



Natural Gas Analysis Report

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

	Sample Information
Sample Name	10. CORRAL 2S COMPRESSOR STATION BEFORE 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	10. CORRAL 2S COMPRESSOR STATION BEFORE 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-5
Sampled by	JONATHAN ALDRICH
Sample date	3-1-2023
Analyzed date	3-2-2023
Method Name	C9
Injection Date	2023-03-02 09:45:07
Report Date	2023-03-02 09:49:45
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	70c22cb9-a539-4028-ae64-4159b3b6e3c9
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	19700.7	1.1103	0.00005636	1.1056	0.0	0.01069	0.122	
Methane	1055395.8	77.3244	0.00007327	76.9944	779.4	0.42647	13.098	
CO2	2737.5	0.1294	0.00004726	0.1288	0.0	0.00196	0.022	
Ethane	269592.0	12.2683	0.00004551	12.2160	216.7	0.12683	3.278	
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000	
Propane	186677.9	6.1172	0.00003277	6.0911	153.6	0.09274	1.684	
iso-butane	70411.5	0.7825	0.00001111	0.7792	25.4	0.01564	0.256	
n-Butane	167710.8	1.8422	0.00001098	1.8343	60.0	0.03681	0.580	
iso-pentane	33117.9	0.3217	0.00000971	0.3203	12.8	0.00798	0.118	
n-Pentane	36385.3	0.3445	0.00000947	0.3431	13.8	0.00855	0.125	
hexanes	16694.0	0.1268	0.00000760	0.1263	6.0	0.00376	0.052	
heptanes	8089.0	0.0505	0.00000624	0.0503	2.8	0.00174	0.023	
octanes	1750.0	0.0098	0.00000558	0.0097	0.6	0.00038	0.005	
nonanes+	138.0	0.0009	0.00000619	0.0009	0.1	0.00004	0.001	
Total:		100.4285		100.0000	1271.2	0.73358	19.363	

Results Summary

Result	Dry	Sat.	
Total Un-Normalized Mole%	100.4285		
Pressure Base (psia)	14.730		
Temperature Base (Deg. F)	60.00		
Flowing Temperature (Deg. F)	0.0		
Flowing Temperature (Deg. F)	240.0		

Result	Dry	Sat.	
Gross Heating Value (BTU / Ideal cu.ft.)	1271.2	1249.1	
Gross Heating Value (BTU / Real cu.ft.)	1275.9	1254.2	
Relative Density (G), Real	0.7360	0.7343	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.4285	97.0000	103.0000	Pass	

UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM**Facility:** Corral 2S CS**Flare Date:** 03/31/2023**Duration of event:** 30 Minutes**MCF Flared:** 359**Start Time:** 05:05 AM**End Time:** 05:35 AM**Cause:** Downstream Activity Issue > ETC > Compression Equipment Issues**Method of Flared Gas Measurement:** Gas Flare Meter**Comments:**

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 operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline 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, ETC's compression facility was having issues with their compression equipment. Until ETC was able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy. Oxy's facility optimizer began to shut in wells as soon as flaring was triggered. No advance warning of any kind was provided to Oxy personnel from ETC personnel regarding issues with their sales gas service pipeline system or issues with their compression equipment. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.

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

It is OXY's policy to route all 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. In this case, ETC's compression facility was having issues with their compression equipment. Until ETC was able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy. As soon as flaring occurred, the facility's well optimizer adjusted injection rates and shut-in wells to mitigate and subsequently cease flaring. No advance warning of any kind was provided to Oxy personnel from ETC personnel regarding issues with their sales gas service pipeline system or issues with their compression equipment. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.

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

Oxy is limited in its corrective actions to eliminate the cause and potential reoccurrence of an ETC gas flow pipeline restriction or shut in, as this control issue is downstream of Oxy's custody transfer point and out of Oxy's control to avoid or prevent from happening or reoccurring. ETC's downstream facility issues will re-occur from time to time, which in turn, directly impacts Oxy's ability to send gas to them. When ETC downstream facility and/or its facility equipment has issues or greatly struggles to handle the volume of gas being sent to them by Oxy, ETC then restricts or cuts off Oxy's ability to send gas, which then prompts Oxy to route its stranded gas not pushed into the ETC gas pipeline, to suddenly and unexpectedly flare. OXY makes every effort to control and minimize emissions as much as possible during these circumstances. The limited actions that Oxy can do in this circumstance is to shut in its wells in a swift and diligent manner, to cease flaring.

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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

DEFINITIONS

Action 208137

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 208137
	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">• 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 208137

QUESTIONS

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	Action Number: 208137
	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 with the rest of the questions.	
Incident Well	Unavailable.
Incident Facility	[fAPP2126640958] CORRAL #2 SOUTH COMP STATION

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	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 within 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	Downstream Activity Issue > ETC > 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	77
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) 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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 208137

QUESTIONS (continued)

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	Action Number: 208137
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/31/2023
Time vent or flare was discovered or commenced	05:05 AM
Time vent or flare was terminated	05:35 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: 359 Mcf Recovered: 0 Mcf Lost: 359 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	Yes
Was notification of downstream activity received by this operator	No
Downstream OGRID that should have notified this operator	[267255] ENERGY TRANSFER PARTNERS, LP
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	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 operator, which impacted Oxy's ability to send gas to a third-party gas pipeline. This interruption, restriction or complete shut-in of the gas pipeline by a third-party pipeline 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, ETC's compression facility was having issues with their compression equipment. Until ETC was able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy. Oxy's facility optimizer began to shut in wells as soon as flaring was triggered. No advance warning of any kind was provided to Oxy personnel from ETC personnel regarding issues with their sales gas service pipeline system or issues with their compression equipment. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.
Steps taken to limit the duration and magnitude of vent or flare	It is OXY's policy to route all 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. In this case, ETC's compression facility was having issues with their compression equipment. Until ETC was able to resolve their downstream facility and/or compression equipment issues, Oxy was unable to push its gas into their gas sales service pipeline as there were restrictions and a shut-in of the gas sales service pipeline to Oxy. As soon as flaring occurred, the facility's well optimizer adjusted injection rates and shut-in wells to mitigate and subsequently cease flaring. No advance warning of any kind was provided to Oxy personnel from ETC personnel regarding issues with their sales gas service pipeline system or issues with their compression equipment. This incident was completely out of Oxy's control to prevent from happening yet OXY made every effort to control and minimize emissions as much as possible during this event.
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ACKNOWLEDGMENTS

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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 complete 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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	Action Number: 208137
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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.	4/16/2023