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

	Sample Information
Sample Name	8. CORRAL 2N COMPRESSOR STATION AFTER FUEL SKID
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	03-02-2023
Meter Number	NA
Air temperature	64
Flow Rate (MCF/Day)	NA
Heat Tracing	Heated Hose & Gasifier
Sample description/mtr name	8. CORRAL 2N COMPRESSOR STATION AFTER FUEL SKID
Sampling Method	fill and empty
Operator	OCCIDENTAL PETROLEUM
State	New Mexico
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	NA
FLOC	NA
Sample Sub Type	NA
Sample Name Type	NA
Vendor	AKM MEASUREMENT
Cylinder #	AKM-4
Sampled by	JONATHAN ALDRICH
Sample date	3-1-2023
Analyzed date	3-2-2023
Method Name	C9
Injection Date	2023-03-02 11:01:47
Report Date	2023-03-02 11:05:23
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	454164ab-9c70-4a26-9a81-475679206b40
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	19900.4	1.1216	0.00005636	1.1210	0.0	0.01084	0.124	
Methane	1048827.2	76.8431	0.00007327	76.8014	777.5	0.42540	13.064	
CO2	3240.1	0.1531	0.00004726	0.1530	0.0	0.00232	0.026	
Ethane	273459.1	12.4443	0.00004551	12.4375	220.6	0.12913	3.338	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	193142.1	6.3290	0.00003277	6.3256	159.5	0.09631	1.749	
iso-butane	69923.5	0.7771	0.00001111	0.7767	25.3	0.01559	0.255	
n-Butane	155310.4	1.7060	0.00001098	1.7051	55.8	0.03422	0.539	
iso-pentane	29200.4	0.2836	0.00000971	0.2835	11.4	0.00706	0.104	
n-Pentane	29465.3	0.2790	0.00000947	0.2789	11.2	0.00695	0.101	
hexanes	10415.0	0.0791	0.00000760	0.0791	3.8	0.00235	0.033	
heptanes	4902.0	0.0306	0.00000624	0.0306	1.7	0.00106	0.014	
octanes	1200.0	0.0067	0.00000558	0.0067	0.4	0.00026	0.003	
nonanes+	141.0	0.0009	0.00000619	0.0009	0.1	0.00004	0.001	
Total:		100.0541		100.0000	1267.2	0.73153	19.351	

Results Summary

	Result	Dry	
	Total Un-Normalized Mole%	100.0541	
	Pressure Base (psia)	14.730	
	Temperature Base (Deg. F)	60.00	
	Flowing Temperature (Deg. F)	0.0	
le	Fielding Preseing (p\$/4)2/2024 5:30:28	PM 125.0	

Received by OCD: 7612/1024 5:24:25 PM	Dry	Sat.	Page 2 of
Gross Heating Value (BTU / Ideal cu.ft.)	1267.2	1245.2	
Gross Heating Value (BTU / Real cu.ft.)	1271.8	1250.2	
Relative Density (G), Real	0.7339	0.7323	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.0541	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM

Facility: Corral 2N CS Flare Date: 06/27/2024

Duration of Event: 30 Minutes **MCF Flared:** 63

Start Time: 04:50 PM End Time: 05:20 PM

Cause: Emergency Flare > Multiple Compression Equipment Malfunctions > Various Compressor Stations

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, because of the extreme heat temperatures and weather conditions in the area, sudden and unexpected malfunctions occurred with the compression equipment at multiple facilities within the area, several times within a 24-hour period. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable, and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner, such as certain maximum speeds, sensor alarms and/or pressure capacity, and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit to avoid both catastrophic and long-term damage to the compressor units. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. Though sudden and unexpected malfunctioning compressor issues occurred at several facilities within the area, OXY routed the overflow of stranded gas to flare at Corral 2N compressor station in an effort to mitigate emissions for this event as the flare at this location can accommodate a moderate volume of gas and in an effort to protect equipment, environment, and personnel.

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, because of the extreme heat temperatures and weather conditions in the area, sudden and unexpected malfunctions occurred with the compression equipment at multiple facilities within the area, several times within a 24-hour period. OXY production techs diligently worked throughout the day to consistently restart the gas

compressors, at their respective facilites, each time a compression unit shut down. As soon as flaring was triggered during each sudden and unexpected compression malfunction, the area's mitigation optimizer cut rates to wells to reduce injection and sales gas across the area so that field pressure would stay below the flare trigger setpoints of the Compressor 2N compressor station to cease flaring. Though sudden and unexpected malfunctioning compressor issues occurred at multiple Oxy compressor stations, OXY routed the overflow of stranded gas from those facilities to flare at Corral 2N compressor station in an effort to mitigate emissions overall as the flare at this location can accommodate a higher volume of gas and in an effort to protect equipment, environment, and personnel. 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 is very limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring, caused by extreme freezing weather conditions, as notwithstanding various equipment design and operation, countless forms of mechanical or technical issues can be sudden, reasonably unforeseeable and unexpected which can cause malfunctions to occur without warning or advance notice. Oxy continually strives to maintain and operate all its equipment in a manner consistent with good practices for minimizing emissions and reducing the number of emission events. Oxy has a strong and positive 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 equipment preventative maintenance program.

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1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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 363717

DEFINITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	363717
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 363717

Phone: (505) 476-3470 Fax: (505) 476-3462		
Q	UESTIONS	
Operator:		OGRID:
OXY USA INC P.O. Box 4294		16696 Action Number:
Houston, TX 772104294		363717
		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	th the rest of the questions.
Incident Well	Unavailable.	
Incident Facility	[fAPP2126641235] CORRA	AL #2 NORTH COMP STATION
Determination of Reporting Requirements		
Answer all questions that apply. The Reason(s) statements are calculated based on your answers a	nd may provide addional quidance	
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 may	v be a maior 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	No	
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	No	
Equipment Involved		
Primary Equipment Involved	Other (Specify)	
Additional details for Equipment Involved. Please specify	Emergency Flare > Multipl Stations	e Compression Equipment Malfunctions > Various Compressor
	<u> </u>	
Representative Compositional Analysis of Vented or Flared Natural Gas		
Please provide the mole percent for the percentage questions in this group.		
Methane (CH4) percentage	77	
Nitrogen (N2) percentage, if greater than one percent	1	
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 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 (CO2) percentage quality requirement	Not answered	

Not answered.

Oxygen (02) percentage quality requirement

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QUESTIONS, Page 2

Action 363717

QUESTIONS (continued)	QU	IEST	IONS	(continued	(k
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Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	363717
	Action Type:
	[C-129] Venting and/or Flaring (C-129)
QUESTIONS	

Date(s) and Time(s)		
Date vent or flare was discovered or commenced	06/27/2024	
Time vent or flare was discovered or commenced	04:50 PM	
Time vent or flare was terminated	05:20 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: 63 Mcf Recovered: 0 Mcf Lost: 63 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.			

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
	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

Please explain reason for why this event was beyond this operator's control

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, because of the extreme heat temperatures and weather conditions in the area, sudden and unexpected malfunctions occurred with the compression equipment at multiple facilities within the area, several times within a 24-hour period. Notwithstanding proper gas compressor design and operation, various forms of mechanical or technical issues can be sudden, reasonably unforeseeable, and unexpected which can cause compressor unit malfunctions to occur without warning or advance notice. Compressor engines are designed to operate in a precise manner, such as certain maximum speeds, sensor alarms and/or pressure capacity, and when malfunctions occur, it disrupts the gas compressor's operating manner and cuts off engine power, which in turn, prompts an automatic shutdown of the unit to avoid both catastrophic and long-term damage to the compressor units. Compression malfunctions occur without warning and therefore, Oxy is unable to predict, avoid or prevent this type of equipment malfunction from occurring. This malfunctioning event is out of OXY's control. OXY made every effort to control and minimize emissions as much as possible. Though sudden and unexpected malfunctioning compressor issues occurred at several facilities within the area, OXY routed

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Steps taken to limit the duration and magnitude of vent or flare	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, because of the extreme heat temperatures and weather conditions in the area, sudden and unexpected malfunctions occurred with the compression equipment at multiple facilities within the area, several times within a 24-hour period. OXY production techs diligently worked throughout the day to consistently restart the gas compressors, at their respective facilities, each time a compression unit shut down. As soon as flaring was triggered during each sudden and unexpected compression malfunction, the area's mitigation optimizer cut rates to wells to reduce injection and sales gas across the area so that field pressure would stay below the flare trigger setpoints of the Compressor 2N compressor station to cease flaring. Though sudden and unexpected malfunctioning compressor issues occurred at multiple Oxy compressor stations, OXY routed the overflow of stranded gas from those facilities to flare at Corral 2N compressor station in an effort to mitigate emissions overall as the flare at this location can accommodate a higher volume of gas and in an effort to protect equipment, environment, a
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ACKNOWLEDGMENTS

Action 363717

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P.O. Box 4294	Action Number:
Houston, TX 772104294	363717
	Action Type:
	[C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

✓	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.
⋉	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 363717

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Note that the second of the se	
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OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	363717
	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.	7/12/2024