


**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	TURKEY TRACK CTB FUEL GAS
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	01-18-2024
Meter Number	
Air temperature	73
Flow Rate (MCF/Day)	
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	TURKEY TRACK 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 #	38589
Sampled by	JONATHAN ALDRICH
Sample date	1-18-2024
Analyzed date	1-23-2024
Method Name	C9
Injection Date	2024-01-23 11:24:25
Report Date	2024-01-23 11:31:01
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	7d141303-4de1-4107-9c21-91c93c88de91
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	56702.3	3.2664	0.00005761	3.2951	0.0	0.03187	0.364	
Methane	1039493.2	75.5031	0.00007263	76.1674	771.1	0.42189	12.956	
CO2	4304.5	0.2043	0.00004747	0.2061	0.0	0.00313	0.035	
Ethane	246327.8	11.3120	0.00004592	11.4115	202.4	0.11847	3.062	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	160412.7	5.2440	0.00003269	5.2901	133.4	0.08054	1.462	
iso-butane	61141.6	0.6769	0.00001107	0.6829	22.3	0.01370	0.224	
n-Butane	143937.3	1.5836	0.00001100	1.5975	52.2	0.03206	0.505	
iso-pentane	38565.9	0.3771	0.00000978	0.3804	15.3	0.00948	0.140	
n-Pentane	42301.5	0.3969	0.00000938	0.4004	16.1	0.00997	0.146	
hexanes	31970.0	0.3140	0.00000982	0.3167	15.1	0.00942	0.131	
heptanes	31243.0	0.1858	0.00000595	0.1874	10.3	0.00648	0.087	
octanes	11798.0	0.0613	0.00000519	0.0618	3.9	0.00244	0.032	
nonanes+	1054.0	0.0027	0.00000253	0.0027	0.2	0.00012	0.002	
Total:		99.1280		100.0000	1242.2	0.73959	19.145	

**Results Summary**

Result	Dry	Sat.	
Total Un-Normalized Mole%	99.1280		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flow Temperature (Deg. F)	73.0		

Result	Dry	Sat.	
Flowing Pressure (psia)	60.0		
Gross Heating Value (BTU / Ideal cu.ft.)	1242.2	1220.6	
Gross Heating Value (BTU / Real cu.ft.)	1246.7	1225.5	
Relative Density (G), Real	0.7419	0.7402	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	99.1280	97.0000	103.0000	Pass	

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Turkey Track CTB**Flare Date:** 02/02/2024**Duration of Event:** 28 Minutes**MCF Flared:** 154**Start Time:** 12:10 PM**End Time:** 12:38 PM**Cause:** Emergency Flare > Compression Equipment Malfunctions**Method of Flared Gas Measurement:** Gas Flare Meter

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**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, two gas lift compressors, unit 1 & 7, had sudden and unexpected compression equipment malfunctions, which in turn, then prompted the facility to pressure up and triggered a flaring event to occur. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible. All other compression at the facility was operating as designed and were running normally prior to this malfunction occurring.

**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, as the part of the overall process or steps to take to limit duration and magnitude of flaring. Oxy personnel are in the field 24/7 and can physically see when we are flaring which in turn are communicated to additional Oxy field personnel. Internal OXY procedures ensure that upon notice of flaring, malfunction gas compressor unit and/or multiple unit shutdown alarms, increased sensor line pressure alarms, etc., field production technician personnel are promptly notified, and are instructed to assess the issue as soon as possible to take prompt corrective action and minimize emissions. Oxy production technicians must assess whether the issue or circumstance is due to damage and repair is needed, or whether there are other reasons for its cause. In this case, two gas lift compressors, unit 1 & 7, had sudden and unexpected compression equipment malfunctions, which in turn, then prompted the facility to pressure up and triggered a flaring event to occur. Notwithstanding proper gas lift compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause gas lift compressor unit malfunctions to occur without warning or advance notice. Gas lift compressor engines are designed to operate in a precise manner and when a malfunction occurs, it disrupts the operating manner and robs the gas lift compression engine of power, thus, causing an automatic shutdown of the unit. The steps taken to limit the duration and magnitude of flaring was for the Oxy production technician to work with field personnel to shut in wells and restart one of the gas lift compressors. After multiple attempts on the second malfunctioned gas lift compressor, a compressor mechanic was requested to come out and trouble shoot the unit. Flaring ceased as after several wells were shut-in and one of the units restarted. Compressor mechanic was able to come out to the facility to resolve the gas lift compression malfunction on the second unit that was still down. All malfunctions were resolved, and all

compressors were once again back online. OXY made every effort to control and minimize emissions as much as possible during this event. All other compression at the facility was operating as designed and were running normally prior to this malfunction occurring.

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

Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas lift compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause gas lift compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they occur suddenly and without warning.

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**District IV**  
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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 315028

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 315028
	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>
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QUESTIONS  
  
Action 315028

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	315028
	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	[fAB1829628786] TURKEY TRACK CTB

<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 ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Emergency Flare > Compression Equipment Malfunctions

<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	76
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	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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 315028

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 315028
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/02/2024
Time vent or flare was discovered or commenced	12:10 PM
Time vent or flare was terminated	12:38 PM
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: 154 Mcf   Recovered: 0 Mcf   Lost: 154 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, two gas lift compressors, unit 1 & 7, had sudden and unexpected compression equipment malfunctions, which in turn, then prompted the facility to pressure up and triggered a flaring event to occur. This event is out of OXY's control yet OXY made every effort to control and minimize emissions as much as possible. All other compression at the facility was operating as designed and were running normally prior to this malfunction occurring.
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Steps taken to limit the duration and magnitude of vent or flare	<p>needed, or whether there are other reasons for its cause. In this case, two gas lift compressors, unit 1 &amp; 7, had sudden and unexpected compression equipment malfunctions, which in turn, then prompted the facility to pressure up and triggered a flaring event to occur. Notwithstanding proper gas lift compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause gas lift compressor unit malfunctions to occur without warning or advance notice. Gas lift compressor engines are designed to operate in a precise manner and when a malfunction occurs, it disrupts the operating manner and robs the gas lift compression engine of power, thus, causing an automatic shutdown of the unit. The steps taken to limit the duration and magnitude of flaring was for the Oxy production technician to work with field personnel to shut in wells and restart one of the gas lift compressors. After multiple attempts on the second malfunctioned gas lift compressor, a compressor mechanic was requested to come out and trouble shoot the unit. Flaring ceased as after several wells were shut-in and one of the units</p>
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	<p>Oxy is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring as notwithstanding proper gas lift compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause gas lift compressor unit malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its facility locations equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive compression equipment preventative maintenance program in place. The only actions that Oxy can take and handle that is within its control, is to continue with its compression equipment preventative maintenance program for all its facilities and continually work with its compression rental owners to resolve those issues in a timely manner, should they occur suddenly and without warning.</p>



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	Action Number:
	315028
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.

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CONDITIONS  
  
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Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 315028
	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.	2/15/2024