# AKM MEASUREMENT SERVICES,LLC. Natural Gas Analysis Report GPA 2172-09/API 14.5 Report with GPA 2145-16 Physical Properties

	Sample Information
Sample Name	LOST TANK 30-19 CTB FUEL GAS
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	01-18-2024
Meter Number	
Air temperature	71
Flow Rate (MCF/Day)	
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	LOST TANK 30-19 CTB FUEL GAS
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	EAST
FLOC	
Sample Sub Type	FUEL GAS
Sample Name Type	FUEL GAS
Vendor	AKM MEASUREMENT
Cylinder #	
Sampled by	JONATHAN ALDRICH
Sample date	1-18-2024
Analyzed date	1-23-2024
Method Name	C9
Injection Date	2024-01-23 11:43:07
Report Date	2024-01-23 11:44:26
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	1d9f7e98-20e9-4092-9eff-f777db6ce173
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	51624.5	2.9739	0.00005761	2.9727	0.0	0.02875	0.328	
Methane	998014.5	72.4903	0.00007263	72.4614	733.6	0.40136	12.327	
CO2	57990.1	2.7528	0.00004747	2.7517	0.0	0.04181	0.471	
Ethane	263784.7	12.1137	0.00004592	12.1089	214.8	0.12571	3.250	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	195244.9	6.3827	0.00003269	6.3802	160.9	0.09714	1.764	
iso-butane	67910.4	0.7518	0.00001107	0.7515	24.5	0.01508	0.247	
n-Butane	160997.0	1.7713	0.00001100	1.7706	57.9	0.03553	0.560	
iso-pentane	30162.7	0.2949	0.00000978	0.2948	11.8	0.00734	0.108	
n-Pentane	31043.2	0.2913	0.00000938	0.2912	11.7	0.00725	0.106	
hexanes	15101.0	0.1483	0.00000982	0.1482	7.1	0.00441	0.061	
heptanes	9817.0	0.0584	0.00000595	0.0584	3.2	0.00202	0.027	
octanes	2008.0	0.0104	0.00000519	0.0104	0.7	0.00041	0.005	
nonanes+	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Total:		100.0397		100.0000	1226.1	0.76683	19.254	

# **Results Summary**

Result	Dry	Sat.
Total Un-Normalized Mole%	100.0397	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Releasted to Temperature 10£21F2024 8:26:51	<i>PM</i> 0.0	

Received by OCD: 10/21/2024 8:16:52 PM	Dry	Sat.	Pa
Flowing Pressure (psia)	0.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1226.1	1204.8	
Gross Heating Value (BTU / Real cu.ft.)	1230.7	1209.7	
Relative Density (G), Real	0.7694	0.7671	

# **Monitored Parameter Report**

	Parameter	Value	Lower Limit	Upper Limit	Status	
٦	otal un-normalized amount	100.0397	97.0000	103.0000	Pass	

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

Facility: Lost Tank 30-19 Fed 31H CTB Flare Date: 10/05/2024

**Duration of Event:** 1 Hour **MCF Flared:** 93

Start Time: 05:50 AM End Time: 06:50 AM

**Cause:** Emergency Flare > Facility Over-pressure > Overload of Compression Equipment

Method of Flared Gas Measurement: Gas Flare Meter

### 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 several instances of sudden and unexpected overload and/or maximum capacity of the compression equipment, which occurred within a 24-hour period, which in turn, then prompted high field pressure to occur several times, which then triggered various intermittent flaring instances to occur. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible. This flaring event's duration and volume result from several intermittent flares over 24 hours.

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

This facility is unmanned, except when Oxy production techs are gathering data daily or conducting daily walkthroughs to ensure that there are no problems, circumstances and/or assist other personnel on-site for maintenance purposes. It is OXY's policy to route its stranded gas to a flare during an unforeseen and unavoidable circumstance, 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, there were several instances of sudden and unexpected overload and/or maximum capacity of the compression equipment, which occurred within a 24-hour period, which in turn, then prompted high field pressure to occur several times, which then triggered various intermittent flaring instances to occur. When gas compressors hit their maximum intake capacity, they become overloaded, causing a backup in gas production. Field personnel promptly acted to reduce the gas flow to the flare by choking back several high GOR wells whenever flaring began, keeping field pressure below the flare trigger setpoints to cease flaring. To mitigate the risks associated with facility overpressure and to ensure the safety of our operations and personnel, Oxy had to resort to controlled and safety flaring. This process allows us to safely burn off the excess or backed up gas, thereby preventing potential hazards such as equipment damage, leaks, or even explosions. While flaring is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. Although this event was beyond OXY's control, Oxy field personnel endeavored to manage and reduce emissions to the greatest extent feasible.

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

Oxy has limited options for corrective actions to eliminate the cause and prevent the possible recurrence of facility overpressure due to peak production capacity. Oxy field staff consistently monitor to maintain normal production levels, although occasionally, production intake capacity can unexpectedly increase. Oxy consistently endeavors to manage and run all its equipment in accordance with best practices to prevent any type of emissions

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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 394357

#### **DEFINITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	394357
	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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QUESTIONS

Action 394357

Pnone:(505) 476-3470 Fax:(505) 476-3462			
	UESTIONS	1	
Operator: OXY USA INC		OGRID: 16696	
P.O. Box 4294		Action Number:	
Houston, TX 772104294		394357	
		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 wi	ith the rest of the questions.	
Incident Well	Unavailable.		
Incident Facility	[fAPP2127044861] LOST 1	FANK 30-19 FED COM 31H SWB	
Determination of Reporting Requirements			
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a		9.	
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 v	venting and/or flaring that is or ma	y 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 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	y Over-pressure > Overload of Compression Equipment	
Representative Compositional Analysis of Vented or Flared Natural Gas			
Please provide the mole percent for the percentage questions in this group.	T		
Methane (CH4) percentage	72		
Nitrogen (N2) percentage, if greater than one percent	3		
Hydrogen Sulfide (H2S) PPM, rounded up	0		
Carbon Dioxide (C02) percentage, if greater than one percent	3		
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	cifications 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.		

Not answered.

Oxygen (02) percentage quality requirement

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

QUESTIONS, Page 2

Action 394357

QUESTIONS	(continuea)	

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	394357
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### QUESTIONS

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	10/05/2024	
Time vent or flare was discovered or commenced	05:50 AM	
Time vent or flare was terminated	06:50 AM	
Cumulative hours during this event	1	

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: 93 Mcf   Recovered: 0 Mcf   Lost: 93 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	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 several instances of sudden and unexpected overload and/or maximum capacity of the compression equipment, which occurred within a 24-hour period, which in turn, then prompted high field pressure to occur several times, which then triggered various intermittent flaring instances to occur. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible. This flaring event's duration and volume result from several intermittent flares over 24 hours.
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compression equipment, which occurred within a 24-hour period, which in turn, then

Steps taken to limit the duration and magnitude of vent or flare	prompted high field pressure to occur several times, which then triggered various intermittent flaring instances to occur. When gas compressors hit their maximum intake capacity, they become overloaded, causing a backup in gas production. Field personnel promptly acted to reduce the gas flow to the flare by choking back several high GOR wells whenever flaring began, keeping field pressure below the flare trigger setpoints to cease flaring. To mitigate the risks associated with facility overpressure and to ensure the safety of our operations and personnel, Oxy had to resort to controlled and safety flaring. This process allows us to safely burn off the excess or backed up gas, thereby preventing potential hazards such as equipment damage, leaks, or even explosions. While flaring is not Oxy's preferred method of handling excess gas, it is a necessary step under these exceptional circumstances to maintain the integrity and safety of our operations. Although this event was beyond OXY's control, Oxy field personnel endeavored to manage and reduce emissions to the greatest extent feasible.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Oxy has limited options for corrective actions to eliminate the cause and prevent the possible recurrence of facility overpressure due to peak production capacity. Oxy field staff consistently monitor to maintain normal production levels, although occasionally, production intake capacity can unexpectedly increase. Oxy consistently endeavors to manage and run all its equipment in accordance with best practices to prevent any type of emissions

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ACKNOWLEDGMENTS

Action 394357

#### **ACKNOWLEDGMENTS**

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OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	394357
	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.
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 394357

### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	394357
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

#### CONDITIONS

Created By	Condition	Condition Date
shelbyschoepf	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.	10/21/2024