.  Not answered.		T .	y be a major or minor release under 19.15.29.7 NMAC.		
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  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  Equipment Involved  Primary Equipment Involved  Other (Specify)  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage Nitrogen (N2) percentage, if greater than one percent  Pryou are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.  Methane (CH4) percentage quality requirement  Nou answered.  Not answered.  Not answered.		165			
from an occupied permanent residence, school, hospital, institution or church in existence  Equipment Involved  Primary Equipment Involved  Other (Specify)  Additional details for Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent  Doxygen (02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Doxygen (02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Not answered.  Nitrogen (N2) percentage quality requirement  Not answered.  Not answered.	flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the	No			
Primary Equipment Involved  Additional details for Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  71  Nitrogen (N2) percentage, if greater than one percent  2  Hydrogen Sulfide (H2S) PPM, rounded up  Carbon Dioxide (C02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  0  Crygen (02) percentage, if greater than one percent  Not answered.  Methane (CH4) percentage quality requirement  Not answered.  Hydrogen Sulfide (H2S) PPM quality requirement  Not answered.  Hydrogen Sulfide (H2S) PPM quality requirement  Not answered.	from an occupied permanent residence, school, hospital, institution or church in	No			
Primary Equipment Involved  Additional details for Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  71  Nitrogen (N2) percentage, if greater than one percent  2  Hydrogen Sulfide (H2S) PPM, rounded up  Carbon Dioxide (C02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  0  Crygen (02) percentage, if greater than one percent  Not answered.  Methane (CH4) percentage quality requirement  Not answered.  Hydrogen Sulfide (H2S) PPM quality requirement  Not answered.  Hydrogen Sulfide (H2S) PPM quality requirement  Not answered.					
Additional details for Equipment Involved. Please specify  Emergency Flare > Third Party > USA Compression > Lost Tank 13 Boo CS > Compression Equipment Issues  Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage	Equipment Involved				
Representative Compositional Analysis of Vented or Flared Natural Gas  Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  o  Oxygen (02) percentage, if greater than one percent  o  Methane (CH4) percentage, if greater than one percent  o  Oxygen (02) percentage, if greater than one percent  o  Not answered.  Nitrogen (N2) percentage quality requirement  Not answered.  Hydrogen Suficie (H2S) PPM quality requirement  Not answered.	Primary Equipment Involved	Other (Specify)			
Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent  Experiment of the percentage, if greater than one percent  Divide (H2S) PPM, rounded up  Carbon Dioxide (C02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Not answered.  Not answered.  Not answered.  Hydrogen Sufide (H2S) PPM quality requirement  Not answered.  Not answered.	Additional details for Equipment Involved. Please specify		Party > USA Compression > Lost Tank 13 Boo CS > Compression		
Please provide the mole percent for the percentage questions in this group.  Methane (CH4) percentage  Nitrogen (N2) percentage, if greater than one percent  Experiment of the percentage, if greater than one percent  Divide (H2S) PPM, rounded up  Carbon Dioxide (C02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Not answered.  Not answered.  Not answered.  Hydrogen Sufide (H2S) PPM quality requirement  Not answered.  Not answered.					
Methane (CH4) percentage 71  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 0  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.					
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  0 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.		T			
Hydrogen Sulfide (H2S) PPM, rounded up  Carbon Dioxide (C02) percentage, if greater than one percent  Oxygen (02) percentage, if greater than one percent  Oygen (02) percentage, if greater than one percent  O  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.  Not answered.  Hydrogen Sufide (H2S) PPM quality requirement  Not answered.		71			
Carbon Dioxide (C02) percentage, if greater than one percent  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.	Nitrogen (N2) 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.	Hydrogen Sulfide (H2S) PPM, rounded up	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.  Not answered.  Hydrogen Sufide (H2S) PPM quality requirement  Not answered.	Carbon Dioxide (C02) percentage, if greater than one percent	0			
Methane (CH4) percentage quality requirement  Not answered.  Not answered.  Not answered.  Hydrogen Sufide (H2S) PPM quality requirement  Not answered.	Oxygen (02) percentage, if greater than one percent	0			
Nitrogen (N2) percentage quality requirement  Not answered.  Hydrogen Sufide (H2S) PPM quality requirement  Not answered.	If you are venting and/or flaring because of Pipeline Specification, please provide the required spec	cifications for each gas.			
Hydrogen Sufide (H2S) PPM quality requirement  Not answered.	Methane (CH4) percentage quality requirement	Not answered.			
	Nitrogen (N2) percentage quality requirement	Not answered.			
Carbon Dioxide (C02) percentage quality requirement  Not answered.	Hydrogen Sufide (H2S) PPM quality requirement	Not answered.			
	Carbon Dioxide (C02) percentage quality requirement	Not answered.	Not answered.		

Not answered.

Oxygen (02) percentage quality requirement

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**

QUESTIONS, Page 2

Action 244943

QUESTIONS (continued)						
Operator: OXY USA INC	OGRID: 16696					
P.O. Box 4294 Houston, TX 772104294	Action Number: 244943					
	Action Type:  [C-129] Venting and/or Flaring (C-129)					
QUESTIONS	•					
Date(s) and Time(s)						
Date vent or flare was discovered or commenced	07/11/2023					
Time vent or flare was discovered or commenced	02:02 AM					
Time vent or flare was terminated	05:32 AM					
Cumulative hours during this event	4					

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: 639 Mcf   Recovered: 0 Mcf   Lost: 639 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
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.			

teps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current even 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 several gas compressors shut down simultaneously on three (3) separate occasions, which in turn instigated sudden and unexpected restrictions of gas flow intake by the Lost Tank Boo 13 CS, which then prompted Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically each time and trigger three (3) separate flaring occurrences within a 24-HR period. 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 each time they had compression equipment issues. Lost Tank Boo 13 compressor station is the first stopping point, where OXY sends it 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 OVV's policy to route its stranded assits a flore during an unferences and uneveilable

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 several gas compressors shut down simultaneously on three (3) separate occasions, which in turn instigated sudden and unexpected restrictions of gas flow intake by the Lost Tank Boo 13 CS, which then prompted Oxy's Lost Tank 18 Central Processing Facility to pressure up automatically each time and trigger three (3) separate flaring occurrences within a 24-HR period. 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 each time they had compression equipment issues. USA Compression. 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.	

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**

ACKNOWLEDGMENTS

Action 244943

### **ACKNOWLEDGMENTS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	244943
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### **ACKNOWLEDGMENTS**

V	I acknowledge that I am authorized to submit a Venting and/or Flaring (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 19.15.28.8 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.
✓	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 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** 

CONDITIONS

Action 244943

### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	244943
	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.	7/26/2023