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		
lediseulto Tempeiatyr=2DE5/H)24 5:22:31 P	<i>M</i> 73.0		

Received by OCD: 2/15/2024 5:13:27 PM	Dry	Sat.	Page 2	of
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

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.

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

DEFINITIONS

Action 315028

DEFINITIONS

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

- 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 315028

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Nitrogen (N2) percentage, if greater than one percent Bydrogen Sulfide (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 Oyugen (02) percentage, if greater than one percent Oxygen (04) percentage duality requirement Not answered. Nitrogen (N2) percentage quality requirement Not answered. Hydrogen Sufide (H2S) PPM quality requirement Not answered.	Please provide the mole percent for the percentage questions in this group.		
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Methane (CH4) percentage quality requirement Not answered. Nitrogen (N2) percentage quality requirement Not answered. Hydrogen Sufide (H2S) PPM quality requirement Not answered.	Oxygen (02) percentage, if greater than one percent	0	
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Nitrogen (N2) percentage quality requirement Not answered. Hydrogen Sufide (H2S) PPM quality requirement Not answered.			
Hydrogen Sufide (H2S) PPM quality requirement Not answered.			
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Not answered.

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 315028

QUESTIONS (COITHINGE)	QUESTIONS ((continued)
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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	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	
Measured of Estimated Volume of Vented of Fiarca Natural Ods	
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.	
	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	

Steps taken to limit the duration and magnitude of vent or flare	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
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	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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ACKNOWLEDGMENTS

Action 315028

ACKNOWLEDGMENTS

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

ACKNOWLEDGMENTS

V	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be 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 315028

CONDITIONS

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

CONDITIONS

Created By		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