


**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	CORRAL 2 SOUTH STATION INLET
Technician	ANTHONY DOMINGUEZ
Analyzer Make & Model	INFICON MICRO GC
Last Calibration/Validation Date	11-03-2023
Meter Number	NA
Air temperature	63
Flow Rate (MCF/Day)	
Heat Tracing	HEATED HOSE & GASIFIER
Sample description/mtr name	CORRAL 2 SOUTH STATION INLET
Sampling Method	FILL & EMPTY
Operator	OCCIDENTAL PETROLEUM, OXY USA INC
State	NEW MEXICO
Region Name	PERMIAN_RESOURCES
Asset	NEW MEXICO
System	RANCH
FLOC	OP-L2100-CS005
Sample Sub Type	COMP STATION
Sample Name Type	METER
Vendor	AKM MEASUREMENT
Cylinder #	38905
Sampled by	CHANDLER MONTGOMERY
Sample date	11-1-2023
Analyzed date	11-03-2023
Method Name	C9
Injection Date	2023-11-03 11:59:19
Report Date	2023-11-03 12:01:14
EZReporter Configuration File	1-16-2023 OXY GPA C9+ H2S #2.cfgx
Source Data File	661cfdda-b53d-4ae9-a028-b52f2b3db2d4
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	16421.8	0.9478	0.00005772	0.9428	0.0	0.00912	0.104
Methane	975051.0	71.3657	0.00007319	70.9859	718.6	0.39319	12.090
CO2	2427.5	0.1159	0.00004774	0.1153	0.0	0.00175	0.020
Ethane	291974.2	13.4774	0.00004616	13.4057	237.8	0.13918	3.602
H2S	0.0	0.0000	0.00000000	0.0000	0.0	0.00000	0.000
Propane	229342.5	7.5131	0.00003276	7.4731	188.5	0.11378	2.068
iso-butane	104612.2	1.1718	0.00001120	1.1656	38.0	0.02339	0.383
n-Butane	254085.4	2.8254	0.00001112	2.8104	91.9	0.05640	0.890
iso-pentane	73025.7	0.7231	0.00000990	0.7193	28.8	0.01792	0.264
n-Pentane	95662.5	0.9104	0.00000952	0.9055	36.4	0.02256	0.330
hexanes	87528.0	0.8740	0.00000999	0.8693	41.4	0.02587	0.359
heptanes	71956.0	0.4426	0.00000615	0.4403	24.3	0.01523	0.204
octanes	28646.0	0.1573	0.00000549	0.1565	9.8	0.00617	0.081
nonanes+	3123.0	0.0104	0.00000332	0.0103	0.7	0.00046	0.006
Total:		100.5349		100.0000	1416.2	0.82501	20.401

**Results Summary**

Result	Dry	Sat.
Total Un-Normalized Mole%	100.5349	
Pressure Base (psia)	14.730	
Temperature Base (Deg. F)	60.00	
Flow to Impinger	0.0	

Result	Dry	Sat.	
Flowing Pressure (psia)	49.3		
Gross Heating Value (BTU / Ideal cu.ft.)	1416.2	1391.6	
Gross Heating Value (BTU / Real cu.ft.)	1423.2	1399.0	
Relative Density (G), Real	0.8287	0.8255	

Monitored Parameter Report

Parameter	Value	Lower Limit	Upper Limit	Status	
Total un-normalized amount	100.5349	97.0000	103.0000	Pass	

**UPSET FLARING EVENT SPECIFIC JUSTIFICATIONS FORM****Facility:** Corral 2S CS**Flaring Date:** 03/19/2025**Duration of Event:** 4 Hour 45 Minutes**MCF Flared:** 536**Start Time:** 11:10 AM**End Time:** 03:55 PM**Cause:** Emergency Flare > Third Party Energy Power Provider > Xcel Energy > Power Outage > Downed Power Lines**Method of Gas Measurement:** Gas Flare Meter

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**1. Reason why this event was beyond Operator's control:**

This emission was caused by the sudden, 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 maintenance practices. In this case, third party power provided, Xcel Energy, experienced operational issues and a subsequent area-wide power outage on their end, when they had downed power lines due to severe weather affecting the area, which in turn caused a sudden and unexpected power outage at Oxy's Corral 2S compressor station, forcing its gas to back up and flare. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning from Xcel Energy. Oxy's facility require power to function and when the power goes out, equipment such as pumps, valves, and compressors will stop working, leading to overpressure in critical equipment, which could lead to rupture and/or explosions. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once power was restored to the facility. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel.

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

This emission was caused by the sudden, 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 maintenance practices. In this case, third party power provided, Xcel Energy, experienced operational issues and a subsequent area-wide power outage on their end, when they had downed power lines due to severe weather affecting the area, which in turn caused a sudden and unexpected power outage at Oxy's Corral 2S compressor station, forcing its gas to back up and flare. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning from Xcel Energy. Oxy's facility require power to function and when the power goes out, equipment such as pumps, valves, and compressors will stop working, leading to overpressure in critical equipment, which could lead to rupture and/or explosions. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once power was restored to the facility. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. Once flaring was triggered at the Corral 2S compressor station, Oxy field personnel were able to optimize gas lift injection rates and shut in several wells. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning. 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 unable to and is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring resulting from third party provider power outages, whether scheduled or unscheduled, as Oxy is unable to decree how long a power outage can continue. 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, when possible. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. The only steps Oxy can take during this circumstance is to minimize flaring by optimizing gas lift injection rates and choking back several wells until power is restored. Oxy will ensure all its operational equipment is slowly brought back to normal operations and running efficiently once power is restored to the facility so that flaring is ceased.

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General Information  
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Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

DEFINITIONS

Action 448614

DEFINITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448614
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

DEFINITIONS

<p>For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application:</p> <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 448614

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 448614
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2126640958] CORRAL #2 SOUTH COMP STATION
<i>Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.</i>	

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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, major venting and/or flaring of natural gas.
<i>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.</i>	
Was there <b>at least 50 MCF</b> 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 within 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 > Third Party Energy Power Provider > Xcel Energy > Power Outage > Downed Power Lines

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	71
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
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 448614

**QUESTIONS (continued)**

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	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/19/2025
Time vent or flare was discovered or commenced	11:10 AM
Time vent or flare was terminated	03:55 PM
Cumulative hours during this event	5

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: 536 Mcf   Recovered: 0 Mcf   Lost: 536 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	
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 emission was caused by the sudden, 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 maintenance practices. In this case, third party power provided, Xcel Energy, experienced operational issues and a subsequent area-wide power outage on their end, when they had downed power lines due to severe weather affecting the area, which in turn caused a sudden and unexpected power outage at Oxy's Corral 2S compressor station, forcing its gas to back up and flare. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning from Xcel Energy. Oxy's facility require power to function and when the power goes out, equipment such as pumps, valves, and compressors will stop working, leading to overpressure in critical equipment, which could lead to rupture and/or explosions. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once power was restored to the facility. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel.
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Steps taken to limit the duration and magnitude of vent or flare	<p>operational issues and a subsequent area-wide power outage on their end, when they had downed power lines due to severe weather affecting the area, which in turn caused a sudden and unexpected power outage at Oxy's Corral 2S compressor station, forcing its gas to back up and flare. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning from Xcel Energy. Oxy's facility require power to function and when the power goes out, equipment such as pumps, valves, and compressors will stop working, leading to overpressure in critical equipment, which could lead to rupture and/or explosions. OXY made every effort to control and minimize emissions as much as possible during this event and ensured all its operational equipment was slowly brought back to normal operations and running efficiently once power was restored to the facility. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. Once flaring was triggered at the Corral 2S compressor station, Oxy field personnel were able to optimize gas lift injection rates and shut in several wells. This event could not have been foreseen, avoided, or prevented as this event occurred with no advance notice or warning. OXY made every effort to control and minimize emissions as much as possible during this event.</p>
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	<p>Oxy is unable to and is limited in the corrective actions to eliminate this type of cause and potential reoccurrence of flaring resulting from third party provider power outages, whether scheduled or unscheduled, as Oxy is unable to decree how long a power outage can continue. 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, when possible. Although flaring is not OXY's preferred method for handling excess gas, it is necessary to ensure the safety of our operations, equipment, and field personnel. The only steps Oxy can take during this circumstance is to minimize flaring by optimizing gas lift injection rates and choking back several wells until power is restored. Oxy will ensure all its operational equipment is slowly brought back to normal operations and running efficiently once power is restored to the facility so that flaring is ceased.</p>



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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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: 448614
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
shelbyschoepf	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	4/3/2025